# List of Current Literature

# Topics

[Covid-19](#_Toc39898889)

[Sedation and Delirium](#_Toc39898890)

[Mechanical Ventilation & Weaning](#_Toc39898891)

[Early Mobilization/Physiotherapy & Occupational Therapy](#_Toc39898892)

[ICUAW - ICU acquired weakness](#_Toc39898893)

[Neuromuscular electrical stimulation](#_Toc39898894)

[Communication, Dysphagia & Nutrition](#_Toc39898895)

[Team work](#_Toc39898896)

[Environment and equipment](#_Toc39898897)

[Patient Outcomes](#_Toc39898898)

[Patients Experiences](#_Toc39898899)

[Relatives & families](#_Toc39898900)

[Other](#_Toc39898902)

**Last Update: December 7th, 2024**

# Covid-19

## Resources

1. [Body Composition & Physical Performance 1 yr Post COVID-19](https://pubmed.ncbi.nlm.nih.gov/37408132/)
2. [Sex-differences in Longitudinal Recovery of Neuromuscular Function in COVID-19 ARDS](https://www.frontiersin.org/articles/10.3389/fmed.2023.1185479/full)
3. [Restrictive Visitation & PTSD in Families of ICU Pts with COVID-19](https://journal.chestnet.org/article/S0012-3692(23)00923-6/fulltext?dgcid=raven_jbs_aip_email)
4. [Medical & Mental Health Sequelae Post COVID-19 Hospitalization: Cohort Study](https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2806192)
5. [Mitigating Neuro, Cog, & Psych Sequelae of COVID-19-related Crit Illness](https://www.sciencedirect.com/science/article/abs/pii/S2213260023002382)
6. [Post-Acute Sequelae of COVID-19: Multisystem Manifestations](https://www.thelancet.com/journals/lanres/article/PIIS2213-2600(23)00239-4/fulltext)
7. [Long COVID—Unravelling Complex Condition](https://www.thelancet.com/journals/lanres/article/PIIS2213-2600(23)00232-1/fulltext)
8. [Researching COVID to Enhance Recovery (RECOVER) Adult Study Protocol: Cohort Study](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0286297)
9. Prevalence of Long Covid: Sys Review  <https://bit.ly/43qemht>
10. COVID-19 Physical Activity-Based Rehab: Sys Review <https://bit.ly/3BA9jim>
11. Home-based Pulm Rehab with & without Telecoaching: RCT <https://bit.ly/3odKeGV>
12. Home Exercise on QoL & Functional Capacity in Severe COVID-19: RCT <https://bit.ly/3OlOfUg>
13. Physical Functioning Post-COVID-19: Mixed Methods Study <https://bit.ly/42tZY7n>
14. Discharge Disposition & Loss of Independence: Observational Study <https://bit.ly/3odkxq4>
15. Long COVID in Older Pts: Observational Cohort Study <https://bit.ly/3p1xF1o>
16. Depression & Anxiety in Self-reported COVID-19-like Symptoms vs COVID-19 <https://bit.ly/3oe9g8U>
17. Psychiatric Outcomes & Coping in Long COVID <https://bit.ly/435eWkn>
18. Cognitive Deficits in COVID-19 & Association with PASC <https://bit.ly/41SGcBA>
19. Cognitive Impairment in Young Adults with Post-COVID-19 Syndrome <https://bit.ly/3ATBjgr>
20. E-Stim to Regain Lower Extremity Muscle Perfusion in PASC: RCT <https://bit.ly/3LlQ95I>
21. Efficacy & Tolerability of AXA1125 in Long COVID: RCT <https://bit.ly/40ePAhX>
22. “This Is My Story” -- Audio Interviews for ICU Pts during COVID-19 <https://bit.ly/43zhiJw>
23. Definition of Post–COVID Condition Among Published Research Studies <http://bit.ly/3GGAXgt>
24. 2 Yr Physical, Mental & Cog Outcomes among COVID-19 ICU Survivors <https://bit.ly/3GGL2Kv>
25. Lung Abnormalities after COVID-19 Hospitalization: Interim Analysis of UKILD Study <https://bit.ly/3GBJu4i>
26. Long-term Physical Impairments in COVID-19 vs non COVID-19 ARDS Survivors <https://bit.ly/3n1P7SK>
27. ICUAW & Func Disability in Mech Ventilated COVID-19 Pts <https://bit.ly/3onzfKH>
28. Exercise in Myalgic Encephalomyelitis/Chronic Fatigue Syn in PASC <https://bit.ly/416yYKK>
29. Neuro & Psych Sequelae in ICU & Gen Ward COVID-19 Pts <http://bit.ly/3GHUhdv>
30. Incidence of Delirium in ICU Pts with & without COVID-19 <https://bit.ly/3Uu6g3N>
31. Ventilator-Free Days & Respiratory Physiotherapy in Critical COVID-19 <https://bit.ly/3fxWVHM>
32. COVID-19 & Respiratory Muscle Performance: Review <https://bit.ly/3VlA9U8>
33. Physiotherapy Practices in Treating COVID-19 Pts: Survey <https://bit.ly/3riicbc>
34. Predictors of Post-Acute COVID-19 Sequelae & Rehab: Retrospective Study <https://bit.ly/3rluXBL>
35. Factors Influencing Functional Recovery in COVID-19 ICU Pts <https://bit.ly/3VfmUEj>
36. A2Fbundle for ICU-Induced Disability with or without COVID: Editorial <https://bit.ly/3EMQX0k>
37. Acute COVID-19 Severity & Post-COVID Sequelae <https://bit.ly/3C381xB>
38. Cardiopulmonary Exercise Testing for Long COVID-19: Meta-Analysis <https://bit.ly/3CuQ5uK>
39. Low Cardiorespiratory Fitness Post‑COVID‑19: Narrative Review <https://bit.ly/3Si5GnU>
40. Long-Term Outcomes in ECMO Treated COVID-19 ARDS Survivors <https://bit.ly/3Rg8Wij>
41. 12-Month Clinical Outcomes after Critical COVID-19 <https://bit.ly/3M86M3e>
42. PICS Prevalence in COVID-19 Pts from First & Second Waves <https://bit.ly/3yva4rJ>
43. Long-Term Impairments & Obesity in COVID-19 ICU Survivors <https://bit.ly/3rZux4i>
44. 6-12 Mo. Post-Acute Sequelae of COVID-19: Population-Based Study <https://bit.ly/3T5AWqA>
45. Agitation in ARDS Pts with COVID-19 & Influenza: Propensity Score Study <https://bit.ly/3S9LaWK>
46. Long-Term Neurologic Outcomes of COVID-19 <https://go.nature.com/3LRDs16>
47. Neuro-Psych Outcomes in Pts Receiving Post-COVID Rehab: Observational <https://bit.ly/3rwn2lq>
48. Psychological Morbidity after Critical COVID-19 <https://bit.ly/3SFdksW>
49. Rehab & COVID-19: Living Sys Review by Cochrane as of Feb 28, 2022 <https://bit.ly/3OrzU5P>
50. ICU-AW & Hospital Func Mobility after MV in COVID-19: Cohort Study<https://bit.ly/3O24SSd>
51. Core Outcome Set for Post-COVID-19 for Clinical & Research: Delphi<https://bit.ly/3bBv9bB>
52. Post-COVID-19 in Children: Core Outcome Set urgently needed <https://bit.ly/3A9FLsi>
53. Priority Setting to Identify 10 Research Questions in Long COVID <https://bit.ly/3zEDYvg>
54. COVID-19 Continuum of Illness <https://bit.ly/3bzKB8e>
55. Long COVID Trajectory after Covid-19 Vaccination: Cohort study <https://bit.ly/3zS64TE>
56. Long COVID after breakthrough SARS-CoV-2 infection <https://go.nature.com/3QqYKUZ>
57. Longitudinal Study of COVID-19 Sequelae & Immunity: Baseline Findings<https://bit.ly/3O4erjh>
58. One-year Outcomes of Mech Vent COVID-19 ICU Survivors: Cohort Study<https://bit.ly/3bbPJiF>
59. Early Deep Sedation & Clinical Outcomes in COVID-19 Mech Vent pts: Cohort Study<https://bit.ly/39QWdDa>
60. Post-COVID Condition among COVID-19 Survivors Aged 18–64 & ≥65 Years<https://bit.ly/3y0BhTB>
61. Sleep & Circadian Health of Critical COVID-19 Survivors 3 Mo after Discharge<https://bit.ly/39wP7Uj>
62. Fatigue, Cognitive Dysfunc & Psych Disorders after COVID vs. Sepsis:<https://bit.ly/3zL0pPx>
63. Rapid Vigilance & Episodic Memory Decrements in COVID-19 Survivors<https://bit.ly/3QwiKWc>
64. Comprehensive Clinical Assessment Identifies Neurocognitive Deficits in Long-COVID<https://bit.ly/3zILTHS>
65. Remote Functional Exercise Testing in Cardiac Pts during Covid-19: Sys Review<https://bit.ly/3zOibBg>
66. Evaluating Primary Endpoints for COVID-19 Therapeutic Trials to Assess Recovery<https://bit.ly/3N0wllQ>
67. Evolution in Care Delivery during COVID-19 Pandemic: Qualitative Study<https://bit.ly/39NT5I8>
68. Examination of Stress Symptoms & Posttraumatic Growth in Covid-19<https://bit.ly/3AbN5DV>
69. Restoration in the Aftermath <https://bit.ly/3Hvsa0g>
70. Addressing Post-Acute Sequelae of COVID-19: Multidisciplinary Model of Care [https://bit.ly/3b9nhus](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3b9nhus&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480508931%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=iNcyYZFxI6o%2FkIl3iN0wJvRkdTBNpDgG4aok8z2sET4%3D&reserved=0)
71. Short-term & Long-term Rates of Post-acute Sequelae of COVID-19: Systematic Review [https://bit.ly/3b57qx0](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3b57qx0&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480518890%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=ESxjVDHIy5%2BIV%2Fd6t6%2BMPxjFhB9JOW28sMmiuxXVPFI%3D&reserved=0)
72. Surviving COVID-19: Familiar Road to Recovery? – Editorial  [https://bit.ly/3nu7nAq](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3nu7nAq&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480518890%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=eiIT1jV%2FeWl1WpGVp2IKAbG19TiRJ%2F62pp4Z9Mx%2BZAk%3D&reserved=0)
73. Physical, Cognitive & Mental Health Impacts of COVID-19 after Hospitalization: Cohort study [https://bit.ly/3Gjqx4L](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Gjqx4L&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480528844%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Abkv1ntbSUOqoh8WTJC6V13E4sD0SzurE7yWPLtn7IE%3D&reserved=0)
74. 6 mo. Incidence, Co-occurrence & Evolution of Long-COVID-19: Cohort study [https://bit.ly/3jv2F4k](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jv2F4k&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480528844%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=VmmCY1yKFoQ8SlTY0ZdYzXMbXj%2B6QArH5LOjXwPbdxg%3D&reserved=0)
75. 6 mo. Longitudinal Study of Respiratory, Physical & Psychological Outcomes after COVID-19 [https://bit.ly/3nufOM2](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3nufOM2&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480538802%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=GaUMbeqzgAEZBeGd%2BlTbgfTJqvpb6qrQz%2F%2BxuyUPF50%3D&reserved=0)
76. 12 mo. Physical, Cognitive & Mental Health Outcomes in COVID-19-associated ARDS [https://bit.ly/3m9fiUv](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3m9fiUv&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480538802%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=9r8DfVyg0pZzzaFXu4PcL74ltYhNjqvyClV4ZvEYUaU%3D&reserved=0)
77. 12 mo. Longitudinal Study of Neuropsychiatric Outcomes in COVID-19 [https://bit.ly/3jTCXXF](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jTCXXF&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480548763%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=OR1myWhH%2B705aka8iLVHJOWw4ALZr%2Bqc9VXnhqSpo%2Bc%3D&reserved=0)
78. Assessment of Cognitive Function After COVID-19 [https://bit.ly/2ZoO2IQ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2ZoO2IQ&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480548763%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=I%2BqsILXQyaekwAb4dT77kewpQsF0ePg%2FRkQjjzBm%2Fj0%3D&reserved=0)
79. Can COVID-19 Result in Cognitive Dysfunction? – Letter to Editor [https://bit.ly/3vHNjyd](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3vHNjyd&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480558727%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=UQ7pAwpVnLS%2FPgWX%2B9pfd0b3UZ7id5MwGfU62qeDzQE%3D&reserved=0)
80. Early Neuro-rehab & Recovery from Disorders of Consciousness after COVID‑19 [https://bit.ly/3EhuMvE](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3EhuMvE&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480558727%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=UOtGkvntDDWKWLO03VjfTPVVZHzB4Va0FhKSxU5KVPs%3D&reserved=0)
81. Physiotherapy-assisted or Modified Prone Positioning in Pts with COVID-19 [https://bit.ly/3b7kXE2](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3b7kXE2&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480568675%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=EZAz70QK1eOMLbSFtkz%2F2iFWurBg7J34CDbNqXkH080%3D&reserved=0)
82. Developing ClinFIT COVID-19: Initiative to Scale Up Rehab for COVID‑19 [https://bit.ly/3m9fdQK](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3m9fdQK&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480568675%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Wqww83UdbblWLmONG8uY71Hk%2FtFTNdMZszuSDGf6mjY%3D&reserved=0)
83. Functional Assessment & Rehab Protocol in COVID-19 in ICU [https://bit.ly/2ZiezaH](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2ZiezaH&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480578639%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=CsyaFx%2BdvYSVn8Vfz9N4aSUNghkDd9M%2Bow1ISndK04Y%3D&reserved=0)
84. Musculoskeletal Tele-rehab Experience during Covid-19 Lockdown in Italy [https://bit.ly/3EdJ1lf](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3EdJ1lf&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480578639%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=fzOP%2Ffyj9NdbMTRNkwC2B9mDCiBXQ8GIGz0qwfxuu6Q%3D&reserved=0)
85. Daily Telephone Call during COVID-19: Perceptions of Families & Providers [https://bit.ly/310PaD9](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F310PaD9&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cd7de6af220f84ad47bde08d9989f1f74%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637708631480588584%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=D59sfRZXc%2BTT2pWY5MXd9ZRwXI2JJovJmyqfChqTVT4%3D&reserved=0)
86. Core Outcome Measures for Trials in COVID-19  [http://bit.ly/2YGnJtR](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F2YGnJtR&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755655243%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=OFo0JIWudcz7tmxLj0CHOoSbkEnS9CUqXAgtU2ggjww%3D&reserved=0)
87. Pulm Function & Radiology Features: Swiss Study [http://bit.ly/2YGeJVx](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F2YGeJVx&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755665236%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=xa3b7TRDCDYpyy%2F5k3mhK5hCI%2F0CqP1s2ognht23w7E%3D&reserved=0)
88. Poor Health Post-COVID-19 Not Assoc with Severity or Resp. Complications  [http://bit.ly/2MVUOj2](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F2MVUOj2&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755665236%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=BBc7W%2FnVqNhJT%2B5rjzx6HD4XDgirFtdryjCyfWSUObY%3D&reserved=0)
89. Nervous System Complications: Prospective Study with 3-mo. Follow-Up [http://bit.ly/39Idf3o](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F39Idf3o&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755675232%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2Ff7elikIiXB4NTjD8dPvrGe716DSPwDbrGO%2BFX0gw78%3D&reserved=0)
90. Brachial Plexus Neuropathies: Case Series [http://bit.ly/3tjHh5z](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3tjHh5z&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755675232%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Zfh4mFTvXCzYjKWeVKgizNnzW66uLph2zDwErHKAzco%3D&reserved=0)
91. PT Intervention Assoc with Mobility & Discharge Disposition [http://bit.ly/37PPAha](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F37PPAha&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755685226%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=tVsj4r8tFGkyQPaoT0dCxqd%2FZeUBB1qTtab%2BQTTex0U%3D&reserved=0)
92. Functional Outcome after Inpatient Rehab [http://bit.ly/3cDYY9V](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3cDYY9V&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755685226%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=HPMHJUo%2Bnw9LonxYdwSOpv7om7yQJuw9uItDWrLNhi0%3D&reserved=0)
93. Muscle Strength & Physical Performance after COVID-19 [http://bit.ly/36EqEHL](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F36EqEHL&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755685226%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=ykG8hizUKeAwNWCOIe7An46gKuE4moa7EZyr%2BzvnNoI%3D&reserved=0)
94. Exercise & Psychological Support after COVID-19: RCT Protocol [http://bit.ly/3tn7q3l](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3tn7q3l&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755695217%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=nslGPSQzwhHJFILP6AgZOi0hWVZkw7ymfU%2Bhig1kIHg%3D&reserved=0)
95. Rehab during & after COVID-19: Overview of Recommendations [http://bit.ly/36DCoKT](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F36DCoKT&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755695217%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=9Y5jz41K9kU0SABvUvOs6HeEGzBTq1HVr%2BvxBbkdq%2BM%3D&reserved=0)
96. Prevalence & Risk Factors for Delirium in ICU Patients [http://bit.ly/39MmIXI](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F39MmIXI&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755705216%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=jeClXxcGo%2FGaBs%2BfM0wJlVrxF%2BEUCLxVkxUhEKKKYjA%3D&reserved=0)
97. Pathoetiology, Presentation, & Management of Delirium [http://bit.ly/3pMTRYP](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3pMTRYP&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755705216%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2FmxWNyjCIQs7oHyAfN%2BzKI%2B1Dd1tMJUdL%2Fn9vH24q9Q%3D&reserved=0)
98. Swallowing & Voice Outcomes in COVID-19 [http://bit.ly/3rnBYjp](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3rnBYjp&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755715207%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=iMXMFSzJ%2F5uhIKnYB644MxRqVP2RIPJ6X6iu%2F98pyro%3D&reserved=0)
99. Tracheotomy in COVID-19 Patients: Sys Review [http://bit.ly/2LgcdSR](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F2LgcdSR&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755715207%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=3TMtFlOJxnzwXp%2FeSq5hN03F8tL91uMnQOq5TJ69Tf4%3D&reserved=0)
100. Psych Effects of Remote Communication in ICU during COVID-19 [http://bit.ly/3cCTBI1](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3cCTBI1&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ca3eb12964787432dbb7d08d8cc452bc3%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637483944755725201%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=o7HVQjpv2GAoCJaqRSw8GtP%2FYOYg%2F3Ohe0MwYjac%2Fys%3D&reserved=0)
101. Peripheral nerve injury with proning: case series <https://www.medrxiv.org/content/10.1101/2020.07.01.20144436v1.full.pdf>
102. Outcome of 1890 Tracheostomies for COVID‑19 Patients in Spain <https://bit.ly/3gFztn6>
103. Prone Positioning for COVID-19 high Failure: A Rapid Review <https://bit.ly/3hItIGx>
104. Sedation, Analgesia & Paralysis in COVID-19 in the Setting of Drug Shortages <https://bit.ly/3gEnUfX>
105. Post-Discharge Symptoms & Rehab Needs in COVID-19: Cross-Sectional Study <https://bit.ly/3lxfZob>
106. Low Physical Functioning & Impaired ADLs in COVID-19 <https://bit.ly/32BPuFD>
107. Rehab & COVID-19: Cochrane Systematic Review (Jan 1 to June 30 2020) <https://bit.ly/34PFP0K>
108. Physical Function & Fitness after COVID-19 ARDS: Sys Review <https://bit.ly/3gDuvXL>
109. Management of Post-Acute Covid-19 in Primary Care <https://bit.ly/31IB4El>
110. Recovery from COVID-19: Leveraging Lessons of Sepsis Survival <https://bit.ly/3batJAn>
111. Position Statement on Dysphagia Management during COVID-19: Japan <https://bit.ly/34OgJ2y>
112. Patient Communication during COVID-19: Editorial  <https://bit.ly/3hOnB3C>
113. Core Outcomes Set for Trials in People with COVID-2019 <https://bit.ly/3hCVCnf>
114. International Survey to Establish Prioritized Outcomes for Trials in COVID19 <https://bit.ly/2EF2Ad9>
115. Archive of JHH PICS Webinar: <https://www.hopkinsmedicine.org/physical_medicine_rehabilitation/education_training/amp/webinars.html>
116. Recommendations for Respiratory Rehab during COVID-19:  <https://journals.lww.com/cmj/Abstract/9000/Recommendations_for_respiratory_rehabilitation_in.99313.aspx>
117. Delirium Incidence, Duration & Severity in ICU Patients with COVID-19 - Pre-print from medRxiv <https://www.medrxiv.org/content/10.1101/2020.05.31.20118679v1>
118. After Care Guidance for COVID-19 in-patients (NHS, UK): <https://www.england.nhs.uk/coronavirus/publication/after-care-needs-of-inpatients-recovering-from-covid-19/>
119. Post-ICU Care for COVID-10 (Beth Israel Lahey Health, USA) <https://covid-19.bilh.org/wp-content/uploads/2020/06/BILH-COVID-19-Post-ICU-Care-Handbook.pdf>
120. Rehab Resources for COVID-19 (Rehab Care Alliance):  <http://rehabcarealliance.ca/covid-19-rehab-resources>
121. Framework for Assessing Rehab after ICU (ICS, UK): <https://www.ics.ac.uk/ICS/GuidelinesAndStandards/Framework_for_assessing_early_rehab_needs_following_ICU>
122. RCSLT guidance for endoscopic procedures during COVID <https://www.rcslt.org/-/media/docs/Covid/RCSLT-COVID-19-SLT-led-endoscopic-procedure-guidance_FINAL-(2).PDF?la=en&hash=8101575091FE8F1ABA41B4B472387DAFB023A39D>
123. Oropharyngeal Dysphagia and Covid-19 Patients <https://www.dropbox.com/s/z61peradx146l08/Oropharyngeal%20Dysphagia%20and%20Covid-19%20Patients.pdf?dl=0>
124. Prone position plexopathy British Ortho Assoc. <https://www.boa.ac.uk/policy-engagement/journal-of-trauma-orthopaedics/journal-of-trauma-orthopaedics-and-coronavirus/a-commentary-on-prone-position-plexopathy.html>
125. WHO/PAHO Rehab During COVID-19: <https://iris.paho.org/handle/10665.2/52035>
126. Patient Resources for Recovery – from UK Sepsis Trust: <https://sepsistrust.org/get-support/resources/>
127. Patient Support after COVID-19 – NHS Lancashire Teaching Hospitals UK <https://covidpatientsupport.lthtr.nhs.uk/#/>
128. Patient/Family COVID-19 Registry by U.S. ARDS Foundation:  <https://ardsglobal.org/covid-19-united-states-registry-form/>
129. Tips for prone positioning from Royal National Orthopedic Hospital, UK: <https://www.rnoh.nhs.uk/application/files/6715/8834/4124/Proning_advice_and_pathway_for_COVID19_patients.pdf>
130. Restoring Movement after COVID-19 (Patient Education):  <https://www.hopkinsmedicine.org/physical_medicine_rehabilitation/coronavirus-rehabilitation/_files/impact-of-covid-patient-recovery.pdf>
131. Rehab Recommendations for COVID-19 (Alberta, Canada): <https://www.albertahealthservices.ca/assets/info/ppih/if-ppih-covid-19-sag-rehabilitation-needs-rapid-review.pdf>
132. PTSD patient resources (from Psychology Tools): <https://www.psychologytools.com/assets/covid-19/critical_illness_intensive_care_and_ptsd_en-gb.pdf>
133. ATS podcast (w/ Dale Needham) on Post-Intensive Care Syndrome (PICS) during COVID-19 <https://www.thoracic.org/about/ats-podcasts/critical-perspective-management-of-post-intensive-care-syndrome-in-the-era-of-covid-19.php>
134. Royal College of OT COVID-19 guidance: <https://www.rcot.co.uk/practice-resources/occupational-therapy-topics/rehabilitation>
135. OT Quick Guide for Patients Recovering from COVID-19 (free full text):  <https://www.rcot.co.uk/file/6618/download?token=-DJThNG8>
136. McMaster University Guidance for OT, PT, SLP  for Patients with COVID-19  <https://srs-mcmaster.ca/covid-19/>
137. Delirium prevention during COVID-19: practical adaptations from HELP program:  <https://bit.ly/2USRFSt>
138. APTA website: COVID-19 Courses & websites <https://learningcenter.apta.org/student/Catalogue/CatalogueCategory.aspx?id=dcbae4dc-1a13-42ff-b9da-7ba7a62162e9>
139. Global Tracheostomy Collaborative information: <https://www.gotostage.com/channel/c4d2288975ce453daf8d9e09860c8da4>
140. Free #everyBODYmoves COVID-19 resources:<https://www.hopkinsmedicine.org/physical_medicine_rehabilitation/education_training/amp/everybodymoves/covid-resources.html>
141. Recommendations for Physiotherapy Management for COVID-19 in the Acute Setting<https://bit.ly/2UK5VLS>
142. Respiratory Physiotherapy in COVID-19: Italian Association of Respiratory Physiotherapists <https://bit.ly/2JuPw9e>
143. Role of Respiratory Rehab in the COVID-19 Crisis: Italian Position Paper <https://bit.ly/2WZBEM6>
144. Efficacy and Safety of Prone Positioning Combined with HFNC or NIV in ARDS: Prospective Cohort<https://bit.ly/3dMnJi6>
145. Prone Positioning Combined with High-flow Nasal Cannula in Severe Non-infectious ARDS <https://bit.ly/2WZh928>
146. Rehab resources for COVID-19 (updated daily): <https://docs.google.com/document/d/16UrBoE0YLikWaXgdUpmO01oO2NTo5fr-_qkN3EyDvr0/edit?usp=sharing>
147. Slides from APTA COVID presentation: <https://cdn.ymaws.com/www.aptahpa.org/resource/resmgr/webinars/3-28-20_Presentation_Handout.pdf>
148. Rehab & COVID-19: Living Sys Review Updated as of Dec 31st, 2020 [https://bit.ly/2OsOCA5](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2OsOCA5&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175536837%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Qu98A1qIqS7%2B3YdUXvVxHVasbrrDOin6nJL%2FJwUyWRI%3D&reserved=0)
149. Rehab to Enable Recovery from COVID-19: Rapid Sys Review [https://bit.ly/2MCkWzz](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2MCkWzz&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175546835%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=G3BxV8BjMt6jb4WsRJcLKW7xJg7yVsMSWamDNE2iiRA%3D&reserved=0)
150. Effectiveness of Pulmonary Rehab in COVID-19 Post-ICU: Pre-Post Study [https://bit.ly/3eboJzl](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3eboJzl&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175546835%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=hVzz0onxv%2BToxNPYylRePM6daxB6GwKc1Zu0pbaVJ%2BY%3D&reserved=0)
151. Neuromuscular Electrical Stimulation & Recovery of COVID-19: Review [https://bit.ly/31UkPn2](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F31UkPn2&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175546835%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=PbYNQgTVX2hEa7HTLKfUsFctnoVTbknp7l9N0nNTCwU%3D&reserved=0)
152. ABCDEF for COVID-19: International Point Prevalence Study [https://bit.ly/3dKxMVZ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3dKxMVZ&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175556825%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2FP9xaXVSR6vVTEUeROZKj7CrzKl2N1gpyo44l8YD2cQ%3D&reserved=0)
153. Sit-to-Stand to Assess Physical Capacity & Exertional De-sat Post COVID-19 [https://bit.ly/2PwtkCg](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2PwtkCg&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175556825%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=RkMnH%2BlOXT7hel97W08KCrS%2FRuqhHkBismiuquy5mDc%3D&reserved=0)
154. Functional Status of COVID-19 Survivors at Discharge [https://bit.ly/3cWh6vx](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3cWh6vx&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175566822%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=mTJMIYI%2Bg%2BaBIqZ59hQJM8SziBuc67UvgivrLbPdL7k%3D&reserved=0)
155. Midterm Functional Sequelae & Implications for Rehab after COVID-19 [https://bit.ly/2RaoZoG](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2RaoZoG&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175566822%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=0v7W5kQhu7p2ss3lSIQe2zui4rim9i2ZM6qhiRiLVRc%3D&reserved=0)
156. Pulm. Function & Radiological Features in Survivors of COVID-19 [https://bit.ly/39HzAhh](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F39HzAhh&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175576813%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=G34WbRHtWBPplmLi8zHJJx5RY6nD3aCFow0xtql%2FMB8%3D&reserved=0)
157. Pulm. Function & Functional Capacity in COVID-19 Survivors [https://bit.ly/3wrPwOx](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3wrPwOx&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175576813%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=biSa2j%2ByZdhbO6cENFYxM3Mf1%2BWPNkRkrd93GoQcl3E%3D&reserved=0)
158. 2 Month Quality of Life of COVID-19 Survivors [https://bit.ly/3fIkZpC](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3fIkZpC&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175586815%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=LYZQDYJzxElcpXmFpfGr5LD3liHEy0e3tRTCaI0p5C0%3D&reserved=0)
159. 4 Month Clinical Status after Hospitalization for COVID-19 [https://bit.ly/3wC8oKs](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3wC8oKs&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175586815%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=fqUMkhiOdefpwZwD%2F1c6B0NQPhcd3HlXNomDUciHYBQ%3D&reserved=0)
160. Persistent Symptoms after COVID-19: Qualitative Study [https://bit.ly/3wx8CCJ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3wx8CCJ&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175596805%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=g4cdW8wWxbtNKHI5bcTht1xv9FfAlppYrZGgDrhykuM%3D&reserved=0)
161. Post-Intensive Care Syndrome after COVID-19 [https://bit.ly/3rYdVYm](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3rYdVYm&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175596805%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=anOu2T65C%2Bmms4%2FYyp2v6FEegi4X791%2BzNhH5QG00n4%3D&reserved=0)
162. Post-Acute COVID-19 Syndrome [https://bit.ly/3sWIOxP](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3sWIOxP&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175606802%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=gTfbCmKhYqdJ7Glvkhac1I4l%2FreRrpqyMGWklM90ADk%3D&reserved=0)
163. Rapid Design & Implementation of Post-COVID Clinics [https://bit.ly/3wtDa8x](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3wtDa8x&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175606802%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=84FYUx8Akps9lWm2%2BT%2Bro0Ibz0dN1G9IrOir5u4mQ2k%3D&reserved=0)
164. Short-Term Neuro-psych Outcomes & Quality of Life in COVID-19 [https://bit.ly/3sWv4Tx](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3sWv4Tx&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175616791%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=biXjs2h9nEvPoTujuXteZlnczGisnLK37VnXxeaxN2k%3D&reserved=0)
165. Acute Stress Disorder in ICU Survivors after COVID‑19 [https://bit.ly/2PXHNqx](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2PXHNqx&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3081bbbd331041a0cee008d8fdbbc256%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637538330175616791%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=BaATabQA9Os2gItYzSpzvjQZNB1NsS3%2BKZMt6ngipG0%3D&reserved=0)

## Literature

1. Effects of Rehab on Cardiorespiratory Fitness in Long-COVID: Meta-Analysis<https://tinyurl.com/2fnvyhce>
2. Tele vs. Face-to-Face Pulm Rehab in Post COVID-19: Meta-analysis <https://tinyurl.com/4ew54v97>
3. 4 week Tele-Rehab for Post-COVID Syndrome: RCT Protocol <https://tinyurl.com/2acp4eam>
4. Hospital Rehab using EHR in pts w/ & w/out COVID-19: Retrospective Study<https://tinyurl.com/5n8mz2sm>
5. Persistent Skeletal Muscle Dysfunction in COVID-19 Survivors: Observational <https://tinyurl.com/5eanbh8s>
6. Fat Oxidation & Cardiopulmonary Exercise in Post-COVID-19 Pts: Cohort Study<https://tinyurl.com/nk8u4uch>
7. Lithium Aspartate for Long COVID Fatigue & Cognitive Dysfunction: RCT <https://tinyurl.com/yc6tne5y>
8. Long-Term Outcomes of ICU Patients w/ COVID-19: Sys Review<https://tinyurl.com/yzsps7dc>
9. Long-Term Outcomes in 2 yrs of post COVID: Longitudinal cohort (CO-FLOW)<https://tinyurl.com/ms896j3m>
10. Triggers of Symptom Fluctuations in People w/ Long COVID: Cohort Study<https://tinyurl.com/y242zp4u>
11. Pandemic & Pt Expectations about Acute Respiratory Failure <https://tinyurl.com/mr3s9dsp>
12. Clinical Comparison of PICS & Long COVID: Review <https://tinyurl.com/3khwtx2c>
13. Changes in Memory & Cognition during SARS-CoV-2: Human Challenge Study<https://tinyurl.com/mryvvdrf>
14. Online Intervention on Exercise Capacity, Fatigue & QoL: RCT <https://tinyurl.com/2rxvp2tn>
15. Effect of Cardiopulmonary Rehab Protocol: RCT <https://tinyurl.com/49h6jknp>
16. Layperson-Delivered Behavioral Activation During COVID-19: HEAL-HOA RCT<https://tinyurl.com/2rjfvjzm>
17. Gait Analysis in Covid 19 Survivors <https://tinyurl.com/4nzf6ahj>
18. 3 & 6 Mo Outcomes Post Molnupiravir Tx for COVID-19 Pts (PANORAMIC): RCT<https://tinyurl.com/2tb993mx>
19. 1-Year Outcomes of Lower Vs Higher O2 in ICU Pts w/ COVID-19 <https://tinyurl.com/2xh8pkkw>
20. Financial Toxicity of COVID-19 Infection & Common Comorbidities: NHIS Analysis<https://tinyurl.com/mrxhwcc4>
21. 1 Yr Outcomes in COVID-19 & non-COVID-19 ICU Survivors: Cohort Study<https://tinyurl.com/3n3dwtxb>
22. COVID-19 Long Term Observational After Critical Care: Cohort Study<https://tinyurl.com/2hr8dyvz>
23. N95 Respirator Seal Integrity Post Extended-Use In ICU: Cohort Study<https://tinyurl.com/yc8z3hca>
24. Pulm Rehab for People w/ Persistent Symptoms Post COVID-19: Review<https://tinyurl.com/ywdmjsex>
25. Long COVID Science, Research & Policy: Review <https://tinyurl.com/53mxv54y>
26. Long-Covid, PICS, & Post-Sepsis Syndrome: Review <https://tinyurl.com/4s8y2tap>
27. Home Pulm Rehab & Exercise Capacity in Post COVID-19 Pts: RCT<https://tinyurl.com/mrxt2v72>
28. Extubated Rehab-Focused ECMO in Peds COVID-2019: Case Series<https://tinyurl.com/mr2wrndt>
29. ICU Rehab Dose & Hospital Outcomes COVID-19: Retrospective Study<https://tinyurl.com/mt9aa2hh>
30. Research Priorities in COVID-19 Rehab <https://tinyurl.com/2mcrjhwv>
31. Cog & Psych Symptom Trajectory 2-3 Yrs Post COVID-19 Hosp in UK<https://tinyurl.com/42fh4myw>
32. PASC in Pre-Delta, Delta & Omicron Eras <https://tinyurl.com/52vbbsuc>
33. Hearing Loss Post COVID-19 in Young Adults in South Korea <https://tinyurl.com/4whef2yb>
34. Need of ICU COVID-19 Pts’ Relatives: Cross-Sectional Study <https://tinyurl.com/3yf8d4k2>
35. Long COVID Clinical Update: Review <https://tinyurl.com/5yc9v2ka>
36. Long COVID Defined: 2024 NASEM Definition <https://tinyurl.com/mv3d793a>
37. Delirium & COVID-19: Review Article <https://tinyurl.com/4sezrrfp>
38. Cardio Rehab on Cardioresp Fitness & Clin Symp Burden in Long COVID: RCT<https://tinyurl.com/33euh59y>
39. Return-to-Work Post-COVID-19: Meta-Analysis <https://tinyurl.com/mvbyh7cu>
40. In-patient Delirium & Disability & Cog Impair Post COVID: Prospective Cohort<https://tinyurl.com/4jymr8at>
41. Healthcare Utilization 9 mo. Pre & Post- COVID-19 Hosp: Retrospective Cohort<https://tinyurl.com/39ba92pj>
42. Function after Acute Rehab in COVID-19 Pts: Retrospective study<https://tinyurl.com/3ewv5s4p>
43. Tracking Cog Trajectories in Older COVID-19 Survivors 2.5 Yrs Post-Infection: <https://tinyurl.com/6r8n2u8w>
44. Inspiratory Muscle Training in Long COVID: Observational & Interventional Trial<https://tinyurl.com/yu8bnusc>
45. Impact of Long COVID on HRQoL: Population-Based Study <https://tinyurl.com/kjy88bwh>
46. Difference in COVID-19 & Non-COVID-19 ICU Pts, 1-Yr Prospective Study<https://tinyurl.com/yc7a64bj>
47. 3-Yr Outcome of PASC in US Veteran Affairs Cohort <https://tinyurl.com/yc557v3r>
48. Mental Health in COVID-19 ICU Pts: Scoping Review of Measurement Tools<https://tinyurl.com/bde2ph9z>
49. Tocilizumab & Reduced Delirium in ICU COVID-19 Pts: Retro. Cohort study <https://tinyurl.com/m7pavx5a>
50. New Opioid, Benzo & Antipsychotics after COVID-19: 1-Center Retro. Study<https://tinyurl.com/2tc34vy4>
51. Brain Abnormalities in COVID-19 after 2-Year: Functional MRI Study<https://tinyurl.com/43ypwybt>
52. Massage, ROM & ICU Weakness in COVID-19 Pts (Iran): RCT <https://tinyurl.com/4zy8af4r>
53. Tele-rehab in Post-Acute COVID-19 Pts: RCT  <https://tinyurl.com/2p89cd8s>
54. Robot Assisted Mobility in Mech Vent Pt w/ COVID-19: RCT <https://tinyurl.com/mr3ebfcr>
55. Persistent SARS-CoV-2 & Long COVID Symptoms (China): Cohort Study<https://tinyurl.com/4ba2vbmy>
56. Mental Health Care Barriers in Post–COVID: Cross Sectional Study <https://tinyurl.com/yc6evj8v>
57. Factors Assoc w/ Long COVID Recovery (US): Survey <https://tinyurl.com/5dkc7ksh>
58. 1-yr Outcome in COVID-19 vs Influenza, Pneumonia or ARDS: Letter <https://tinyurl.com/yc3tnfbj>
59. Func Limit & Exercise Intolerance in Post-COVID Condition: RCT <https://tinyurl.com/2uuc6jcp>
60. Rehab for ICU Pts with COVID-19: Administrative Case Report <https://tinyurl.com/mw758n9m>
61. COVID-19 Influence on Pt Mobility in ICU: Retrospective Analysis <https://tinyurl.com/mr6vnbz5>
62. Dysphagia Therapy in Post-COVID: Descriptive longitudinal study <https://tinyurl.com/4p2mu84v>
63. 1-Yr Recovery of Prolonged Severe COVID-19 Survivors: Cohort Study <https://tinyurl.com/3m2z68zw>
64. Health Status & ADL, Post-COVID-19:  PRIME Study (Netherlands) <https://tinyurl.com/3yzwcy3a>
65. COVID-19 & Health Care-Financial Toxicity in US: NHIS Survey data <https://tinyurl.com/bp82dka2>
66. Phenotyping & Mechanistic Subtypes of Pts with Long COVID: Letter <https://tinyurl.com/y46kp74d>
67. Quality in Long COVID Care: National QI Collaborative <https://tinyurl.com/93nx67wh>
68. Robotic-Assisted In-Bed Mobilization in COVID-19 MV Pts: Pilot RCT <http://tinyurl.com/3rhmmdx5>
69. Physical Rehab in Awake, Intubated & Proned COVID-19-ARDS Pts: Case Study<https://tinyurl.com/jsus96pf>
70. 16 wk Home-Based Exercise on HRQOL, Func Capacity in COVID-19 Survivors: RCT<http://tinyurl.com/mr22ndnb>
71. Low vs. Moderate-Intensity Aerobic Training in Post-Discharge COVID-19: RCT<https://tinyurl.com/5n96h6va>
72. Cardiopulmonary Telerehab using Func Exercises in Post COVID-19: RCT <https://tinyurl.com/5czjdb4y>
73. Core Outcome Set for Long COVID in Children: Delphi Consensus <http://tinyurl.com/27t434r7>
74. Functional Recovery Post-Acute COVID-19 in Adults: Meta-Analysis <https://tinyurl.com/ydsauvaf>
75. Self-Reported Daily Functioning in Post COVID-19 among Veterans: Cohort Study<https://tinyurl.com/4m2nmhrp>
76. 1-yr Survival & Quality of Life after First Wave of COVID-19 in MV Pts in Italy<https://tinyurl.com/2epn6veu>
77. Deep Sedation Use during Pandemic without COVID-19: Retrospective Study<http://tinyurl.com/ya254aap>
78. Memories of ICU Stay in Severe COVID-19: Letter to Editor <https://tinyurl.com/46ks958x>
79. Online assessment for Cognition & Memory Post Covid-19: Cohort Study<https://tinyurl.com/3ym8svr6>
80. COVID-19 and PTSD in ICU Survivors: Prospective Cohort Study <https://tinyurl.com/rvbdesxh>
81. Online Physical & Mental Rehab Post-COVID-19: REGAIN RCT <http://tinyurl.com/4uds5e7p>
82. Pulm Rehab & Exercise, Dyspnea, Fatigue Post-COVID-19: Meta Analysis <http://tinyurl.com/2p97knyk>
83. Rehab Effectiveness in COVID-19: Cochrane Review <http://tinyurl.com/2mhturpz>
84. Protocol-based Rehab in COVID-19 (Japan): Retrospective Cohort <http://tinyurl.com/28upfa4f>
85. Brain MRI findings 6 mo. Post COVID-19 ICU: Prospective Cohort <http://tinyurl.com/2duxu5u4>
86. Muscle Abnormality Worsen after Long COVID (Netherlands): Case-Control Study<http://tinyurl.com/49ud958u>
87. Post-COVID-19 ICU-Acquired Weakness & Long-Term Function: Cohort Study <http://tinyurl.com/3j4antt4>
88. SPPB, Chester step test in Post-COVID-19: Remote vs. In-Person Assessment <http://tinyurl.com/nhd9ca4m>
89. Persistent Post–COVID-19 Neuromuscular Symptoms: Review <http://tinyurl.com/5e97kfty>
90. Medium & Long-Term Effects of Post-COVID-19 (UK): Cohort Study <http://tinyurl.com/ub86xtjn>
91. Long-Term Effects of COVID-19 after ICU: Prospective Longitudinal Study <http://tinyurl.com/5n85tx34>
92. Impact of Long COVID on Productivity & Informal Caregiving (UK): Survey <http://tinyurl.com/2neme7aj>
93. Survival & Long-Term Functionality after COVID-19 ECMO: Cohort Study <http://tinyurl.com/mwh5kmt6>
94. Sedative & Analgesic Use in COVID-19 Pandemic & Outcomes: Cohort Study <http://tinyurl.com/2aw9v2tb>
95. Sedation Practices on Mortality in COVID-19-Assoc ARDS Pts: Descriptive Study<http://tinyurl.com/wwczxewy>
96. Brain Health After COVID-19, Pneumonia, MI, or ICU: Cohort Study <https://bit.ly/3vK518z>
97. Post COVID-19 Neuro-psychiatric & Nervous System Injury: Cohort Study <http://tinyurl.com/52ak3dt5>
98. Early Mobilisation in COVID-19 ICU: Observational Study <http://tinyurl.com/4wavt2pm>
99. Bed Occupancy on 6 mo. Post-ICU Outcomes in COVID-19: Cohort Study <http://tinyurl.com/3hpeapnp>
100. 3-yr Outcomes of Omicron Wave in China: Cohort Study <http://tinyurl.com/2nj3d56z>
101. Long-term Outcomes in COVID-19 & Future Research <http://tinyurl.com/4bwxv5ta>
102. Outcomes & Management After COVID-19 Crit Illness: Review <http://tinyurl.com/vf396z3a>
103. Core Outcome Measurement Instruments for Post-COVID-19: Delphi Study <https://tinyurl.com/s8u9yrxw>
104. Pulmonary Physiotherapy in Severe COVID-19 Pneumonia (PPTCOVID): RCT <https://tinyurl.com/y4u6vw8j>
105. Home-based Pulm Rehab on Anxiety & Depression in COVID-19: RCT <https://tinyurl.com/bd2hr8na>
106. Music Intervention on Adaptation & Anxiety in Prone Positioned COVID-19 Pts: RCT<https://tinyurl.com/4xds6v3a>
107. Functional Dependence on Clinical Outcomes in COVID-19: Observational Study <https://tinyurl.com/2xfpwhjx>
108. Neuropathies Between 2020 & 2021 COVID-19 Surges in Large UK ICU: QI Project <https://bit.ly/3MZRu2j>
109. Incidence of Delirium in COVID-19 ICU Patients: Letter <https://tinyurl.com/4xe7wv9a>
110. Mental Health, Quality of life, & Coping with Long COVID: Qualitative Study <https://tinyurl.com/5d4pw7z7>
111. Function, Fatigue, & HRQoL 1 yr after COVID-19: Meta-Analysis <https://tinyurl.com/pvtw9de2>
112. Long-term Health Impacts of COVID-19 Among Adults in England <https://tinyurl.com/3xd2dt5c>
113. Severity & 2-yr Post COVID-19 Physical Symptoms: Observational Study <https://tinyurl.com/25p3pys5>
114. Thinking & Emotional Difficulties of Long COVID: Guide for Pts & Families <https://tinyurl.com/ysxw2f5c>
115. Anxiety & Depression in Family Members of COVID-19 ICU Pts: Exploratory Study <https://tinyurl.com/6n2bv3r7>
116. Rehab for Physical Capacity & Quality of Life for Post–COVID-19: Meta-analysis<https://tinyurl.com/js6kfuka>
117. Rehab for COVID-19 & Post COVID-19 Condition: Meta-analysis <https://tinyurl.com/2zzthczv>
118. Perme Score to Assess Mobility in COVID-19 Pts: Cohort Study <https://tinyurl.com/2rjs5by4>
119. Mobilization Practices during the SARS-CoV-2: Retrospective Analysis <https://tinyurl.com/2s33cwt4>
120. Pragmatic Approach to Mobilize COVID-19 ICU Pts <https://tinyurl.com/5c4xhe4p>
121. Functional Recovery Post COVID-19 ARDS: Multicenter, Observational Study <https://tinyurl.com/mw49r5p2>
122. Multiorgan MRI findings Post COVID-19 in the UK: Multicenter, Cohort Study <https://tinyurl.com/2s3t9pyw>
123. Post Hosp Recovery of Families of COVID-19 ICU Pts: International Investigation <https://tinyurl.com/ypnef4p2>
124. Exercise Tele-Rehab Protocol in Post-COVID-19: RCT <https://tinyurl.com/5n95bt6j>
125. Post-Acute Sequelae of COVID-19 at 2 yrs: Cohort Study <https://tinyurl.com/4m3fhrp3>
126. Post-Acute Sequelae of COVID-19: More than Deconditioning <https://tinyurl.com/4rfprmdj>
127. Onset & Prognosis of Post-COVID-19: Cohort study <https://tinyurl.com/56hvynfm>
128. Evaluating Post–COVID-19 Cognitive Dysfunction: Research Recommendations <https://tinyurl.com/2pvfb9d7>
129. Blood Biomarkers Predict Cognitive Deficits After COVID-19 <https://tinyurl.com/4yz3m846>
130. Prevalence & Recovery of Dysphonia in COVID-19 <https://tinyurl.com/yvfrzapu>
131. Memories of Pts in ICU during COVID-19: Qualitative Study <https://tinyurl.com/59mamvtr>
132. PTSD in Family of COVID-19-related ARDS Pts: Cohort Study <https://tinyurl.com/3w6t56ut>
133. Impact of Early ICU Rehab in COVID-19 <https://tinyurl.com/hm6v9hzw>
134. Resp Muscle Exercise & Self-Management in COVID-19 Recovery: RECOVE RCT <https://tinyurl.com/45396pbv>
135. Home Inspiratory Muscle Training & Func Capacity in Long COVID: InsCOVID RCT <https://tinyurl.com/k26upfkb>
136. Pectoral Muscle Area & Mortality in COVID-19 <https://tinyurl.com/nhbd558b>
137. Incidence of ICU Delirium in Pts With & Without COVID-19 <https://tinyurl.com/288evctx>
138. New Antipsychotic, Benzo Use & Delirium Before & After COVID-19 <https://tinyurl.com/454fy4er>
139. Swallow, Communication, Voice & Cogn post COVID-19: PHOSP-COVID Analysis <https://tinyurl.com/39z7vhma>
140. Health-Related QoL of COVID-19 Survivors: Prospective Study <https://tinyurl.com/bdfj9w2d>
141. Mobilisation during COVID-19: Retrospective Analysis  <https://bit.ly/42yaLNj>
142. Virtual Rehab for COVID-19 Survivors: Service Evaluation <https://bit.ly/3X3A3Ss>
143. Laryngotrach Complications Post Intubation for COVID-19 <https://bit.ly/3J3X95k>
144. Definition of Postacute Sequelae of COVID-19 <https://bit.ly/45QpAxF>
145. Disentangling Postacute Sequelae of COVID-19 <https://bit.ly/3P2xXA5>
146. Pt reported Outcome Measures & Long COVID Phenotypes: Cohort Study <https://bit.ly/3oWv8WL>
147. Multidisciplinary Center Care for Long COVID Syndrome: Cohort Study <https://bit.ly/3CgAr6m>
148. Recovery from Covid-19 Crit illness: ISARIC4C Cohort study vs RECOVER trial <https://bit.ly/43u1bMN>
149. Patients’ Perspectives 1 Year Post COVID-19 Hospitalization: Qualitative Study <https://bit.ly/3qvj4w2>
150. Fatigue Post COVID-19: Meta-analysis <https://bit.ly/3Nk30F2>
151. Cognitive Behavioral Therapy for Severe Fatigue Post COVID-19: RCT <https://bit.ly/3NtYohb>
152. Fatigue as Primary Determinant of Functional Limitations: Cross-Sectional Study <https://bit.ly/3Nk0X55>
153. Resp Sequelae of COVID-19: Pulm & Extrapulm & Approaches to Rehab <https://bit.ly/3p1Q3HP>
154. Post-COVID-19 Dyspnea Determinants of Recovery: COVID vs. Controls <https://bit.ly/42x3Ow7>
155. Breathing Difficulties Post Covid-19: Guide for Primary Care <https://bit.ly/42P6rcA>
156. Post COVID-19 Neuro & Psych Sequelae 2 years after ICU <https://bit.ly/45Rkcu5>
157. Cognition in COVID-19 Survivors 1 year Post ICU <https://bit.ly/3P149nq>
158. COVID-19 & Brain Structure Changes: UK Biobank <https://bit.ly/3XjAqIM>
159. COVID-19 & Mental Disorders Among Adults in Denmark <https://bit.ly/43u1o2x>
160. 2 yr Physical, Mental & Cog Outcomes COVID‑19 ICU Survivors <https://bit.ly/3PmiQSo>
161. Prevalence of PICS in MV Pts with COVID-19 <https://bit.ly/3XiLMwj>
162. Long COVID in USA: Electronic Health Records & Machine Learning N3C data <https://bit.ly/447CRQT>
163. 2 yr Post COVID-19 Recovery & Symptoms: Cohort Study <https://bit.ly/3J7Qs2j>
164. Persistent COVID-19 Symptoms in Community-living Adults (CLSA) <https://bit.ly/42DrQFO>
165. STIMULATE-ICP & Long COVID: RCT Protocol <http://bit.ly/3IkHEVE>
166. Acute Hospital Rehab Intensive Service (ARISE) in COVID-19: Hospital Outcomes <https://bit.ly/3JO6dMC>
167. Rehab & Physical Function in COVID-19 In-patients: Retrospective Analysis <http://bit.ly/3ZiKtNE>
168. Early Rehab & PT in Critically Ill COVID-19 Pneumonia: Retrospective Study <https://bit.ly/3LcF2MA>
169. Safety & Feasibility of Interdisciplinary Treatment for ICU COVID-19 Survivors <http://bit.ly/3Lj7i09>
170. 180-Day Outcomes in Critically Ill Pts with COVID-19-REMAP-CAP RCT <http://bit.ly/3SIDXhr>
171. Muscle mass, Strength & Mobility of Mech Ventilated COVID Pts <http://bit.ly/3EQhclO>
172. Physical Frailty & Risk Factors 1-year post COVID-19 Hospitalization <http://bit.ly/3TLl4L5>
173. Pulmonary Function & Functional Capacity at 3, 6 & 12 mo post COVID-19 <http://bit.ly/3xJ8Fxf>
174. Multi-organ Impairment & Long COVID: 1-year Prospective, Longitudinal Cohort <https://bit.ly/3SnPO42>
175. Deep Sedation & Memories in COVID-19 ICU Survivors <https://bit.ly/3Zb1UzG>
176. Orthostatic Tachycardia Post Covid-19: Practice Pointer <http://bit.ly/41D2OHz>
177. Post–COVID-19 Symptoms & Employment Status <http://bit.ly/3SpbZqI>
178. Rehab Interventions for Post-Acute COVID Syndrome: Sys Review [http://bit.ly/418Arkj](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F418Arkj&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590636442%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ukuX%2F7NVdLpWfYiL45YaAvRUoROMBWN6zf%2FUSDwfe8A%3D&reserved=0)
179. HRQoL during Rehab in ICU Neuropathy/Myopathy after COVID: Prospective Cohort  [http://bit.ly/3X49URV](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3X49URV&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590636442%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ucE1mTQXluqVxVHk71r5oRa68iDalHk6WwHtCaSwC9s%3D&reserved=0)
180. Interdisciplinary Treatment for COVID ICU Survivors & Psych Outcomes [http://bit.ly/3lOlYd5](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3lOlYd5&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590636442%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=r02twokVJahMn3OZNmbnyGlxRSkj7oXs%2Bkisl7Jj%2Bs4%3D&reserved=0)
181. Effect of Video Visitation on ICU Pts & Family during COVID: RCT [http://bit.ly/3xydcm2](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3xydcm2&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590636442%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=kGs8yBzPgSX%2FGFtaPeKUpEhBLrxdNpD7FncKVvwPk5U%3D&reserved=0)
182. Clinician Perceptions of ICU Family Visiting Restrictions during COVID: [http://bit.ly/3WZd4q4](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3WZd4q4&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=CsjOnMGuZZKKxndzH69WsVt9XW2wfqq9%2FnC8djX88VU%3D&reserved=0)
183. Symptom, Disability & Financial Trajectories at 1, 3 & 6 Mo. after COVID [http://bit.ly/3YOO0Di](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3YOO0Di&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=1rKqwy18DoQ4XmaVccu6aI%2FXWtnMvlERkn2vBvp631w%3D&reserved=0)
184. Fatigue & Symptoms at 3mo post COVID: Multi-center Prospective Cohort [https://bit.ly/3Hmm9U3](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Hmm9U3&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ef9skqDI3AxY71wFegEQkbyU3lCR%2BX9JuNhjHi4ZnL8%3D&reserved=0)
185. COVID vs Non-COVID PICS at ICU Follow-Up Clinic [http://bit.ly/3Hp20N5](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3Hp20N5&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=gfEfRg10TXc5ljVjSeQHlYMkDUFhguKcxmPs%2FU4IdBc%3D&reserved=0)
186. Two-Year Follow-Up of Symptoms & Return to Work Post-COVID [http://bit.ly/3l0XL2s](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3l0XL2s&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=8YJCDwaQu%2BxVc2On4cddRCFoUong4eK9u81KxFYH8WQ%3D&reserved=0)
187. COVID-19 Influence on Functional Status after ARDS [http://bit.ly/3YRW2v6](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3YRW2v6&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=NLtHzfp4JgTG1rjxyvOPoK8%2FEuYGYxvshP64vxMKdUI%3D&reserved=0)
188. Long Covid—Update for Primary Care [http://bit.ly/3jhXjMQ](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3jhXjMQ&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=uYf2lUHQO0n9sgsR%2F2GJYqoGcRCkKmNgBQqALH%2B2BoA%3D&reserved=0)
189. Biomarkers of Inflammatory, Hypercoagulation & Delirium in COVID [http://bit.ly/3Dt0W9O](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3Dt0W9O&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=GVM5LFRaCQCMTH5R1JwhfSCBG%2FLKT7Dqozq3G3nNMuE%3D&reserved=0)
190. Mental Health Correlation with Inflammatory Biomarkers in COVID-ARDS [https://bit.ly/3HEGJAi](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3HEGJAi&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=j690jx2GvsQ%2Fa8%2FpovNpdAWDAo1NKXbEhcAPTCLeTYo%3D&reserved=0)
191. Association between COVID & Mental Disorders in Spouses of ICU Pts [https://bit.ly/3WPGnLE](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3WPGnLE&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ckfR7O1aSoiEHWNia%2BNZcSXVPXiAsvzXXuZWS%2BRElaM%3D&reserved=0)
192. Functioning of Family Experiencing ICU Care & COVID Impact: Qualitative Study [https://bit.ly/3YcywsE](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3YcywsE&data=05%7C01%7Cmgreer6%40jhmi.edu%7C1255e4ac707646b1e5bd08db15a78569%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638127581590792676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=H5r4SeES68lLKh%2B08sFDHm7xge9zxCqrYy4ozHGc20w%3D&reserved=0)
193. Multidisciplinary Rehab in COVID-19: RCT [http://bit.ly/3ZxVImm](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3ZxVImm&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455212262%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=IQ5wsFgRVCBWrR7LfIZ6QkeGNOz%2FmOcyhrA2aBiGmhk%3D&reserved=0)
194. Sys Review of Trials Investigating Therapeutic Modalities for Post-Acute COVID-19 [http://bit.ly/3iTlIIt](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3iTlIIt&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455212262%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=0HdYzknbDka0tKatGNwyQLe3DMZeFR55d2n5xY94EzY%3D&reserved=0)
195. Timing Out-of-bed Mobilization & Mobility levels in COVID-19 [https://bit.ly/3X54tCs](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3X54tCs&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455212262%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Tze8TeJ5A2QUtOGaYSMEfXtjR%2BQNRdODPPQ5ljMnU0g%3D&reserved=0)
196. Impact of Post-COVID-19 Clinic on Hospital Admissions & ED Visits [https://bit.ly/3D2MGo0](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3D2MGo0&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455212262%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=hx%2FXsNh2%2BYzyOS%2FF6gTgf%2FD35ldKRU2b6ucn2%2FlsKC8%3D&reserved=0)
197. Function of Severe COVID-19 Patients attending Pulmonary Rehab [https://bit.ly/3jTiXHn](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jTiXHn&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455212262%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=C2gXQFoZzBZlhpNuLBr0CjJTGQ79c%2B4srs5Nup9Mjz0%3D&reserved=0)
198. Fatigue, Post-Exertional Malaise & Orthostatic Intolerance in Post COVID-19 Rehab  [https://bit.ly/3QeF2wd](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3QeF2wd&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=zKYhANb%2Fk9jCtovw368%2BzLm46hav5zzTcdmvmdexpEU%3D&reserved=0)
199. Diaphragm Muscle Weakness After COVID-19 Hospitalization [https://bit.ly/3GTRSN5](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3GTRSN5&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=IZriYzbKQOTR5VMrYxS%2B%2FKAU382ywN1NF09bzgfl3L0%3D&reserved=0)
200. 3 Months After Inpatient Rehab in COVID-19 Survivors [https://bit.ly/3uY6Xqa](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3uY6Xqa&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=hYhyKV8MosJ2QsMgj%2Fbl4grDts4DnNPq%2FFFtxuIG1HY%3D&reserved=0)
201. 6 Mo follow-up Post-COVID-19 in Hospitalized & Non-hospitalized in South Africa [https://bit.ly/3ZOcYUK](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ZOcYUK&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=fkervdMlVVabEUz9zSJ%2FICNLDLbIMpesv5TuIfocMdo%3D&reserved=0)
202. Acute Disease Severity & 1-year QoL Post COVID-19: Prospective Cohort Study [https://bit.ly/3izZICi](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3izZICi&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=E%2F3A264W3ndMlQSMxmMKMg9mojVrUlTU8SWdcPTkuZM%3D&reserved=0)
203. Neuropsychiatric Conditions & Risk of Severe COVID-19 & Other Resp Infections [http://bit.ly/3H3tpVV](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3H3tpVV&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=buD%2BNDTLRP%2BLU%2BGggqKnhX3%2B3SwT8PO%2BRpJqOgfAsGk%3D&reserved=0)
204. Subjective & Objective Cognitive function after COVID-19: 6 Mo follow-up [http://bit.ly/3HhAy4S](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3HhAy4S&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=TQUrADwern0DJ74DIK5awB0%2F4Il7T9lVBxfyEh8e7c4%3D&reserved=0)
205. Cognitive Impairment, Anxiety & Depression: Post COVID-19 Rehab [http://bit.ly/3WbCm3H](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3WbCm3H&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=FWi81r6qw0eioQUOM%2BwymXjmug0EAtaO00Z%2Bgz%2BZKEg%3D&reserved=0)
206. PTSD in Family Members of COVID-19 Pts [https://bit.ly/3PxDYD4](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3PxDYD4&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=uoGr1DwcKe4XypgfAiV7Eago0KeaMindZ8pSYgJ6DiY%3D&reserved=0)
207. Anxiety, Depression & Stress among Families of COVID-19 Pts: Longitudinal Study [http://bit.ly/3ixiWZt](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3ixiWZt&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=mG7KEJWTV3Dvd1NaVqNkYrR9nBH%2BqWQ09X3C7oyJ1rg%3D&reserved=0)
208. Long COVID Review: Major findings, Mechanisms & Recommendations [https://go.nature.com/3IVA5Xw](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fgo.nature.com%2F3IVA5Xw&data=05%7C01%7Cmgreer6%40jhmi.edu%7C15993b345b314fe71e5808db045416f0%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638108531455368502%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=nN9YKzy0ECHRG2xoNaiPBtUuHmK2cH7JTbl1QsgPl3w%3D&reserved=0)
209. Comparing Rehab Outcomes in Mech Ventilated COVID-19 Pts [https://bit.ly/3FqtoJB](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3FqtoJB&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=a4vTJm2MGDrjyl%2BpQFIzQChuUrMhQfkuo%2FRFJlwWWfs%3D&reserved=0)
210. Initial SaRS-CoV-2 Positivity & Pt-Reported Well-being 3 Months after Illness [https://bit.ly/3Y5tizr](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Y5tizr&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=3z4C5dEflTkKg8jRuj4FJGmjdx7ugGr8%2BdDwY%2FkfRPc%3D&reserved=0)
211. In-Hospital & 6-Month Outcomes in COVID-19 Pts on ECMO [http://bit.ly/3OJPlHQ](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3OJPlHQ&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=w%2BNJdQmODxODBUOY%2FkVK3xWwyop7ypDelOuz9wF8m2g%3D&reserved=0)
212. Long-lasting Symptoms after Acute COVID-19 & their Resolution [https://bit.ly/3Hj80Zl](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Hj80Zl&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=q6iGhgrhWJjzdlY1KlLVhemEll48icWMOfdnU%2BwEqQM%3D&reserved=0)
213. Post-COVID-19 Symptoms 2yrs After SARS-CoV-2 in Hospitalized vs Non-Hospitalized Pts[https://bit.ly/3VSDaL8](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3VSDaL8&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Dai2BVtkZiHzN7PbG5XOQjOkqnRvNQYmXvzmLBEv%2FlA%3D&reserved=0)
214. Long COVID Among Hospitalized & Non-Hospitalized: Meta-analysis [https://bit.ly/3uIKiOz](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3uIKiOz&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=I96%2Fev69WjlIAeFyUQuEHMWtsiJZgs8ab9SA8Rl%2BoTI%3D&reserved=0)
215. Course of Health in Non-Hospitalized Children with COVID-19 [https://bit.ly/3Bqpwqz](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Bqpwqz&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=kysGExIl7yo%2BGsV3lhRdgitgXUIdJmC%2Bxo2o0qkkv5w%3D&reserved=0)
216. Post-COVID-19 Morbidity in Children, Adolescents & Adults: Matched Cohort Study[http://bit.ly/3AT1wfu](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3AT1wfu&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=x0%2FOuZD9Pj4KdyMit6aHcBqQNfKglW4j1A%2B%2Ft9I33fk%3D&reserved=0)
217. Residual Lung Abnormalities Post COVID-19 Hospitalization: UKILD Study [https://bit.ly/3iGEwtX](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3iGEwtX&data=05%7C01%7Cmgreer6%40jhmi.edu%7C09b5d9a462854fefef0e08daee562872%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638084351099547045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2Fr7DE4VyegFzVChxbY1TPPM5kryU2z7yvxGX%2F3wGD8M%3D&reserved=0)
218. Psychological Recovery after COVID-19 ICU Admission: Randomized Pilot Feasibility Study <http://bit.ly/3ua9Q6V>
219. Early Inpatient Rehab in COVID 19: Single Center Retrospective Analysis [https://bit.ly/3WnjcsL](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3WnjcsL&data=05%7C01%7Cmgreer6%40jhmi.edu%7C695a2ce4e59842a362d208dad396a122%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638054941155393045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=gc8Bt8ObOwcqm88vFJ%2BjfGsNwUlHKqrJQLD3Po2LVS4%3D&reserved=0)
220. Early Rehab & PT in COVID−19: Retrospective Observational Study [https://bit.ly/3O2AlnZ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3O2AlnZ&data=05%7C01%7Cmgreer6%40jhmi.edu%7C695a2ce4e59842a362d208dad396a122%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638054941155393045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=cQ6MrO%2FvzYhV4V6EV1Hn%2B%2FF7ptHqVlcd8%2BVmyrB9SC0%3D&reserved=0)
221. Rehab of Neuropsychiatric Symptoms in Long-COVID: Position Statement [https://bit.ly/3Tmc2Db](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Tmc2Db&data=05%7C01%7Cmgreer6%40jhmi.edu%7C695a2ce4e59842a362d208dad396a122%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638054941155393045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2Bmqp%2Fyx1OGaHULzYRdt0bRegkq%2BzVfps0wBvPvgsJro%3D&reserved=0)
222. Delirium in COVID-19 Acute Respiratory Distress Syndrome vs. Other Etiologies [http://bit.ly/3ttHNPE](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3ttHNPE&data=05%7C01%7Cmgreer6%40jhmi.edu%7C695a2ce4e59842a362d208dad396a122%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638054941155393045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=wdsXRyX4dvVMixi6q65SDOWAfuT70XQfsR6wAkZjhV4%3D&reserved=0)
223. Clinical Diagnosis & Management of Long COVID [https://bit.ly/3UqcIIn](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3UqcIIn&data=05%7C01%7Cmgreer6%40jhmi.edu%7C695a2ce4e59842a362d208dad396a122%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638054941155393045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=JE3HtE3xkpwRCwN4lJdy%2BhpVhScDRAz%2BAkivAcnmRsg%3D&reserved=0)
224. Return to Work Among Severe COVID-19 Survivors in Slovenia: Focus Group [http://bit.ly/3E1RMAw](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3E1RMAw&data=05%7C01%7Cmgreer6%40jhmi.edu%7C695a2ce4e59842a362d208dad396a122%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638054941155393045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ggNIQKlh3Wtvlv4UQlHiCa4PWSp0ZiHCHfQe1KS17XA%3D&reserved=0)
225. Reliability & Validity of COVID-19 Pt-Reported Symptoms in Outpatients [https://bit.ly/3zyUcW2](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3zyUcW2&data=05%7C01%7Cmgreer6%40jhmi.edu%7C695a2ce4e59842a362d208dad396a122%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638054941155393045%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=9zKOz%2Fojoz6Gp6Tv3gILhY32OWv8dcONtoRPr3C%2FtG0%3D&reserved=0)
226. COVID-19 Post Acute Care Major Organ Damage: Sys Review [https://bit.ly/3f75ycj](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3f75ycj&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ekppbPi%2B3XXN4bFgB5FxrbK33Qebq1pMxbYKCZAT0O8%3D&reserved=0)
227. Exercise Program in Improving Frailty Post-COVID-19: Retrospective Study [https://bit.ly/3LwjzMB](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3LwjzMB&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=VJBmqAGj3VcmpjNKtSlaDcD1nkZFDbp6Gd%2BBNULR5%2BI%3D&reserved=0)
228. Comprehensive Rehab in Severe COVID-19: Cohort Study [https://bit.ly/3xCrjXG](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3xCrjXG&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ypTkk7qexnuuxbsAErr3Wn5gvUaA6hcY7ctdOHU%2BUoE%3D&reserved=0)
229. Validity & Responsiveness of COVID-19 Yorkshire Rehab Scale in Italy [https://bit.ly/3QXDiWW](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3QXDiWW&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=AJRH60TPTTaZHRRsdUKX6cFF9wdhs5J6ZpVFlJHpNq8%3D&reserved=0)
230. Strength, Performance & MSK Symptoms in COVID-19 In-patients: Prospective Study[https://bit.ly/3DG8G9o](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3DG8G9o&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Edny%2FXz0iTWRRaTCrNILlnuf6yUNZlLq0X%2Fm4bEZ%2BvI%3D&reserved=0)
231. Cardiorespiratory Fitness & Neuromuscular Function of Ventilated COVID-19 Pts [https://bit.ly/3drnkGG](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3drnkGG&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=nDTJWBXML0fTTszQydy31XqiQ8ys%2F6ARnrNdB829%2BEM%3D&reserved=0)
232. Long COVID & Impact on Quality of Life According to Initial COVID-19 Severity [https://bit.ly/3QlUiqa](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3QlUiqa&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=3qTRwdaQHbQj1y%2BXw7Op88B3bq%2B555jglzNQoLiz9QE%3D&reserved=0)
233. Two-Year Health Outcomes in Hospitalized COVID-19 Survivors in China [https://bit.ly/3Urcscn](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Urcscn&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=SFd9X%2FI7rjBVTgFJQgOcspZrEqS1ZipkuEtBhN8m0Dg%3D&reserved=0)
234. COVID-19 Sequelae in Unvaccinated Young Adults: Longitudinal Cohort study (LoCoMo)[https://bit.ly/3DEQrAU](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3DEQrAU&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=1QAF2Qtan3vV395eXBanXRJ%2FTuh8YWZQZosZW2JXKZE%3D&reserved=0)
235. Differences in HADS & SF-36 Scores 1 year after ICU in COVID-19 Pts [https://bit.ly/3BVMruH](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3BVMruH&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=fd7iEM4yKEt03ndGs095bSb7fxipMMbdKTe5KibZbJE%3D&reserved=0)
236. Neuro & Psychiatric Risk Post COVID19: 2-year Retrospective Cohort Studies [https://bit.ly/3dASoDz](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3dASoDz&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=67zAumZKmrsb%2BgnuYSR7Ll8lsFTiuRDwX9GXw3edPj8%3D&reserved=0)
237. Cognition after SARS-CoV-2 in a Population-representative Canadian Sample [https://bit.ly/3xN0OPz](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3xN0OPz&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=RMdONeaAM89CAw0xwQdUL71cPu%2F48N48HOB26yVxx3k%3D&reserved=0)
238. Plasma Markers Self-Reported Neuro Sequelae after SARS-CoV-2 [https://bit.ly/3UnJNFk](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3UnJNFk&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=gSpQQGuVViHoDpKjl9OXWpfkVqanAxn0431dXfhtAGk%3D&reserved=0)
239. Brain MRI in COVID-19 & Non-COVID-19 ARDS: Matched Case-Control Study [https://bit.ly/3xDtbj7](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3xDtbj7&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338402856820%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Y6%2BCS6iQOqMnmLTHGxzDfZnMDAdpoMfSImeU20Nbc1g%3D&reserved=0)
240. Psychological Stress Prior to Infection & Risk of Post-COVID-19 Condition [https://bit.ly/3Ut0v6j](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Ut0v6j&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338403013476%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=8pwkmHvEtdw0idV9%2FHCtJX1zdRjBvmnWcYU7JOB4TPQ%3D&reserved=0)
241. ICU Liaison Nurse Services & Anxiety in Family Caregivers during COVID-19: RCT [https://bit.ly/3f4zkhM](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3f4zkhM&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338403013476%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=84dEUyVkxWXJCqlW8ErIb7nJm0Mjw6dkxa3VGwVOtYw%3D&reserved=0)
242. ICU Visiting Policy during COVID-19 & Delirium & Anxiety Outcomes [https://bit.ly/3ptK4sb](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ptK4sb&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338403013476%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=hB%2BUeDya%2Bwhs1veel0XNtptN1ONklNIOaG1TWDPX5cY%3D&reserved=0)
243. Restricted Visitation During COVID-19: Qualitative Study [https://bit.ly/3Cnnxoh](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Cnnxoh&data=05%7C01%7Cmgreer6%40jhmi.edu%7Cf0b5067150c34c4643c308daa2d6442a%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C638001338403013476%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=3MjpCYTuFqw9WEoW1fafrUdtkLrrEmLV5diFshsEHgY%3D&reserved=0)
244. Mobility in Mech Ventilated COVID-19 Patients: Retrospective Study <https://bit.ly/3pfs9p2>
245. Acute OT & PT in COVID-19: Retrospective Study <https://bit.ly/3oKIod9>
246. Rehab & Quality of Life in COVID-19: Meta-Analysis <https://bit.ly/3JcQNzG>
247. Tele-Health Primary Care Rehab & Post-COVID Exertion: Experimental Study <https://bit.ly/3pbHRBs>
248. Face-to-Face & Tele-Assessment of Physical Function in Non-Hospitalized COVID-19 Pts <https://bit.ly/3PVTN60>
249. Factors Influencing Prone Positioning in COVID-19: Qualitative Study <https://bit.ly/3bTyIdJ>
250. Individualized Recovery Checklist in Intubated COVID-19 Patient <https://bit.ly/3p9VpgF>
251. Long-Term Cognitive Impairment in COVID-19 ICU Patients <https://bit.ly/3zxV7GE>
252. Morphological, Cellular & Molecular Basis of Brain Infection in COVID-19 Pts <https://bit.ly/3SQ7dT8>
253. Clinical & Mortality Outcomes in ICU Pts with Influenza & COVID-19: Retrospective Study <https://bit.ly/3QCzMkJ>
254. Symptoms & Risk Factors for Long COVID in Non-Hospitalized Adults <https://bit.ly/3cCXRt8>
255. Persistence of Somatic Symptoms after COVID-19 in Netherlands <https://bit.ly/3PkuCZF>
256. Distress in Family Experiencing ICU Virtual Visiting during COVID-19: Cohort Study <https://bit.ly/3oT1opT>
257. COVID-19 & Post Intensive Care Syndrome in Family <https://bit.ly/3zNc8MS>
258. Early Rehab Combined with Protocolized Weaning in Severe COVID-19 Pneumonia <https://bit.ly/3yzRqOC>
259. OT in Pts Requiring ECMO with COVID-19: Case Series <https://bit.ly/3P8CrBX>
260. Novel Rehab Pathway for Long COVID in Provincial Health System in Canada <https://bit.ly/3IBi7HH>
261. Post COVID-19 in Adults & Children 6 & 12mo after Discharge in Moscow <https://bit.ly/3Rbom8K>
262. Fatigue at 1 yr follow-up after COVID-19 <https://bit.ly/3RLDzOm>
263. Long COVID Symptom & Impact Tools: Pt-Reported Experience <https://bit.ly/3OAcxY0>
264. Neuro Manifestations of COVID-19 in ICU Pts: Prospective Multicenter registry https://bit.ly/3zfQTDcTranscranial Stimulation & Respiratory Rehab for COVID-19: RCT <https://bit.ly/3a4QkSE>
265. ICU Mobilization during COVID-19: Analysis of International Point Prevalence Study <https://bit.ly/3LorIRz>
266. Adverse Events during Early Mobility in COVID-19 Acute Resp Failure <https://bit.ly/3LMK53L>
267. Rehab & COVID-19: Update of Rapid Living Sys Review as of Aug 31, 2021 <https://bit.ly/3MFvjMU>
268. Surgical Mask & Cardiorespiratory Responses to Exercise in COVID-19: RCT <https://bit.ly/3LdnR9X>
269. 2 Year Longitudinal Follow-Up of COVID-19 Hospitalization from Wuhan, China <https://bit.ly/3G4EGDn>
270. 1-Year Recovery & Inflammation in Long COVID: Prospective Study <https://bit.ly/3Ow6xjo>
271. Neurologic Manifestations of Severe COVID-19 during 1st Year of Pandemic <https://bit.ly/3F14JdN>
272. Neuropsychiatric Ramifications of COVID-19 & Acute Respiratory Infections <https://bit.ly/3yFLB43>
273. Risk of Death or Unplanned Readmission after COVID-19 in Canada <https://bit.ly/3Ncc1yc>
274. Prevalence of PICS in Ventilated Pts with COVID-19 <https://go.nature.com/3PlZhqN>
275. Symptom Burden Questionnaire for Long Covid (SBQ-LC): Rasch Analysis <https://bit.ly/3kFe1mz>
276. Post COVID-19 Functional Status Scale: Analysis of Measurement Properties <https://bit.ly/39qiUO6>
277. Long COVID Terminology: Aiming for Consensus <https://bit.ly/3wfG55t>
278. Long COVID in Children: Modified Delphi Process <https://bit.ly/3OzkUn4>
279. COVID-19 Pandemic: Making Case for Narrative Competence <https://bit.ly/38u24O4>
280. Stress-Related Disorders of Family of COVID-19 ICU Pts: Cohort Study <https://bit.ly/3rRkIpD>
281. Experiences of Family Visiting Covid-19 ICU Pts: Phenomenological Study <https://bit.ly/3sFAB2J>
282. Awake Prone Positioning in COVID-19: Controlled Trial  [https://bit.ly/37XuK1j](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F37XuK1j&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=mPHH0TjgOpuq9wykfDBe%2FbNODJN%2BtkZHVdZ4jBzrsxs%3D&reserved=0)
283. Rehab Characteristics of COVID-19 Survivors Managed with ECMO [https://bit.ly/3K0Urex](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3K0Urex&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=zY1%2FO0JM6Dp2hHKFM6UxJZ1VWS45Y5w9LJTzMNUhtvY%3D&reserved=0)
284. 6-Week Hospital-Based Pulmonary Rehab in COVID-19 in India  [https://bit.ly/3EbvtI7](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3EbvtI7&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2FvUWI4nS712Z73bx%2BWwUzXSzACPl592onHnlo8GI4p8%3D&reserved=0)
285. Rehab Management of Post‑Acute COVID‑19: Clinical Picture & Outcomes [https://bit.ly/3JXkwfE](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3JXkwfE&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=8JWDpb29Cgdh6cVYZEK6ngoWaWtpwJF%2F2iUIAOggmG8%3D&reserved=0)
286. Peer Support to Improve Recovery after COVID-19 Critical Care [https://bit.ly/3khzCS1](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3khzCS1&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=gIJH%2Fq6oHAhVWeGEBlyGacv9py4WbJqJDiRhzOCpNF0%3D&reserved=0)
287. Global Prevalence of Post COVID-19 or Long COVID: Meta-Analysis & Sys Review [https://bit.ly/3EHuvnw](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3EHuvnw&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=fwgjwy0in00UNsGS3zAOk1BBVefoeb9LkZVsW3Pug%2BM%3D&reserved=0)
288. 6 mo. Outcomes After Severe COVID-19 in ICU [https://bit.ly/3L3wBAs](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3L3wBAs&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=GHekYtakW8Zg5qjUsBH3nqyDHY96E5kJsWnTzTklwlc%3D&reserved=0)
289. 1 Year Follow-Up of COVID-19 Patients Requiring Mech Vent  [https://bit.ly/3jYIsDI](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jYIsDI&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ItzuO51YH4yMPVKxpSaWk%2FUJah0VztckDPiAe%2FHomcg%3D&reserved=0)
290. 6 mo. Respiratory, Physical & Psychological Outcomes Post COVID-19  [https://bit.ly/37oYKTi](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F37oYKTi&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=e7BGGghd7DKZconr8WwJW1sZ5rLQsq%2FNyfyWPn78xTE%3D&reserved=0)
291. 6 mo. Cognition, Mental Health & Physical Function Post COVID-19  [https://bit.ly/3DJoiqu](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3DJoiqu&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2FfTHes3cQkwW57taN01HWKq2tP69miLauEIziyDXcuo%3D&reserved=0)
292. 6 mo. ICU-Related Loss of QOL & Autonomy after COVID [https://bit.ly/3JxBGPV](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3JxBGPV&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=YUfkhVLTC0nfkynlSUNStSJ0QarD1M1Uf1MD1W%2BvYBw%3D&reserved=0)
293. Long Covid in Adults Discharged from Hospitals in UK [https://bit.ly/3Mg3ry2](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Mg3ry2&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=ZfURi2CbeazuWfZrJwAgZV4fwJvovU4N4MkDl4%2FK8sw%3D&reserved=0)
294. Post COVID-19 Symptoms in ComPaRe Long COVID Cohort  [https://go.nature.com/3jlmue6](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fgo.nature.com%2F3jlmue6&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2FoluVT4JSOm47RunG10jxYQH%2FOeE5FRakEARWatjdPE%3D&reserved=0)
295. Contribution of Depression to Cognitive Impairment after COVID-19  [https://bit.ly/3k1S3dg](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3k1S3dg&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=bZJKq4vrKvrBoyc28VBEKVNuV%2FFmeuP851SB92Rwf5E%3D&reserved=0)
296. Evaluation of Autonomic Dysfunction after COVID-19  [https://bit.ly/3v1Vt5O](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3v1Vt5O&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=nrO%2FWzqVQCxwc51dGRsxrfta9KYtbKEwKIsb4McPOvY%3D&reserved=0)
297. Evidence-informed Consensus for COVID-19 Patient Visitation Policies [https://bit.ly/3v61iye](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3v61iye&data=05%7C01%7Cmgreer6%40jhmi.edu%7C888088373d024d7a4bb708da2c2b81a7%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637870862624894538%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=EH11s8ODuSiE0atT3gt4UkZi%2FRcqG2kvEiR2l0xwMlA%3D&reserved=0)
298. Inspiratory Muscle Training Post-COVID-19 Recovery: RCT <https://bit.ly/34lgUEB>
299. Awake Prone Position in Non-intubated COVID-19: Meta-analysis <https://bit.ly/3KSOHVf>
300. Clinical Decision-Making for PT in ICU for COVID-19 <https://bit.ly/3prGaAh>
301. 6-Month Outcomes of COVID-19 vs Non-COVID-19 <https://bit.ly/3HV3wo8>
302. 1-Year Follow-Up of COVID-19 Pts Requiring Ventilation <https://bit.ly/35mVCH4>
303. Occurrence & Associated Factors of ICU-Acquired Weakness Post-COVID-19: <https://bit.ly/35xrn0m>
304. Business Case for Post-COVID Clinic <https://bit.ly/3IPdyII>
305. COVID-19 Changes in Brain Structure in UK Biobank <https://go.nature.com/35HvTJB>
306. Risk factors & Abnormal CSF in Cognitive Post-Acute Sequelae of COVID-19 <https://bit.ly/3IOc2pz>
307. 1-Year Trajectory of Cognitive Changes in COVID-19 in China <https://bit.ly/3tZln8P>
308. Neuro-psych & Cognitive Sequalae after Hospitalization for COVID-19 Vs Non-COVID-19 <https://bit.ly/381alIF>
309. New-Onset Dementia in COVID-19 <https://bit.ly/3u0YYHX>
310. Cognitive-Behavioral Treatment for Mental Health in COVID-19 <https://bit.ly/3iunwUJ>
311. Inpatient Rehab can Improve Functional Outcomes of Post-ICU COVID-19: Prospective study<https://bit.ly/3oQdDUz>
312. Safety & Feasibility of Physiotherapy in ICU-admitted COVID-19: Observational Study <https://bit.ly/3IBkbys>
313. Sedation, Analgesia, Mobilization, Delirium & Sleep before & during COVID-19 <https://bit.ly/3gWYixv>
314. Prone Position on Lung Recruitment & Ventilation-Perfusion Matching in COVID-19 ARDS<https://bit.ly/3sceaCo>
315. Core Outcome Set Development for Studying Post-COVID-19 Condition <https://bit.ly/3ImnJog>
316. Working with Patients for Research: Lessons from Long COVID <https://go.nature.com/3LCd62p>
317. Quality of Life of COVID 19 Patients after Discharge: Sys Review <https://bit.ly/3H82JjD>
318. Post-acute COVID-19 Syndrome at Different Follow-up Periods: Meta-analysis <https://bit.ly/3uU5en2>
319. Organization of Outpatient Care after COVID-19 Hospitalization: Research Letter <https://bit.ly/3BnjaHp>
320. Outcomes in Pts with & without Disability Admitted to Hospital with COVID-19: Cohort Study<https://bit.ly/3uK3mgI>
321. Frailty & Disability Transitions in ICU with COVID-19: Cohort Study <https://bit.ly/3rPxB3U>
322. Risk of Persistent & New Clinical Sequelae in Adults ≥65 years after COVID-19: Cohort study <https://bit.ly/3gNXMSn>
323. Long-term Cardiovascular Outcomes of COVID-19 <https://go.nature.com/3hwertO>
324. Chronic Fatigue & Postexertional Malaise in Long COVID: Observational Study <https://bit.ly/3oLio1N>
325. Critical Care Follow-up Evaluation: Acquired Peripheral Nerve Injury after COVID19  <https://bit.ly/36UkjLt>
326. Nervous System Consequences of COVID-19 <https://bit.ly/3rLu0UC>
327. Neurologic Outcomes of Survivors of COVID-19–Associated ARDS <https://bit.ly/3rHYzu4>
328. Alzheimer's-like Signaling in Brains of COVID-19 Patients <https://bit.ly/3IzprCx>
329. 3 Month Evaluation of Sleep & Circadian Health of COVID-19 Survivors After Discharge <https://bit.ly/34WZZZp>
330. Association of COVID-19 ARDS With PTSD in Family After ICU Discharge <https://bit.ly/3h1gWEn>
331. 3 & 12 mo. Mental Health Symptoms in Family of COVID-19 ICU: Cohort Study <https://bit.ly/3HNMF7D>
332. ICU Rehab of COVID-19 Pts in Slovenia: Observational Study <https://bit.ly/3fYY20o>
333. 1 Year Clinical Outcomes After ICU for COVID-19: 11 Dutch Hospitals (N=246) <https://bit.ly/3KH3C5v>
334. 1 Year Follow-Up of Mech Vent COVID-19 Pts: Single Center Italy (N=56) <https://bit.ly/3fYIRUY>
335. Dual-task Performance in Mech Vent COVID-19 Survivors <https://bit.ly/3IHhlHT>
336. Clinical Profile & Recovery of Dysphagia in COVID-19: Observational Study <https://bit.ly/3AuiPCo>
337. International Commentary on Dysphagia & Dysphonia during COVID-19 Pandemic <https://bit.ly/3IDEhYw>
338. Focal Peripheral Neuropathies in COVID-19: Case Series (N=8) <https://bit.ly/3AvcVRo>
339. Delirium & COVID-19: Narrative Review of Emerging Evidence <https://bit.ly/3nYh7UM>
340. Neurodegenerative Biomarkers among COVID-19 Pts vs. Controls <https://bit.ly/3rPF3Lh>
341. Rehab in COVID-19: Japanese Observational & Multi-institutional Survey [https://bit.ly/3mGfqLd](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3mGfqLd&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=D3KDovPCXdRzy8vM1xODpHIF6lUELeXoteOwjn9UI%2FI%3D&reserved=0)
342. Home-based & Remote Exercise Testing in Cardiac Pts during Covid-19: Sys Review [https://bit.ly/33K6rlf](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F33K6rlf&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=rnaccY%2B8h8%2FtC3qDSxRhNCYNVsrMsm%2BSEsrPg7nyP0E%3D&reserved=0)
343. Rehab & COVID-19: Systematic Review up to August 31st, 2021 [https://bit.ly/3fbJhXD](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3fbJhXD&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=JfbbuheYdw8KVUj2G1OgJ%2FS1Qv70KhGCxmhpTa3%2BtDk%3D&reserved=0)
344. Challenges & Lessons for Acute Inpatient Rehab of COVID-19  [https://bit.ly/3GTyrkE](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3GTyrkE&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=D1Fq0nSwTFOIdr%2B3bjKACki4rLXGmKYvlCtfnbKZD%2BA%3D&reserved=0)
345. Physiotherapy Management for COVID-19: Update to Clinical Practice Recommendations [https://bit.ly/3qhWkfj](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3qhWkfj&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=0Gu0%2F3ceYtW2FgCvoI79a0vURXcOygUvFflzgQ9Br8U%3D&reserved=0)
346. Assessment of Sequelae of COVID-19 1 Year After Diagnosis [https://bit.ly/3mmtp8B](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3mmtp8B&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=FR9REmpOzC2Lsps%2FVP3QEi4WogzGt80xqgR4Zy%2F38eI%3D&reserved=0)
347. Post-ICU Syndrome of COVID-19: Cohort Study [https://bit.ly/3EvLl6N](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3EvLl6N&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=wGSyygeTYoilljQwBbCzTlqdwf0FVYkHEjmNyfMGaeQ%3D&reserved=0)
348. Fatigue & Cognitive Impairment Post-COVID-19: Meta-Analysis [https://bit.ly/3GhaiEM](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3GhaiEM&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=xDeG7uhd1YLQE6JPJfVjEBQIHnWL%2FT6DjOiNBCUNuqc%3D&reserved=0)
349. Persistent Neuropsychiatric Symptoms after COVID-19: Meta-analysis [https://bit.ly/3pi7zVA](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3pi7zVA&data=04%7C01%7Ckmattis1%40jhmi.edu%7C99b8846323974a10d0d008d9d5d77ffb%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637775943827259824%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=2%2BiH9yIx4VcDFQ%2B%2BypKSEmFGtY6cbwsJKKpPah%2F5VBQ%3D&reserved=0)
350. Strength & Function after Prone Positioning in COVID-19 Survivors [https://bit.ly/3kHbPvn](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3kHbPvn&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514818297%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=Pf2r2C%2F1jFd0av440E70D2bxYowoPUuP2VbIlmSw7mQ%3D&reserved=0)
351. Short & Long-Term Complications due to Standard & Extended Proning [https://bit.ly/3FmQ3Vy](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3FmQ3Vy&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514828252%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=7P4uALM1AH34OAqt3z%2BX6irfxDewcquffJB79NPrVNk%3D&reserved=0)
352. Rehab & COVID-19: Rapid Living Systematic Review up to June 30, 2021 [https://bit.ly/30yxoqY](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F30yxoqY&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514828252%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=c7NAPCDcCiYu4te7u3To5cfpVm0XK7hTdmb%2FCOKOZG0%3D&reserved=0)
353. Effect of Physical Therapy on Impairments from ICU to Home: Rapid Review [https://bit.ly/3nkmXzS](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3nkmXzS&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514838207%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=Sb05%2BqzgnUgV%2BZoh9XOMcqCAwioITCRtCb%2BbSRMtHI0%3D&reserved=0)
354. Characterizing Non‑ICU COVID‑19 Survivors With & Without In‑hospital Rehab [https://bit.ly/3kHylUy](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3kHylUy&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514838207%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=peldAwwOaiUro9p6NpuxVBlgp4QFFq7Sz1T4nxLJ2dc%3D&reserved=0)
355. Inpatient Rehab Outcomes after Severe COVID-19: Cohort Study [https://bit.ly/3GjPvjO](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3GjPvjO&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514838207%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=6olTDb3PP14XkzYgMtDy1GsiP8pdwTZGfPRuNX49vY8%3D&reserved=0)
356. Effect of Structured Virtual Patient Visits (sVPVs) on COVID-19 Pts & Relatives  [https://bit.ly/3pz6xn2](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3pz6xn2&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514848163%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=1nMe2mv6qNWRIXuQv%2BOszHFOgaSC%2Fws1HDaNfW7ipuk%3D&reserved=0)
357. COVID-19 Yorkshire Rehab Scale: Application & Psychometrics in Post-COVID-19 Syndrome [https://bit.ly/3HDuhin](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3HDuhin&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514848163%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=2tXD26wcQBhRBpo0NSpymOqQ8E2Sw0yNrfxaFB8eWjw%3D&reserved=0)
358. Post-Acute Sequelae of COVID-19 (PASC) by Severity of Infection, Demographics & Health Status [https://bit.ly/3HkFXpQ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3HkFXpQ&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514848163%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=rOxpWTUpJr1n4ZlrI%2BvPZ4upRYgwJoMMoGRvO7VmdWw%3D&reserved=0)
359. Impact of PASC on Physical & Cognitive Function, Quality of Life & Participation [https://bit.ly/3wRbLxH](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3wRbLxH&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514858119%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=1UPZzXEQZpaX8h9ANc9LK6dM%2B3Z7cB3uc1OexYBLfOU%3D&reserved=0)
360. Recovery from Covid-19: Secondary Analysis of ISARIC4C CCP-UK Cohort & RECOVER Trial [https://bit.ly/3wPl817](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3wPl817&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514858119%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=vodMOXD9BrGPuQ%2BrBcmNcRWaG4EfjiGlDKnUJD3sCkA%3D&reserved=0)
361. Long-term Complications of COVID-19 in ICU Survivors (Review) [https://bit.ly/3ospdUU](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ospdUU&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514858119%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=Jn943EBl65WLHvS%2Bfuk4Ganvcv35EubCV%2BXZ8EYJybQ%3D&reserved=0)
362. COVID-19 Post-acute Sequelae Among Adults: 1-year Mortality Risk [https://bit.ly/3doS3kg](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3doS3kg&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514868082%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=3AuBwt8Q40mkR9e%2FWYa2z50qqEcIwRUyIhjQ8qV7BbM%3D&reserved=0)
363. Persistent Symptoms of COVID-19 (Long COVID): Scoping Review [https://bit.ly/3ExiU9q](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ExiU9q&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514868082%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=KFbUomLjhMl%2B92w%2F2%2BrKshzj7iw6Mb2cou0T%2B63kKHY%3D&reserved=0)
364. Residual Lung Damage following ARDS in COVID-19 Survivors [https://bit.ly/3rJtbvI](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3rJtbvI&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514878033%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=8vjvbfKPDZQHePg8mi2OmdsWW0ZFl%2FR3jVJE%2BvRKXbI%3D&reserved=0)
365. Neurologic Manifestations in COVID-19: Sys Review & Meta-analysis [https://bit.ly/3ExAiLw](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ExAiLw&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514878033%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=MyG6BjmeTaHIGwrteWoXAwciJEfwAMYFl70k0I3jsDU%3D&reserved=0)
366. Cognitive Dysfunction, Psychiatric Distress & Functional Decline after COVID-19 [https://bit.ly/3GhXQUV](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3GhXQUV&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514878033%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=C9zE%2BVwG8RfGHtJ38PVcvA78ogXFvxwKVPkSTfQVVMg%3D&reserved=0)
367. ABCDEF Bundle during COVID-19: Point Prevalence Study [https://bit.ly/3CqBuhz](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3CqBuhz&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514887993%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=RIjZUQ6KxCUVsYqM1dEZefCPZQ0Z1ICLckl0Y3weW6M%3D&reserved=0)
368. COVID-19 Infection Control in ICU: Consensus Statement [https://bit.ly/3DryrXW](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3DryrXW&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514887993%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=Mw8IHEjbOSxgfGR258JTA2aVRFZo%2B8dARCuhA54iQSg%3D&reserved=0)
369. Characteristics & Outcomes of US In-Patients With COVID-19 [https://bit.ly/3Fixlyc](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Fixlyc&data=04%7C01%7Ckmattis1%40jhmi.edu%7C206f881608f14afdb05608d9b9934874%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637744864514887993%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=HETZmLfF1cSE3G6nX6xlfR4Bv5fwPHCtODBr%2FgY%2F14o%3D&reserved=0)
370. Awake Prone Positioning for COVID-19: RCT <https://bit.ly/3kGyDf0>
371. Critical Illness Neuropathy in Severe COVID‑19: Case Series <https://bit.ly/3uhOvaM>
372. Delirium & Neuropsychological Outcomes in Critically Ill with COVID-19: Cohort study <https://bit.ly/3EXRHxi>
373. Safety, Feasibility & Outcomes of Long-Duration Inpatient Rehab After COVID-19 <https://bit.ly/2XM8Dpv>
374. Effectiveness of Pulmonary Rehab in Severe & Critically Ill COVID-19: Controlled Study <https://bit.ly/3oqPTHB>
375. Lessons Learned from Implementing Rehab at COVID-19 Field Hospital <https://bit.ly/3zIIeGf>
376. 1-month Cardiopulmonary Symptoms, Disability, & Financial Toxicity after COVID-19 <https://bit.ly/2WkkACy>
377. 6-month Quality of Life in COVID-19 <https://bit.ly/3i8lSby>
378. 6-mo. Psychologic Distress & Quality of Life after ICU for COVID-19: Longitudinal Cohort <https://bit.ly/3ueMU5L>
379. 12month Outcomes in Hospital Survivors of COVID-19: Longitudinal Cohort Study <https://bit.ly/2XVnBKp>
380. WHO ICF Framework for Measures Evaluating Long-Term Outcomes in Coronavirus <https://bit.ly/3i7Nihy>
381. Mental, Physical & Cognitive functioning during COVID-19: Study Protocol <https://bit.ly/3ocZUYw>
382. Awake Prone Positioning in COVID-19 [https://bit.ly/3DAy7GX](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3DAy7GX&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456177966%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=PQk7Y8OZPohdJ0fnUQs342eHUbJqRGwJ2Bz50vaVykI%3D&reserved=0)
383. Acute Inflammatory Myelopathy after COVID-19: Review [https://bit.ly/3zz117U](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3zz117U&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456187921%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=aufh1XeR3xj%2FcmzQu%2BSiOILW4r95IxJrUJhPNvNsl%2Fw%3D&reserved=0)
384. Long COVID in International Cohort: 7 months Symptoms & Impact [https://bit.ly/3jtTdP9](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jtTdP9&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456187921%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=SXZR%2FvX4T6pXHKVpdZDxTRfhJ%2FWKq8228oDz1x7Fyho%3D&reserved=0)
385. Persistent Symptoms in Hospitalized COVID-19 Patients [https://bit.ly/3BsGWAF](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3BsGWAF&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456187921%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=KKbOTuX67M%2FNXnGU0%2Bz6UeDowr0g28okOzurW%2FNeTzU%3D&reserved=0)
386. Outcomes of Outpatient Rehab Clinics after COVID-19 [https://bit.ly/3jwu7iH](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jwu7iH&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456197879%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=r8A%2BrlQaQxwhdjj%2F%2ByE0dScarVvIFOdzZrE2DQzdkzQ%3D&reserved=0)
387. Safety & Feasibility of Interdisciplinary Treatment for COVID-19 Recovery [https://bit.ly/3zCVnl6](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3zCVnl6&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456197879%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=AvEpn8e%2BgIpt5nAA9wMj8kOoim8F6krrrxVFRYukgqY%3D&reserved=0)
388. PICS after COVID‑19: A Cohort study [https://bit.ly/2WKp1qe](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2WKp1qe&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456207834%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=99W66dLs%2BrBpve3T9Tk7lxV7RvkAQY%2BIFs%2Btp%2BoqQ14%3D&reserved=0)
389. PICS & COVID-19: Review [https://bit.ly/3mOktKn](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3mOktKn&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456207834%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=2RigzasFeQshNSFCHuThHoIIc5FXgXpE1UCjHyXHnU4%3D&reserved=0)
390. Family Presence for Critically Ill Pts During Pandemic [https://bit.ly/3gOlgqL](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3gOlgqL&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456207834%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=F%2FpP%2B%2Bp7UsjbjSHmNwhegNaHfgR6jA6q3mJVFHqrHSE%3D&reserved=0)
391. Lived Experiences of Family Members of Covid-19 Pts: Phenomenological Study [https://bit.ly/3mL4EnC](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3mL4EnC&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456217791%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=2pNI8XJRe%2Fk%2FCjDL2rXAEzIsTYOW8OozRrT0o1GXUa4%3D&reserved=0)
392. Research Priorities in Long-term Sequeale of COVID-19: International Consensus  [https://bit.ly/3mO08EJ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3mO08EJ&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456217791%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=5YY5Di80HU2CV5S4%2FW0q5MwriQLe6d7n8veDqtN%2F%2FmQ%3D&reserved=0)
393. Guidance of Assessment & Treatment of Fatigue in PASC Patients [https://bit.ly/2V3rxY3](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2V3rxY3&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456227748%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=LUeH7oXHlnU9%2BVUR2n5QcqKU0UwFJaT3f15UYQruju4%3D&reserved=0)
394. Long Covid Clinics Should Run as Research Hubs [https://bit.ly/2WAYZp6](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2WAYZp6&data=04%7C01%7Ckmattis1%40jhmi.edu%7Ccab4d92112c2486b3f8108d971ee05d2%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637666090456227748%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=2ofNRFiheq%2BKHzkh8uWMeOA3ILWwlSoLQESAV2%2BdiWw%3D&reserved=0)
395. Telerehab in Post-discharge COVID-19 Pts (TERECO): RCT [https://bit.ly/37nqpRq](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F37nqpRq&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997105676%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=FxgtJ29pHHguUqEgj0u08N%2BNBBGx0uLJMFkxG9TtZh4%3D&reserved=0)
396. Rehab & COVID-19: Update of Systematic Review as of Feb 28, 2021 [https://bit.ly/3fzpcLf](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3fzpcLf&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997115636%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=%2BohNVkrucrE7Pdggn5m46Devl17HtOxWCVKXWA4qAM4%3D&reserved=0)
397. ICU Rehab Outcomes in COVID-19 in Singapore: Case Series [https://bit.ly/3ly9mo5](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ly9mo5&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997115636%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=XDdnTDFtV%2FqNh64tNZwkIt5VWm4hBwlFXJ5EPBCIkvc%3D&reserved=0)
398. Physical Rehab in ICU in Argentina during COVID-19:  Online Survey [https://bit.ly/3CiNCT9](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3CiNCT9&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997125590%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=3GPz5FmbonRbtsDNEotDQ3nStkl%2BVZcG%2F0q7Tdi5YVo%3D&reserved=0)
399. Cardiopulmonary Exercise Testing in COVID-19: 3 Month Follow Up [https://bit.ly/3CnnW86](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3CnnW86&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997125590%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=9sklOC4Vkd%2FQ%2BFAmVtOiqJxjww68SrgSzNOWoUVO%2FRU%3D&reserved=0)
400. Cardiopulmonary Exercise Testing in COVID-19: 3 & 6 Month Follow Up [https://bit.ly/3ymn5C1](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ymn5C1&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997135551%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Dcz3PChOWZ6FTynF2%2ByvLSUz5O%2BobK8d0TUczKPxWHI%3D&reserved=0)
401. FEES and Laryngeal Pathology in COVID-19 after Intubation & Trach [https://bit.ly/3fBPFrF](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3fBPFrF&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997135551%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=0yCiHcVSwanoArSZjII%2FmI7kutFTxUDZpBYPBxtKSmc%3D&reserved=0)
402. Sedation, Coma & In-Hospital Mortality in Mech Vent Pts With COVID-19: Cohort Study [https://bit.ly/3xCoKDF](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3xCoKDF&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997135551%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=XXozKmIuEJitEfCI%2FHHAWxeErfpUxWkHbwfHsy8j1UY%3D&reserved=0)
403. High Sedation in COVID-19 ARDS: An Observational Study [https://bit.ly/3AgO0j0](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3AgO0j0&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997145505%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=g4RHnx2dzi%2F4UiShbX4bsMH07i9VLb5fev3bBcyT4vw%3D&reserved=0)
404. Delirium in COVID‑19: Commentary [https://bit.ly/3yDMG9u](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3yDMG9u&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997145505%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=1cmFpIt6Ppj36QtbZSZ8HYP9%2Fi7bT8qIYSRyrNp3QKQ%3D&reserved=0)
405. Neurological & Psychiatric Complications of COVID-19 in UK: Cross-Sectional Study [https://bit.ly/3ytQcTQ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ytQcTQ&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997155460%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=OQ%2BP7NRa22dEHJ6ctDNCmTZwDG%2F1bWsYj%2Bbp0ckKHp4%3D&reserved=0)
406. Pattern of Cognitive Deficits in Severe COVID-19 [https://bit.ly/3jsSMDo](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jsSMDo&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997155460%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=l%2FAdXamOjZtXYvoPrK%2F4tKpj7ZlZ%2BXDt8rR2Cq5YM1E%3D&reserved=0)
407. Cognitive Deficits in Pts Recovered from COVID-19: Great British Intelligence Test [https://bit.ly/3rTtQsF](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3rTtQsF&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997155460%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=mG824J8Lt7skGIoB4IZ8Xmy%2B7d8qtHAmD0CUBY3afEE%3D&reserved=0)
408. Long-Term Impact of COVID-19: Meta-Analysis [https://bit.ly/3rW4vOz](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3rW4vOz&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997165416%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=dWti3OApNNU35qV1FfS7y9NS20HIrkF87lyWopZSlns%3D&reserved=0)
409. Persistent Symptoms & Disability After COVID- 19: Data from Telerehab Program [https://bit.ly/3ytA9p8](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ytA9p8&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997165416%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=IrQC%2FIBrFrFFoBxSIfxsj%2BSe9uzTthicNvMOxwk3WNk%3D&reserved=0)
410. Long-term Recovery after ECMO for COVID-19: Commentary [https://bit.ly/3rVugP3](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3rVugP3&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997175373%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=P3XboGG6icDT4bkoXENxs0R0GM0SZsak%2FbOC7K4i7Cg%3D&reserved=0)
411. Management of COVID-19 ICU Survivors in Primary Care: Narrative Review [https://bit.ly/3Cly7ty](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3Cly7ty&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997175373%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=3VCqjSZfPtMQZqRyPShYwdN3OSLrUILG%2F3GbxaehFys%3D&reserved=0)
412. Psychological Evaluation & Support in COVID‑19 ICU Pts: Feasibility Study [https://bit.ly/3AeN4fm](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3AeN4fm&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997175373%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=mVodhUtYfDCv7cHo0Ny00EZxHURZywuwTdJS4i3Ezf0%3D&reserved=0)
413. Development of Virtual Visiting in ICU during COVID-19  [https://bit.ly/3xqMWHI](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3xqMWHI&data=04%7C01%7Ckmattis1%40jhmi.edu%7C3496f9995c1c4fc2981108d958e1061c%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637638546997185327%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=oy5iL6XmwrofCMHqFGyiOHbty1l3geLqpE3kFoiDIK4%3D&reserved=0)
414. Therapeutic Exercise in Post-Covid-19 Pts in Post-Acute Care <https://bit.ly/2UEEUNK>
415. Early Rehab Feasibility in COVID-19 ICU <https://bit.ly/3jbVmz4>
416. Immune-Mediated Myopathy in COVID-19 Pts Who Have Died <https://bit.ly/3h8wUfm>
417. Guillain-Barré syndrome & COVID-19: Observational Multi-Centre Study  <https://bit.ly/2T8xi5J>
418. Predictors of Low Physical Function in COVID-19 with Acute Respiratory Failure <https://bit.ly/3dfKnAZ>
419. Neurological Complications of COVID‑19 <https://bit.ly/3h8LaEO>
420. Neuropsychiatric Disorders & COVID-19 <https://bit.ly/3x2DoU4>
421. Short‑term Quality of Life, Function & Psych. Issues in COVID‑19: Cohort Study <https://bit.ly/3xX9TTF>
422. Return to Work After Covid-19 ARDS: Case Series  <https://bit.ly/3gTemkj>
423. Rehab after COVID-19: Supporting Return to Work <https://bit.ly/3A06Pba>
424. Advancing Telehealth-Based Screening for PICS: A Covid-19 Paradigm Shift <https://bit.ly/3vWKNCW>
425. Why & How to Open ICU to Family during Pandemic <https://bit.ly/3dggel1>
426. Psychological Burden in COVID-19 Pts & Family: Prospective Cohort Study <https://bit.ly/3vV5Pln>
427. Lived Experiences of Family of Pt with COVID-19 who Died in ICU in France <https://bit.ly/3ddSiig>
428. Rehab & COVID-19 (Dec 2020): A Rapid Living Systematic Review <https://bit.ly/2OsOCA5>
429. Early Experiences of Rehab for Post-COVID: Cohort Study <https://bit.ly/3yGJhHp>
430. Comprehensive Rehab for Sub-Acute COVID-19 Pts: Observational study <https://bit.ly/3voKJMK>
431. Functional Sequelae & Implications for Rehab after COVID-19: Cross-sectional Study <https://bit.ly/2RaoZoG>
432. Functional Outcomes & Physical Performance in Mech Vent COVID-19: Cohort Study <https://bit.ly/3vntTxS>
433. Perme Mobility Index: Assess Mobility Level in COVID-19 Patients <https://bit.ly/2SsNrlV>
434. Adaptation of Leeds Post-Extubation Dysphagia Screen during COVID-19  <https://bit.ly/3vqiSvx>
435. Global Incidence of Neurological Manifestations Among COVID-19 <https://bit.ly/2Tom9xz>
436. Delirium in ICU patients with COVID-19. Any difference? (Commentary) <https://bit.ly/3vuuWw4>
437. PTSD after Severe COVID-19 Infection <https://bit.ly/3hVDwja>
438. Quality of Life of COVID‑19 ICU Survivors: 90-day follow‑up <https://bit.ly/3hYhNqW>
439. Impact of COVID-19 on ICU Family Engagement: Survey of 27 ICUs <https://bit.ly/3foBU00>
440. Family Presence for Patients with COVID‑19 in the ICU <https://bit.ly/3yzbVKN>
441. Respiratory & Functional Rehab for COVID-19 ICU Pts: Protocol for RCT  [https://bit.ly/3h2pBaX](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3h2pBaX&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb80844e8ca5d488a043a08d90eec8b3f%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637557231855028327%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=H7lKMJwFYKOqd7SfpDG8jamCcx6E7rKHiKpV3I0BwYY%3D&reserved=0)
442. Inspiratory Muscle Training after Mech Vent for COVID-19: Pilot Study [https://bit.ly/3uhKXF3](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3uhKXF3&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb80844e8ca5d488a043a08d90eec8b3f%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637557231855028327%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=7uvTqL%2Be50dKF8TqFwUmWjej0emv5QIjxmqPw%2BXvoqY%3D&reserved=0)
443. Wearing a Face Mask during 6-MWT in End-Stage Lung Disease [https://bit.ly/3xwtbzI](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3xwtbzI&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb80844e8ca5d488a043a08d90eec8b3f%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637557231855038318%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=kXtvykw6OGdF%2Biaoqr52xT9qJiaCiG%2B9K6ASWQ2lNvY%3D&reserved=0)
444. Assoc. of Sedation, Coma, & Mortality in MV COVID-19 Pts: Retro Study [https://bit.ly/3xCoKDF](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3xCoKDF&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb80844e8ca5d488a043a08d90eec8b3f%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637557231855038318%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Iiqw3fF%2BaxtdBRoEKTcUWAKnchinEEH7gDLvJNhSKKo%3D&reserved=0)
445. Management & Rehab of Communication & Swallowing in COVID-19 [https://bit.ly/35Bnkx5](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F35Bnkx5&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb80844e8ca5d488a043a08d90eec8b3f%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637557231855048319%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=xHSJS7wE%2FDtxCLoJ3wpGBCRa2n%2FHyNA7XXX0fHTf2tQ%3D&reserved=0)
446. Rehab to Enable Recovery from COVID-19: Sys Review [http://bit.ly/2MCkWzz](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F2MCkWzz&data=04%7C01%7Ckmattis1%40jhmi.edu%7C5f43d88a21a44967ee0e08d8e49a1608%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637510697739114900%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=EgStVcxlusR4hCOxGC74PPY2HctfxADQwPjQwwl%2BeDw%3D&reserved=0)
447. COVID-19: Patient Characteristics in Post-ICU Rehab [http://bit.ly/380FKIl](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F380FKIl&data=04%7C01%7Ckmattis1%40jhmi.edu%7C5f43d88a21a44967ee0e08d8e49a1608%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637510697739114900%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=KBsYcgd2Vn0fg4KD2JDfOnBQo07WJSW3s99iFRi3UIA%3D&reserved=0)
448. Do Patients with COVID-19 Benefit from Rehab? [http://bit.ly/3bOH0iU](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3bOH0iU&data=04%7C01%7Ckmattis1%40jhmi.edu%7C5f43d88a21a44967ee0e08d8e49a1608%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637510697739124894%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=eyxXrEUZIeAZPZZBLzaSLol9W2UXrL0wgtCbSvloQwQ%3D&reserved=0)
449. Incidence, Frequency & Timing of PT Intervention during COVID-19 [http://bit.ly/300dqRV](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F300dqRV&data=04%7C01%7Ckmattis1%40jhmi.edu%7C5f43d88a21a44967ee0e08d8e49a1608%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637510697739124894%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=kJ1G9tSbs8z1YQGHDXcEFL50s5BOF9R71DRjc2uxW%2FI%3D&reserved=0)
450. Could PT be Adopted in Management of COVID-19? Review [http://bit.ly/3uDOZbj](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3uDOZbj&data=04%7C01%7Ckmattis1%40jhmi.edu%7C5f43d88a21a44967ee0e08d8e49a1608%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637510697739134890%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=vpk2UIxqk1thyW5VyJlf%2FsH1TC1WjpQZofG%2FvIZzF5w%3D&reserved=0)
451. Respiratory & Psychophysical Sequelae after Discharge [http://bit.ly/3bNqBeM](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3bNqBeM&data=04%7C01%7Ckmattis1%40jhmi.edu%7C5f43d88a21a44967ee0e08d8e49a1608%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637510697739144884%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=J33WTB%2FzHjDaEIvnSdToGFARiVBd5wyWJ7MUw28109I%3D&reserved=0)
452. Musculoskeletal Involvement of COVID-19 [http://bit.ly/3b3jKi3](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3b3jKi3&data=04%7C01%7Ckmattis1%40jhmi.edu%7C5f43d88a21a44967ee0e08d8e49a1608%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637510697739144884%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=bUaf6c27GYRytAbAZBy0atYAVkM488rcWi0znUWdGJA%3D&reserved=0)
453. Virtual Reality for Psychological Recovery after ICU for COVID-19 [http://bit.ly/3b4yEEx](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3b4yEEx&data=04%7C01%7Ckmattis1%40jhmi.edu%7C5f43d88a21a44967ee0e08d8e49a1608%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637510697739154877%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=mqkDxv69AbiKDaQ3lHqOvUBRUzDzO19W3QxiabnlGqI%3D&reserved=0)
454. Recommendations for PT in COVID-19: National Consensus (India) [http://bit.ly/3rIfo64](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3rIfo64&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614187269%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=W%2FWC%2B2W0UFi4vQhqedOD5nIVXU8BPCbb8BexZGVOWlk%3D&reserved=0)
455. Rehab & COVID-19: Systematic Review Update as of October 31, 2020 [http://bit.ly/38QezPY](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F38QezPY&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614187269%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=RwgIamuEuBMytIoNK%2BL0a70kTL5fpTdaihcLVy%2B44K4%3D&reserved=0)
456. Patient Mask Wearing & 6MWT in COVID-19 Era [http://bit.ly/34WGGfs](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F34WGGfs&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614197264%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=GQtmOmVI4WPcZw09btID%2BbYkWvm47470R4X2o1QU%2Byo%3D&reserved=0)
457. Delirium Incidence, Duration, & Severity in ICU Patients with COVID-19 [http://bit.ly/38NmUUH](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F38NmUUH&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614197264%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=zoqIUqaTksYt8RVsM51CFaNp8vavs9RZ3eXIlKENuEE%3D&reserved=0)
458. Meralgia Paraesthetica Neuropathy in ICU Survivors of COVID-19 [http://bit.ly/3rHA7qX](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3rHA7qX&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614207259%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=8e2ytUR5l26PUZ9SQOIgANasY%2FKtQNflBIScWo6191c%3D&reserved=0)
459. COVID-19 Survivors Exhibit Profound Muscular Weakness: Case Series [http://bit.ly/3hFDDO1](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3hFDDO1&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614207259%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=0Zcwz2oH8oKLdnNCYKOIUtomjQ5lCM8Qjcv45gwNNkU%3D&reserved=0)
460. UK Rapid Guideline: Managing Long-Term Effects of COVID-19[https://www.nice.org.uk/guidance/ng188](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.nice.org.uk%2Fguidance%2Fng188&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614217251%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=yzHWRgew7GEr815DHSbVMv27FHrzNo7i3Yhfmfgdj8g%3D&reserved=0)
461. UK Long-COVID Patient Booklet:  [https://www.sign.ac.uk/media/1798/sign-long-covid-patient-booklet-1.pdf](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.sign.ac.uk%2Fmedia%2F1798%2Fsign-long-covid-patient-booklet-1.pdf&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614217251%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=m42dSy2EAPb00gwcnmru7S2VcWCsnwUy0H6VuE1Im7M%3D&reserved=0)
462. Persistent Symptoms after COVID-19 in Non-Hospitalized Subjects [http://bit.ly/3o0Z1zs](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3o0Z1zs&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614227248%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=SVyi25Y8I1X0LVZUOeL7SLrmnrVKOqDByNdcsUt5zc8%3D&reserved=0)
463. Long-Term Symptoms of COVID-19: Commentary [http://bit.ly/3rD53Zf](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F3rD53Zf&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614227248%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=MITHPWcj01anUGEcYkZjEb6If9M2fUcPwHfOTPzZSbs%3D&reserved=0)
464. Personal Reflections of a COVID-19 Long Hauler [http://bit.ly/2WSH4XQ](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fbit.ly%2F2WSH4XQ&data=04%7C01%7Ckmattis1%40jhmi.edu%7C51c088518c9e49de4cdd08d8b174d05e%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637454462614237241%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=RLoyyCOdavIkYwHqYThpuxiAv05R0kx0Y9YJShpFKn4%3D&reserved=0)
465. Identification of Functional Limitations & Discharge Destination in COVID-19 [https://bit.ly/3gkJJSY](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3gkJJSY&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697166707%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=pyej%2BGSqlHRaUZyCXW8zIP%2BOnLo5xDbdBzjrNHIPysA%3D&reserved=0)
466. COVID-19–Associated Myopathy Caused by Type I Interferonopathy [https://bit.ly/2Iu7BY4](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2Iu7BY4&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697166707%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=pNFVP6diPpV%2BqRfIBdprORxmqGYxcjM69diYnriHxnk%3D&reserved=0)
467. Delirium in Older Patients With COVID-19 Presenting to the ED [https://bit.ly/2VODrlb](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2VODrlb&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697176702%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=31p%2BYEf3CMenBlR%2Bfm0bJo%2FNqzHC%2FQwXhhFgmh6qRsY%3D&reserved=0)
468. Dysphagia Presentation & Management Following COVID-19 [https://bit.ly/37DOrHE](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F37DOrHE&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697176702%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=lQBEbZledG26SzVUjOYZ9nDVNBGGSMeHSd0sbrX8xf0%3D&reserved=0)
469. Influence of Sensory Dysfunction on Swallowing Physiology in COVID-19 [https://bit.ly/3oCHJZv](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3oCHJZv&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697186696%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=8tu3jKIS9uGwOfAJSMG4tbBNlkCW%2BUTFRdeL0Nu5NwM%3D&reserved=0)
470. Association of Tracheostomy with Sedation Changes in COVID-19: QI project [https://bit.ly/39Ry3pU](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F39Ry3pU&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697186696%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=4NF%2F2r%2B8fNP5C6u%2FlqGEgSZWrMW4S%2BCwOSQGDPfkq2w%3D&reserved=0)
471. Health Assessment 3 Months after COVID-19 [https://bit.ly/3mVguZo](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3mVguZo&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697186696%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=sC9r5yq0dbrRJ1kNi31rba513fw2E%2FmJlHxTmgX407E%3D&reserved=0)
472. 60-day Outcomes of Patients Hospitalized with COVID-19 [https://bit.ly/39Omnnw](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F39Omnnw&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697196689%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=EWSoAI%2ByxlUhzKcs5h6YHpHnnjV9QIWO1L%2FuxtEWceo%3D&reserved=0)
473. Outcomes of Critically ill COVID‑19 Pneumonia Patients [https://bit.ly/2K03R0R](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2K03R0R&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697196689%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=K%2B1PZ0JVKADniOK5EMgNVTcZePwQ5WuTh9zZ3Y8IuYU%3D&reserved=0)
474. Reasons for Focusing on Care of Family of COVID-19 Patients [https://bit.ly/3qBmbxZ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3qBmbxZ&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cc160b660f44944bad96208d89c3d5a11%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637431134697206684%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=2t5OkHu26NoEA4tec6Go7mtwsl%2BS%2BjroNc3ijAurVvs%3D&reserved=0)
475. COVID-19 Guidance on Rehab: ERS & ATS Task Force <https://bit.ly/3lIzlXm>
476. Prone Positioning using Safe Patient Handling Equipment <https://bit.ly/3f53ihs>
477. Rehab of Communication & Swallowing: A Global Response to COVID-19 <https://bit.ly/35Bnkx5>
478. Analgesia & Sedation in Patients with ARDS (including COVID-19) <https://bit.ly/3kIX4W4>
479. Bidirectional Associations between COVID-19 & Psychiatric Disorders <https://bit.ly/3lxvNH8>
480. Symptoms, Biomarker & Imaging Abnormalities after COVID-19 Hospital Stay <https://bit.ly/32Q7H3f>
481. Novel Communication Device during Non-Invasive Ventilation: RCT [https://bit.ly/35FhCsN](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F35FhCsN&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420104329%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=UoI%2FUY3aMEgeAj77BYSeEN8pGl0Edf3wvg4EvkSGe8U%3D&reserved=0)
482. A Rehab-Based Prone Team for ARDS Related to COVID-19 [https://bit.ly/34zmYq7](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F34zmYq7&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420114331%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=5UYf2wUFd%2BjX7QQzapyE6A5bfOsUfZjq1YXw%2F9N0O4A%3D&reserved=0)
483. Improving Proning for ARDS during COVID-19: Implementation Mapping [https://bit.ly/3kIo20Q](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3kIo20Q&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420114331%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=OgNrT5%2BCQ5fB%2F%2FFoO%2Bx1pL5rrgt%2BROF8n0SpC6jW%2Fic%3D&reserved=0)
484. Reducing the Risk & Impact of Brachial Plexus Injury from Prone Positioning [https://bit.ly/31RPT7g](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F31RPT7g&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420124321%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=lcavt8Jnd2DFBNZTdFzxM6xrD79d5SleGvzqLMTYLTw%3D&reserved=0)
485. Frequency of PT is Associated with Mobility & Disposition in COVID-19 [https://bit.ly/37PPAha](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F37PPAha&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420124321%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Ez%2FRCYpPVZvlF%2FGFS0PjJ1OmDcidLT0iE2fH0YHk8gY%3D&reserved=0)
486. Rehab & COVID-19: the Cochrane Systematic Review [https://bit.ly/2Jixvy5](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2Jixvy5&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420134321%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=zVo66J3NMKn1Nm8TM%2FfKdOCOFX4DxdjcKlMG6imncGM%3D&reserved=0)
487. Managing the Rehab Wave: Rehab Services for COVID-19 Survivors [https://bit.ly/2HAQl2W](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2HAQl2W&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420134321%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=ja%2BIiDSzqG68E%2BEqihA7bNoR2if%2BN3xPOLUSOpVCNyQ%3D&reserved=0)
488. ICU Admission & Early Neuro-Rehab: Lessons for COVID-19 [https://bit.ly/2HAQTpw](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2HAQTpw&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420144309%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=HVK3cDeTQnq5NuvRk6L%2FJsZ8AOWPDthLm7gVeLELQZE%3D&reserved=0)
489. Early PT Interventions for Patients with COVID-19: Case Series [https://bit.ly/3jFTE5I](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jFTE5I&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420144309%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=ABzAEBVpM3h3qaKzc9N9oLUwouSi58YHdFjkAk90omQ%3D&reserved=0)
490. What Now for Rehab Specialists? COVID-19 Questions & Answers [https://bit.ly/2HGTONi](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2HGTONi&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420154306%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=2bE5ruBfoRn9cG5plfS9RhTfUhw6yP3T2dlWA3rvDFI%3D&reserved=0)
491. ICU-Acquired Weakness in COVID‑19 patients [https://bit.ly/3e76ada](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3e76ada&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420154306%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=cl0F50%2BcAjzYCkKlImogTI6IQ8HwV1J3BLng8i%2F4FuY%3D&reserved=0)
492. Patient-Reported Outcomes after COVID-19: Prospective Cohort Study [https://bit.ly/34BBQEM](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F34BBQEM&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420154306%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=ScNkQN8Fr%2BFi72bIVUFWj0TvNhRHdRPGx01jJt9JgT4%3D&reserved=0)
493. Symptom Duration & Risk Factors for Delayed Return to Health in COVID-19 [https://bit.ly/3oDQTps](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3oDQTps&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420164297%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=yBY7pAf33tSGLU9TCmv6QnzHog4haaSCEus1vezHorI%3D&reserved=0)
494. Follow-Up of Non-Critical COVID-19: Two Months After Symptom Onset [https://bit.ly/2Tx13cX](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F2Tx13cX&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420164297%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=edGWHi2hQX2HyVLLOlfcsrXCgIumEKjejN0FPWIVsMA%3D&reserved=0)
495. Psychological Distress among COVID-19 Survivors during Convalescence [https://bit.ly/35G104d](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F35G104d&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420174295%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=O8GzD5yl4chE0uPZ2c560Jzq8FGyZRQAQEuitjquu0E%3D&reserved=0)
496. Psychological Distress of Populations Affected by the COVID-19 [https://bit.ly/3jCV1lM](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3jCV1lM&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420174295%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=PEPR2PEJYtX7LWR4fQfcoXUz%2BZygCZVb50Xrns3P3T0%3D&reserved=0)
497. Depression, Anxiety & Acute Stress Disorder in Patients with COVID-19 [https://bit.ly/3ebqslZ](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3ebqslZ&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420184285%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=8vhP4HFHzPj6lauxW40WsHxM4XXbQ5Li3Sg%2FI7UY8CE%3D&reserved=0)
498. Assoc between Visitor Restriction & Delirium Incidence during COVID-19 [https://bit.ly/3oxhPqB](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3oxhPqB&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420184285%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=8MmtWNdVUbFdxwP21qYoPmMVi3l3bCCzCoTWMebJT%2FU%3D&reserved=0)
499. Neurologic Manifestations & Encephalopathy-Assoc Morbidity in COVID-19 [https://bit.ly/34Bnu75](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F34Bnu75&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420194282%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Sx1k0Et1D%2BXDz9RA3g8tIaKtGxhKNNgZoMgjIh4A000%3D&reserved=0)
500. Conduct of Research for COVID-19 & Beyond: SCCM VIRUS Registry [https://bit.ly/3oAMLqc](https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fbit.ly%2F3oAMLqc&data=04%7C01%7Ckmattis1%40jhmi.edu%7Cb7b59309adcd45cf1bd508d87cc1dddf%7C9fa4f438b1e6473b803f86f8aedf0dec%7C0%7C0%7C637396519420194282%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=6pvb%2Bc0SJuzDj8y68JQWR8eGhvGTT7bxJJvT6VJa3kk%3D&reserved=0)
501. Cognitive deficits after COVID-19 vs controls: online study (pre-print) <https://www.medrxiv.org/content/10.1101/2020.10.20.20215863v1.full.pdf>
502. Early Prone Positioning in Patients with COVID-19 Receiving CPAP <https://bit.ly/2FH7tTH>
503. Rehab Levels in COVID-19 Patients Requiring Invasive Ventilation https://bit.ly/32SCVqQ
504. Rehab & COVID-19: Cochrane Rehabilitation 2020 Systematic Review https://bit.ly/2ElVZEe
505. Contending with Drug Shortages During Disasters https://bit.ly/2RL8Jr8
506. The Use of Analgesia & Sedation in Patients With COVID-19 ARDS https://bit.ly/3iUedf5
507. Hosey MM, Needham DM. [Survivorship after COVID-19 ICU stay.](https://pubmed.ncbi.nlm.nih.gov/32669623/)  Nat Rev Dis Primers. 2020 Jul 15;6(1):60
508. Curci C, Pisano F, Bonacci E, Camozzi DM, Ceravolo C, Bergonzi R, De Franceschi S, Moro P, Guarnieri R, Ferrillo M, Negrini F, De Sire A. [Early rehabilitation in post-acute COVID-19 patients: data from an Italian COVID-19 rehabilitation unit and proposal of a treatment protocol. A cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/32667150/) Eur J Phys Rehabil Med. 2020 Jul 15
509. Kiekens C, Boldrini P, Andreoli A, Avesani R, Gamna F, Grandi M, Lombardi F, Lusuardi M, Molteni F, Perboni A, Negrini S. [Rehabilitation and respiratory management in the acute and early post-acute phase. "Instant paper from the field" on rehabilitation answers to the COVID-19 emergency.](https://pubmed.ncbi.nlm.nih.gov/32293817/) Eur J Phys Rehabil Med. 2020 Jun;56(3):323-326
510. Wade DT. [Rehabilitation after COVID-19: an evidence-based approach.](https://pubmed.ncbi.nlm.nih.gov/32518105/) Clin Med (Lond). 2020 Jul;20(4):359-365
511. Salawu A, Green A, Crooks MG, Brixey N, Ross DH, Sivan M. [A Proposal for Multidisciplinary Tele-Rehabilitation in the Assessment and Rehabilitation of COVID-19 Survivors.](https://pubmed.ncbi.nlm.nih.gov/32645876/) Int J Environ Res Public Health. 2020 Jul 7;17(13):4890
512. NICE Cautions Against Chronic Fatigue Syndrome Guidelines for COVID-19 <https://bit.ly/30vkHKT>
513. Retucci M, Aliberti S, Ceruti C, Santambrogio M, Tammaro S, Cuccarini F, Carai C, Grasselli G, Oneta
514. AM, Privitera E, Blasi F, Saderi L, Sotgiu G. [Prone and Lateral Positioning in Spontaneously Breathing Patients With COVID-19 Pneumonia Undergoing Noninvasive Helmet CPAP Treatment.](https://pubmed.ncbi.nlm.nih.gov/32679237/) Chest. 2020 Jul 15:S0012-3692(20)31888-2
515. Raoof S, Nava S, Carpati C, Hill NS. ["How I Do It: High Flow, Non-invasive ventilation and Awake (non-intubation) Proning in Covid-19 Patients with Respiratory Failure".](https://pubmed.ncbi.nlm.nih.gov/32681847/) Chest. 2020 Jul 15:S0012-3692(20)31910-3
516. Le MQ, Rosales R, Shapiro LT, Huang LY. [The Down Side of Prone Positioning: The Case of a COVID-19 Survivor.](https://pubmed.ncbi.nlm.nih.gov/32657818/) Am J Phys Med Rehabil. 2020 Jul 9:10.1097/PHM.0000000000001530
517. Vitacca M, Lazzeri M, Guffanti E, Frigerio P, D'Abrosca F, Gianola S, Carone M, Paneroni M, Ceriana P, Pasqua F, Banfi P, Gigliotti F, Simonelli C, Cirio S, Rossi V, Beccaluva CG, Retucci M, Santambrogio M, Lanza A, Gallo F, Fumagalli A, Mantero M, Castellini G, Calabrese M, Castellana G, Volpato E, Ciriello M, Garofano M, Clini E, Ambrosino N, Arir Associazione Riabilitatori dell'Insufficienza
518. Respiratoria Sip Società Italiana di Pneumologia Aifi Associazione Italiana Fisioterapisti And Sifir
519. Società Italiana di Fisioterapia E Riabilitazione OBOAAIPO. Monaldi [Italian suggestions for pulmonary rehabilitation in COVID-19 patients recovering from acute respiratory failure: results of a Delphi process.](https://pubmed.ncbi.nlm.nih.gov/32573175/) Arch Chest Dis. 2020 Jun 23;90(2)
520. Estraneo A, Ciapetti M, Gaudiosi C, Grippo A. [Not only pulmonary rehabilitation for critically ill patients with COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32676766/) J Neurol. 2020 Jul 16:1-3
521. Andrenelli E, Negrini F, De Sire A, Arienti C, Patrini M, Negrini S, Ceravolo MG; and the International Multiprofessional Steering Committee of Cochrane Rehabilitation RECOVER action. [Systematic rapid living review on rehabilitation needs due to Covid-19: update to May 31st 2020.](https://pubmed.ncbi.nlm.nih.gov/32539312/) Eur J Phys Rehabil Med. 2020 Jun 16.
522. Li Z, Zheng C, Duan C, et al. Rehabilitation needs of the first cohort of post-acute COVID-19 patients in Hubei, China. *Eur J Phys Rehabil Med*. 2020;56(3):339-344. doi:10.23736/S1973-9087.20.06298-X
523. Mcloughlin BC, Miles A, Webb TE, Knopp P, Eyres C, Fabbri A, Humphries F, Davis D. Eur [Functional and cognitive outcomes after COVID-19 delirium.](https://pubmed.ncbi.nlm.nih.gov/32666303/) Geriatr Med. 2020 Jul 14:1-6
524. Cipollaro L, Giordano L, Padulo J, Oliva F, Maffulli N. [Musculoskeletal symptoms in SARS-CoV-2 (COVID-19) patients.](https://pubmed.ncbi.nlm.nih.gov/32423471/) J Orthop Surg Res. 2020 May 18;15(1):178
525. Liu K, Chen Y, Lin R, Han K. [Clinical features of COVID-19 in elderly patients: A comparison with young and middle-aged patients.](https://pubmed.ncbi.nlm.nih.gov/32171866/) J Infect. 2020 Jun;80(6):e14-e18. doi: 10.1016/j.jinf.2020.03.005
526. Nakamura K, Nakano H, Naraba H, Mochizuki M, Hashimoto H. [Early rehabilitation with dedicated use of belt-type electrical muscle stimulation for severe COVID-19 patients.](https://pubmed.ncbi.nlm.nih.gov/32539827/) Version 2. Crit Care. 2020 Jun 15;24(1):342
527. Korupolu Radha, Francisco Gerard E, Levin Harvey, Needham Dale M Rehabilitation of critically Ill COVID-19 survivors. JintSoc Phys Rehab Med 2020; 3(2) 45-52, 10.4103/jisprm.jisprm\_8\_20
528. WHO Working Group on the Clinical Characterisation and Management of COVID-19 infection. [A minimal common outcome measure set for COVID-19 clinical research.](https://pubmed.ncbi.nlm.nih.gov/32539990/) Lancet Infect Dis. 2020
529. LaHue SC, James TC, Newman JC, Esmaili AM, Ormseth CH, Ely EW. [Collaborative Delirium Prevention in the Age of COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32277467/) J Am Geriatr Soc. 2020 May;68(5):947-949
530. Baig AM, Khaleeq A, Ali U, Syeda H. [Evidence of the COVID-19 Virus Targeting the CNS: Tissue Distribution, Host-Virus Interaction, and Proposed Neurotropic Mechanisms.](https://pubmed.ncbi.nlm.nih.gov/32167747/) ACS Chem Neurosci. 2020 Apr 1;11(7):995-998
531. Life Lines Team comprising. [Restricted family visiting in intensive care during COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32601012/) Intensive Crit Care Nurs. 2020 May 31:102896.
532. Damarla M, Zaeh S, Niedermeyer S, Merck S, Niranjan-Azadi A, Broderick B, Punjabi N. [Prone Positioning of Non-Intubated Patients with COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32551807/) Am J Respir Crit Care Med. 2020 Jun 17
533. Munshi L, Fralick M, Fan E. [Prone positioning in non-intubated patients with COVID-19: raising the bar.](https://pubmed.ncbi.nlm.nih.gov/32569584/) Lancet Respir Med. 2020 Jun 19:S2213-2600(20)30269-1.
534. Coppo A, Bellani G, Winterton D, Di Pierro M, Soria A, Faverio P, Cairo M, Mori S, Messinesi G, Contro E, Bonfanti P, Benini A, Valsecchi MG, Antolini L, Foti G. [Feasibility and physiological effects of prone positioning in non-intubated patients with acute respiratory failure due to COVID-19 (PRON-COVID): a prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/32569585/) Lancet Respir Med. 2020 Jun 19:S2213-2600(20)30268-X.
535. Morley JE, Kalantar-Zadeh K, Anker SD. J [COVID-19: a major cause of cachexia and sarcopenia?](https://pubmed.ncbi.nlm.nih.gov/32519505/) Cachexia Sarcopenia Muscle. 2020 Jun 9:10.1002/jcsm.12589.
536. Felten-Barentsz KM, van Oorsouw R, Klooster E, Koenders N, Driehuis F, Hulzebos EHJ, van der Schaaf M, Hoogeboom TJ, van der Wees [Recommendations for Hospital-Based Physical Therapists Managing Patients With COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32556323/) PJ. Phys Ther. 2020 Jun 18:pzaa114.
537. Keeney T. [Physical Therapy in the COVID-19 Pandemic: Forging a Paradigm Shift for Rehabilitation in Acute Care.](https://pubmed.ncbi.nlm.nih.gov/32453426/) Phys Ther. 2020 May 26:pzaa097.
538. Escalon MX, Herrera [Adapting to the Coronavirus Disease 2019 Pandemic in New York City.](https://pubmed.ncbi.nlm.nih.gov/32433329/) J. Am J Phys Med Rehabil. 2020 Jun;99(6):453-458
539. Wade DT. [Rehabilitation after COVID-19: an evidence-based approach.](https://pubmed.ncbi.nlm.nih.gov/32518105/) Clin Med (Lond). 2020 Jun 9:clinmed.2020-0353
540. de Sire A, Andrenelli E, Negrini F, Negrini S, Ceravolo MG. [Systematic rapid living review on rehabilitation needs due to Covid-19: update to April 30th 2020.](https://pubmed.ncbi.nlm.nih.gov/32408729/) Eur J Phys Rehabil Med. 2020 May 15.
541. Poussardin C, Oulehri W, Isner ME, Mertes PM, Collange O. [In-ICU COVID-19 patients' characteristics for an estimation in post-ICU rehabilitation care requirement.](https://pubmed.ncbi.nlm.nih.gov/32544435/) Anaesth Crit Care Pain Med. 2020 Jun 13:S2352-5568(20)30102-8
542. Zheng Z, Yao Z, Wu K, Zheng J. [Patient Follow-up after Discharge after COVID-19 Pneumonia: Considerations for Infectious Control.](https://pubmed.ncbi.nlm.nih.gov/32383776/) J Med Virol. 2020 May 8:10.1002/jmv.25994.
543. Zaga CJ, Pandian V, Brodsky MB, Wallace S, Cameron TS, Chao C, Orloff LA, Atkins NE, McGrath BA, Lazarus CL, Vogel AP, Brenner MJ. [Speech-Language Pathology Guidance for Tracheostomy During the COVID-19 Pandemic: An International Multidisciplinary Perspective.](https://pubmed.ncbi.nlm.nih.gov/32525695/) Am J Speech Lang Pathol. 2020 Jun 11:1-15
544. Lamb CR, Desai NR, Angel L, Chaddha U, Sachdeva A, Sethi S, Bencheqroun H, Mehta H, Akulian J, Argento AC, Diaz-Mendoza J, Musani A, Murgu S. [Use of Tracheostomy During the COVID-19 Pandemic: American College of Chest Physicians/American Association for Bronchology and Interventional Pulmonology/Association of Interventional Pulmonology Program Directors Expert Panel Report.](https://pubmed.ncbi.nlm.nih.gov/32512006/) Chest. 2020 Jun 6:S0012-3692(20)31639-1.
545. Fritz MA, Howell RJ, Brodsky MB, Suiter DM, Dhar SI, Rameau A, Richard T, Skelley M, Ashford JR, O'Rourke AK, Kuhn MA. [Moving Forward with Dysphagia Care: Implementing Strategies during the COVID-19 Pandemic and Beyond.](https://pubmed.ncbi.nlm.nih.gov/32519150/) Dysphagia. 2020 Jun 9:1-9
546. Brodsky MB, Gilbert RJ. [The Long-Term Effects of COVID-19 on Dysphagia Evaluation and Treatment.](https://pubmed.ncbi.nlm.nih.gov/32534801/) Arch Phys Med Rehabil. 2020 Jun 4:S0003-9993(20)30295-1
547. Thornton J. [Covid-19: Millions of women and children at risk as visits to essential services plummet.](https://pubmed.ncbi.nlm.nih.gov/32471817/?from_term=Thornton+J&from_cauthor_id=32376670&from_pos=2) BMJ. 2020 May 29;369:m2171
548. Smith SR, Jenq G, Claflin T, Magnant C, Haig AJ, Hurvitz E. [Proposed Workflow for Rehabilitation in a Field Hospital Setting During the COVID-19 Pandemic.](https://pubmed.ncbi.nlm.nih.gov/32412176/?from_term=Smith+SR&from_cauthor_id=32412176&from_pos=1) PM R. 2020 May 15
549. Sheehy LM. [Considerations for Postacute Rehabilitation for Survivors of COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32369030/?from_term=Sheehy+LM&from_cauthor_id=32369030&from_pos=1) JMIR Public Health Surveill. 2020 May 8;6(2):e19462
550. Falvey JR, Ferrante LE. [Flattening the disability curve: Rehabilitation and recovery after COVID-19 infection.](https://pubmed.ncbi.nlm.nih.gov/32457005/?from_term=Ferrante+LE%5BAuthor%5D&from_sort=date&from_pos=1)  Heart Lung. 2020 May 11:S0147-9563(20)30162-X
551. Klok FA, Boon GJAM, Barco S, Endres M, Geelhoed JJM, Knauss S, Rezek SA, Spruit MA, Vehreschild J, Siegerink B. [The Post-COVID-19 Functional Status (PCFS) Scale: a tool to measure functional status over time after COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32398306/?from_sort=date&from_term=Klok+FA&from_cauthor_id=32398306&from_pos=2) Eur Respir J. 2020 May 12:2001494
552. Xu Q, Wang T, Qin X, Jie Y, Zha L, Lu W. [Early awake prone position combined with high-flow nasal oxygen therapy in severe COVID-19: a case series.](https://pubmed.ncbi.nlm.nih.gov/32448330/?from_term=Early+Awake+Prone+Position+&from_sort=date&from_pos=1) Version 2. Crit Care. 2020 May 24;24(1):250.
553. McGrath BA, Ashby N, Birchall M, Dean P, Doherty C, Ferguson K, Gimblett J, Grocott M, Jacob T, Kerawala C, Macnaughton P, Magennis P, Moonesinghe R, Twose P, Wallace S, Higgs [Multidisciplinary guidance for safe tracheostomy care during the COVID-19 pandemic: the NHS National Patient Safety Improvement Programme (NatPatSIP).](https://pubmed.ncbi.nlm.nih.gov/32396986/?from_sort=date&from_term=McGrath+BA&from_cauthor_id=32396986&from_pos=4) A. Anaesthesia. 2020 May 12.
554. Schultz MJ, Pattnaik R, Dondorp AM. [Walking the line between benefit and harm from tracheostomy in COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32422179/?from_term=Schultz+MJ&from_sort=date&from_pos=3) Lancet Respir Med. 2020 May 15:S2213-2600(20)30231-9
555. Rogers JP, Chesney E, Oliver D, Pollak TA, McGuire P, Fusar-Poli P, Zandi MS, Lewis G, David AS. [Psychiatric and neuropsychiatric presentations associated with severe coronavirus infections: a systematic review and meta-analysis with comparison to the COVID-19 pandemic.](https://pubmed.ncbi.nlm.nih.gov/32437679/?from_sort=date&from_term=Rogers+JP&from_cauthor_id=32437679&from_pos=1) Lancet Psychiatry. 2020 May 18:S2215-0366(20)30203
556. Hao F, Tan W, Jiang L, Zhang L, Zhao X, Zou Y, Hu Y, Luo X, Jiang X, McIntyre RS, Tran B, Sun J, Zhang Z, Ho R, Ho C, Tam W. [Do psychiatric patients experience more psychiatric symptoms during COVID-19 pandemic and lockdown? A case-control study with service and research implications for immunopsychiatry.](https://pubmed.ncbi.nlm.nih.gov/32353518/?from_sort=date&from_term=Tam+W&from_cauthor_id=32353518&from_pos=3) Brain Behav Immun. 2020 Apr 27:S0889-1591(20)30626-7
557. APTA: Physiotherapy Management for COVID-19 in the Acute Hospital Setting. Journal of Physiotherapy. <http://www.apta.org/uploadedFiles/APTAorg/News_and_Publications/Latest_News/News_Items/2020/Physiotherapy_Guideline_COVID-19.pdf>
558. Lazerri et al. (2020) Respiratory physiotherapy in patients with COVID-19 infection in acute setting: a Position Paper of the Italian Association of Respiratory Physiotherapists (ARIR). <https://www.monaldi-archives.org/index.php/macd/article/view/1285/1003>
559. Vitacca et al. (2020). Role of Respiratory Rehab in the COVID-19 Crisis: Italian Position Paper. <https://ers.app.box.com/s/825awayvkl7hh670yxbmzfvcw5medm1d>
560. Ding L, Wang L, Ma W, He H. [Efficacy and safety of early prone positioning combined with HFNC or NIV in moderate to severe ARDS: a multi-center prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/32000806/?from_term=Ding+L&from_cauthor_id=32000806&from_pos=1) Crit Care. 2020 Jan 30;24(1):28
561. Pérez-Nieto OR, Guerrero-Gutiérrez MA, Deloya-Tomas E, Ñamendys-Silva SA. [Prone positioning combined with high-flow nasal cannula in severe noninfectious ARDS.](https://pubmed.ncbi.nlm.nih.gov/32204726/?from_term=P%C3%A9rez-Nieto+OR&from_cauthor_id=32204726&from_pos=1) Crit Care. 2020 Mar 23;24(1):114.
562. Ridgeway KJ (2020). Acute Care Physical Therapy and Novel Coronavirus/COVID-19. <https://docs.google.com/document/d/16UrBoE0YLikWaXgdUpmO01oO2NTo5fr-_qkN3EyDvr0/edit#heading=h.r2k0lj6c9j19>
563. Ziehr DR, Alladina J, Petri CR, Maley JH, Moskowitz A, Medoff BD, Hibbert KA, Thompson BT, Hardin CC. Am J [Respiratory Pathophysiology of Mechanically Ventilated Patients with COVID-19: A Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/32348678/?from_term=Ziehr+DR&from_cauthor_id=32348678&from_pos=1) Respir Crit Care Med. 2020 Apr 29
564. Caputo ND, Strayer RJ, Levitan R. [Early Self-Proning in Awake, Non-intubated Patients in the Emergency Department: A Single ED's Experience during the COVID-19 Pandemic.](https://pubmed.ncbi.nlm.nih.gov/32320506/?from_term=Caputo+ND&from_cauthor_id=32320506&from_pos=1) Acad Emerg Med. 2020 Apr 22.
565. Wainwright TW, Low M. [Beyond acute care: Why collaborative self-management should be an essential part of rehabilitation pathways for COVID-19 patients.](https://pubmed.ncbi.nlm.nih.gov/32350542/?from_term=Low+M&from_cauthor_id=32350542&from_pos=1) J Rehabil Med. 2020 Apr 29
566. Zhu C, Wu Y, Liu H, Ban Y, Ma X, Zhang Z. [Early pulmonary rehabilitation for SARS-CoV-2 pneumonia: Experience from an intensive care unit outside of the Hubei province in China.](https://pubmed.ncbi.nlm.nih.gov/32312554/?from_term=Early+Pulmonary+Rehabilitation+for+SARS-CoV-2+Pneumonia&from_pos=1) Heart Lung. 2020 Apr 16:S0147-9563(20)30141-2
567. Corn J, Malanga E, Pruitt K. [What to do When Pulmonary Rehabilitation (PR) is Unavailable.](https://pubmed.ncbi.nlm.nih.gov/32239965/?from_term=Corn+J&from_cauthor_id=32239965&from_pos=3) Am J Respir Crit Care Med. 2020 Apr 2
568. Hart JL, Turnbull AE, Oppenheim IM, Courtright KR. [Family-Centered Care During the COVID-19 Era.](https://pubmed.ncbi.nlm.nih.gov/32333961/?from_term=Hart+JL&from_cauthor_id=32333961&from_pos=3) J Pain Symptom Manage. 2020 Apr 22:S0885-3924(20)30208-6.
569. Philips M et al (2020). Rehabilitation in the wake of Covid-19-A phoenix from the ashes. <https://www.bsrm.org.uk/downloads/covid-19bsrmissue1-published-27-4-2020.pdf>
570. Stam HJ, Stucki G, Bickenbach J. [Covid-19 and Post Intensive Care Syndrome: A Call for Action.](https://pubmed.ncbi.nlm.nih.gov/32286675/?from_term=Stam+HJ&from_cauthor_id=32286675&from_pos=1) J Rehabil Med. 2020 Apr 15;52(4):jrm00044
571. Kotfis K, Williams Roberson S, Wilson JE, Dabrowski W, Pun BT, Ely EW. [COVID-19: ICU delirium management during SARS-CoV-2 pandemic.](https://pubmed.ncbi.nlm.nih.gov/32345343/?from_term=Kotfis+K&from_cauthor_id=32345343&from_pos=1) Crit Care. 2020 Apr 28;24(1):176
572. Chartered Society of Physiotherapy (2020). Rehabilitation and Covid-19 - CSP policy statement. <https://www.csp.org.uk/professional-clinical/improvement-innovation/community-rehabilitation/rehab-covid-19-policy-statement>
573. Levy J,Léotard A, Lawrence C, Paquereau J, Bensmail D, Annane D, Delord V, Lofaso F, Bessis S, Prigent H. Ann [A model for a ventilator-weaning and early rehabilitation unit to deal with post-ICU impairments with severe COVID-19.](https://pubmed.ncbi.nlm.nih.gov/32315800/?from_term=L%C3%A9otard+A&from_cauthor_id=32315800&from_pos=1) Phys Rehabil Med. 2020 Apr 18:S1877-0657(20)30077-4
574. Pedersini P, Corbellini C, Villafañe JH. [Italian Physical Therapists' Response to the Novel COVID-19 Emergency.](https://pubmed.ncbi.nlm.nih.gov/32280973/?from_term=Pedersini+P&from_cauthor_id=32280973&from_pos=1)  Phys Ther. 2020 Apr 13:pzaa060
575. McNeary L, Maltser S, Verduzco-Gutierrez M. [Navigating Coronavirus Disease 2019 (Covid-19) in Physiatry: A CAN Report for Inpatient Rehabilitation Facilities.](https://pubmed.ncbi.nlm.nih.gov/32196983/?from_term=McNeary+L&from_cauthor_id=32196983&from_pos=1) PM R. 2020 May;12(5):512-515
576. Falvey JR, Krafft C, Kornetti D. [The Essential Role of Home- and Community-Based Physical Therapists During the COVID-19 Pandemic.](https://pubmed.ncbi.nlm.nih.gov/32302404/?from_term=Falvey+JR&from_cauthor_id=32302404&from_pos=1) Phys Ther. 2020 Apr 17:pzaa069.
577. Simpson R, Robinson L. [Rehabilitation following critical illness in people with COVID-19 infection.](https://pubmed.ncbi.nlm.nih.gov/32282359/?from_term=Simpson+R&from_cauthor_id=32282359&from_pos=4) Am J Phys Med Rehabil. 2020 Apr 10
578. Brugliera L, Spina A, Castellazzi P, Cimino P, Tettamanti A, Houdayer E, Arcuri P, Alemanno F, Mortini P, Iannaccone S. [Rehabilitation of COVID-19 patients.](https://pubmed.ncbi.nlm.nih.gov/32286674/?from_term=Brugliera+L&from_cauthor_id=32286674&from_pos=1) J Rehabil Med. 2020 Apr 15;52(4):jrm00046.
579. Smith JM, Lee AC, Zeleznik H, Coffey Scott JP, Fatima A, Needham DM, Ohtake PJ. [Home and Community-Based Physical Therapist Management of Adults With Post-Intensive Care Syndrome.](https://pubmed.ncbi.nlm.nih.gov/32280993/?from_term=Smith+JM&from_cauthor_id=32280993&from_pos=1) Phys Ther. 2020 Apr 13:pzaa059.

# Sedation and Delirium

## Research studies

1. Kress JP, Pohlman AS, O’Connor MF, Hall JB: [Daily interruption of sedative infusions in critically ill patients undergoing mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/10816184). N Engl J Med. 2000;342:1471-1477. [free full text](http://www.nejm.org/doi/full/10.1056/NEJM200005183422002)
2. Ely, E.W., et al., [Delirium in mechanically ventilated patients: validity and reliability of the confusion assessment method for the intensive care unit (CAM-ICU)](http://www.ncbi.nlm.nih.gov/pubmed/11730446). JAMA, 2001. 286(21): p. 2703-10. [free full text](http://jama.ama-assn.org/content/286/21/2703.long)
3. Ely, E.W., et al., [Monitoring sedation status over time in ICU patients: reliability and validity of the Richmond Agitation-Sedation Scale (RASS)](http://www.ncbi.nlm.nih.gov/pubmed/12799407). JAMA, 2003. 289(22): p. 2983-91. [free full text](http://jama.ama-assn.org/content/289/22/2983.long)
4. Ely EW, Margolin R, Francis J, May L, Truman B, Dittus R, Speroff T, Gautam S, Bernard GR, Inouye SK. [Evaluation of delirium in critically ill patients: validation of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU).](http://www.ncbi.nlm.nih.gov/pubmed/11445689) Crit Care Med. 2001 Jul;29(7):1370-9
5. Kress JP, Gehlbach B, Pliskin MLN, Pohlman AS, Hall J: [The long-term psychologicaleffects of daily sedative interruption on critically ill patients](http://www.ncbi.nlm.nih.gov/pubmed/14525802). Am J Respir Crit Care Med 2003 Vol 168. pp 1457–1461 [free full text](http://ajrccm.atsjournals.org/cgi/content/full/168/12/1457)
6. Ely EW, Shintani A, Truman B, Speroff T, Gordon SM, Harrell FE Jr, Inouye SK, Bernard GR, Dittus RS. [Delirium as a predictor of mortality in mechanically ventilated patients in the intensive care unit](http://www.ncbi.nlm.nih.gov/pubmed/15082703). JAMA. 2004 Apr 14;291(14):1753-62. [free full text](http://jama.ama-assn.org/content/291/14/1753.long)
7. McNicoll L, Pisani MA, Zhang Y, Ely EW, Siegel MD, Inouye SK. [Delirium in the intensive care unit: occurrence and clinical course in older patients.](http://www.ncbi.nlm.nih.gov/pubmed/12752832) J Am Geriatr Soc. 2003 May;51(5):591-8
8. Pandharipande P, Shintani A, Peterson J, Pun BT, Wilkinson GR, Dittus RS, Bernard GR, Ely EW. [Lorazepam is an independent risk factor for transitioning to delirium in intensive care unit patients.](http://www.ncbi.nlm.nih.gov/pubmed/16394685) Anesthesiology. 2006 Jan;104(1):21-6
9. Peterson JF, Pun BT, Dittus RS, Thomason JW, Jackson JC, Shintani AK, Ely EW. Delirium and its motoric subtypes: a study of 614 critically ill patients. J Am Geriatr Soc. 2006 Mar;54(3):479-84
10. Pandharipande PP, Pun BT, Herr DL, Maze M, Girard TD, Miller RR, Shintani AK, Thompson JL, Jackson JC, Deppen SA, Stiles RA, Dittus RS, Bernard GR, Ely EW. [Effect of sedation with dexmedetomidine vs lorazepam on acute brain dysfunction in mechanically ventilated patients: the MENDS randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/18073360) JAMA. 2007 Dec 12;298(22):2644-53
11. Girard TD,Kress JP, Fuchs BD: [Efficacy and safety of a paired sedation and ventilator weaning protocol for mechanically ventilated patients in intensive care (a wakening and breathing controlled trial): a randomised controlled trial](http://www.ncbi.nlm.nih.gov/pubmed/18191684). Lancet 2008 371:126–134.
12. Robinson BR, Mueller EW, Henson K et al. [An analgesia-delirium-sedation protocol for critically ill trauma patients reduces ventilator days and hospital length of stay](http://www.ncbi.nlm.nih.gov/pubmed/18784563). J Trauma 2008; 65: 517–526
13. Pisani MA, Kong SY, Kasl SV, Murphy TE, Araujo KL, Van Ness PH. [Days of delirium are associated with 1-year mortality in an older intensive care unit population](http://www.ncbi.nlm.nih.gov/pubmed/19745202). Am J Respir Crit Care Med. 2009 Dec 1;180(11):1092-7. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784414/?tool=pubmed)
14. Strøm T, Martinussen T, Toft P. [A protocol of no sedation for critically ill patients receiving mechanical ventilation: a randomised trial](http://www.ncbi.nlm.nih.gov/pubmed/20116842). Lancet. 2010 Feb 6;375(9713):475-80.
15. Girard TD, Jackson JC, Pandharipande PP et al. [Delirium as a predictor of long-term cognitive impairments in survivors of critical illness](http://www.ncbi.nlm.nih.gov/pubmed/20473145). Crit Care Med 2010; 38:1513-1520
16. Jackson JC, Girard TD, Gordon SM et al. [Long-term cognitive and psychological outcomes in the Awakening and Breathing controlled Trial](http://www.ncbi.nlm.nih.gov/pubmed/20299535). AJRCCM 2010; 182:183-191
17. Skrobik Y, Ahern S, Leblanc M et al. [Protocolized intensive care unit management of analgesia, sedation, and delirium improves analgesia and subsyndromal delirium rates.](http://journals.lww.com/anesthesia-analgesia/Fulltext/2010/08000/Protocolized_Intensive_Care_Unit_Management_of.32.aspx) Anesth Analg 2010; 111: 451–463
18. Hager DN, Dinglas VD, Subhas S, Rowden AM, Neufeld KJ, Bienvenu OJ, Touradji P, Colantuoni E, Reddy DRS, Brower RG, Needham DM.  [Reducing deep sedation and delirium in acute lung injury patients:  a quality improvement project.](http://www.ncbi.nlm.nih.gov/pubmed/23507716)  Critical Care Medicine. 2013 41(6):1435-42.
19. Kamdar BB, King LM, Collop NA, Sakamuri S, Colantuoni E, Neufeld KJ, Bienvenu OJ, Rowden AM, Touradji P, Brower RG, Needham DM. [The effect of a quality improvement intervention on perceived sleep quality and cognition in a medical ICU.](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3579000/?tool=myncbi) Crit Care Med. 2013 Mar;41(3):800-9
20. Law TJ, Leistikow NA, Hoofring L, Krumm SK, Neufeld KJ, Needham DM. [A survey of nurses' perceptions of the Intensive Care Delirium Screening Checklist](http://www.ncbi.nlm.nih.gov/pubmed/23342934). Dynamics. 2012 Winter;23(4):18-24.
21. Kamdar BB, Yang J, King LM, Neufeld KJ, Bienvenu OJ, Rowden AM, Brower RG, Collop NA, Needham DM. [Developing, Implementing, and Evaluating a Multifaceted Quality Improvement Intervention to Promote Sleep in an ICU](http://www.ncbi.nlm.nih.gov/pubmed/24270169). Am J Med Qual. 2013 Nov 22. [Epub ahead of print]
22. Shehabi Y, Chan L, Kadiman S, Alias A, Ismail WN, Tan MA, Khoo TM, Ali SB, Saman MA, Shaltut A, Tan CC, Yong CY, Bailey M, Sedation Practice in Intensive Care Evaluation (SPICE) Study Group investigators. [Sedation depth and long-term mortality in mechanically ventilated critically ill adults: a prospective longitudinal multicentre cohort study.](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3625407/?tool=myncbi) Intensive Care Med. 2013 May;39(5):910-8
23. Page VJ, Ely EW, Gates S, Zhao XB, Alce T, Shintani A, Jackson J, Perkins GD, McAuley DF. [Effect of intravenous haloperidol on the duration of delirium and coma in critically ill patients (Hope-ICU): a randomised, double-blind, placebo-controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/24461612) Lancet Respir Med. 2013 Sep;1(7):515-23
24. Carrothers KM, Barr J, Spurlock B, Ridgely MS, Damberg CL, Ely EW. [Contextual issues influencing implementation and outcomes associated with an integrated approach to managing pain, agitation, and delirium in adult ICUs](http://www.ncbi.nlm.nih.gov/pubmed/23989090). Crit Care Med. 2013 Sep;41(9 Suppl 1):S128-35
25. Wilcox ME, Brummel NE, Archer K, Ely EW, Jackson JC, Hopkins RO. [Cognitive dysfunction in ICU patients: risk factors, predictors, and rehabilitation interventions.](http://www.ncbi.nlm.nih.gov/pubmed/23989098) Crit Care Med. 2013 Sep;41(9 Suppl 1):S81-98
26. Balas MC, Vasilevskis EE, Olsen KM, Schmid KK, Shostrom V, Cohen MZ, Peitz G, Gannon DE, Sisson J, Sullivan J, Stothert JC, Lazure J, Nuss SL, Jawa RS, Freihaut F, Ely EW, Burke WJ. [Effectiveness and safety of the awakening and breathing coordination, delirium monitoring/management, and early exercise/mobility bundle](http://www.ncbi.nlm.nih.gov/pubmed/24394627). Crit Care Med. 2014 May;42(5):1024-36.
27. Brummel NE, Jackson JC, Pandharipande PP, Thompson JL, Shintani AK, Dittus RS, Gill TM, Bernard GR, Ely EW, Girard TD. [Delirium in the ICU and subsequent long-term disability among survivors of mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/24158172). Crit Care Med. 2014 Feb;42(2):369-77.
28. Bryczkowski SB, Lopreiato MC, Yonclas PP, Sacca JJ, Mosenthal AC. [Delirium prevention program in the surgical intensive care unit improved the outcomes of older adults](http://www). J Surg Res. 2014 Jul;190(1):280-8.
29. Patel J, Baldwin J, Bunting P, Laha S. [The effect of a multicomponent multidisciplinary bundle of interventions on sleep and delirium in medical and surgical intensive care patients](http://www.ncbi.nlm.nih.gov/pubmed/24813132). Anaesthesia. 2014 Jun;69(6):540-9.
30. Kamdar BB, Kamdar BB, Needham DM. [Bundling sleep promotion with delirium prevention: ready for prime time?](http://www.ncbi.nlm.nih.gov/pubmed/24813131) Anaesthesia. 2014 Jun;69(6):527-31.
31. Kamdar BB, Niessen T, Colantuoni E, King LM, Neufeld KJ, Bienvenu OJ, Rowden AM, Collop NA, Needham DM. [Delirium Transitions in the Medical ICU: Exploring the Role of Sleep Quality and Other Factors.](http://www.ncbi.nlm.nih.gov/pubm) Crit Care Med. 2014 Sep 16.
32. O'Regan NA1, Ryan DJ, Boland E, Connolly W, McGlade C, Leonard M, Clare J, Eustace JA, Meagher D, Timmons S. [Attention! A good bedside test for delirium?](http://www.ncbi.nlm.nih.gov/pubmed/24569688) J Neurol Neurosurg Psychiatry. 2014 Oct;85(10):1122-31.
33. Schreiber MP, Colantuoni E, Bienvenu OJ, Neufeld KJ, Chen KF, Shanholtz C, Mendez-Tellez PA, Needham DM. [Corticosteroids and transition to delirium in patients with acute lung injury.](http://www.ncbi.nlm.nih.gov/pubmed/24589640) Crit Care Med. 2014 Jun;42(6):1480-6
34. Wunsch H, Christiansen CF, Johansen MB, Olsen M, Ali N, Angus DC, Sørensen HT. [Psychiatric diagnoses and psychoactive medication use among nonsurgical critically ill patients receiving mechanical ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/24643603) JAMA. 2014 Mar 19;311(11):1133-42
35. Kamdar BB, Niessen T, Colantuoni E, King LM, Neufeld KJ, Bienvenu OJ, Rowden AM, Collop NA, Needham DM. [Delirium Transitions in the Medical ICU: Exploring the Role of Sleep Quality and Other Factors\*.](http://www.ncbi.nlm.nih.gov/pubmed/25230376) Crit Care Med. 2015 Jan;43(1):135-41.
36. Adams CL, Scruth EA, Andrade C, Maynard S, Snow K, Olson TL, Ingerson SD, Duffy BA, Cheng E. [Implementing clinical practice guidelines for screening and detection of delirium in a 21-hospital system in northern california: real challenges in performance improvement.](http://www.ncbi.nlm.nih.gov/pubmed/25469438) Clin Nurse Spec. 2015 Jan-Feb;29(1):29-37.
37. Brown CH 4th, Dowdy D. [Risk factors for delirium: are systematic reviews enough?\*.](http://www.ncbi.nlm.nih.gov/pubmed/25514709) Crit Care Med. 2015 Jan;43(1):232-3.
38. Drews T, Franck M, Radtke FM, Weiss B, Krampe H, Brockhaus WR, Winterer G, Spies CD. [Postoperative delirium is an independent risk factor for posttraumatic stress disorder in the elderly patient: a prospective observational study.](http://www.ncbi.nlm.nih.gov/pubmed/24979586) Eur J Anaesthesiol. 2015 Mar;32(3):147-51.
39. Kram BL, Kram SJ, Brooks KR. [Implications of atypical antipsychotic prescribing in the intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/25887805) J Crit Care. 2015 Aug;30(4):814-8.
40. Balzer F, Weiß B, Kumpf O, Treskatsch S, Spies C, Wernecke KD, Krannich A, Kastrup M. [Early deep sedation is associated with decreased in-hospital and two-year follow-up survival.](http://www.ncbi.nlm.nih.gov/pubmed/25928417) Crit Care. 2015 Apr 28;19:197.
41. Neufeld KJ, Leoutsakos JM, Oh E, Sieber FE, Chandra A, Ghosh A, Schretlen DJ, Needham DM. [Long-Term Outcomes of Older Adults with and Without Delirium Immediately After Recovery from General Anesthesia for Surgery.](http://www.ncbi.nlm.nih.gov/pubmed/25912784) Am J Geriatr Psychiatry. 2015 Mar 27.
42. Zaal IJ, Devlin JW, Hazelbag M, Klein Klouwenberg PM, van der Kooi AW, Ong DS, Cremer OL, Groenwold RH, Slooter AJ. [Benzodiazepine-associated delirium in critically ill adults.](http://www.ncbi.nlm.nih.gov/pubmed/26404392) Intensive Care Med. 2015 Sep 24
43. Gleason LJ, Schmitt EM, Kosar CM, Tabloski P, Saczynski JS, Robinson T, Cooper Z, Rogers SO Jr, Jones RN, Marcantonio ER, Inouye SK. [Effect of Delirium and Other Major Complications on Outcomes After Elective Surgery in Older Adults.](http://www.ncbi.nlm.nih.gov/pubmed/26352694) JAMA Surg. 2015 Sep 9:1-7.
44. Smulter N, Lingehall HC, Gustafson Y, Olofsson B, Engström KG. [Validation of the Confusion Assessment Method in Detecting Postoperative Delirium in Cardiac Surgery Patients.](http://www.ncbi.nlm.nih.gov/pubmed/26523005) Am J Crit Care. 2015 Nov;24(6):480-7.
45. Card E, Pandharipande P, Tomes C, Lee C, Wood J, Nelson D, Graves A, Shintani A, Ely EW, Hughes C. [Emergence from general anaesthesia and evolution of delirium signs in the post-anaesthesia care unit.](http://www.ncbi.nlm.nih.gov/pubmed/25540068) Br J Anaesth. 2015 Sep;115(3):411-7.
46. Wilson JE, Brummel NE, Stollings JL. [Benzodiazepine-associated delirium dosing strategy or cumulative dose?](http://www.ncbi.nlm.nih.gov/pubmed/26493385) Intensive Care Med. 2015 Oct 22.
47. Helle Svenningsen, Ingrid Egerod, Doris Christensen, Else Kirstine Tønnesen, Morten Frydenberg, Poul Videbech [Symptoms of Posttraumatic Stress after Intensive Care Delirium](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4628708/). Biomed Res Int. 2015; 2015: 876947.
48. Terry KJ, Anger KE, Szumita PM. [Prospective evaluation of inappropriate unable-to-assess CAM-ICU documentations of critically ill adult patients.](http://www.ncbi.nlm.nih.gov/pubmed/26613043) J Intensive Care. 2015 Nov 26;3:52.
49. Bullock et al. [Delirium in critically ill military patients following trauma: A cohort analysis](http://inc.sagepub.com/content/early/2015/10/01/1751143715605850.full.pdf+html). Journal of the Intensive Care Society 2015 Oct
50. Al-Qadheeb NS, Skrobik Y, Schumaker G, Pacheco MN, Roberts RJ, Ruthazer RR, Devlin JW. [Preventing ICU Subsyndromal Delirium Conversion to Delirium With Low-Dose IV Haloperidol: A Double-Blind, Placebo-Controlled Pilot Study.](http://www.ncbi.nlm.nih.gov/pubmed/26540397) Crit Care Med. 2015 Nov 4
51. Rivosecchi RM, Kane-Gill SL, Svec S, Campbell S, Smithburger PL. [The implementation of a nonpharmacologic protocol to prevent intensive care delirium.](http://www.ncbi.nlm.nih.gov/pubmed/26596509) J Crit Care. 2015 Oct 17
52. Moon KJ, Lee SM. [The effects of a tailored intensive care unit delirium prevention protocol: A randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/26032729) Int J Nurs Stud. 2015 Sep;52(9):1423-32.
53. Frenette AJ, Bebawi ER, Deslauriers LC, Tessier AA, Perreault MM, Delisle MS, Bertrand JC, Desjardins M, Rico P, Khwaja K, Burry LD, Bernard F, Williamson DR. [Validation and comparison of CAM-ICU and ICDSC in mild and moderate traumatic brain injury patients.](http://www.ncbi.nlm.nih.gov/pubmed/26170098) Intensive Care Med. 2016 Jan;42(1):122-3
54. Laerkner E, Stroem T, Toft P. [No-sedation during mechanical ventilation: impact on patient's consciousness, nursing workload and costs.](http://www.ncbi.nlm.nih.gov/pubmed/25892407) Nurs Crit Care. 2016 Jan;21(1):28-35.
55. Needham DM, Colantuoni E, Dinglas VD, Hough CL, Wozniak AW, Jackson JC, Morris PE, Mendez-Tellez PA, Ely EW, Hopkins RO. [Rosuvastatin versus placebo for delirium in intensive care and subsequent cognitive impairment in patients with sepsis-associated acute respiratory distress syndrome: an ancillary study to a randomised controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/26832963) Lancet Respir Med. 2016 Jan 28.
56. Nishimura K, Yokoyama K, Yamauchi N, Koizumi M, Harasawa N, Yasuda T, Mimura C, Igita H, Suzuki E, Uchiide Y, Seino Y, Nomura M, Yamazaki K, Ishigooka J; TMAD investigators. [Sensitivity and specificity of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU) and the Intensive Care Delirium Screening Checklist (ICDSC) for detecting post-cardiac surgery delirium: A single-center study in Japan.](http://www.ncbi.nlm.nih.gov/pubmed/26685069) Heart Lung. 2016 Jan-Feb;45(1):15-20.
57. Boesen HC, Andersen JH, Bendtsen AO, Jennum PJ. [Sleep and delirium in unsedated patients in the intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/26190149) Acta Anaesthesiol Scand. 2016 Jan;60(1):59-68.
58. Vet NJ, de Wildt SN, Verlaat CW, Knibbe CA, Mooij MG, van Woensel JB, van Rosmalen J, Tibboel D, de Hoog M. [A randomized controlled trial of daily sedation interruption in critically ill children.](http://www.ncbi.nlm.nih.gov/pubmed/26602782) Intensive Care Med. 2016 Feb;42(2):233-44
59. Djaiani G, Silverton N, Fedorko L, Carroll J, Styra R, Rao V, Katznelson R. [Dexmedetomidine versus Propofol Sedation Reduces Delirium after Cardiac Surgery: A Randomized Controlled Trial.](http://www.ncbi.nlm.nih.gov/pubmed/26575144) Anesthesiology. 2016 Feb;124(2):362-8
60. Karadas C, Ozdemir L. [The effect of range of motion exercises on delirium prevention among patients aged 65 and over in intensive care units.](http://www.ncbi.nlm.nih.gov/pubmed/26763172) Geriatr Nurs. 2016 Jan 4. pii: S0197-4572(15)00430-9.
61. DiLibero J, O'Donoghue SC, DeSanto-Madeya S, Felix J, Ninobla A, Woods A. [An Innovative Approach to Improving the Accuracy of Delirium Assessments Using the Confusion Assessment Method for the Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/26836598) Dimens Crit Care Nurs. 2016 Mar-Apr;35(2):74-80
62. Scales DC, Fischer HD, Li P, Bierman AS, Fernandes O, Mamdani M, Rochon P, Urbach DR, Bell CM. [Unintentional Continuation of Medications Intended for Acute Illness After Hospital Discharge: A Population-Based Cohort Study.](http://www.ncbi.nlm.nih.gov/pubmed/26369941) J Gen Intern Med. 2016 Feb;31(2):196-202.
63. Reade MC, Eastwood GM, Bellomo R, Bailey M, Bersten A, Cheung B, Davies A, Delaney A, Ghosh A, van Haren F, Harley N, Knight D, McGuiness S, Mulder J, O'Donoghue S, Simpson N, Young P; DahLIA Investigators and the Australian and New Zealand Intensive Care Society Clinical Trials Group. [Effect of Dexmedetomidine Added to Standard Care on Ventilator-Free Time in Patients With Agitated Delirium: A Randomized Clinical Trial.](http://www.ncbi.nlm.nih.gov/pubmed/26975647) JAMA. 2016 Mar 15.
64. Jeffs KJ, Berlowitz DJ, Grant S, Lawlor V, Graco M, de Morton NA, Savige JA, Lim WK. [An enhanced exercise and cognitive programme does not appear to reduce incident delirium in hospitalised patients: a randomised controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/23794558) BMJ Open. 2013 Jun 20;3(6).
65. Mailhot, Tanya et al. [Cerebral oximetry as a biomarker of postoperative delirium in cardiac surgery patients](http://www.jccjournal.org/article/S0883-9441%2816%2930011-9/abstract). Journal of Critical Care , Volume 34 , 17 - 23
66. Marshall J, Herzig SJ, Howell MD, Le SH, Mathew C, Kats JS, Stevens JP. [Antipsychotic utilization in the intensive care unit and in transitions of care.](http://www.ncbi.nlm.nih.gov/pubmed/26818629) J Crit Care. 2016 Jun;33:119-24.
67. Trogrlić Z, Ista E, Ponssen HH, Schoonderbeek JF, Schreiner F, Verbrugge SJ, Dijkstra A, Bakker J, van der Jagt M. [Attitudes, knowledge and practices concerning delirium: a survey among intensive care unit professionals.](http://www.ncbi.nlm.nih.gov/pubmed/26996876) Nurs Crit Care. 2016 Mar 20.
68. Mehta S, Meade M, Burry L, Mallick R, Katsios C, Fergusson D, Dodek P, Burns K, Herridge M, Devlin JW, Tanios M, Fowler R, Jacka M, Skrobik Y, Olafson K, Cook D; SLEAP Investigators and the Canadian Critical Care Trials Group. [Variation in diurnal sedation in mechanically ventilated patients who are managed with a sedation protocol alone or a sedation protocol and daily interruption.](https://www.ncbi.nlm.nih.gov/pubmed/27480314) Crit Care. 2016 Aug 1;20(1):233.
69. Manojlovich M, Ratz D, Miller MA, Krein SL. [Use of Daily Interruption of Sedation and Early Mobility in US Hospitals.](https://www.ncbi.nlm.nih.gov/pubmed/27482874) J Nurs Care Qual. 2016 Aug 1
70. Hendry K, Quinn TJ, Evans J, Scortichini V, Miller H, Burns J, Cunnington A, Stott DJ. Evaluation of delirium screening tools in geriatric medical inpatients: a diagnostic test accuracy study. Age Ageing. 2016 Aug 8
71. Jeon K, Jeong BH, Ko MG, Nam J, Yoo H, Chung CR, Suh GY. [Impact of delirium on weaning from mechanical ventilation in medical patients.](http://www.ncbi.nlm.nih.gov/pubmed/26534738) Respirology. 2016 Feb;21(2):313-20
72. Flurie RW, Gonzales JP, Tata AL, Millstein LS, Gulati M. Hospital delirium treatment: Continuation of antipsychotic therapy from the intensive care unit to discharge. [Am J Health Syst Pharm.](http://www.ncbi.nlm.nih.gov/pubmed/?term=Flurie%20RW%5BAuthor%5D&cauthor=true&cauthor_uid=26582298%22%20%5Co%20%22American%20journal%20of%20health-system%20pharmacy%20:%20AJHP%20:%20official%20journal%20of%20the%20American%20Society%20of%20Health-System%20Pharmacists.) 2015 Dec 1;72(23 Suppl 3):S133-9.
73. Hazelbag CM, Zaal IJ, Devlin JW, Gatto NM, Hoes AW, Slooter AJ, Groenwold RH. [An Application of Inverse Probability Weighting Estimation of Marginal Structural Models of a Continuous Exposure: Benzodiazepines and Delirium.](http://www.ncbi.nlm.nih.gov/pubmed/26134348) Epidemiology. 2015 Sep;26(5):e52-3
74. Faust AC, Rajan P, Sheperd LA, Alvarez CA, McCorstin P, Doebele RL. [Impact of an Analgesia-Based Sedation Protocol on Mechanically Ventilated Patients in a Medical Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/27644010) Anesth Analg. 2016 Oct;123(4):903-9.
75. Oh SH, Park EJ, Jin Y, Piao J, Lee SM. [Automatic delirium prediction system in a Korean surgical intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/24165109) Nurs Crit Care. 2014 Nov;19(6):281-91.
76. Karnatovskaia LV, Johnson MM, Dockter TJ, Gajic O. [Perspectives of physicians and nurses on identifying and treating psychological distress of the critically ill.](https://www.ncbi.nlm.nih.gov/pubmed/27676170) J Crit Care. 2016 Sep 14;37:106-111.
77. Mohammadi M, Ahmadi M, Khalili H, Cheraghchi H, Arbabi M. [Cyproheptadine for the Prevention of Postoperative Delirium: A Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/26706862) Ann Pharmacother. 2016 Mar;50(3):180-7.
78. Tieges Z, Stíobhairt A, Scott K, Suchorab K, Weir A, Parks S, Shenkin S, MacLullich A. [Development of a smartphone application for the objective detection of attentional deficits in delirium.](https://www.ncbi.nlm.nih.gov/pubmed/25742756) Int Psychogeriatr. 2015 Aug;27(8):1251-62.
79. Duprey MS, Al-Qadheeb N, Roberts R, Skrobik Y, Schumaker G, Devlin JW. [The use of low-dose IV haloperidol is not associated with QTc prolongation: post hoc analysis of a randomized, placebo-controlled trial](https://www.ncbi.nlm.nih.gov/pubmed/27637718). [Intensive Care Med.](https://www.ncbi.nlm.nih.gov/pubmed/27637718) 2016 Nov;42(11):1818-1819. Epub 2016 Sep 16.
80. Tomichek JE, Stollings JL, Pandharipande PP, Chandrasekhar R, Ely EW, Girard TD. [Antipsychotic prescribing patterns during and after critical illness: a prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/27881149) Crit Care. 2016 Nov 24;20(1):378.
81. Agar MR, Lawlor PG, Quinn S, Draper B, Caplan GA, Rowett D, Sanderson C, Hardy J, Le B, Eckermann S, McCaffrey N, Devilee L, Fazekas B, Hill M, Currow DC. [Efficacy of Oral Risperidone, Haloperidol, or Placebo for Symptoms of Delirium Among Patients in Palliative Care: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/27918778) JAMA Intern Med. 2016 Dec 5.
82. Álvarez EA, Garrido MA, Tobar EA, Prieto SA, Vergara SO, Briceño CD, González FJ. [Occupational therapy for delirium management in elderly patients without mechanical ventilation in an intensive care unit: A pilot randomized clinical trial.](https://www.ncbi.nlm.nih.gov/pubmed/27660922) J Crit Care. 2016 Sep 10;37:85-90.
83. Smith CD, Grami P. [Feasibility and Effectiveness of a Delirium Prevention Bundle in Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/27965224) Am J Crit Care. 2016 Dec;26(1):19-27.
84. D'Angelo RG, Rincavage M, Tata AL, Millstein LS, Gulati MS, Flurie RW, Gonzales JP. [Impact of an Antipsychotic Discontinuation Bundle During Transitions of Care in Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/28049388) J Intensive Care Med. 2016 Jan 1
85. Yamashita K, Takami A, Wakayama S, Makino M, Takeyama Y. [Effectiveness of new sedation and rehabilitation methods for critically ill patients receiving mechanical ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/28210060) J Phys Ther Sci. 2017 Jan;29(1):138-143.
86. Martinez FE, Anstey M, Ford A, Roberts B, Hardie M, Palmer R, Choo L, Hillman D, Hensley M, Kelty E, Murray K, Singh B, Wibrow B. [Prophylactic Melatonin for Delirium in Intensive Care (Pro-MEDIC): study protocol for a randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28061873) Trials. 2017 Jan 6;18(1):4. doi: 10.1186/s13063-016-1751-0.
87. Khan BA, Perkins AJ, Gao S, Hui SL, Campbell NL, Farber MO, Chlan LL, Boustani MA. [The Confusion Assessment Method for the ICU-7 Delirium Severity Scale: A Novel Delirium Severity Instrument for Use in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/28263192) Crit Care Med. 2017 Mar 3
88. Traube C, Silver G, Reeder RW, Doyle H, Hegel E, Wolfe HA, Schneller C, Chung MG, Dervan LA, DiGennaro JL, Buttram SD, Kudchadkar SR, Madden K, Hartman ME, deAlmeida ML, Walson K, Ista E, Baarslag MA, Salonia R, Beca J, Long D, Kawai Y, Cheifetz IM, Gelvez J, Truemper EJ, Smith RL, Peters ME, O'Meara AM, Murphy S, Bokhary A, Greenwald BM, Bell MJ. [Delirium in Critically Ill Children: An International Point Prevalence Study.](https://www.ncbi.nlm.nih.gov/pubmed/28079605) Crit Care Med. 2017 Apr;45(4):584-590.
89. Burry L, Scales D, Williamson D, Foster J, Mehta S, Guenette M, Fan E, Detsky M, Azad A, Bernard F, Rose L. [Feasibility of melatonin for prevention of delirium in critically ill patients: a protocol for a multicentre, randomised, placebo-controlled study.](https://www.ncbi.nlm.nih.gov/pubmed/28363933) BMJ Open. 2017 Mar 30;7(3):e015420.
90. Khan BA, Perkins AJ, Gao S, Hui SL, Campbell NL, Farber MO, Chlan LL, Boustani MA. [The Confusion Assessment Method for the ICU-7 Delirium Severity Scale: A Novel Delirium Severity Instrument for Use in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/28263192) Crit Care Med. 2017 May;45(5):851-857
91. Deiner S, Luo X, Lin HM, Sessler DI, Saager L, Sieber FE, Lee HB, Sano M; and the Dexlirium Writing Group, Jankowski C, Bergese SD, Candiotti K, Flaherty JH, Arora H, Shander A, Rock P. [Intraoperative Infusion of Dexmedetomidine for Prevention of Postoperative Delirium and Cognitive Dysfunction in Elderly Patients Undergoing Major Elective Noncardiac Surgery: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/28593326) JAMA Surg. 2017 Jun 7:e171505
92. Royse CF, Saager L, Whitlock R, Ou-Young J, Royse A, Vincent J, Devereaux PJ, Kurz A, Awais A, Panjasawatwong K, Sessler DI. [Impact of Methylprednisolone on Postoperative Quality of Recovery and Delirium in the Steroids in Cardiac Surgery Trial: A Randomized, Double-blind, Placebo-controlled Substudy.](https://www.ncbi.nlm.nih.gov/pubmed/27775998) Anesthesiology. 2017 Feb;126(2):223-233
93. Avidan MS, Maybrier HR, Abdallah AB, Jacobsohn E, Vlisides PE, Pryor KO, Veselis RA, Grocott HP, Emmert DA, Rogers EM, Downey RJ, Yulico H, Noh GJ, Lee YH, Waszynski CM, Arya VK, Pagel PS, Hudetz JA, Muench MR, Fritz BA, Waberski W, Inouye SK, Mashour GA; PODCAST Research Group. [Intraoperative ketamine for prevention of postoperative delirium or pain after major surgery in older adults: an international, multicentre, double-blind, randomised clinical trial.](https://www.ncbi.nlm.nih.gov/pubmed/28576285) Lancet. 2017 May 30. pii: S0140-6736(17)31467-8.
94. Eisenach JC. [Ketamine fails to prevent postoperative delirium.](https://www.ncbi.nlm.nih.gov/pubmed/28576283) Lancet. 2017 May 30
95. Siew ED, Fissell WH, Tripp CM, Blume JD, Wilson MD, Clark AJ, Vincz AJ, Ely EW, Pandharipande PP, Girard TD. [Acute Kidney Injury as a Risk Factor for Delirium and Coma during Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/27854517) Am J Respir Crit Care Med. 2017 Jun 15;195(12):1597-1607
96. Green C, Hendry K, Wilson ES, Walsh T, Allerhand M, MacLullich AMJ, Tieges Z. [A Novel Computerized Test for Detecting and Monitoring Visual Attentional Deficits and Delirium in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/28489649) Crit Care Med. 2017 Jul;45(7):1224-1231
97. Carrasco G, Baeza N, Cabré L, Portillo E, Gimeno G, Manzanedo D, Calizaya M. [Dexmedetomidine for the Treatment of Hyperactive Delirium Refractory to Haloperidol in Nonintubated ICU Patients: A Nonrandomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/26925523) Crit Care Med. 2016 Jul;44(7):1295-306.
98. Smith CD, Grami P. [Feasibility and Effectiveness of a Delirium Prevention Bundle in Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/27965224) Am J Crit Care. 2016 Dec;26(1):19-27.
99. Mitchell ML, Shum DHK, Mihala G, Murfield JE, Aitken LM. [Long-term cognitive impairment and delirium in intensive care: A prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/28736089) Aust Crit Care. 2017 Jul 20. pii: S1036-7314(17)30034-6.
100. Rosa RG, Tonietto TF, da Silva DB, Gutierres FA, Ascoli AM, Madeira LC, Rutzen W, Falavigna M, Robinson CC, Salluh JI, Cavalcanti AB, Azevedo LC, Cremonese RV, Haack TR, Eugênio CS, Dornelles A, Bessel M, Teles JMM, Skrobik Y, Teixeira C; ICU Visits Study Group Investigators. [Effectiveness and Safety of an Extended ICU Visitation Model for Delirium Prevention: A Before and After Study.](https://www.ncbi.nlm.nih.gov/pubmed/28671901) Crit Care Med. 2017 Jun 30. doi: 10.1097/CCM.0000000000002588
101. Munro CL, Cairns P, Ji M, Calero K, Anderson WM, Liang Z. [Delirium prevention in critically ill adults through an automated reorientation intervention - A pilot randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28606450) Heart Lung. 2017 Jul - Aug;46(4):234-238.
102. Guo Y, Fan Y. [A Preoperative, Nurse-Led Intervention Program Reduces Acute Postoperative Delirium.](https://www.ncbi.nlm.nih.gov/pubmed/27224685) J Neurosci Nurs. 2016 Jul-Aug;48(4):229-35.
103. Page VJ, Casarin A, Ely EW, Zhao XB, McDowell C, Murphy L, McAuley DF. [Evaluation of early administration of simvastatin in the prevention and treatment of delirium in critically ill patients undergoing mechanical ventilation (MoDUS): a randomised, double-blind, placebo-controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28734823) Lancet Respir Med. 2017 Jul 19. pii: S2213-2600(17)30234-5
104. Gagnon DJ, Riker RR, Glisic EK, Kelner A, Perrey HM, Fraser GL. [Transition from dexmedetomidine to enteral clonidine for ICU sedation: an observational pilot study.](https://www.ncbi.nlm.nih.gov/pubmed/25809176) Pharmacotherapy. 2015 Mar;35(3):251-9.
105. Hollinger A, Ledergerber K, von Felten S, Sutter R, Rüegg S, Gantner L, Zimmermann S, Blum A, Steiner LA, Marsch S, Siegemund M. [Comparison of propofol and dexmedetomidine infused overnight to treat hyperactive and mixed ICU delirium: a protocol for the Basel ProDex clinical trial.](https://www.ncbi.nlm.nih.gov/pubmed/28710219) BMJ Open. 2017 Jul 13;7(7):e015783.
106. Dreyfus L, Javouhey E, Denis A, Touzet S, Bordet F. [Implementation and evaluation of a paediatric nurse-driven sedation protocol in a paediatric intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/28341980) Ann Intensive Care. 2017 Dec;7(1):36.
107. Guenette M, Burry L, Cheung A, Farquharson T, Traille M, Mantas I, Mehta S, Rose L. [Psychotropic Drug Use in Physically Restrained, Critically Ill Adults Receiving Mechanical Ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/28864434) Am J Crit Care. 2017 Sep;26(5):380-387.
108. Fernandez-Gonzalo S, Turon M, De Haro C, López-Aguilar J, Jodar M, Blanch L. [Do **sedation** and analgesia contribute to long-term cognitive dysfunction in critical care survivors?](https://www.ncbi.nlm.nih.gov/pubmed/28851588) Med Intensiva. 2017 Aug 26. pii: S0210-5691(17)30216-4.
109. Morandi A, Piva S, Ely EW, Myatra SN, Salluh JIF, Amare D, Azoulay E, Bellelli G, Csomos A, Fan E, Fagoni N, Girard TD, Heras La Calle G, Inoue S, Lim CM, Kaps R, Kotfis K, Koh Y, Misango D, Pandharipande PP, Permpikul C, Cheng Tan C, Wang DX, Sharshar T, Shehabi Y, Skrobik Y, Singh JM, Slooter A, Smith M, Tsuruta R, Latronico N. [Worldwide Survey of the "Assessing Pain, Both Spontaneous Awakening and Breathing Trials, Choice of Drugs, Delirium Monitoring/Management, Early Exercise/Mobility, and Family Empowerment" (ABCDEF) Bundle.](https://www.ncbi.nlm.nih.gov/pubmed/28787293) Crit Care Med. 2017 Aug 3. doi: 10.1097/CCM.0000000000002640
110. Burry LD, Williamson DR, Mehta S, Perreault MM, Mantas I, Mallick R, Fergusson DA, Smith O, Fan E, Dupuis S, Herridge M, Rose L. [Delirium and exposure to psychoactive medications in critically ill adults: A multi-centre observational study.](https://www.ncbi.nlm.nih.gov/pubmed/28806561) J Crit Care. 2017 Aug 5;42:268-274.
111. Angel C, Brooks K, Fourie J. [Standardizing Management of Adults with Delirium Hospitalized on Medical-Surgical Units.](https://www.ncbi.nlm.nih.gov/pubmed/27644045) Perm J. 2016 Fall;20(4):27-32.
112. Marhong JD, DeBacker J, Viau-Lapointe J, Munshi L, Del Sorbo L, Burry L, Fan E, Mehta S. [Sedation and Mobilization during Venovenous Extracorporeal Membrane Oxygenation for Acute Respiratory Failure: An International Survey.](https://www.ncbi.nlm.nih.gov/pubmed/28863011) Crit Care Med. 2017 Aug 31. doi: 10.1097/CCM.0000000000002702
113. Chanques G, Conseil M, Roger C, Constantin JM, Prades A, Carr J, Muller L, Jung B, Belafia F, Cissé M, Delay JM, de Jong A, Lefrant JY, Futier E, Mercier G, Molinari N, Jaber S; SOS-Ventilation study investigators. [Immediate interruption of sedation compared with usual sedation care in critically ill postoperative patients (SOS-Ventilation): a randomised, parallel-group clinical trial.](https://www.ncbi.nlm.nih.gov/pubmed/28935558) Lancet Respir Med. 2017 Oct;5(10):795-805.
114. Lingehall HC, Smulter NS, Lindahl E, Lindkvist M, Engström KG, Gustafson YG, Olofsson B. [Preoperative Cognitive Performance and Postoperative Delirium Are Independently Associated With Future Dementia in Older People Who Have Undergone Cardiac Surgery: A Longitudinal Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/28481752) Crit Care Med. 2017 Aug;45(8):1295-1303.
115. Kim SY, Kim JM, Kim SW, Kang HJ, Lee JY, Bae KY, Shin IS, Yoon JS. [Perceived Stigma and Quality of Life in Patients Following Recovery From Delirium.](https://www.ncbi.nlm.nih.gov/pubmed/28493656) J Clin Psychiatry. 2017 Jul;78(7):e744-e749
116. Barman A, Pradhan D, Bhattacharyya P, Dey S, Bhattacharjee A, Tesia SS, Mitra JK. [Diagnostic accuracy of delirium assessment methods in critical care patients.](https://www.ncbi.nlm.nih.gov/pubmed/29073537) J Crit Care. 2017 Oct 16;44:82-86
117. Moskowitz EE, Overbey DM, Jones TS, Jones EL, Arcomano TR, Moore JT, Robinson TN. [Post-operative delirium is associated with increased 5-year mortality.](https://www.ncbi.nlm.nih.gov/pubmed/28947274) Am J Surg. 2017 Dec;214(6):1036-1038
118. Mitchell ML, Kean S, Rattray JE, Hull AM, Davis C, Murfield JE, Aitken LM. [A family intervention to reduce delirium in hospitalised ICU patients: A feasibility randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28254205) Intensive Crit Care Nurs. 2017 Jun;40:77-84.
119. Waszynski CM, Milner KA, Staff I, Molony SL. [Using simulated family presence to decrease agitation in older hospitalized delirious patients: A randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/29100197) Int J Nurs Stud. 2017 Oct 7;77:154-161
120. Fukata S, Kawabata Y, Fujishiro K, Kitagawa Y, Kuroiwa K, Akiyama H, Takemura M, Ando M, Hattori H. [Haloperidol prophylaxis for preventing aggravation of postoperative delirium in elderly patients: a randomized, open-label prospective trial.](https://www.ncbi.nlm.nih.gov/pubmed/27830365) Surg Today. 2017 Jul;47(7):815-826
121. Rose L, Agar M, Burry LD, Campbell N, Clarke M, Lee J, Siddiqi N, Page VJ; Del-COrS group. [Development of core outcome sets for effectiveness trials of interventions to prevent and/or treat delirium (Del-COrS): study protocol.](https://www.ncbi.nlm.nih.gov/pubmed/28928181) BMJ Open. 2017 Sep 18;7(9):e016371
122. Hatta K, Kishi Y, Wada K, Takeuchi T, Ito S, Kurata A, Murakami K, Sugita M, Usui C, Nakamura H; DELIRIA-J Group. [Preventive Effects of Suvorexant on Delirium: A Randomized Placebo-Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/28767209) J Clin Psychiatry. 2017 Sep/Oct;78(8):e970-e979.
123. Read MD, Maani CV, Blackwell S. [Dexmedetomidine as a Rescue Therapy for Emergence Delirium in Adults: A Case Series.](https://www.ncbi.nlm.nih.gov/pubmed/28448322) A Case Rep. 2017 Jul 1;9(1):20-23
124. Wassenaar A, Rood P, Schoonhoven L, Teerenstra S, Zegers M, Pickkers P, van den Boogaard M. [The impact of nUrsiNg DEliRium Preventive INnterventions in the Intensive Care Unit (UNDERPIN-ICU): A study protocol for a multi-centre, stepped wedge randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28013104) Int J Nurs Stud. 2017 Mar;68:1-8.
125. Stollings JL, Thompson JL, Ferrell BA, Scheinin M, Wilkinson GR, Hughes CG, Shintani AK, Ely EW, Girard TD, Pandharipande PP, Patel MB. [Sedative Plasma Concentrations and Delirium Risk in Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/29363356) Ann Pharmacother. 2018 Jan 1:1060028017753480
126. Kenes MT, Stollings JL, Wang L, Girard TD, Ely EW, Pandharipande PP. [Persistence of Delirium after Cessation of Sedatives and Analgesics and Impact on Clinical Outcomes in Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/28845902) Pharmacotherapy. 2017 Nov;37(11):1357-1365
127. Brück E, Schandl A, Bottai M, Sackey P. [The impact of sepsis, delirium, and psychological distress on self-rated cognitive function in ICU survivors-a prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/29340154) J Intensive Care. 2018 Jan 8;6:2
128. Shehabi Y, Bellomo R, Kadiman S, Ti LK, Howe B, Reade MC, Khoo TM, Alias A, Wong YL, Mukhopadhyay A, McArthur C, Seppelt I, Webb SA, Green M, Bailey MJ; Sedation Practice in Intensive Care Evaluation (SPICE) Study Investigators and the Australian and New Zealand Intensive Care Society Clinical Trials Group. [Sedation Intensity in the First 48 Hours of Mechanical Ventilation and 180-Day Mortality: A Multinational Prospective Longitudinal Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/29498938) Crit Care Med. 2018 Mar 1
129. van den Boogaard M, Slooter AJC, Brüggemann RJM, Schoonhoven L, Beishuizen A, Vermeijden JW, Pretorius D, de Koning J, Simons KS, Dennesen PJW, Van der Voort PHJ, Houterman S, van der Hoeven JG, Pickkers P; REDUCE Study Investigators. [Effect of Haloperidol on Survival Among Critically Ill Adults With a High Risk of Delirium: The REDUCE Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29466591) JAMA. 2018 Feb 20;319(7):680-690
130. Skrobik Y, Duprey MS, Hill NS, Devlin JW. [Low-dose Nocturnal Dexmedetomidine Prevents ICU Delirium: A Randomized, Placebo-controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29498534) Am J Respir Crit Care Med. 2018 Mar 2.
131. Agus A, Phair G, Page VJ, McAuley DF. [Simvastatin for the prevention and treatment of delirium in critically ill, mechanically ventilated patients (MoDUS): a cost-effectiveness analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29508709) Lancet Respir Med. 2018 Mar;6(3):e9-e10
132. Girard TD, Thompson JL, Pandharipande PP, Brummel NE, Jackson JC, Patel MB, Hughes CG, Chandrasekhar R, Pun BT, Boehm LM, Elstad MR, Goodman RB, Bernard GR, Dittus RS, Ely EW. [Clinical phenotypes of delirium during critical illness and severity of subsequent long-term cognitive impairment: a prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/29508705) Lancet Respir Med. 2018 Mar;6(3):213-222.
133. Chanques G, Ely EW, Garnier O, Perrigault F, Eloi A, Carr J, Rowan CM, Prades A, de Jong A, Moritz-Gasser S, Molinari N, Jaber S. [The 2014 updated version of the Confusion Assessment Method for the Intensive Care Unit compared to the 5th version of the Diagnostic and Statistical Manual of Mental Disorders and other current methods used by intensivists.](https://www.ncbi.nlm.nih.gov/pubmed/29492696) Ann Intensive Care. 2018 Mar 1;8(1):33.
134. Nydahl P, Bartoszek G, Binder A, Paschen L, Margraf NG, Witt K, Ewers A. [Prevalence for delirium in stroke patients: A prospective controlled study.](https://www.ncbi.nlm.nih.gov/pubmed/28828209) Brain Behav. 2017 Jun 23;7(8):e00748
135. Smith JM, Van Aman MN, Schneiderhahn ME, Edelman R, Ercole PM. [Assessment of Delirium in Intensive Care Unit Patients: Educational Strategies.](https://www.ncbi.nlm.nih.gov/pubmed/28459497) J Contin Educ Nurs. 2017 May 1;48(5):239-244.
136. Hofhuis JGM, Rose L, Blackwood B, Akerman E, McGaughey J, Egerod I, Fossum M, Foss H, Georgiou E, Graff HJ, Kalafati M, Sperlinga R, Berardo A, Schäfer A, Wojnicka AG, Spronk PE. [Clinical practices to promote sleep in the ICU: A multinational survey.](https://www.ncbi.nlm.nih.gov/pubmed/29567559) Int J Nurs Stud. 2018 Mar 5;81:107-114
137. Nishikimi M, Numaguchi A, Takahashi K, Miyagawa Y, Matsui K, Higashi M, Makishi G, Matsui S, Matsuda N. [Effect of Administration of Ramelteon, a Melatonin Receptor Agonist, on the Duration of Stay in the ICU: A Single-Center Randomized Placebo-Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29595562) Crit Care Med. 2018 Mar 27
138. Sullinger D, Gilmer A, Jurado L, Zimmerman LH, Steelman J, Gallagher A, Dupre T, Acquista E. [Development, Implementation, and Outcomes of a Delirium Protocol in the Surgical Trauma Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/27630190) Ann Pharmacother. 2017 Jan;51(1):5-12
139. Boettger S, Garcia Nuñez D, Meyer R, Richter A, Rudiger A, Schubert M, Jenewein J. [Screening for delirium with the Intensive Care Delirium Screening Checklist (ICDSC): a re-evaluation of the threshold for delirium.](https://www.ncbi.nlm.nih.gov/pubmed/29537480) Swiss Med Wkly. 2018 Mar 14;148:w14597
140. Dharmarajan K, Swami S, Gou RY, Jones RN, Inouye SK. [Pathway from Delirium to Death: Potential In-Hospital Mediators of Excess Mortality.](https://www.ncbi.nlm.nih.gov/pubmed/28039852) J Am Geriatr Soc. 2017 May;65(5):1026-1033
141. Öztürk Birge A, Bedük T. [The relationship of delirium and risk factors in cardiology intensive care unit patients with the nursing workload.](https://www.ncbi.nlm.nih.gov/pubmed/29603815) J Clin Nurs. 2018 Mar 31
142. Wassenaar A, Rood P, Boelen D, Schoonhoven L, Pickkers P, van den Boogaard M. [Feasibility of Cognitive Training in Critically Ill Patients: A Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/29496769) Am J Crit Care. 2018 Mar;27(2):124-135
143. Johnson K, Fleury J, McClain D. [Music intervention to prevent delirium among older patients admitted to a trauma intensive care unit and a trauma orthopaedic unit.](https://www.ncbi.nlm.nih.gov/pubmed/29735284) Intensive Crit Care Nurs. 2018
144. Chlan LL, Heiderscheit A, Skaar DJ, Neidecker MV. [Economic Evaluation of a Patient-Directed Music Intervention for ICU Patients Receiving Mechanical Ventilatory Support.](https://www.ncbi.nlm.nih.gov/pubmed/29727366) Crit Care Med. 2018 May 4.
145. Sajjad A, Wolters AE, Veldhuijzen DS, Peelen LM, Welling MC, Zaal IJ, van Dijk D, Slooter AJC. [Psychopathology prior to critical illness and the risk of delirium onset during intensive care unit stay.](https://www.ncbi.nlm.nih.gov/pubmed/29713733) Intensive Care Med. 2018 Apr 30
146. Kim DH, Lee J, Kim CA, Huybrechts KF, Bateman BT, Patorno E, Marcantonio ER. [Evaluation of algorithms to identify delirium in administrative claims and drug utilization database.](https://www.ncbi.nlm.nih.gov/pubmed/28485014) Pharmacoepidemiol Drug Saf. 2017 Aug;26(8):945-953
147. Mody K, Kaur S, Mauer EA, Gerber LM, Greenwald BM, Silver G, Traube C. [Benzodiazepines and Development of Delirium in Critically Ill Children: Estimating the Causal Effect.](https://www.ncbi.nlm.nih.gov/pubmed/29727363) Crit Care Med. 2018 May 4
148. Flannery AH, Thompson Bastin ML, Montgomery-Yates A, Hook C, Cassity E, Eaton PM, Morris PE. [Multidisciplinary Prerounding Meeting as a Continuous Quality Improvement Tool: Leveraging to Reduce Continuous Benzodiazepine Use at an Academic Medical Center.](https://www.ncbi.nlm.nih.gov/pubmed/29683053) J Intensive Care Med. 2018 Jan 1:885066618769015.
149. Nishikimi M, Numaguchi A, Takahashi K, Miyagawa Y, Matsui K, Higashi M, Makishi G, Matsui S, Matsuda N. [Effect of Administration of Ramelteon, a Melatonin Receptor Agonist, on the Duration of Stay in the ICU: A Single-Center Randomized Placebo-Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29595562) Crit Care Med. 2018 Mar 27.
150. Nydahl P, Dewes M, Dubb R, Hermes C, Kaltwasser A, Krotsetis S, von Haken R. [Survey among critical care nurses and physicians about delirium management.](https://www.ncbi.nlm.nih.gov/pubmed/28523698) Nurs Crit Care. 2018 Jan;23(1):23-29
151. Park, Sunyoung et al. Pain and anxiety and their relationship with medication doses in the intensive care unit. Journal of Critical Care 2018. <https://doi.org/10.1016/j.jcrc.2018.05.014>
152. Krotsetis S, Nydahl P, Dubb R, Hermes C, Kaltwasser A, von Haken R. [Status quo of delirium management in German-speaking countries: comparison between intensive care units and wards.](https://www.ncbi.nlm.nih.gov/pubmed/28939934) Intensive Care Med. 2018 Feb;44(2):252-253
153. deBacker J, Tamberg E, Munshi L, Burry L, Fan E, Mehta S. [Sedation Practice in Extracorporeal Membrane Oxygenation-Treated Patients with Acute Respiratory Distress Syndrome: A Retrospective Study.](https://www.ncbi.nlm.nih.gov/pubmed/29045280) ASAIO J. 2018 Jul/Aug;64(4):544-551
154. Mangan KC, McKinzie BP, Deloney LP, Leon SM, Eriksson EA. [Evaluating the risk profile of quetiapine in treating delirium in the intensive care adult population: A retrospective review.](https://www.ncbi.nlm.nih.gov/pubmed/30005303) J Crit Care. 2018 Jul 5;47:169-172.
155. Grover S, Ghosh A, Sarkar S, Desouza A, Yaddanapudi LN, Basu D. [Delirium in Intensive Care Unit: Phenomenology, Subtypes, and Factor Structure of Symptoms.](https://www.ncbi.nlm.nih.gov/pubmed/29962574) Indian J Psychol Med. 2018 Mar-Apr;40(2):169-177
156. Jaiswal SJ, McCarthy TJ, Wineinger NE, Kang DY, Song J, Garcia S, van Niekerk CJ, Lu CY, Loeks M, Owens RL. [Melatonin and Sleep in Preventing Hospitalized Delirium: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29729237) Am J Med. 2018 May 3. pii: S0002-9343(18)30386-3
157. Altman MT, Knauert MP, Murphy TE, Ahasic AM, Chauhan Z, Pisani MA. [Association of intensive care unit delirium with sleep disturbance and functional disability after critical illness: an observational cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/29740704) Ann Intensive Care. 2018 May 8;8(1):63
158. Wilson JE, Collar EM, Kiehl AL, Lee H, Merzenich M, Ely EW, Jackson J. [Computerized Cognitive Rehabilitation in Intensive Care Unit Survivors: Returning to Everyday Tasks Using Rehabilitation Networks-Computerized Cognitive Rehabilitation Pilot Investigation.](https://www.ncbi.nlm.nih.gov/pubmed/29911883) Ann Am Thorac Soc. 2018 Jul;15(7):887-891
159. McGinn K, Davis SN, Terrry E, Simmons J, Brevard S. [Elimination of Routine Benzodiazepine Administration for Nonprocedural Sedation in a Trauma Intensive Care Unit Is Feasible.](https://www.ncbi.nlm.nih.gov/pubmed/29981629) Am Surg. 2018 Jun 1;84(6):947-951
160. Mestres Gonzalvo C, de Wit HAJM, van Oijen BPC, Deben DS, Hurkens KPGM, Mulder WJ, Janknegt R, Schols JMGA, Verhey FR, Winkens B, van der Kuy PM. [Validation of an automated delirium prediction model (DElirium MOdel (DEMO)): an observational study.](https://www.ncbi.nlm.nih.gov/pubmed/29122789) BMJ Open. 2017 Nov 8;7(11):e016654
161. Wassenaar A, van den Boogaard M, Underpin-Icu Study Group, Schoonhoven L, Pickkers P. [Determination of the feasibility of a multicomponent intervention program to prevent delirium in the Intensive Care Unit: A modified RAND Delphi study.](https://www.ncbi.nlm.nih.gov/pubmed/28087236) Aust Crit Care. 2017 Nov;30(6):321-327
162. Sieber FE, Neufeld KJ, Gottschalk A, Bigelow GE, Oh ES, Rosenberg PB, Mears SC, Stewart KJ, Ouanes JP, Jaberi M, Hasenboehler EA, Li T, Wang NY. [Effect of Depth of Sedation in Older Patients Undergoing Hip Fracture Repair on Postoperative Delirium: The STRIDE Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30090923) JAMA Surg. 2018 Aug 8.
163. Nguyen DN, Huyghens L, Parra J, Schiettecatte J, Smitz J, Vincent JL. [Hypotension and a positive fluid balance are associated with delirium in patients with shock.](https://www.ncbi.nlm.nih.gov/pubmed/30086136) PLoS One. 2018 Aug 7;13(8):e0200495
164. Girard TD, Exline MC, Carson SS, Hough CL, Rock P, Gong MN, Douglas IS, Malhotra A, Owens RL, Feinstein DJ, Khan B, Pisani MA, Hyzy RC, Schmidt GA, Schweickert WD, Hite RD, Bowton DL, Masica AL, Thompson JL, Chandrasekhar R, Pun BT, Strength C, Boehm LM, Jackson JC, Pandharipande PP, Brummel NE, Hughes CG, Patel MB, Stollings JL, Bernard GR, Dittus RS, Ely EW; MIND-USA Investigators. [Haloperidol and Ziprasidone for Treatment of Delirium in Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/30346242) N Engl J Med. 2018 Oct 22.
165. van Schijndel AW, Franssen EJF, Pickkers P, Rijkenberg S, van den Boogaard M, van der Voort PHJ. [Haloperidol serum concentrations in critically ill patients included in the REDUCE study.](https://www.ncbi.nlm.nih.gov/pubmed/30143834) Intensive Care Med. 2018 Oct;44(10):1774-1775
166. Perbet S, Verdonk F, Godet T, Jabaudon M, Chartier C, Cayot S, Guerin R, Morand D, Bazin JE, Futier E, Pereira B, Constantin JM. [Low doses of ketamine reduce delirium but not opiate consumption in mechanically ventilated and sedated ICU patients: A randomised double-blind control trial.](https://www.ncbi.nlm.nih.gov/pubmed/30268528) Anaesth Crit Care Pain Med. 2018 Sep 27
167. Nydahl P, Bartoszek G, Binder A, Paschen L, Margraf NG, Witt K, Ewers A. [Prevalence for delirium in stroke patients: A prospective controlled study.](https://www.ncbi.nlm.nih.gov/pubmed/28828209) Brain Behav. 2017 Jun 23;7(8):e00748
168. Zhou W, Ngo LH, Inouye SK, Gallagher J, Husser EK, Fick DM, Marcantonio ER. [Does a Year Have 6 Months or 12? Implications for Delirium Detection Among Hospitalized Older General Medicine Patients.](https://www.ncbi.nlm.nih.gov/pubmed/30374887) J Gen Intern Med. 2018 Oct 29
169. Kaplan JB, Eiferman DS, Porter K, MacDermott J, Brumbaugh J, Murphy CV. [Impact of a nursing-driven sedation protocol with criteria for infusion initiation in the surgical intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/30553990) J Crit Care. 2018 Nov 30;50:195-200
170. Walker KA, Gottesman RF, Wu A, Knopman DS, Mosley TH Jr, Alonso A, Kucharska-Newton A, Brown CH 4th. [Association of Hospitalization, Critical Illness, and Infection with Brain Structure in Older Adults.](https://www.ncbi.nlm.nih.gov/pubmed/30251380) J Am Geriatr Soc. 2018 Oct;66(10):1919-1926
171. Green C, Bonavia W, Toh C, Tiruvoipati R. [Prediction of ICU Delirium: Validation of Current Delirium Predictive Models in Routine Clinical Practice.](https://www.ncbi.nlm.nih.gov/pubmed/30507844) Crit Care Med. 2018 Nov 30. doi: 10.1097/CCM.0000000000003577
172. D'Angelo RG, Rincavage M, Tata AL, Millstein LS, Gulati MS, Flurie RW, Gonzales JP. [Impact of an Antipsychotic Discontinuation Bundle During Transitions of Care in Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/28049388) J Intensive Care Med. 2016 Jan 1:885066616686741
173. DiLibero J, DeSanto-Madeya S, Dottery R, Sullivan L, O'Donoghue SC. [Improving the Accuracy of Delirium Assessments in Neuroscience Patients: Scaling a Quality Improvement Program to Improve Nurses' Skill, Compliance, and Accuracy in the Use of the Confusion Assessment Method in the Intensive Care Unit Tool.](https://www.ncbi.nlm.nih.gov/pubmed/29194171) Dimens Crit Care Nurs. 2018 Jan/Feb;37(1):26-34
174. Mahanna-Gabrielli E, Miano TA, Augoustides JG, Kim C, Bavaria JE, Kofke WA. [Does the melatonin receptor 1B gene polymorphism have a role in postoperative delirium?](https://www.ncbi.nlm.nih.gov/pubmed/30481216) PLoS One. 2018 Nov 27;13(11):e0207941
175. Khan BA, Perkins AJ, Campbell NL, Gao S, Khan SH, Wang S, Fuchita M, Weber DJ, Zarzaur BL, Boustani MA, Kesler K. [Preventing Postoperative Delirium After Major Noncardiac Thoracic Surgery-A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30460981) J Am Geriatr Soc. 2018 Dec;66(12):2289-2297
176. Abbasi S, Farsaei S, Ghasemi D, Mansourian M. [Potential Role of Exogenous Melatonin Supplement in Delirium Prevention in Critically Ill Patients: A Double-Blind Randomized Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/30568713) Iran J Pharm Res. 2018 Fall;17(4):1571-1580.
177. Trogrlić Z, van der Jagt M, Lingsma H, Gommers D, Ponssen HH, Schoonderbeek JFJ, Schreiner F, Verbrugge SJ, Duran S, Bakker J, Ista E. [Improved Guideline Adherence and Reduced Brain Dysfunction After a Multicenter Multifaceted Implementation of ICU Delirium Guidelines in 3,930 Patients.](https://www.ncbi.nlm.nih.gov/pubmed/30608279) Crit Care Med. 2019 Jan 2
178. Grahl JJ, Stollings JL, Rakhit S, Person AK, Wang L, Thompson JL, Pandharipande PP, Ely EW, Patel MB. [Antimicrobial exposure and the risk of delirium in critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/30541600) Crit Care. 2018 Dec 12;22(1):337
179. Mistraletti G, Umbrello M, Salini S, Cadringher P, Formenti P, Chiumello D, Villa C, Russo R, Francesconi S, Valdambrini F, Bellani G, Palo A, Riccardi F, Ferretti E, Festa M, Gado AM, Taverna M, Pinna C, Barbiero A, Ferrari PA, Iapichino G; SedaEN investigators. [Enteral versus intravenous approach for the sedation of critically ill patients: a randomized and controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/30616675) Crit Care. 2019 Jan 7;23(1):3.
180. Wildes TS, Mickle AM, Ben Abdallah A, Maybrier HR, Oberhaus J, Budelier TP, Kronzer A, McKinnon SL, Park D, Torres BA, Graetz TJ, Emmert DA, Palanca BJ, Goswami S, Jordan K, Lin N, Fritz BA, Stevens TW, Jacobsohn E, Schmitt EM, Inouye SK, Stark S, Lenze EJ, Avidan MS; ENGAGES Research Group. [Effect of Electroencephalography-Guided Anesthetic Administration on Postoperative Delirium Among Older Adults Undergoing Major Surgery: The ENGAGES Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30721296) JAMA. 2019 Feb 5;321(5):473-483
181. Collet MO, Caballero J, Sonneville R, Bozza FA, Nydahl P, Schandl A, Wøien H, Citerio G, van den Boogaard M, Hästbacka J, Haenggi M, Colpaert K, Rose L, Barbateskovic M, Lange T, Jensen A, Krog MB, Egerod I, Nibro HL, Wetterslev J, Perner A; AID-ICU cohort study co-authors. [Prevalence and risk factors related to haloperidol use for delirium in adult intensive care patients: the multinational AID-ICU inception cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/29767323) Intensive Care Med. 2018 Jul;44(7):1081-1089
182. Aragón RE, Proaño A, Mongilardi N, de Ferrari A, Herrera P, Roldan R, Paz E, Jaymez AA, Chirinos E, Portugal J, Quispe R, Brower RG, Checkley W. [Sedation practices and clinical outcomes in mechanically ventilated patients in a prospective multicenter cohort.](https://www.ncbi.nlm.nih.gov/pubmed/30995940) Crit Care. 2019 Apr 17;23(1):130
183. García-Sánchez M, Caballero-López J, Ceniceros-Rozalén I, Giménez-Esparza Vich C, Romera-Ortega MA, Pardo-Rey C, Muñoz-Martínez T, Escudero D, Torrado H, Chamorro-Jambrina C, Palencia-Herrejón E; miembros del GTSAD. [Management of analgesia, sedation and delirium in Spanish Intensive Care Units: A national two-part survey.](https://www.ncbi.nlm.nih.gov/pubmed/30704803) Med Intensiva. 2019 May;43(4):225-233
184. Shehabi Y, Howe BD, Bellomo R, Arabi YM, Bailey M, Bass FE, Bin Kadiman S, McArthur CJ, Murray L, Reade MC, Seppelt IM, Takala J, Wise MP, Webb SA; ANZICS Clinical Trials Group and the SPICE III Investigators. [Early Sedation with Dexmedetomidine in Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/31112380) N Engl J Med. 2019 May 19
185. Karamchandani K, Schoaps RS, Bonavia A, Prasad A, Quintili A, Lehman EB, Carr ZJ. [Continuation of atypical antipsychotic medications in critically ill patients discharged from the hospital: a single-center retrospective analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31019677) Ther Adv Drug Saf. 2018 Nov 2;10:2042098618809933
186. Krewulak KD, Sept BG, Stelfox HT, Ely EW, Davidson JE, Ismail Z, Fiest KM. [Feasibility and acceptability of family administration of delirium detection tools in the intensive care unit: a patient-oriented pilot study.](https://www.ncbi.nlm.nih.gov/pubmed/31028053) CMAJ Open. 2019 Apr 26;7(2):E294-E299
187. Schulte PJ, Warner DO, Martin DP, Deljou A, Mielke MM, Knopman DS, Petersen RC, Weingarten TN, Warner MA, Rabinstein AA, Hanson AC, Schroeder DR, Sprung J. [Association Between Critical Care Admissions and Cognitive Trajectories in Older Adults.](https://www.ncbi.nlm.nih.gov/pubmed/31107280) Crit Care Med. 2019 May 17. doi: 10.1097/CCM.0000000000003829
188. Tay MRJ, Soh YM, Plunkett TK, Ong PL, Huang W, Kong KH. [The Validity of the Montreal Cognitive Assessment for Moderate to Severe Traumatic Brain Injury Patients: A Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/31136306) Am J Phys Med Rehabil. 2019 May 23. doi: 10.1097/PHM.0000000000001227
189. Wang S, Meeker JW, Perkins AJ, Gao S, Khan SH, Sigua NL, Manchanda S, Boustani MA, Khan BA. [Psychiatric symptoms and their association with sleep disturbances in intensive care unit survivors.](https://www.ncbi.nlm.nih.gov/pubmed/30962706) Int J Gen Med. 2019 Mar 22;12:125-130
190. Ertuğrul B, Özden D. [The effect of physical restraint on neurovascular complications in intensive care units.](https://www.ncbi.nlm.nih.gov/pubmed/31079994) Aust Crit Care. 2019 May 9.
191. Gu T, Wang X, Deng N, Weng W. [Investigating influencing factors of physical restraint use in China intensive care units: A prospective, cross-sectional, observational study.](https://www.ncbi.nlm.nih.gov/pubmed/30001953) Aust Crit Care. 2019 May;32(3):193-198.
192. Tanios M, Nguyen HM, Park H, Mehta S, Epstein SK, Youssef F, Beltran A, Flores G, Sidhom R, Sehgal A, Leo J, Devlin JW. [Analgesia-first sedation in critically ill adults: A U.S. pilot, randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31228760) J Crit Care. 2019 Jun 12;53:107-113
193. de Haro C, Magrans R, López-Aguilar J, Montanyà J, Lena E, Subirà C, Fernandez-Gonzalo S, Gomà G, Fernández R, Albaiceta GM, Skrobik Y, Lucangelo U, Murias G, Ochagavia A, Kacmarek RM, Rue M, Blanch L; Asynchronies in the Intensive Care Unit (ASYNICU) Group. [Effects of sedatives and opioids on trigger and cycling asynchronies throughout mechanical ventilation: an observational study in a large dataset from critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/31277722) Crit Care. 2019 Jul 5;23(1):245.
194. Freeman S, Yorke J, Dark P. [The management of agitation in adult critical care: Views and opinions from the multi-disciplinary team using a survey approach.](https://www.ncbi.nlm.nih.gov/pubmed/31204105) Intensive Crit Care Nurs. 2019 Jun 13
195. Tang B, Wang XT, Chen WJ, Zhu SH, Chao YG, Zhu B, He W, Wang B, Cao FF, Liu YJ, Fan XJ, Yang H, Xu QH, Zhang H, Gong RC, Chai WZ, Zhang HM, Shi GZ, Li LH, Huang QB, Zhang LN, Yin MG, Shang XL, Wang XM, Tian F, Liu LX, Zhu R, Wu J, Wu YQ, Li CL, Zong Y, Hu JT, Liu J, Zhai Q, Deng LJ, Deng YY, Liu DW; Chinese Critical Hypothermia-Sedation Therapy Study Group. CHINESE: [[Experts consensus on the management of delirium in critically ill patients].](https://www.ncbi.nlm.nih.gov/pubmed/30704197) Zhonghua Nei Ke Za Zhi. 2019 Feb 1;58(2):108-118
196. Wassenaar A, Schoonhoven L, Devlin JW, van Haren FMP, Slooter AJC, Jorens PG, van der Jagt M, Simons KS, Egerod I, Burry LD, Beishuizen A, Matos J, Donders ART, Pickkers P, van den Boogaard M. [External Validation of Two Models to Predict Delirium in Critically Ill Adults Using Either the Confusion Assessment Method-ICU or the Intensive Care Delirium Screening Checklist for Delirium Assessment.](https://www.ncbi.nlm.nih.gov/pubmed/31306177) Crit Care Med. 2019 Jul 15
197. Rood PJT, Zegers M, Slooter AJC, Beishuizen A, Simons KS, van der Voort PHJ, van der Woude MCE, Spronk PE, van der Hoeven JG, Pickkers P, van den Boogaard M. [Prophylactic Haloperidol Effects on Long-term Quality of Life in Critically Ill Patients at High Risk for Delirium: Results of the REDUCE Study.](https://www.ncbi.nlm.nih.gov/pubmed/31246603) Anesthesiology. 2019 Aug;131(2):328-335
198. Rood PJT, van de Schoor F, van Tertholen K, Pickkers P, van den Boogaard M. [Differences in 90-day mortality of delirium subtypes in the intensive care unit: A retrospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/31228762) J Crit Care. 2019 Jun 11;53:120-124
199. Rosa RG, et al [Effect of Flexible Family Visitation on Delirium Among Patients in the Intensive Care Unit: The ICU Visits Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31310297) JAMA. 2019 Jul 16;322(3):216-228
200. Shenkin SD, Fox C, Godfrey M, Siddiqi N, Goodacre S, Young J, Anand A, Gray A, Hanley J, MacRaild A, Steven J, Black PL, Tieges Z, Boyd J, Stephen J, Weir CJ, MacLullich AMJ. [Delirium detection in older acute medical inpatients: a multicentre prospective comparative diagnostic test accuracy study of the 4AT and the confusion assessment method.](https://www.ncbi.nlm.nih.gov/pubmed/31337404) BMC Med. 2019 Jul 24;17(1):138
201. Souza RCDS, Bersaneti MDR, Siqueira EMP, Meira L, Brumatti DL, Prado NRO. [Nurses' training in the use of a delirium screening tool.](https://www.ncbi.nlm.nih.gov/pubmed/28443974) Rev Gaucha Enferm. 2017 Apr 20;38(1):e64484
202. Tan CM, Camargo M, Miller F, Ross K, Maximous R, Yung P, Marshall C, Fleming D, Law M, Tsang JL. [Impact of a nurse engagement intervention on pain, agitation and delirium assessment in a community intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/31428703) BMJ Open Qual. 2019 Aug 5;8(3):e000421
203. Bouajram, Rima et al. Incidence of Dexmedetomidine Withdrawal in Adult Critically Ill Patients. Critical Care Explorations: [August 2019 - Volume 1 - Issue 8 - p e0035](https://journals.lww.com/ccejournal/pages/currenttoc.aspx)
204. Ford AH, Flicker L, Kelly R, Patel H, Passage J, Wibrow B, Anstey M, Edwards M, Almeida OP. [The Healthy Heart-Mind Trial: Randomized Controlled Trial of Melatonin for Prevention of Delirium.](https://www.ncbi.nlm.nih.gov/pubmed/31595489) J Am Geriatr Soc. 2019 Oct 8
205. Jaiswal SJ, Vyas AD, Heisel AJ, Ackula H, Aggarwal A, Kim NH, Kerr KM, Madani M, Pretorius V, Auger WR, Fernandes TM, Malhotra A, Owens RL. [Ramelteon for Prevention of Postoperative Delirium: A Randomized Controlled Trial in Patients Undergoing Elective Pulmonary Thromboendarterectomy.](https://www.ncbi.nlm.nih.gov/pubmed/31567351) Crit Care Med. 2019 Sep 17.
206. Saller T, MacLullich AMJ, Schäfer ST, Crispin A, Neitzert R, Schüle C, von Dossow V, Hofmann-Kiefer KF. [Screening for delirium after surgery: validation of the 4 A's test (4AT) in the post-anaesthesia care unit.](https://www.ncbi.nlm.nih.gov/pubmed/31038212) Anaesthesia. 2019 Oct;74(10):1260-1266
207. Reznik ME, Drake J, Margolis SA, Moody S, Murray K, Costa S, Mahta A, Wendell LC, Thompson BB, Rao SS, Barrett AM, Boukrina O, Daiello LA, Asaad WF, Furie KL, Jones RN. [Deconstructing Poststroke Delirium in a Prospective Cohort of Patients With Intracerebral Hemorrhage.](https://www.ncbi.nlm.nih.gov/pubmed/31567406) Crit Care Med. 2019 Sep 25
208. Smonig R, Magalhaes E, Bouadma L, Andremont O, de Montmollin E, Essardy F, Mourvillier B, Lebut J, Dupuis C, Neuville M, Lermuzeaux M, Timsit JF, Sonneville R. [Impact of natural light exposure on delirium burden in adult patients receiving invasive mechanical ventilation in the ICU: a prospective study.](https://www.ncbi.nlm.nih.gov/pubmed/31624936) Ann Intensive Care. 2019 Oct 17;9(1):120
209. Ehlenbach WJ, Sonnen JA, Montine TJ, Larson EB. [Association Between Sepsis and Microvascular Brain Injury.](https://www.ncbi.nlm.nih.gov/pubmed/31389836) Crit Care Med. 2019 Nov;47(11):1531-1538
210. Wang YY, Yue JR, Xie DM, Carter P, Li QL, Gartaganis SL, Chen J, Inouye SK. [Effect of the Tailored, Family-Involved Hospital Elder Life Program on Postoperative Delirium and Function in Older Adults: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31633738) JAMA Intern Med. 2019 Oct 21
211. Schulman-Green D, Schmitt EM, Fong TG, Vasunilashorn SM, Gallagher J, Marcantonio ER, Brown CH 4th, Clark D, Flaherty JH, Gleason A, Gordon S, Kolanowski AM, Neufeld KJ, O'Connor M, Pisani MA, Robinson TN, Verghese J, Wald HL, Jones RN, Inouye SK; BASIL Study Group. [Use of an expert panel to identify domains and indicators of delirium severity.](https://www.ncbi.nlm.nih.gov/pubmed/31102155) Qual Life Res. 2019 Sep;28(9):2565-2578
212. Wang HT, Hill AD, Gomes T, Pinto R, Wijeysundera DN, Scales DC, Fowler RA, Wunsch H. [Trends in opioid use before critical illness among elderly patients in Ontario.](https://www.ncbi.nlm.nih.gov/pubmed/31715530) J Crit Care. 2020 Feb;55:128-133
213. Salehi et al. 2020 The challenges of using physical restraint in intensive care units in Iran: A qualitative study. Journal of the Intensive Care Society. [https://doi.org/10.1177/1751143719892785](https://doi.org/10.1177%2F1751143719892785)
214. Kim Y, Kim HS, Park JS, Cho YJ, Yoon HI, Lee SM, Lee JH, Lee CT, Lee YJ. [Efficacy of Low-Dose Prophylactic Quetiapine on Delirium Prevention in Critically Ill Patients: A Prospective, Randomized, Double-Blind, Placebo-Controlled Study.](https://www.ncbi.nlm.nih.gov/pubmed/31892105) J Clin Med. 2019 Dec 27;9(1).
215. Boßelmann C, Zurloh J, Stefanou MI, Stadler V, Weber Y, Lerche H, Poli S, Ziemann U, Mengel A. [Delirium Screening in Aphasic Patients With the Intensive Care Delirium Screening Checklist (ICDSC): A Prospective Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/31781026) Front Neurol. 2019 Nov 12;10:1198
216. Rohatgi N, Weng Y, Bentley J, Lansberg MG, Shepard J, Mazur D, Ahuja N, Hopkins J. [Initiative for Prevention and Early Identification of Delirium in Medical-Surgical Units: Lessons Learned in the Past Five Years.](https://www.ncbi.nlm.nih.gov/pubmed/31228413) Am J Med. 2019 Dec;132(12):1421-1430
217. Romagnoli et al 2019 Sleep duration and architecture in non-intubated Intensive Care Unit patients: An observational study. Sleepmedicine. <https://doi.org/10.1016/j.sleep.2019.11.1265>
218. van den Boogaard M, Wassenaar A, van Haren FMP, Slooter AJC, Jorens PG, van der Jagt M, Simons KS, Egerod I, Burry LD, Beishuizen A, Pickkers P, Devlin JW. [Influence of sedation on delirium recognition in critically ill patients: A multinational cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/32035691) Aust Crit Care. 2020 Feb 5
219. Wongviriyawong T, Sura-Arunsumrit P, Chaiwat O, To-Adithep P, Ramlee R, Srinonprasert V. [Diagnosis of postoperative delirium in older adults using the Confusion Assessment Method for the intensive care unit in non-intensive care unit settings: A test modification might improve its diagnostic performance.](https://www.ncbi.nlm.nih.gov/pubmed/31237088) Geriatr Gerontol Int. 2019 Aug;19(8):762-767
220. Olsen HT, Nedergaard HK, Strøm T, Oxlund J, Wian KA, Ytrebø LM, Kroken BA, Chew M, Korkmaz S, Lauridsen JT, Toft P. [Nonsedation or Light Sedation in Critically Ill, Mechanically Ventilated Patients.](https://www.ncbi.nlm.nih.gov/pubmed/32068366) N Engl J Med. 2020 Mar 19;382(12):1103-1111
221. Li CJ, Wang BJ, Mu DL, Hu J, Guo C, Li XY, Ma D, Wang DX. [Randomized clinical trial of intraoperative dexmedetomidine to prevent delirium in the elderly undergoing major non-cardiac surgery.](https://www.ncbi.nlm.nih.gov/pubmed/31903588) Br J Surg. 2020 Jan;107(2):e123-e132
222. Khan SH, Xu C, Purpura R, Durrani S, Lindroth H, Wang S, Gao S, Heiderscheit A, Chlan L, Boustani M, Khan BA. [Decreasing Delirium Through Music: A Randomized Pilot Trial.](https://www.ncbi.nlm.nih.gov/pubmed/32114612) Am J Crit Care. 2020 Mar 1;29(2):e31-e38
223. Fox MA, Elefritz JL, Huang BM, Hunley C. [Comparison of Lurasidone Versus Quetiapine for the Treatment of Delirium in Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/29357776) J Intensive Care Med. 2020 Apr;35(4):394-399
224. Larsen LK, Møller K, Petersen M, Egerod I. [Delirium prevalence and prevention in patients with acute brain injury: A prospective before-and-after intervention study.](https://www.ncbi.nlm.nih.gov/pubmed/32089416) Intensive Crit Care Nurs. 2020 Feb 20:102816
225. Alvarez EA, Garrido M, Ponce DP, Pizarro G, Córdova AA, Vera F, Ruiz R, Fernández R, Velásquez JD, Tobar E, Salech F. [A software to prevent delirium in hospitalised older adults: development and feasibility assessment.](https://pubmed.ncbi.nlm.nih.gov/31957783/?from_term=Alvarez+EA&from_cauthor_id=31957783&from_pos=1) Age Ageing. 2020 Feb 27;49(2):239-245.
226. Krewulak KD, Bull MJ, Ely EW, Stelfox HT, Fiest KM. [Psychometric evaluation of the family caregiver ICU delirium knowledge questionnaire.](https://www.ncbi.nlm.nih.gov/pubmed/32059716) BMC Health Serv Res. 2020 Feb 14;20(1):116.
227. Trogrlić Z, van der Jagt M, Osse RJ, Devlin JW, Nieboer D, Koch BCP, van Schaik RHN, Hunfeld NGM. [Pharmacogenomic response of low dose haloperidol in critically ill adults with delirium.](https://www.ncbi.nlm.nih.gov/pubmed/32208328) J Crit Care. 2020 Mar 4;57:203-207
228. Khan BA, Perkins AJ, Prasad NK, Shekhar A, Campbell NL, Gao S, Wang S, Khan SH, Marcantonio ER, Twigg HL 3rd, Boustani MA. [Biomarkers of Delirium Duration and Delirium Severity in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/31770149) Crit Care Med. 2020 Mar;48(3):353-361
229. Abraham MP, Hinds M, Tayidi I, Jeffcoach DR, Corder JM, Hamilton LA, Lawson CM, Bollig RW, Heidel RE, Daley BJ, Taylor JE, McMillen JC. [Quetiapine for delirium prophylaxis in high-risk critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/32213291/?from_term=Abraham+MP&from_cauthor_id=32213291&from_pos=1) Surgeon. 2020 Mar 23:S1479-666X(20)30034-2
230. Schomer KJ, Duby JJ, Firestone RL, Louie EL, Sebat CM, Love DM, Cocanour CS, Albertson TE. [Effect of Flumazenil on Hypoactive Delirium in the ICU: A Double-Blind, Placebo-Controlled Pilot Study.](https://pubmed.ncbi.nlm.nih.gov/32259108/?from_term=Schomer+KJ&from_cauthor_id=32259108&from_pos=1) Crit Care Explor. 2020 Mar 24;2(3):e0085.
231. Davis, J., Berry, K., McIntyre, R., Conway, D., Thomas, A., & Hanison, J. (2020). A quality improvement project for delirium prevention and management over the Greater Manchester Critical Care Network. *Journal of the Intensive Care Society*. <https://doi.org/10.1177/1751143720912700>
232. Green C, Bonavia W, Toh C, Tiruvoipati R. [Prediction of ICU Delirium: Validation of Current Delirium Predictive Models in Routine Clinical Practice.](https://pubmed.ncbi.nlm.nih.gov/30507844/?from_term=Green+C&from_cauthor_id=30507844&from_pos=1) Crit Care Med. 2019 Mar;47(3):428-435.
233. Heesakkers H, Devlin JW, Slooter AJC, van den Boogaard M. [Association between delirium prediction scores and days spent with delirium.](https://pubmed.ncbi.nlm.nih.gov/32247156/?from_term=Association+between+delirium+prediction+scores+and+days+spent+with+delirium&from_pos=1) J Crit Care. 2020 Mar 25;58:6-9.
234. Holmes NE, Amjad S, Young M, Berlowitz DJ, Bellomo R. [Using language descriptors to recognise delirium: a survey of clinicians and medical coders to identify delirium-suggestive words.](https://pubmed.ncbi.nlm.nih.gov/31778637/?from_term=Holmes+NE&from_cauthor_id=31778637&from_pos=1) Crit Care Resusc. 2019 Dec;21(4):299-302.
235. Halavonich L, Robert S, McGraw D, Weeda E, Mullinax K, Bass B. [Management of delirium at an academic medical center: Plans for antipsychotic prescribing upon discharge.](https://pubmed.ncbi.nlm.nih.gov/31942275/?from_term=Halavonich+L&from_cauthor_id=31942275&from_pos=1) Ment Health Clin. 2020 Jan 9;10(1):25-29
236. Lawson TN, Tan A, Thrane SE, Happ MB, Mion LC, Tate J, Balas MC. [Predictors of New-Onset Physical Restraint Use in Critically Ill Adults.](https://pubmed.ncbi.nlm.nih.gov/32114609/?from_term=Lawson+TN&from_cauthor_id=32114609&from_pos=1) Am J Crit Care. 2020 Mar 1;29(2):92-102
237. Lynch J, Rolls K, Hou YC, Hedges S, Al Sayfe M, Shunker SA, Brennan K, Sanchez D, Bogdanovski T, Hunt L, Alexandrou E, Frost SA. [Delirium in intensive care: A stepped-wedge cluster randomised controlled trial for a nurse-led intervention to reduce the incidence and duration of delirium among adults admitted to the intensive care unit (protocol).](https://pubmed.ncbi.nlm.nih.gov/32317213/?from_term=Lynch+J&from_cauthor_id=32317213&from_pos=9) Aust Crit Care. 2020 Apr 18:S1036-7314(19)30184-5
238. Cowan SL, Preller J, Goudie RJB. [Evaluation of the E-PRE-DELIRIC prediction model for ICU delirium: a retrospective validation in a UK general ICU.](https://pubmed.ncbi.nlm.nih.gov/32228666/?from_term=Cowan+SL&from_cauthor_id=32228666&from_pos=1) Crit Care. 2020 Mar 30;24(1):123.
239. Kerber K, Zangmeister J, McNett M. [Relationship Between Delirium and Ventilatory Outcomes in the Medical Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/32236430/?from_term=Kerber+K&from_cauthor_id=32236430&from_pos=1) Crit Care Nurse. 2020 Apr 1;40(2):24-31
240. Duprey MS, van den Boogaard M, van der Hoeven JG, Pickkers P, Briesacher BA, Saczynski JS, Griffith JL, Devlin JW. [Association between incident delirium and 28- and 90-day mortality in critically ill adults: a secondary analysis.](https://pubmed.ncbi.nlm.nih.gov/32312288/?from_term=Duprey+MS&from_cauthor_id=32312288&from_pos=1) Crit Care. 2020 Apr 20;24(1):161
241. Pozzi C, Tatzer VC, Álvarez EA, Lanzoni A, Graff MJL. [The applicability and feasibility of occupational therapy in delirium care.](https://pubmed.ncbi.nlm.nih.gov/32297202/?from_term=Pozzi+C&from_cauthor_id=32297202&from_pos=1) Eur Geriatr Med. 2020 Apr;11(2):209-216.
242. Spiegelberg J, Song H, Pun B, Webb P, Boehm LM. [Early Identification of Delirium in Intensive Care Unit Patients: Improving the Quality of Care.](https://pubmed.ncbi.nlm.nih.gov/32236428/?from_term=Spiegelberg+J&from_cauthor_id=32236428&from_pos=1) Crit Care Nurse. 2020 Apr 1;40(2):33-43
243. Hayhurst CJ, Marra A, Han JH, Patel MB, Brummel NE, Thompson JL, Jackson JC, Chandrasekhar R, Ely EW, Pandharipande PP, Hughes CG. [Association of Hypoactive and Hyperactive Delirium With Cognitive Function After Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/32317589/?from_term=Hayhurst+CJ&from_cauthor_id=32317589&from_pos=1) Crit Care Med. 2020 Apr 20
244. Duggan MC, Morrell ME, Chandrasekhar R, Marra A, Frimpong K, Nair DR, Girard TD, Pandharipande PP, Ely EW, Jackson JC. [A Brief Informant Screening Instrument for Dementia in the ICU: The Diagnostic Accuracy of the AD8 in Critically Ill Adults Suspected of Having Pre-Existing Dementia.](https://pubmed.ncbi.nlm.nih.gov/32259825/?from_term=Duggan+MC&from_cauthor_id=32259825&from_pos=1) Dement Geriatr Cogn Disord. 2019;48(5-6):241-249
245. Lindroth H, Khan BA, Carpenter JS, Gao S, Perkins AJ, Khan SH, Wang S, Jones RN, Boustani MA. [Delirium Severity Trajectories and Outcomes in ICU Patients: Defining a Dynamic Symptom Phenotype.](https://pubmed.ncbi.nlm.nih.gov/32383964/?from_sort=date&from_term=Lindroth+H&from_cauthor_id=32383964&from_pos=2) Ann Am Thorac Soc. 2020 May 8.
246. Shurtleff V, Radosevich JJ, Patanwala AE. J [Comparison of Ketamine- Versus Nonketamine-Based Sedation on Delirium and Coma in the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/29607710/?from_sort=date&from_term=Shurtleff+V&from_cauthor_id=29607710&from_pos=1) Intensive Care Med. 2020 Jun;35(6):536-541
247. Adams AD, Pepin MJ, Brown JN. [The role of suvorexant in the prevention of delirium during acute hospitalization: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/32480359/?from_sort=date&from_term=Adams+AD&from_cauthor_id=32480359&from_pos=1) J Crit Care. 2020 May 20;59:1-5.
248. Noguchi A, Hosokawa K, Amaya F, Yokota I. [Factors related to memory absence and delusional memories in patients in intensive care units managed with light sedation.](https://pubmed.ncbi.nlm.nih.gov/32217019/?from_sort=date&from_term=Noguchi+A&from_cauthor_id=32217019&from_pos=1) Intensive Crit Care Nurs. 2020 Aug;59:102830
249. Buckley MS, Agarwal SK, MacLaren R, Kane-Gill SL. [Adverse Hemodynamic Events Associated With Concomitant Dexmedetomidine and Propofol for Sedation in Mechanically Ventilated ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/31672073/?from_sort=date&from_term=Buckley+MS&from_cauthor_id=31672073&from_pos=1) J Intensive Care Med. 2019 Oct 31:885066619884548
250. Schuler BR, Kovacevic MP, Dube KM, Szumita PM, DeGrado JR. [Evaluation of Sedation Outcomes Following Increased Dexmedetomidine Use in the ICU.](https://pubmed.ncbi.nlm.nih.gov/32426742/?from_term=Schuler+BR%5BAuthor%5D&from_sort=date&from_pos=1) Crit Care Explor. 2020 Apr 29;2(4):e0100
251. Fiest KM, Krewulak KD, Sept BG, Spence KL, Davidson JE, Ely EW, Soo A, Stelfox HT. [A study protocol for a randomized controlled trial of family-partnered delirium prevention, detection, and management in critically ill adults: the ACTIVATE study.](https://pubmed.ncbi.nlm.nih.gov/32448187/) BMC Health Serv Res. 2020 May 24;20(1):453
252. Moslemi R, Khalili H, Mohammadi M, Mehrabi Z, Mohebbi N. [Thiamine for Prevention of Postoperative Delirium in Patients Undergoing Gastrointestinal Surgery: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/32489958/) J Res Pharm Pract. 2020 Mar 28;9(1):30-35.
253. Nedergaard HK, Jensen HI, Stylsvig M, Olsen HT, Strøm T, Toft P. [Effect of non-sedation on post-traumatic stress and psychological health in survivors of critical illness-A substudy of the NONSEDA randomized trial.](https://pubmed.ncbi.nlm.nih.gov/32470147/) Acta Anaesthesiol Scand. 2020 May 29
254. Kassew T, Dejen Tilahun A, Liyew B. [Nurses' Knowledge, Attitude, and Influencing Factors regarding Physical Restraint Use in the Intensive Care Unit: A Multicenter Cross-Sectional Study.](https://pubmed.ncbi.nlm.nih.gov/32566288/) Crit Care Res Pract. 2020 May 22;2020:4235683
255. Oh ES, Leoutsakos JM, Rosenberg PB, Pletnikova AM, Khanuja HS, Sterling RS, Oni JK, Sieber FE, Fedarko NS, Akhlaghi N, Neufeld KJ. [Effects of Ramelteon on the Prevention of Postoperative Delirium in Older Patients Undergoing Orthopedic Surgery: The RECOVER Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/32532654/) Am J Geriatr Psychiatry. 2020 May 16:S1064-7481(20)30335-3.
256. Turan A, Duncan A, Leung S, Karimi N, Fang J, Mao G, Hargrave J, Gillinov M, Trombetta C, Ayad S, Hassan M, Feider A, Howard-Quijano K, Ruetzler K, Sessler DI; DECADE Study Group. [Dexmedetomidine for reduction of atrial fibrillation and delirium after cardiac surgery (DECADE): a randomised placebo-controlled trial.](https://pubmed.ncbi.nlm.nih.gov/32682483/) Lancet. 2020 Jul 18;396(10245):177-185.
257. Andrews PS, Wang S, Perkins AJ, Gao S, Khan S, Lindroth H, Boustani M, Khan B. [Relationship Between Intensive Care Unit Delirium Severity and 2-Year Mortality and Health Care Utilization.](https://pubmed.ncbi.nlm.nih.gov/32607574/) Am J Crit Care. 2020 Jul 1;29(4):311-317
258. Wilcox ME, McAndrews MP, Van J, Jackson JC, Pinto R, Black SE, Lim AS, Friedrich JO, Rubenfeld GD. [Sleep Fragmentation and Cognitive Trajectories after Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/32717265/) Chest. 2020 Jul 24:S0012-3692(20)32054-7.
259. Meeks JR, Bambhroliya AB, Sheth SA, Khan B, Slooter AJC, Ely EW, Miller CC, Tyson JE, McCullough LD, Savitz SI, Vahidy FS. [Long-Term Cognitive Impairment Associated With Delirium in Acute Neurological Injury.](https://pubmed.ncbi.nlm.nih.gov/32695995/) Crit Care Explor. 2020 Jun 9;2(6):e0130
260. Vreman J, van Loon LM, van den Biggelaar W, van der Hoeven JG, Lemson J, van den Boogaard M. [Contribution of alarm noise to average sound pressure levels in the ICU: An observational cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/32660883/) Intensive Crit Care Nurs. 2020 Jul 10:102901.
261. Khan JM, Wood MD, Lee KFH, Maslove D, Muscedere J, English SW, Ball I, Slessarev M, Boyd JG; Canadian Critical Care Trials Group (CCCTG). [Delirium, Cerebral Perfusion and High Frequency Vital Sign Monitoring in the Critically Ill: The CONFOCAL-2 Feasibility Study.](https://pubmed.ncbi.nlm.nih.gov/32780600/) Ann Am Thorac Soc. 2020 Aug 11.
262. Ohta Y, Miyamoto K, Kawazoe Y, Yamamura H, Morimoto T. [Effect of dexmedetomidine on inflammation in patients with sepsis requiring mechanical ventilation: a sub-analysis of a multicenter randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/32778146/) Crit Care. 2020 Aug 10;24(1):493.
263. Cherak SJ, Soo A, Brown KN, Ely EW, Stelfox HT, Fiest KM. [Development and validation of delirium prediction model for critically ill adults parameterized to ICU admission acuity.](https://pubmed.ncbi.nlm.nih.gov/32813717/) PLoS One. 2020 Aug 19;15(8):e0237639.
264. Brown KN, Soo A, Faris P, Patten SB, Fiest KM, Stelfox HT. [Association between delirium in the intensive care unit and subsequent neuropsychiatric disorders.](https://pubmed.ncbi.nlm.nih.gov/32736572/) Crit Care. 2020 Jul 31;24(1):476.
265. Kim JA, Ahn HJ, Yang M, Lee SH, Jeong H, Seong BG. [Intraoperative use of dexmedetomidine for the prevention of emergence agitation and postoperative delirium in thoracic surgery: a randomized-controlled trial.](https://pubmed.ncbi.nlm.nih.gov/30710258/) Can J Anaesth. 2019 Apr;66(4):371-379
266. Sutton-Smith L. [A quality improvement project to improve the identification and management of delirium.](https://pubmed.ncbi.nlm.nih.gov/32906223/) Nurs Crit Care. 2020 Sep 9.
267. Duprey MS, Devlin JW, Skrobik Y. [Is there an association between subjective sleep quality and daily delirium occurrence in critically ill adults? A post hoc analysis of a randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/32847946/) BMJ Open Respir Res. 2020 Aug;7(1):e000576.
268. Dubiel C, Hiebert BM, Stammers AN, Sanjanwala RM, Tangri N, Singal RK, Manji RA, Rudolph JL, Arora RC. [Delirium definition influences prediction of functional survival in patients one-year postcardiac surgery.](https://pubmed.ncbi.nlm.nih.gov/32859411/) J Thorac Cardiovasc Surg. 2020 Jul 16:S0022-5223(20)32146-2.
269. Collet MO, Egerod I, Thomsen T, Wetterslev J, Lange T, Ebdrup BH, Perner A. Acta [Risk factors for long-term cognitive impairment in ICU survivors: A multicenter, prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/32852053/) Anaesthesiol Scand. 2020 Aug 27.
270. Ahlström B, Larsson IM, Strandberg G, Lipcsey M. [A nationwide study of the long-term prevalence of dementia and its risk factors in the Swedish intensive care cohort.](https://pubmed.ncbi.nlm.nih.gov/32887659/) Crit Care. 2020 Sep 4;24(1):548.
271. Via-Clavero G, Guàrdia-Olmos J, Falcó-Pegueroles A, Gil-Castillejos D, Lobo-Cívico A, De La Cueva-Ariza L, Romero-García M, Delgado-Hito P. [Factors influencing critical care nurses' intentions to use physical restraints adopting the theory of planned behaviour: A cross-sectional multicentre study.](https://pubmed.ncbi.nlm.nih.gov/32331708/) Aust Crit Care. 2020 Sep;33(5):426-435.
272. Smit L, Trogrlić Z, Devlin JW, Osse RJ, Ponssen HH, Slooter AJC, Hunfeld NGM, Rietdijk WJR, Gommers D, van der Jagt M; EuRIDICE study group. [Efficacy of halopeRIdol to decrease the burden of Delirium In adult Critically ill patiEnts (EuRIDICE): study protocol for a prospective randomised multi-centre double-blind placebo-controlled clinical trial in the Netherlands.](https://pubmed.ncbi.nlm.nih.gov/32967873/) BMJ Open. 2020 Sep 23;10(9):e036735
273. Luz LFDS, Santos MCD, Ramos TA, Almeida CB, Rover MC, Dal'Pizzol CP, Pohren CLDS, Martins AVDS, Boniatti MM. [Delirium and quality of life in critically ill patients: a prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/33053033/) Rev Bras Ter Intensiva. 2020 Jul-Sep;32(3):426-432
274. LaHue SC, Douglas VC, Kuo T, Conell CA, Liu VX, Josephson SA, Angel C, Brooks KB. [Association between Inpatient Delirium and Hospital Readmission in Patients ≥ 65 Years of Age: A Retrospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/30933669/) J Hosp Med. 2019 Apr;14(4):201-206.
275. Ewers R, Bloomer MJ, Hutchinson A. [An exploration of the reliability and usability of two delirium screening tools in an Australian ICU: A pilot study.](https://pubmed.ncbi.nlm.nih.gov/32873426/) Intensive Crit Care Nurs. 2020 Aug 30:102919.
276. Paterson et al Accuracy of delirium assessments in critically ill children: A prospective, observational study during routine care. Aus Crit Care 2020. <https://doi.org/10.1016/j.aucc.2020.07.012>
277. Bellapart J, Appadurai V, Lassig-Smith M, Stuart J, Zappala C, Boots R. [Effect of Exogenous Melatonin Administration in Critically Ill Patients on Delirium and Sleep: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/33029397/) Crit Care Res Pract. 2020 Sep 23;2020:3951828.
278. Gandolfi JV, Di Bernardo APA, Chanes DAV, Martin DF, Joles VB, Amendola CP, Sanches LC, Ciorlia GL, Lobo SM. [The Effects of Melatonin Supplementation on Sleep Quality and Assessment of the Serum Melatonin in ICU Patients: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/33048904/) Crit Care Med. 2020 Oct 13. doi: 10.1097/CCM.0000000000004690
279. Douglas SL, Hobbs HA, Sibley SR, Digby GC. [Providing Evidence-Based Care, Day and Night: A Quality Improvement Initiative to Improve Intensive Care Unit Patient Sleep Quality.](https://pubmed.ncbi.nlm.nih.gov/32954939/) J Intensive Care Med. 2020 Sep 21:885066620960629
280. Brummel NE, Hughes CG, Thompson JL, Jackson JC, Pandharipande P, McNeil JB, Raman R, Orun OM, Ware LB, Bernard GR, Ely EW, Girard TD. [Inflammation and Coagulation during Critical Illness and Long-Term Cognitive Impairment and Disability.](https://pubmed.ncbi.nlm.nih.gov/33030981/) Am J Respir Crit Care Med. 2020 Oct 8. doi: 10.1164/rccm.201912-2449OC
281. Nedergaard HK, Jensen HI, Stylsvig M, Olsen HT, Korkmaz S, Strøm T, Toft P. [Effect of Nonsedation on Cognitive Function in Survivors of Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/33048901/) Crit Care Med. 2020 Oct 13. doi: 10.1097/CCM.0000000000004573
282. Nordness MF, Patel MB, Erickson CR, Kiehl A, Jackson JC, Raman R, Pandharipande PP, Ely EW, Wilson JE. [Depression Predicts Long-Term Cognitive Impairment in Survivors of Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/33017354/) J Trauma Acute Care Surg. 2020 Oct 2. doi: 10.1097/TA.0000000000002955
283. Humeidan ML, Reyes JC, Mavarez-Martinez A, Roeth C, Nguyen CM, Sheridan E, Zuleta-Alarcon A, Otey A, Abdel-Rasoul M, Bergese SD. [Effect of Cognitive Prehabilitation on the Incidence of Postoperative Delirium Among Older Adults Undergoing Major Noncardiac Surgery: The Neurobics Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/33175114/) JAMA Surg. 2020 Nov 11:e204371
284. Andrews JL, Louzon PR, Torres X, Pyles E, Ali MH, Du Y, Devlin JW. [Impact of a Pharmacist-Led Intensive Care Unit Sleep Improvement Protocol on Sleep Duration and Quality.](https://pubmed.ncbi.nlm.nih.gov/33166192/) Ann Pharmacother. 2020 Nov 9:1060028020973198
285. Kram BL, Schultheis JM, Kram SJ, Cox CE. [A Pharmacy-Based Electronic Handoff Tool to Reduce Discharge Prescribing of Atypical Antipsychotics Initiated in the Intensive Care Unit: A Quality Improvement Initiative.](https://pubmed.ncbi.nlm.nih.gov/29486664/) J Pharm Pract. 2019 Aug;32(4):434-441
286. Lambert J, Vermassen J, Fierens J, Peperstraete H, Petrovic M, Colpaert K. [Discharge from hospital with newly administered antipsychotics after intensive care unit delirium - Incidence and contributing factors.](https://pubmed.ncbi.nlm.nih.gov/33171333/) J Crit Care. 2020 Nov 2;61:162-167
287. Fernández-Gonzalo S, Navarra-Ventura G, Bacardit N, Gomà Fernández G, de Haro C, Subirà C, López-Aguilar J, Magrans R, Sarlabous L, Aquino Esperanza J, Jodar M, Rué M, Ochagavía A, Palao DJ, Fernández R, Blanch L. [Cognitive phenotypes 1 month after ICU discharge in mechanically ventilated patients: a prospective observational cohort study.](https://pubmed.ncbi.nlm.nih.gov/33087171/) Crit Care. 2020 Oct 21;24(1):618
288. Sprung J, Knopman DS, Petersen RC, Mielke MM, Weingarten TN, Vassilaki M, Martin DP, Schulte PJ, Hanson AC, Schroeder DR, Laporta ML, White RJ, Vemuri P, Warner DO. [Association of Hospitalization with Long-Term Cognitive Trajectories in Older Adults.](https://pubmed.ncbi.nlm.nih.gov/33128387/) J Am Geriatr Soc. 2020 Oct 31.
289. Krewulak KD, Rosgen BK, Ely EW, Stelfox HT, Fiest KM. [The CAM-ICU-7 and ICDSC as measures of delirium severity in critically ill adult patients.](https://pubmed.ncbi.nlm.nih.gov/33196655/) PLoS One. 2020 Nov 16;15(11):e0242378
290. Krewulak KD, Hiploylee C, Ely EW, Stelfox HT, Inouye SK, Fiest KM. [Adaptation and Validation of a Chart-Based Delirium Detection Tool for the ICU (CHART-DEL-ICU).](https://pubmed.ncbi.nlm.nih.gov/33348428/) J Am Geriatr Soc. 2020 Dec 21.
291. Sprung J, Warner DO, Knopman DS, Petersen RC, Mielke MM, Jack CR Jr, Martin DP, Hanson AC, Schroeder DR, Przybelski SA, Schulte PJ, Laporta ML, Weingarten TN, Vemuri P. [Brain MRI after critical care admission: A longitudinal imaging study.](https://pubmed.ncbi.nlm.nih.gov/33340966/) J Crit Care. 2020 Dec 5;62:117-123
292. Fukuda T, Kinoshita Y, Shirahama T, Miyazaki S, Watanabe N, Misawa T. Clin [Distorted Memories and Related Factors in ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/33289396/) Nurs Res. 2020 Dec 8:1054773820980162
293. Richardson SJ, Davis DHJ, Stephan BCM, Robinson L, Brayne C, Barnes LE, Taylor JP, Parker SG, Allan LM. [Recurrent delirium over 12 months predicts dementia: results of the Delirium and Cognitive Impact in Dementia (DECIDE) study.](https://pubmed.ncbi.nlm.nih.gov/33320945/) Age Ageing. 2020 Dec 16:afaa244
294. Fritze T, Doblhammer G, Widmann CN, Heneka MT. [Time course of dementia following sepsis in German health claims data.](https://pubmed.ncbi.nlm.nih.gov/33293458/) Neurol Neuroimmunol Neuroinflamm. 2020 Dec 8;8(1):e911
295. Momeni M, Khalifa C, Lemaire G, Watremez C, Tircoveanu R, Van Dyck M, Kahn D, Rosal Martins M, Mastrobuoni S, De Kerchove L, Zango SH, Jacquet LM. Br [Propofol plus low dose dexmedetomidine infusion and postoperative delirium in older patients undergoing cardiac surgery.](https://pubmed.ncbi.nlm.nih.gov/33358336/) J Anaesth. 2020 Dec 23:S0007-0912(20)30954-5
296. Chaudhary A, Kumari V, Neetu N. [Sleep Promotion among Critically Ill Patients: Earplugs/Eye Mask versus Ocean Sound-A Randomized Controlled Trial Study.](https://pubmed.ncbi.nlm.nih.gov/33425385/) Crit Care Res Pract. 2020 Dec 23;2020:8898172
297. Munro CL, Liang Z, Ji M, Elías MN, Chen X, Calero K, Ely EW. [Family automated voice reorientation (FAVoR) intervention for mechanically ventilated patients in the intensive care unit: Study protocol for a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33482395/) Contemp Clin Trials. 2021 Jan 19;102:106277.
298. Huang X, Lei L, Zhang S, Yang J, Yang L, Xu M. [Implementation of the "awakening and breathing trials, choice of drugs, delirium management, and early exercise/mobility" bundle in the pediatric intensive care unit of tertiary hospitals in southwestern China: a cross-sectional survey.](https://pubmed.ncbi.nlm.nih.gov/33513055/) J Int Med Res. 2021 Jan;49(1):300060520987770
299. Boncyk CS, Farrin E, Stollings JL, Rumbaugh K, Wilson JE, Marshall M, Feng X, Shotwell MS, Pandharipande PP, Hughes CG. [Pharmacologic Management of Intensive Care Unit Delirium: Clinical Prescribing Practices and Outcomes in More Than 8500 Patient Encounters.](https://pubmed.ncbi.nlm.nih.gov/33433117/) Anesth Analg. 2021 Jan 11. doi: 10.1213/ANE.0000000000005365
300. Groetzinger LM, Rivosecchi RM, McVerry BJ, Smithburger PL, Lamberty PE, Donahoe MP, Barbash IJ. [A Quality Improvement Evaluation of a Primary As-Needed Light Sedation Protocol in Mechanically Ventilated Adults.](https://pubmed.ncbi.nlm.nih.gov/33354671/) Crit Care Explor. 2020 Dec 16;2(12):e0264.
301. Hughes CG, Mailloux PT, Devlin JW, Swan JT, Sanders RD, Anzueto A, Jackson JC, Hoskins AS, Pun BT, Orun OM, Raman R, Stollings JL, Kiehl AL, Duprey MS, Bui LN, O'Neal HR Jr, Snyder A, Gropper MA, Guntupalli KK, Stashenko GJ, Patel MB, Brummel NE, Girard TD, Dittus RS, Bernard GR, Ely EW, Pandharipande PP; MENDS2 Study Investigators. [Dexmedetomidine or Propofol for Sedation in Mechanically Ventilated Adults with Sepsis.](https://pubmed.ncbi.nlm.nih.gov/33528922/) N Engl J Med. 2021 Feb 2. doi: 10.1056/NEJMoa2024922.
302. Rengel et al Motoric Subtypes of Delirium and Long-Term Functional and Mental Health Outcomes in Adults After Critical Illness. Critical Care Medicine: [February 23, 2021](https://journals.lww.com/ccmjournal/toc/9000/00000)
303. Gou RY, Hshieh TT, Marcantonio ER, Cooper Z, Jones RN, Travison TG, Fong TG, Abdeen A, Lange J, Earp B, Schmitt EM, Leslie DL, Inouye SK; SAGES Study Group. [One-Year Medicare Costs Associated With Delirium in Older Patients Undergoing Major Elective Surgery.](https://pubmed.ncbi.nlm.nih.gov/33625501/) JAMA Surg. 2021 Feb 24:e207260
304. Liang S, Chau JPC, Lo SHS, Li S, Gao M. [Implementation of ABCDEF care bundle in intensive care units: A cross-sectional survey.](https://pubmed.ncbi.nlm.nih.gov/33522036/) Nurs Crit Care. 2021 Jan 31. doi: 10.1111/nicc.12597.
305. Grayson et al The Effect of Early Sedation With Dexmedetomidine on Body Temperature in Critically Ill Patients. Critical Care Medicine: [February 23, 2021](https://journals.lww.com/ccmjournal/toc/9000/00000)
306. Delaney LJ, Litton E, Melehan KL, Huang HC, Lopez V, Van Haren F. [The feasibility and reliability of actigraphy to monitor sleep in intensive care patients: an observational study.](https://pubmed.ncbi.nlm.nih.gov/33514414/) Crit Care. 2021 Jan 29;25(1):42
307. Wang et al Trajectory of Cognitive Decline After Sepsis. Critical Care Medicine: [February 18, 2021](https://journals.lww.com/ccmjournal/toc/9000/00000)
308. Maiden MJ, Bone A, Fitzpatrick M; George Institute for Global Health, and the Australian and New Zealand Intensive Care Society Clinical Trials Group. [Physical restraint of patients in Australia and New Zealand intensive care units.](https://pubmed.ncbi.nlm.nih.gov/33180169/) Intensive Care Med. 2021 Feb;47(2):234-236
309. Shehabi Y, Serpa Neto A, Howe BD, Bellomo R, Arabi YM, Bailey M, Bass FE, Kadiman SB, McArthur CJ, Reade MC, Seppelt IM, Takala J, Wise MP, Webb SA; SPICE III Study Investigators. [Early sedation with dexmedetomidine in ventilated critically ill patients and heterogeneity of treatment effect in the SPICE III randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33686482/) Intensive Care Med. 2021 Apr;47(4):455-466
310. Wongtangman K, Grabitz SD, Hammer M, Wachtendorf LJ, Xu X, Schaefer MS, Fassbender P, Santer P, Kassis EB, Talmor D, Eikermann M; SICU Optimal Mobilization Team (SOMT) Group. [Optimal Sedation in Patients Who Receive Neuromuscular Blocking Agent Infusions for Treatment of Acute Respiratory Distress Syndrome-A Retrospective Cohort Study From a New England Health Care Network.](https://pubmed.ncbi.nlm.nih.gov/33710031/) Crit Care Med. 2021 Mar 12
311. Oxlund J, Knudsen T, Strøm T, Lauridsen JT, Jennum PJ, Toft P. [Serum melatonin concentration in critically ill patients randomized to sedation or non-sedation.](https://pubmed.ncbi.nlm.nih.gov/33677695/) Ann Intensive Care. 2021 Mar 6;11(1):40.
312. Tonna JE, Dalton A, Presson AP, Zhang C, Colantuoni E, Lander K, Howard S, Beynon J, Kamdar BB. [The effect of a quality improvement intervention on sleep and delirium in critically ill patients in a surgical intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/33773988/) Chest. 2021 Mar 24:S0012-3692(21)00548-1
313. Sutt AL, Flaws D, Gunn H, Eeles E, Lye I, Irvine L, Patterson S, Bagshaw T, O'Luanaigh C, Tronstad O, Fraser J. [Screening for delirium in the intensive care unit using eDIS-ICU - A purpose-designed app: A pilot study.](https://pubmed.ncbi.nlm.nih.gov/33766486/) Aust Crit Care. 2021 Mar 22:S1036-7314(20)30368-4
314. Xin X, Chen J, Hua W, Wang H. [Intraoperative dexmedetomidine for prevention of postoperative delirium in elderly patients with mild cognitive impairment.](https://pubmed.ncbi.nlm.nih.gov/33411362/) Int J Geriatr Psychiatry. 2021 Jan;36(1):143-151
315. Rose L, Burry L, Agar M, Campbell NL, Clarke M, Lee J, Marshall JC, Devlin JW, Blackwood B, Needham DM, Siddiqi N, Page V; Del-COrS Group. [A Core Outcome Set for Research Evaluating Interventions to Prevent and/or Treat Delirium in Critically Ill Adults: An International Consensus Study (Del-COrS).](https://pubmed.ncbi.nlm.nih.gov/33870914/) Crit Care Med. 2021 Apr 19
316. Obanor OO, McBroom MM, Elia JM, Ahmed F, Sasaki JD, Murphy KM, Chalk S, Menard GA, Pratt NV, Venkatachalam AM, Romito BT. [The Impact of Earplugs and Eye Masks on Sleep Quality in Surgical ICU Patients at Risk for Frequent Awakenings.](https://pubmed.ncbi.nlm.nih.gov/33870919/) Crit Care Med. 2021 Apr 16
317. Parker AM, Aldabain L, Akhlaghi N, Glover M, Yost S, Velaetis M, Lavezza A, Mantheiy E, Albert K, Needham DM. [Cognitive Stimulation in an Intensive Care Unit: A Qualitative Evaluation of Barriers to and Facilitators of Implementation.](https://pubmed.ncbi.nlm.nih.gov/33791762/) Crit Care Nurse. 2021 Apr 1;41(2):51-60.
318. Duprey MS, Devlin JW, van der Hoeven JG, Pickkers P, Briesacher BA, Saczynski JS, Griffith JL, van den Boogaard M. [Association Between Incident Delirium Treatment With Haloperidol and Mortality in Critically Ill Adults.](https://pubmed.ncbi.nlm.nih.gov/33861548/) Crit Care Med. 2021 Apr 5
319. Dixit D, Andrews LB, Radparvar S, Adams C, Kumar ST, Cardinale M. [Descriptive analysis of the unwarranted continuation of antipsychotics for the management of ICU delirium during transitions of care: A multicenter evaluation across New Jersey.](https://pubmed.ncbi.nlm.nih.gov/33895793/) Am J Health Syst Pharm. 2021 Apr 25:zxab180
320. Duprey MS, Dijkstra-Kersten SMA, Zaal IJ, Briesacher BA, Saczynski JS, Griffith JL, Devlin JW, Slooter AJC. [Opioid Use Increases the Risk of Delirium in Critically Ill Adults Independently of Pain.](https://pubmed.ncbi.nlm.nih.gov/33835902/) Am J Respir Crit Care Med. 2021 Apr 9
321. Huang LJ, Tsai HH, Wang YW, Chou CL. [Sailing in a sea of perplexity: Family caregivers' experience of delirium patients.](https://pubmed.ncbi.nlm.nih.gov/33890387/) Nurs Crit Care. 2021 Apr 23
322. Fiest KM, Soo A, Hee Lee C, Niven DJ, Ely EW, Doig CJ, Stelfox HT. Am [Long-Term Outcomes in Intensive Care Unit Patients with Delirium: A Population-Based Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/33823122/) J Respir Crit Care Med. 2021 Apr 6
323. Kawai Y, Hamamoto M, Miura A, Yamaguchi M, Masuda Y, Iwata M, Kanbe M, Ikematsu Y. [Prevalence of and factors associated with physical restraint use in the intensive care unit: a multicenter prospective observational study in Japan.](https://pubmed.ncbi.nlm.nih.gov/33852145/) Intern Emerg Med. 2021 Apr 14
324. Ward DS, Absalom AR, Aitken LM, Balas MC, Brown DL, Burry L, Colantuoni E, Coursin D, Devlin JW, Dexter F, Dworkin RH, Egan TD, Elliott D, Egerod I, Flood P, Fraser GL, Girard TD, Gozal D, Hopkins RO, Kress J, Maze M, Needham DM, Pandharipande P, Riker R, Sessler DI, Shafer SL, Shehabi Y, Spies C, Sun LS, Tung A, Urman RD. [Design of Clinical Trials Evaluating Sedation in Critically Ill Adults Undergoing Mechanical Ventilation: Recommendations From Sedation Consortium on Endpoints and Procedures for Treatment, Education, and Research (SCEPTER) Recommendation III.](https://pubmed.ncbi.nlm.nih.gov/33938718/) Crit Care Med. 2021 Apr 28.
325. Raman R, Chen W, Harhay MO, Thompson JL, Ely EW, Pandharipande PP, Patel MB. [Dealing with missing delirium assessments in prospective clinical studies of the critically ill: a simulation study and reanalysis of two delirium studies.](https://pubmed.ncbi.nlm.nih.gov/33952189/) BMC Med Res Methodol. 2021 May 6;21(1):97
326. Khera T, Mathur PA, Banner-Goodspeed VM, Narayanan S, Mcgourty M, Kelly L, Palihnich K, Novack L, Davis R, Talmor D, Marcantonio ER, Subramaniam B. [Scheduled Prophylactic 6-Hourly IV AcetaminopheN to Prevent Postoperative Delirium in Older CaRdiac SurgicAl Patients (PANDORA): protocol for a multicentre randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33692183/) BMJ Open. 2021 Mar 10;11(3):e044346
327. Nydahl P, McWilliams D, Weiler N, Borzikowsky C, Howroyd F, Brobeil A, Lindner M, von Haken R. [Mobilization in the evening to prevent delirium: A pilot randomized trial.](https://pubmed.ncbi.nlm.nih.gov/33946128/) Nurs Crit Care. 2021 May 4
328. Davis J, Berry K, McIntyre R, Conway D, Thomas A, Hanison J. [A quality improvement project for delirium prevention and management over the Greater Manchester Critical Care Network.](https://pubmed.ncbi.nlm.nih.gov/34025751/) J Intensive Care Soc. 2021 May;22(2):120-126.
329. Hughes CG, Hayhurst CJ, Pandharipande PP, Shotwell MS, Feng X, Wilson JE, Brummel NE, Girard TD, Jackson JC, Ely EW, Patel MB. [Association of Delirium during Critical Illness With Mortality: Multicenter Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/33929361/) Anesth Analg. 2021 Apr 30.
330. Rose L, Burry L, Agar M, Blackwood B, Campbell NL, Clarke M, Devlin JW, Lee J, Marshall JC, Needham DM, Siddiqi N, Page V. [A core outcome set for studies evaluating interventions to prevent and/or treat delirium for adults requiring an acute care hospital admission: an international key stakeholder informed consensus study.](https://pubmed.ncbi.nlm.nih.gov/34140006/) BMC Med. 2021 Jun 18;19(1):143
331. Naef AC, Jeitziner MM, Gerber SM, Jenni-Moser B, Müri RM, Jakob SM, Nef T, Hänggi M. [Virtual reality stimulation to reduce the incidence of delirium in critically ill patients: study protocol for a randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/33648572/) Trials. 2021 Mar 1;22(1):174.
332. Dzierba AL, Khalil AM, Derry KL, Madahar P, Beitler JR. [Discordance Between Respiratory Drive and Sedation Depth in Critically Ill Patients Receiving Mechanical Ventilation.](https://pubmed.ncbi.nlm.nih.gov/34115638/) Crit Care Med. 2021 Jun 9
333. Mori C, Boss K, Indermuhle P, Stahl E, Chiu SH, Shanks L. [Is it Noise? Factors Linked With Sleep Interruption in Hospitalized Patients.](https://pubmed.ncbi.nlm.nih.gov/34077161/) Clin Nurse Spec. 2021 Jul-Aug 01;35(4):199-207
334. Teece A, Baker J, Smith H. [Understanding the decision-making of critical care nurses when restraining a patient with psychomotor agitation secondary to hyperactive delirium: A 'Think Aloud' study.](https://pubmed.ncbi.nlm.nih.gov/34056784/) J Clin Nurs. 2021 May 30. doi: 10.1111/jocn.15889
335. Rood PJ, Zegers M, Ramnarain D, Koopmans M, Klarenbeek T, Ewalds E, van der Steen MS, Oldenbeuving AW, Kuiper MA, Teerenstra S, Adang E, van Loon LM, Wassenaar A, Vermeulen H, Pickkers P, van den Boogaard M; UNDERPIN-ICU study investigators. [The Impact of Nursing Delirium Preventive Interventions in the Intensive Care Unit: A Multicenter Cluster Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/34170798/) Am J Respir Crit Care Med. 2021 Jun 25
336. Sangari A, Emhardt EA, Salas B, Avery A, Freundlich RE, Fabbri D, Shotwell MS, Schlesinger JJ. [Delirium Variability is Influenced by the Sound Environment (DEVISE Study): How Changes in the Intensive Care Unit soundscape affect delirium incidence.](https://pubmed.ncbi.nlm.nih.gov/34173052/) J Med Syst. 2021 Jun 25;45(8):76
337. Casault C, Soo A, Lee CH, Couillard P, Niven D, Stelfox T, Fiest K. [Sedation strategy and ICU delirium: a multicentre, population-based propensity score-matched cohort study.](https://pubmed.ncbi.nlm.nih.gov/34285003/) BMJ Open. 2021 Jul 20;11(7):e045087.
338. Contreras CCT, Páez-Esteban AN, Rincon-Romero MK, Carvajal RR, Herrera MM, Castillo AHDD. [Nursing intervention to prevent delirium in critically ill adults.](https://pubmed.ncbi.nlm.nih.gov/33886913/) Rev Esc Enferm USP. 2021 Apr 16;55:e03685
339. Weiss B, Paul N, Spies CD, Ullrich D, Ansorge I, Salih F, Wolf S, Luetz A. [Influence of Patient-Specific Covariates on Test Validity of Two Delirium Screening Instruments in Neurocritical Care Patients (DEMON-ICU).](https://pubmed.ncbi.nlm.nih.gov/34374001/) Neurocrit Care. 2021 Aug 9:1-11
340. Helfand BKI, Detroyer E, Milisen K, Adamis D, Metzger ED, Boudreaux ED, Inouye SK, Jones RN. [Harmonization of Four Delirium Instruments: Creating Crosswalks and the Delirium Item-Bank (DEL-IB).](https://pubmed.ncbi.nlm.nih.gov/34417086/) Am J Geriatr Psychiatry. 2021 Jul 29:S1064-7481(21)00397-3.
341. Sinvani L, Delle Site C, Laumenede T, Patel V, Ardito S, Ilyas A, Hertz C, Wolf-Klein G, Pekmezaris R, Hajizadeh N, Thomas L. [Improving delirium detection in intensive care units: Multicomponent education and training program.](https://pubmed.ncbi.nlm.nih.gov/34402046/) J Am Geriatr Soc. 2021 Aug 16.
342. Pavone KJ, Jablonski J, Cacchione PZ, Polomano RC, Compton P. [Evaluating Pain, Opioids, and Delirium in Critically Ill Older Adults.](https://pubmed.ncbi.nlm.nih.gov/33215518/) Clin Nurs Res. 2021 May;30(4):455-463
343. Peters van Ton AM, Meijer-van Leijsen EMC, Bergkamp MI, Bronkhorst EM, Pickkers P, de Leeuw FE, Tuladhar AM, Abdo WF. [Risk of Dementia and Structural Brain Changes Following Nonneurological Infections During 9-Year Follow-Up.](https://pubmed.ncbi.nlm.nih.gov/34432713/) Crit Care Med. 2021 Aug 23
344. Ertuğrul B, Özden D. [Nurses' knowledge and attitudes regarding physical restraint in Turkish intensive care units.](https://pubmed.ncbi.nlm.nih.gov/32881252/) Nurs Crit Care. 2021 Jul;26(4):253-261
345. Evered LA, Chan MTV, Han R, Chu MHM, Cheng BP, Scott DA, Pryor KO, Sessler DI, Veselis R, Frampton C, Sumner M, Ayeni A, Myles PS, Campbell D, Leslie K, Short TG. [Anaesthetic depth and delirium after major surgery: a randomised clinical trial.](https://pubmed.ncbi.nlm.nih.gov/34465469/) Br J Anaesth. 2021 Aug 28:S0007-0912(21)00493-1
346. Casamento AJ, Serpa Neto A, Young M, Lawrence M, Taplin C, Eastwood GM, Ghosh A, Bellomo R; Assessment of Opioid Administration to Lead to Analgesic Effects and Sedation in Intensive Care (ANALGESIC) trial centers. [A Phase II Cluster-Crossover Randomized Trial of Fentanyl vs. Morphine for Analgosedation in Mechanically Ventilated Patients.](https://pubmed.ncbi.nlm.nih.gov/34543581/) Am J Respir Crit Care Med. 2021 Sep 20
347. Amer M, Maghrabi K, Bawazeer M, Alshaikh K, Shaban M, Rizwan M, Amin R, De Vol E, Baali M, Altewerki M, Bano M, Alkhaldi F, Alenazi S, Hijazi M. [Adjunctive ketamine for sedation in critically ill mechanically ventilated patients: an active-controlled, pilot, feasibility clinical trial.](https://pubmed.ncbi.nlm.nih.gov/34462007/) J Intensive Care. 2021 Aug 30;9(1):54
348. Georgopoulos D, Kondili E, Alexopoulou C, Younes M. [Effects of Sedatives on Sleep Architecture Measured With Odds Ratio Product in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/34396142/) Crit Care Explor. 2021 Aug 10;3(8):e0503.
349. Shiddapur A, Kistler CE, Busby-Whitehead J, Austin CA. [Association of Histamine-2 Blockers and Proton-Pump Inhibitors With Delirium Development in Critically Ill Adults: A Retrospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/34396144/) Crit Care Explor. 2021 Aug 10;3(8):e0507.
350. Wong C, Ho J, Ankravs MJ, Sharrock L, Kee K, Goldin J, MacIsaac C, Presneill JJ, Ali Abdelhamid Y, Deane AM. [Administration of pharmacological sleep aids prior to, during and following critical illness.](https://pubmed.ncbi.nlm.nih.gov/34392601/) Intern Med J. 2021 Aug 15.
351. Lindroth H, Mohanty S, Ortiz D, Gao S, Perkins AJ, Khan SH, Boustani MA, Khan BA. [Dynamic Delirium Severity Trajectories and Their Association With 2-Year Healthcare Utilization and Mortality Outcomes.](https://pubmed.ncbi.nlm.nih.gov/34589712/) Crit Care Explor. 2021 Sep 10;3(9):e0524
352. Wu TT, Ko S, Kooken R, van den Boogaard M, Devlin JW. [Exploring Ketamine Analgosedation Use and Its Effect on Incident Delirium in Critically Ill Adults.](https://pubmed.ncbi.nlm.nih.gov/34604786/) Crit Care Explor. 2021 Sep 28;3(10):e0544
353. Fang CS, Wang HH, Wang RH, Chou FH, Chang SL, Fang CJ. [Effect of earplugs and eye masks on the sleep quality of intensive care unit patients: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34096647/) J Adv Nurs. 2021 Nov;77(11):4321-4331
354. Meiser A, Volk T, Wallenborn J, Guenther U, Becher T, Bracht H, Schwarzkopf K, Knafelj R, Faltlhauser A, Thal SC, Soukup J, Kellner P, Drüner M, Vogelsang H, Bellgardt M, Sackey P; Sedaconda study group. [Inhaled isoflurane via the anaesthetic conserving device versus propofol for sedation of invasively ventilated patients in intensive care units in Germany and Slovenia: an open-label, phase 3, randomised controlled, non-inferiority trial.](https://pubmed.ncbi.nlm.nih.gov/34454654/) Lancet Respir Med. 2021 Nov;9(11):1231-1240
355. Contreras CCT, Esteban ANP, Parra MD, Romero MKR, Silva CGD, Buitrago NPD. [Multicomponent nursing program to prevent delirium in critically ill patients: a randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/34755800/) Rev Gaucha Enferm. 2021 Nov 3;42:e20200278
356. Andrews PS, Thompson J, Raman R, Rick C, Kiehl A, Pandharipande P, Jackson JC, Taylor WD, Ely EW, Wilson JE. [Delirium, depression, and long-term cognition.](https://pubmed.ncbi.nlm.nih.gov/34763741/) Int Psychogeriatr. 2021 Nov 12:1-6.
357. Shields LBE, Edelen A, Daniels MW, Flanders K. [Decline in Physical Restraint Use Following Implementation of Institutional Guidelines.](https://pubmed.ncbi.nlm.nih.gov/34006803/) J Nurs Adm. 2021 Jun 1;51(6):318-323
358. Balas MC, Tan A, Pun BT, Ely EW, Carson SS, Mion L, Barnes-Daly MA, Vasilevskis EE. [Effects of a National Quality Improvement Collaborative on ABCDEF Bundle Implementation.](https://pubmed.ncbi.nlm.nih.gov/34972842/) Am J Crit Care. 2022 Jan 1;31(1):54-64
359. Deeken F, Sánchez A, Rapp MA, Denkinger M, Brefka S, Spank J, Bruns C, von Arnim CAF, Küster OC, Conzelmann LO, Metz BR, Maurer C, Skrobik Y, Forkavets O, Eschweiler GW, Thomas C; PAWEL Study Group. [Outcomes of a Delirium Prevention Program in Older Persons After Elective Surgery: A Stepped-Wedge Cluster Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/34910080/) JAMA Surg. 2021 Dec 15:e216370
360. Azimaraghi O, Wongtangman K, Wachtendorf LJ, Santer P, Rumyantsev S, Ahn C, Kiyatkin ME, Teja B, Sarge T, Subramaniam B, Eikermann M. [Differential Effects of Gamma-Aminobutyric Acidergic Sedatives on Risk of Post-Extubation Delirium in the ICU: A Retrospective Cohort Study From a New England Health Care Network.](https://pubmed.ncbi.nlm.nih.gov/34982739/) Crit Care Med. 2022 Jan 5
361. Fish JT, Baxa JT, Draheim RR, Willenborg MJ, Mills JC, Sticht LA, Hankwitz JL, Wells JA, Jung HS. [Five-Year Outcomes After Implementing a Pain, Agitation, and Delirium Protocol in a Mixed Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/34841939/) J Intensive Care Med. 2021 Nov 29:8850666211063404
362. van Sleuwen M, Sun H, Eckhardt C, Neelagiri A, Tesh RA, Westmeijer M, Paixao L, Rajan S, Velpula Krishnamurthy P, Sikka P, Leone MJ, Panneerselvam E, Quadri SA, Akeju O, Kimchi EY, Westover MB. [Physiological Assessment of Delirium Severity: The Electroencephalographic Confusion Assessment Method Severity Score (E-CAM-S).](https://pubmed.ncbi.nlm.nih.gov/34582420/) Crit Care Med. 2022 Jan 1;50(1):e11-e19.
363. Oberhaus J, Wang W, Mickle AM, Becker J, Tedeschi C, Maybrier HR, Upadhyayula RT, Muench MR, Lin N, Schmitt EM, Inouye SK, Avidan MS. [Evaluation of the 3-Minute Diagnostic Confusion Assessment Method for Identification of Postoperative Delirium in Older Patients.](https://pubmed.ncbi.nlm.nih.gov/34902038/) JAMA Netw Open. 2021 Dec 1;4(12):e2137267
364. Beltrami FG, John ÂB, de Macedo BR, Corrêa Júnior V, Nguyen XL, Pichereau C, Maury E, Fleury B, Gus M, Fagondes SC. [A multi-intervention protocol to improve sleep quality in a coronary care unit.](https://pubmed.ncbi.nlm.nih.gov/34935040/) Eur J Cardiovasc Nurs. 2021 Dec 22:zvab099
365. Luk E, Burry L, Rezaie S, Mehta S, Rose L. [Critical care nurses' decisions regarding physical restraints in two Canadian ICUs: A prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/26837121/) Can J Crit Care Nurs. 2015 Winter;26(4):16-22
366. Akpinar RB, Aksoy M, Kant E. [Effect of earplug/eye mask on sleep and delirium in intensive care patients.](https://pubmed.ncbi.nlm.nih.gov/35021263/) Nurs Crit Care. 2022 Jan 12
367. Faustino TN, Suzart NA, Rabelo RNDS, Santos JL, Batista GS, Freitas YS, Saback DA, Sales NMMD, Brandao Barreto B, Gusmao-Flores D. [Effectiveness of combined non-pharmacological interventions in the prevention of delirium in critically ill patients: A randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/34999377/) J Crit Care. 2022 Jan 6;68:114-120
368. Bersaneti MDR, Whitaker IY. [Association between nonpharmacological strategies and delirium in intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/35052018/) Nurs Crit Care. 2022 Jan 20
369. Paixao L, Sun H, Hogan J, Hartnack K, Westmeijer M, Neelagiri A, Zhou DW, McClain LM, Kimchi EY, Purdon PL, Akeju O, Westover MB. [ICU delirium burden predicts functional neurologic outcomes.](https://pubmed.ncbi.nlm.nih.gov/34855749/) PLoS One. 2021 Dec 2;16(12):e0259840
370. Hoffman CJ, Ersser SJ, Hopkinson JB, Nicholls PG, Harrington JE, Thomas PW. [Effectiveness of mindfulness-based stress reduction in mood, breast- and endocrine-related quality of life, and well-being in stage 0 to III breast cancer: a randomized, controlled trial.](https://pubmed.ncbi.nlm.nih.gov/22430268/) J Clin Oncol. 2012 Apr 20;30(12):1335-42
371. Chen, C. M., Cheng, A. C., Chou, W., Selvam, P., & Cheng, C. M. (2021). [Outcome of improved care bundle in acute respiratory failure patients](https://doi.org/10.1111/nicc.12530). *Nursing in critical care*, *26*(5), 380–385.
372. Oh TK, Park HY, Song IA. [Factors associated with delirium among survivors of acute respiratory distress syndrome: a nationwide cohort study.](https://pubmed.ncbi.nlm.nih.gov/34724913/) BMC Pulm Med. 2021 Nov 1;21(1):341
373. Bersaneti MDR, Whitaker IY. [Association between nonpharmacological strategies and delirium in intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/35052018/) Nurs Crit Care. 2022 Jan 20. doi: 10.1111/nicc.12750
374. Taylor J, Parker M, Casey CP, Tanabe S, Kunkel D, Rivera C, Zetterberg H, Blennow K, Pearce RA, Lennertz RC, Sanders RD. [Postoperative delirium and changes in the blood-brain barrier, neuroinflammation, and cerebrospinal fluid lactate: a prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/35144802/) Br J Anaesth. 2022 Feb 7:S0007-0912(22)00013-7
375. Head J, Gray V, Masud F, Townsend J. [Positive Stimulation for Medically Sedated Patients (PSMSP): A Music Therapy Intervention to Treat Sedation-Related Delirium in Critical Care.](https://pubmed.ncbi.nlm.nih.gov/35176274/) Chest. 2022 Feb 14:S0012-3692(22)00259-8
376. Ko RE, Kang D, Park H, Cho J, Suh GY, Chung CR. [Association between the presence of delirium during intensive care unit admission and cognitive impairment or psychiatric problems: the Korean ICU National Data Study.](https://pubmed.ncbi.nlm.nih.gov/35164863/) J Intensive Care. 2022 Feb 14;10(1):7
377. Wibrow B, Martinez FE, Myers E, Chapman A, Litton E, Ho KM, Regli A, Hawkins D, Ford A, van Haren FMP, Wyer S, McCaffrey J, Rashid A, Kelty E, Murray K, Anstey M. [Prophylactic melatonin for delirium in intensive care (Pro-MEDIC): a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35220473/) Intensive Care Med. 2022 Apr;48(4):414-425
378. Hollinger A, Rüst CA, Riegger H, Gysi B, Tran F, Brügger J, Huber J, Toft K, Surbeck M, Schmid HR, Rentsch K, Steiner L, Siegemund M. [Ketamine vs. haloperidol for prevention of cognitive dysfunction and postoperative delirium: A phase IV multicentre randomised placebo-controlled double-blind clinical trial.](https://pubmed.ncbi.nlm.nih.gov/33120302/) J Clin Anesth. 2021 Feb;68:110099.
379. Greindl S, Weiss B, Magnolini R, Lingg C, Mayer H, Schaller SJ. [Detection of delirium by family members in the intensive care unit: Translation, Cross-Cultural adaptation and validation of the Family Confusion Assessment Method for the German-Speaking area.](https://pubmed.ncbi.nlm.nih.gov/35301750/) J Adv Nurs. 2022 Mar 17.
380. Shinohara F, Unoki T, Horikawa M. [Relationship between no-visitation policy and the development of delirium in patients admitted to the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/35263384/) PLoS One. 2022 Mar 9;17(3):e0265082
381. Kasapoğlu, E. S., & Enç, N. (2022). [Role of multicomponent non-pharmacological nursing interventions on delirium prevention: A randomized controlled study](https://doi.org/10.1016/j.gerinurse.2022.02.015). *Geriatric nursing (New York, N.Y.)*, *44*, 207–214.
382. Moss, S. J., Hee Lee, C., Doig, C. J., Whalen-Browne, L., Stelfox, H. T., & Fiest, K. M. (2022). [Delirium diagnosis without a gold standard: Evaluating diagnostic accuracy of combined delirium assessment tools](https://doi.org/10.1371/journal.pone.0267110). *PloS one*, *17*(4), e0267110.
383. Young, M., Holmes, N., Kishore, K., Marhoon, N., Amjad, S., Serpa-Neto, A., & Bellomo, R. (2022). [Natural language processing diagnosed behavioral disturbance vs confusion assessment method for the intensive care unit: prevalence, patient characteristics, overlap, and association with treatment and outcome](https://doi.org/10.1007/s00134-022-06650-z). *Intensive care medicine*, *48*(5),559–569.
384. Brown JC, Querubin JA, Ding L, Mack WJ, Chen-Chan K, Perez F, Barr J, Peden CJ, Cobb JP. [Improving ABCDEF Bundle Compliance and Clinical Outcomes in the ICU: Randomized Control Trial to Assess the Impact of Performance Measurement, Feedback, and Data Literacy Training.](https://pubmed.ncbi.nlm.nih.gov/35474653/) Crit Care Explor. 2022 Apr 21;4(4):e0679
385. Zhou Y, Yang J, Wang B, Wang P, Wang Z, Yang Y, Liang G, Jing X, Jin X, Zhang Z, Deng Y, Hu C, Liao X, Yin W, Tang Z, Tian Y, Tao L, Kang Y. [Sequential use of midazolam and dexmedetomidine for long-term sedation may reduce weaning time in selected critically ill, mechanically ventilated patients: a randomized controlled study](https://pubmed.ncbi.nlm.nih.gov/35505432/). Crit Care. 2022 May 3;26(1):122
386. Shi HJ, Yuan RX, Zhang JZ, Chen JH, Hu AM. [Effect of midazolam on delirium in critically ill patients: a propensity score analysis.](https://pubmed.ncbi.nlm.nih.gov/35466751/) J Int Med Res. 2022 Apr;50(4):3000605221088695
387. Rosgen BK, Krewulak KD, Davidson JE, Ely EW, Stelfox HT, Fiest KM. BMC [Associations between caregiver-detected delirium and symptoms of depression and anxiety in family caregivers of critically ill patients: a cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/33836699/) Psychiatry. 2021 Apr 9;21(1):187.
388. Gupta P, Martin JL, Malhotra A, Bergstrom J, Grandner MA, Kamdar BB. J [Circadian rest-activity misalignment in critically ill medical intensive care unit patients.](https://pubmed.ncbi.nlm.nih.gov/35388552/) Sleep Res. 2022 Apr 6:e13587
389. Owaki N, Tanaka M, Kawakami A. [Development of a scale measuring the difficulties faced by nurses who care for patients with delirium in intensive care units.](https://pubmed.ncbi.nlm.nih.gov/35595665/) Aust Crit Care. 2022 May 17
390. Martin L, Lyons M, Patton A, O Driscoll M, McLoughlin K, Hannon E, Deasy C. [Implementing delirium screening in the emergency department: a quality improvement project.](https://pubmed.ncbi.nlm.nih.gov/35764360/) BMJ Open Qual. 2022 Jun;11(2):e001676
391. Jongjun et al [Safety and efficacy of ciprofol vs. propofol for sedation in intensive care unit patients with mechanical ventilation: a multi-center, open label, randomized, phase 2 trial](https://journals.lww.com/cmj/Fulltext/2022/05050/Safety_and_efficacy_of_ciprofol_vs__propofol_for.7.aspx). Chinese Medical Journal 2022
392. Suleiman A, Santer P, Munoz-Acuna R, Hammer M, Schaefer MS, Wachtendorf LJ, Rumyantsev S, Berra L, Chamadia S, Johnson-Akeju O, Baedorf-Kassis EN, Eikermann M. [Effects of Ketamine Infusion on Breathing and Encephalography in Spontaneously Breathing ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/35934953/) J Intensive Care Med. 2022 Aug 8:8850666221119716
393. **Palakshappa JA**, Russell GB, Gibbs KW, Kloefkorn C, Hayden D, Moss M, Hough CL, Files DC; NHLBI PETAL Network. [Association of early sedation level with patient outcomes in moderate-to-severe acute respiratory distress syndrome: Propensity-score matched analysis.](https://pubmed.ncbi.nlm.nih.gov/35905586/) J Crit Care. 2022 Oct;71:154118
394. Wampole C, McKenna A, Riker RR, May TL, Seder DB, Abram D, Fraser GL, Gagnon DJ. [Opioid Prescribing Patterns Before, During, and After Critical Illness: An Observational Study.](https://pubmed.ncbi.nlm.nih.gov/35923596/) Crit Care Explor. 2022 Jul 26;4(7):e0735
395. Wang XP, Lv D, Chen YF, Chen N, Li XD, Xu CF, Li Y, Tian L. [Impact of Pain, Agitation, and Delirium Bundle on Delirium and Cognitive Function](https://pubmed.ncbi.nlm.nih.gov/35608396/). J Nurs Res. 2022 Aug 1;30(4):e222.
396. Austin CA, Yi J, Lin FC, Pandharipande P, Ely EW, Busby-Whitehead J, Carson SS. [The Association of Selective Serotonin Reuptake Inhibitors With Delirium in Critically Ill Adults: A Secondary Analysis of the Bringing to Light the Risk Factors and Incidence of Neuropsychologic Dysfunction in ICU Survivors ICU Study.](https://pubmed.ncbi.nlm.nih.gov/35923593/) Crit Care Explor. 2022 Jul 19;4(7):e0740
397. Wu TT, Kooken R, Zegers M, Ko S, Bienvenu OJ, Devlin JW, van den Boogaard M. [**Baseline** **Anxiety** and **Depression** and **Risk** for **ICU** **Delirium**: A **Prospective** **Cohort** **Study**.](https://pubmed.ncbi.nlm.nih.gov/35923592/)  Crit Care Explor. 2022 Jul 21;4(7):e0743
398. Balas MC, Tan A, Mion LC, Pun B, Jun J, Brockman A, Mu J, Ely EW, Vasilevskis EE. [Factors Associated With Spontaneous Awakening Trial and Spontaneous Breathing Trial Performance in Adults With Critical Illness: Analysis of a Multicenter, Nationwide, Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/35063453/) Chest. 2022 Sep;162(3):588-602
399. Ortiz D, Lindroth HL, Braly T, Perkins AJ, Mohanty S, Meagher AD, Khan SH, Boustani MA, Khan BA. [Delirium severity does not differ between medical and surgical intensive care units after adjusting for medication use.](https://pubmed.ncbi.nlm.nih.gov/36002562/) Sci Rep. 2022 Aug 24;12(1):14447
400. Seyffert S, Moiz S, Coghlan M, Balozian P, Nasser J, Rached EA, Jamil Y, Naqvi K, Rawlings L, Perkins AJ, Gao S, Hunter JD 3rd, Khan S, Heiderscheit A, Chlan LL, Khan B. [Decreasing delirium through music listening (DDM) in critically ill, mechanically ventilated older adults in the intensive care unit: a two-arm, parallel-group, randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/35854358/) Trials. 2022 Jul 19;23(1):576
401. Merliot-Gailhoustet L, Raimbert C, Garnier O, Carr J, De Jong A, Molinari N, Jaber S, Chanques G. [Discomfort improvement for critically ill patients using electronic relaxation devices: results of the cross-over randomized controlled trial E-CHOISIR (Electronic-CHOIce of a System for Intensive care Relaxation).](https://pubmed.ncbi.nlm.nih.gov/36057612/) Crit Care. 2022 Sep 3;26(1):263
402. Brennan K, Sanchez D, Hedges S, Lynch J, Hou YC, Al Sayfe M, Shunker SA, Bogdanoski T, Hunt L, Alexandrou E, He S, Mai H, Rolls K, Frost SA. [A nurse-led intervention to reduce the incidence and duration of delirium among adults admitted to intensive care: A stepped-wedge cluster randomised trial.](https://pubmed.ncbi.nlm.nih.gov/36182540/) Aust Crit Care. 2022 Sep 28:S1036-7314(22)00115-1
403. Mottaghi S, Nikoupour H, Firoozifar M, Jalali SS, Jamshidzadeh A, Vazin A, Shafiekhani M. [The effect of taurine supplementation on delirium post liver transplantation: A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36081295/) Clin Nutr. 2022 Oct;41(10):2211-2218
404. Kamdar B et al. Development and Evaluation of an Intensive Care Unit Video Series to Educate Staff on Delirium Detection. ATS Scholar, Oct 2022. <https://doi.org/10.34197/ats-scholar.2022-0011OC>
405. Li HC, Yeh TY, Wei YC, Ku SC, Xu YJ, Chen CC, Inouye S, Boehm LM. [Association of Incident Delirium With Short-term Mortality in Adults With Critical Illness Receiving Mechanical Ventilation.](https://pubmed.ncbi.nlm.nih.gov/36205994/) JAMA Netw Open. 2022 Oct 3;5(10):e2235339
406. Oxlund J, Knudsen T, Sörberg M, Strøm T, Toft P, Jennum PJ. [Sleep quality and quantity determined by polysomnography in mechanically ventilated critically ill patients randomized to dexmedetomidine or placebo.](https://pubmed.ncbi.nlm.nih.gov/36194395/) Acta Anaesthesiol Scand. 2022 Oct 4
407. Shehabi Y, Serpa Neto A, Bellomo R, Howe BD, Arabi YM, Bailey M, Bass FE, Bin Kadiman S, McArthur CJ, Reade MC, Seppelt IM, Takala J, Wise MP, Webb SA; SPICE III study investigators. [Dexmedetomidine and Propofol Sedation in Critically Ill Patients and Dose Associated 90-day Mortality: A Secondary Cohort Analysis of a Randomized Controlled Trial (SPICE-III).](https://pubmed.ncbi.nlm.nih.gov/36215171/) Am J Respir Crit Care Med. 2022 Oct 10
408. Bodet-Contentin L, Szymkowicz E, Delpierre E, Chartier D, Gadrez P, Muller G, Renault A, Ehrmann S. [Eye tracking communication with intubated critically ill patients: a proof-of-concept multicenter pilot study.](https://pubmed.ncbi.nlm.nih.gov/35546732/) Minerva Anestesiol. 2022 Sep;88(9):690-697
409. Guttormson JL, McAndrew NS. [Usability Testing of an iPad Communication Application for Mechanically Ventilated Patients.](https://pubmed.ncbi.nlm.nih.gov/36179313/) Dimens Crit Care Nurs. 2022 Nov-Dec 01;41(6):340-346
410. Andersen-Ranberg NC, et al AID-ICU Trial Group. [Haloperidol for the Treatment of Delirium in ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/36286254/) N Engl J Med. 2022 Oct 26.
411. iang JL, Zhang L, He LL, Yu H, Li XF, Dai SH, Yu H. [Volatile Versus Total Intravenous Anesthesia on Postoperative Delirium in Adult Patients Undergoing Cardiac Valve Surgery: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/36301724/) Anesth Analg. 2022 Oct 27
412. Matsuoka A, Tobita S, Sogawa R, Shinada K, Murakawa-Hirachi T, Shimanoe C, Monji A, Mizoguchi Y, Miike T, Sakamoto Y. [Evaluation of Suvorexant and Lemborexant for the Prevention of Delirium in Adult Critically Ill Patients at an Advanced Critical Care Center: A Single-Center, Retrospective, Observational Study.](https://pubmed.ncbi.nlm.nih.gov/36350599/) J Clin Psychiatry. 2022 Nov 7;84(1):22m14471
413. Ala-Kokko T, Erikson K, Koskenkari J, Laurila J, Kortelainen J. [Monitoring of nighttime EEG slow-wave activity during dexmedetomidine infusion in patients with hyperactive ICU delirium: An observational pilot study.](https://pubmed.ncbi.nlm.nih.gov/36053891/) Acta Anaesthesiol Scand. 2022 Nov;66(10):1211-1218
414. Prendergast NT, Onyemekwu CA, Potter KM, Tiberio PJ, Turnbull AE, Girard TD. [Agitation is a Common Barrier to Recovery of ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/36300248/) J Intensive Care Med. 2022 Oct 26:8850666221134262
415. Azimaraghi O, Smith V, Sauer WJ, Alpert JE, Eikermann M. [Agitated Patients in the Intensive Care Unit: Guidelines for Causal Rather Than Symptomatic Treatment are Warranted.](https://pubmed.ncbi.nlm.nih.gov/36373702/) J Intensive Care Med. 2022 Nov 13:8850666221138234
416. Esfahanian F, Mirmohammadsadeghi A, Gholami H, Neshat S, Mansouri M, Sadeghi M, Bathaie SR, Heidari Z, Mirmohammadsadeghi M. [Using Music for the Prevention of Delirium in Patients After Coronary Artery Bypass Graft Surgery: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/36241502/) J Cardiothorac Vasc Anesth. 2022 Dec;36(12):4341-4346
417. Hoch J, Bauer JM, Bizer M, Arnold C, Benzinger P. [Nurses' competence in recognition and management of delirium in older patients: development and piloting of a self-assessment tool.](https://pubmed.ncbi.nlm.nih.gov/36402941/) BMC Geriatr. 2022 Nov 19;22(1):879
418. Jaworska et al. [A National Modified Delphi Consensus Process to Prioritize Experiences and Interventions for Antipsychotic Medication Deprescribing Among Adult Patients With Critical Illness.](https://journals.lww.com/ccejournal/fulltext/2022/12000/a_national_modified_delphi_consensus_process_to.5.aspx) Critical Care Explorations 4(12):p e0806
419. Moore JPR, Shehabi Y, Reade MC, Bailey M, Fraser JF, Murray L, Anstey C, Singer M. [Stress response during early sedation with dexmedetomidine compared with usual-care in ventilated critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/36419197/) Crit Care. 2022 Nov 22;26(1):359
420. Alostaz Z, Rose L, Mehta S, Johnston L, Dale CM. [Interprofessional intensive care unit (ICU) team perspectives on physical restraint practices and minimization strategies in an adult ICU: A qualitative study of contextual influences.](https://pubmed.ncbi.nlm.nih.gov/36443064/) Nurs Crit Care. 2022 Nov 28
421. de la Varga-Martínez O, Gutiérrez-Bustillo R, Muñoz-Moreno MF, López-Herrero R, Gómez-Sánchez E, Tamayo E. [Postoperative delirium: An independent risk factor for poorer quality of life with long-term cognitive and functional decline after cardiac surgery.](https://pubmed.ncbi.nlm.nih.gov/36463611/) J Clin Anesth. 2022 Dec 1;85:111030
422. Sahle BW, Pilcher D, Litton E, Ofori-Asenso R, Peter K, McFadyen J, Bucknall T. [Association between frailty, delirium, and mortality in older critically ill patients: a binational registry study.](https://pubmed.ncbi.nlm.nih.gov/36394660/) Ann Intensive Care. 2022 Nov 17;12(1):108
423. Qu JZ, Mueller A, McKay TB, Westover MB, Shelton KT, Shaefi S, D'Alessandro DA, Berra L, Brown EN, Houle TT, Akeju O; MINDDS Study Team. [Nighttime dexmedetomidine for delirium prevention in non-mechanically ventilated patients after cardiac surgery (MINDDS): A single-centre, parallel-arm, randomised, placebo-controlled superiority trial.](https://pubmed.ncbi.nlm.nih.gov/36590787/) EClinicalMedicine. 2022 Dec 24;56:101796
424. Devlin JW, Hughes CG. [Nighttime dexmedetomidine for postoperative delirium prevention: a promising step forward.](https://pubmed.ncbi.nlm.nih.gov/36618895/) EClinicalMedicine. 2022 Dec 30;56:101812
425. Marcantonio ER. [Haloperidol for Treatment of ICU Delirium - Progress or Setback?](https://pubmed.ncbi.nlm.nih.gov/36577104/) N Engl J Med. 2022
426. Soukup J, Michel P, Christel A, Schittek GA, Wagner NM, Kellner P. [Prolonged sedation with sevoflurane in comparison to intravenous sedation in critically ill patients - A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36640476/) J Crit Care. 2023 Jan 12;74:154251
427. Duan S, Liao Y, Tang Y, Zhang B, Peng M, Tong J, Ouyang W, LE Y. [**Short**-**term** perioperative cognitive therapy combined with rehabilitation exercise reduces the incidence of neurocognitive disorder in elderly patients: a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35315627/) Minerva Anestesiol. 2022 Mar;88(3):145-155
428. Smit L, Wiegers EJA, Trogrlic Z, Rietdijk WJR, Gommers D, Ista E, van der Jagt M. [Prognostic significance of delirium subtypes in critically ill medical and surgical patients: a secondary analysis of a prospective multicenter study.](https://pubmed.ncbi.nlm.nih.gov/36539913/) J Intensive Care. 2022 Dec 20;10(1):54
429. Williams Roberson S, Azeez NA, Fulton JN, Zhang KC, Lee AXT, Ye F, Pandharipande P, Brummel NE, Patel MB, Ely EW. [Quantitative EEG signatures of delirium and coma in mechanically ventilated ICU patients.](https://pubmed.ncbi.nlm.nih.gov/36529066/) Clin Neurophysiol. 2023 Feb;146:40-48
430. Appiani FJ, Duarte JM, Sauré M, Rodríguez Cairoli F, Momeño V, Yaryour C, Sarotto L. [Catatonia and Delirium: Assessment of Comorbidity, Prevalence, and Therapeutic Response in Medically Ill Inpatients From a University Hospital.](https://pubmed.ncbi.nlm.nih.gov/36584250/) J Clin Psychopharmacol. 2023 Jan-Feb 01;43(1):55-59
431. Brown RT, Shultz K, Karlawish J, Zhou Y, Xie D, Ryskina KL. [Benzodiazepine and antipsychotic use among hospitalized older adults before versus after restricting visitation: March to May 2020.](https://pubmed.ncbi.nlm.nih.gov/35775444/) J Am Geriatr Soc. 2022 Oct;70(10):2988-2995
432. Oxlund J, Knudsen T, Leonthin H, Toft P, Jennum PJ. [Subjective sleep assessment compared to polysomnography in mechanically ventilated critically ill ICU patients.](https://pubmed.ncbi.nlm.nih.gov/36576326/) Acta Anaesthesiol Scand. 2022 Dec 28
433. Burry LD, Bell CM, Hill A, Pinto R, Scales DC, Bronskill SE, Williamson D, Rose L, Fu L, Fowler R, Martin CM, Dolovich L, Wunsch H. [New and Persistent Sedative Prescriptions Among Older Adults After Critical Illness: A Population-Based Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/36610663/) Chest. 2023 Jan 4:S0012-3692(23)00011-9
434. Zelenkov D, Hollins R, Mahoney EJ, Faugno AJ, Poyant J. [The Impact of a Pharmacist-Driven Multicomponent Sleep-Promoting Protocol on Delirium in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/36594245/) J Pharm Pract. 2023 Jan 3:8971900221148581
435. Shi Y. [Effects of Melatonin on Postoperative Delirium After PCI in Elderly Patients: A Randomized, Single-Center, Double-Blind, Placebo-Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/34730495/) Heart Surg Forum. 2021 Oct 21;24(5):E893-E897
436. McWilliams D, King E, Nydahl P, Darbyshire JL, Gallie L, Barghouthy D, Bassford C, Gustafson O. [Mobilisation in the EveNing to TreAt deLirium (MENTAL): protocol for a mixed-methods feasibility randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36737097/) BMJ Open. 2023 Feb 3;13(2):e066143
437. Jaiswal SJ, Bagsic SRS, Takata E, Kamdar BB, Ancoli-Israel S, Owens RL. [Actigraphy-based sleep and activity measurements in intensive care unit patients randomized to ramelteon or placebo for delirium prevention.](https://pubmed.ncbi.nlm.nih.gov/36702822/) Sci Rep. 2023 Jan 26;13(1):1450
438. van Bochove-Waardenburg M, van der Jagt M, de Man-van Ginkel J, Ista E. [Sustained adherence to a delirium guideline five years after implementation in an intensive care setting: A retrospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/36731265/) Intensive Crit Care Nurs. 2023 Jan 31;76:103398
439. Valencia Morales DJ, Garbajs NZ, Tawfic SS, Jose T, Laporta ML, Schroeder DR, Weingarten TN, Sprung J. Am [Intraoperative Blood Pressure Variability and Early Postoperative Stroke: A Case-Control Study.](https://pubmed.ncbi.nlm.nih.gov/36426383/) Surg. 2022 Nov 24:31348221136578
440. Oh TK, Park HY, Song IA. [Factors associated with delirium among survivors of acute respiratory distress syndrome: a nationwide cohort study.](https://pubmed.ncbi.nlm.nih.gov/34724913/) BMC Pulm Med. 2021 Nov 1;21(1):341
441. Qu JZ, Mueller A, McKay TB, Westover MB, Shelton KT, Shaefi S, D'Alessandro DA, Berra L, Brown EN, Houle TT, Akeju O; MINDDS Study Team. [Nighttime dexmedetomidine for delirium prevention in non-mechanically ventilated patients after cardiac surgery (MINDDS): A single-centre, parallel-arm, randomised, placebo-controlled superiority trial.](https://pubmed.ncbi.nlm.nih.gov/36590787/) EClinicalMedicine. 2022 Dec 24;56:101796.
442. Choi KJ, Tan M, Jones K, Sheski D, Cho S, Garrick T, Yau A, Solio D, Sinclair K, Cervantes E, Castillo RA, Clark D, Biswas S, Alvarez C, Grunstein I, Cobb JP, Kuza CM. [The impact of rounds with a psychiatry team in the intensive care unit: A prospective observational pilot study evaluating the effects on delirium incidence and outcomes.](https://pubmed.ncbi.nlm.nih.gov/36774832/) J Psychiatr Res. 2023 Apr;160:64-70
443. Casey K, Sim E, Lavezza A, Iannuzzi K, Friedman LA, Hoyer EH, Young DL. [Identifying Cognitive Impairment in the Acute Care Hospital Setting: Finding an Appropriate Screening Tool.](https://pubmed.ncbi.nlm.nih.gov/36764005/) Am J Occup Ther. 2023 Jan 1;77(1):7701205010
444. Dallı ÖE, Yıldırım Y, Aykar FŞ, Kahveci F. [The effect of music on delirium, pain, sedation and anxiety in patients receiving mechanical ventilation in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/36470699/) Intensive Crit Care Nurs. 2023 Apr;75:103348
445. Mata Ferro M, Falcó Pegueroles A, Fernández Lorenzo R, Saz Roy MÁ, Rodríguez Forner O, Estrada Jurado CM, Bonet Julià N, Geli Benito C, Hernández Hernández R, Bosch Alcaraz A. [The effect of a live music therapy intervention on critically ill paediatric patients in the intensive care unit: A quasi-experimental pretest-posttest study.](https://pubmed.ncbi.nlm.nih.gov/36868934/) Aust Crit Care. 2023 Mar 1:S1036-7314(23)00010-3
446. Mion LC, Tan A, Brockman A, Tate JA, Vasilevskis EE, Pun BT, Rosas SR, Balas MC. [An Exploration of Critical Care Professionals' Strategies to Enhance Daily Implementation of the Assess, Prevent, and Manage Pain; Both Spontaneous Awakening and Breathing Trials; Choice of Analgesia and Sedation; Delirium Assess, Prevent, and Manage; Early Mobility and Exercise; and Family Engagement and Empowerment: A Group Concept Mapping Study.](https://pubmed.ncbi.nlm.nih.gov/36890874/) Crit Care Explor. 2023 Mar 3;5(3):e0872
447. Aldawood ZS, Alameri RA, Elghoneimy Y, Swyan AHA, Almulla H, Hammad SS, Saleh NSA, Alameri SA. [Impact of Educational Program on Critical Care Nurses' Knowledge of ICU Delirium: A Quasi-Experimental Study.](https://pubmed.ncbi.nlm.nih.gov/36919128/) Med Arch. 2023 Feb;77(1):56-63
448. Louis M, Treger K, Ashby T, Smotherman C, Gautum S, Seeram V, Cury J, Jones L. [Patient-related factors may influence nursing perception of sleep in the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/31905204/) PLoS One. 2020 Jan 6;15(1):e0226323.
449. van der Heijden EFM, Kooken RWJ, Zegers M, Simons KS, van den Boogaard M. [Differences in long-term outcomes between ICU patients with persistent delirium, non-persistent delirium and no delirium: A longitudinal cohort study.](https://pubmed.ncbi.nlm.nih.gov/36804824/) J Crit Care. 2023 Feb 18;76:154277
450. Tsui A, Yeo N, Searle SD, Bowden H, Hoffmann K, Hornby J, Goslett A, Weston-Clarke M, Lanham D, Hogan P, Seeley A, Rawle M, Chaturvedi N, Sampson EL, Rockwood K, Cunningham C, Ely EW, Richardson SJ, Brayne C, Muniz Terrera G, Tieges Z, MacLullich AMJ, Davis D. [Extremes of baseline cognitive function determine the severity of delirium: a population study.](https://pubmed.ncbi.nlm.nih.gov/36856697/) Brain. 2023 Feb 28:awad062
451. Zhang Y, Wilkins JM, Bessette LG, York C, Wong V, Lin KJ. [Antipsychotic Medication Use Among Older Adults Following Infection-Related Hospitalization.](https://pubmed.ncbi.nlm.nih.gov/36800180/) JAMA Netw Open. 2023 Feb 1;6(2):e230063.
452. Ditzel FL, Slooter AJC, van den Boogaard M, Boonstra M, van Nesselrooij TA, Kromkamp M, Pop-Purceleanu M, Rood PJT, Osse RJ, Chan CK, MacLullich AMJ, Tieges Z, Neufeld KJ, Hut SCA. [The Delirium Interview as a new reference standard in studies on delirium assessment tools.](https://pubmed.ncbi.nlm.nih.gov/36807119/) J Am Geriatr Soc. 2023 Feb 21.
453. Rose L, Blackwood B, Needham DM, Devlin JW, Clarke M, Burry LD. [Measures for the Core Outcome Set for Research Evaluating Interventions to Prevent and/or Treat Delirium in Critically Ill Adults: An International Consensus Study (Del-COrS).](https://pubmed.ncbi.nlm.nih.gov/37025304/) Crit Care Explor. 2023 Apr 3;5(4):e0884
454. Andersen-Ranberg NC, Poulsen LM, Perner A, Hästbacka J, Morgan M, Citerio G, Collet MO, Weber SO, Andreasen AS, Bestle M, Uslu B, Pedersen HS, Nielsen LG, Damgaard K, Jensen TB, Sommer T, Dey N, Mathiesen O, Granholm A. [Haloperidol vs. placebo for the treatment of delirium in ICU patients: a pre-planned, secondary Bayesian analysis of the AID-ICU trial.](https://pubmed.ncbi.nlm.nih.gov/36971791/) Intensive Care Med. 2023 Apr;49(4):411-420
455. Lee S, Sohn JY, Hwang IE, Lee HJ, Yoon S, Bahk JH, Kim BR. [Effect of a repeated verbal reminder of orientation on emergence agitation after general anaesthesia for minimally invasive abdominal surgery: a randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36697272/) Br J Anaesth. 2023 Apr;130(4):439-445.
456. Rosenberg K. [Prognostic Accuracy of Delirium Prediction Models.](https://pubmed.ncbi.nlm.nih.gov/36951348/) Am J Nurs. 2023 Apr 1;123(4):55
457. Tronstad O, Patterson S, Sutt AL, Pearse I, Hay K, Liu K, Sato K, Koga Y, Matsuoka A, Hongo T, Rätsep I, Fraser JF, Flaws D; eDIS-ICU study investigators. [A protocol of an international validation study to assess the clinical accuracy of the eDIS-ICU delirium screening tool.](https://pubmed.ncbi.nlm.nih.gov/37003849/) Aust Crit Care. 2023 Mar 30:S1036-7314(23)00030-9
458. Kunicki ZJ, Ngo LH, Marcantonio ER, Tommet D, Feng Y, Fong TG, Schmitt EM, Travison TG, Jones RN, Inouye SK. [Six-Year Cognitive Trajectory in Older Adults Following Major Surgery and Delirium.](https://pubmed.ncbi.nlm.nih.gov/36939716/) JAMA Intern Med. 2023 May 1;183(5):442-450
459. Tao J, Seier K, Marasigan-Stone CB, Simondac JS, Pascual AV, Kostelecky NT, SantaTeresa E, Nwogugu SO, Yang JJ, Schmeltz J, Tan KS, Chawla S, Voigt LP. [Delirium as a Risk Factor for Mortality in Critically Ill Patients With Cancer.](https://pubmed.ncbi.nlm.nih.gov/36808995/) JCO Oncol Pract. 2023 Feb 21:OP2200395
460. O'Brien K, Feng R, Sieber F, et al; REGAIN (Regional versus General Anesthesia for Promoting Independence after Hip Fracture) Investigators. [Outcomes with spinal versus general anesthesia for patients with and without preoperative cognitive impairment: Secondary analysis of a randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/37170754/) Alzheimers Dement. 2023 May 12
461. Nakamura R, Miyamoto K, Tsuji K, Ozaki K, Kunimoto H, Honda K, Nishimura Y, Kato S. J [The impact of a preoperative nurse-led orientation program on postoperative delirium after cardiovascular surgery: a retrospective single-center observational study.](https://pubmed.ncbi.nlm.nih.gov/37198714/) Intensive Care. 2023 May 17;11(1):20
462. Collet L, Lanore A, Alaterre C, Constantin JM, Martin GL, Caille A, James A, Dechartres A. [Heterogeneity in the definition of delirium in ICUs and association with the intervention effect in randomized controlled trials: a meta-epidemiological study.](https://pubmed.ncbi.nlm.nih.gov/37143091/) Crit Care. 2023 May 4;27(1):170
463. Minami T, Watanabe H, Kato T, et al. [Dexmedetomidine versus haloperidol for sedation of non-intubated patients with hyperactive delirium during the night in a high dependency unit: study protocol for an open-label, parallel-group, randomized controlled trial (DEX-HD trial).](https://pubmed.ncbi.nlm.nih.gov/37270483/) BMC Anesthesiol. 2023 Jun 3;23(1):193
464. Alvarez EA, Rojas VA, Caipo LI, Galaz MM, Ponce DP, Gutierrez RG, Salech F, Tobar E, Reyes FI, Vergara RC, Egaña JI, Briceño CA, Penna A. [Non-pharmacological prevention of postoperative delirium by occupational therapy teams: A randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/36817762/) Front Med (Lausanne). 2023 Feb 2;10:1099594
465. Liu Y, Peng Z, Liu S, et al. [Efficacy and Safety of Ciprofol Sedation in ICU Patients Undergoing Mechanical Ventilation: A Multicenter, Single-Blind, Randomized, Noninferiority Trial.](https://pubmed.ncbi.nlm.nih.gov/37272947/) Crit Care Med. 2023 Jun 2
466. Vasunilashorn SM, Lunardi N, Newman JC, Crosby G, Acker L, Abel T, Bhatnagar S, Cunningham C, de Cabo R, Dugan L, Hippensteel JA, Ishizawa Y, Lahiri S, Marcantonio ER, Xie Z, Inouye SK, Terrando N, Eckenhoff RG; NIDUS Delirium Network. [Preclinical and translational models for delirium: Recommendations for future research from the NIDUS delirium network.](https://pubmed.ncbi.nlm.nih.gov/36799408/) Alzheimers Dement. 2023 May;19(5):2150-2174
467. Chang YL, Hsieh MJ, Chang YC, Yeh SL, Chen SW, Tsai YF. [Self-efficacy of caring for patients in the intensive care unit with delirium: Development and validation of a scale for intensive care unit nurses.](https://pubmed.ncbi.nlm.nih.gov/36137875/) Aust Crit Care. 2023 Jul;36(4):449-454
468. Liang S, Chau JPC, Lo SHS, Choi KC, Bai L, Cai W. [The effects of a sensory stimulation intervention for preventing delirium in a surgical intensive care unit: A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/37057826/) Nurs Crit Care. 2023 Apr 14
469. Kaufmann C, Zech N, Brandt F, Hilker M, Debl K, Creutzenberg M, Zeman F, Graf BM, Sinner B. [Intraoperative suggestions to prevent postoperative delirium in patients undergoing transaortic valvular replacement: a randomized placebo-controlled trial.](https://pubmed.ncbi.nlm.nih.gov/37392348/) Aging Clin Exp Res. 2023 Jul 1
470. Kamdar BB, Fine JM, Pavini MT, et al. [Phase I pilot safety and feasibility of a novel restraint device for critically ill patients requiring mechanical ventilation](https://journals.sagepub.com/doi/10.1177/17511437231182503). Journal of the Intensive Care Society. 2023;0(0)
471. Shi HJ, Zhang XP, Hai C, Shi W, Wang P, Hu AM. [Opioids increase the risk of delirium in critically ill patients: A propensity score analysis.](https://pubmed.ncbi.nlm.nih.gov/37143379/) Int J Clin Pharmacol Ther. 2023 Jul;61(7):289-296
472. Collet MO, Nielsen AH, Larsen LK, Laerkner E, Jensen JF, Mortensen CB, Lehmkuhl L, Thorn L, Rossen BS, Nielsen TA, Laursen E, Shiv LH, Villumsen M, Rahr MN, Svenningsen H. [Delirium and delirium severity screening in the intensive care-correspondence of screenings tools.](https://pubmed.ncbi.nlm.nih.gov/37438182/) Aust Crit Care. 2023 Jul 10:S1036-7314(23)00082-6
473. Alaterre C, Fazilleau C, Cayot-Constantin S, Chanques G, Kacer S, Constantin JM, James A. [Monitoring delirium in the intensive care unit: Diagnostic accuracy of the CAM-ICU tool when performed by certified nursing assistants - A prospective multicenter study.](https://pubmed.ncbi.nlm.nih.gov/37451087/) Intensive Crit Care Nurs. 2023 Jul 12;79:103487
474. Krogseth M, Davis D, Jackson TA, Zetterberg H, Watne LO, Lindberg M, Chitalu P, Tsui A, Selbæk G, Wyller TB. [Delirium, neurofilament light chain, and progressive cognitive impairment: analysis of a prospective Norwegian population-based cohort.](https://pubmed.ncbi.nlm.nih.gov/37459878/) Lancet Healthy Longev. 2023 Aug;4(8):e399-e408
475. Stollings JL, Rumbaugh KA, Wang L, Hayhurst CJ, Ely EW, Hughes CG. [Correlation of the Critical Care Pain Observation Tool and Numeric Rating Scale in Intensive Care Unit Patients.](https://pubmed.ncbi.nlm.nih.gov/37455408/) J Intensive Care Med. 2023 Jul 16:8850666231187336
476. Kinouchi M, Mihara T, Taguri M, Ogura M. [The Efficacy of Ramelteon to Prevent Postoperative Delirium After General Anesthesia in the Elderly: A Double-Blind, Randomized, Placebo-Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/37567839/) Am J Geriatr Psychiatry. 2023 Jul 24:S1064-7481(23)00369-X
477. Makhija H, Fine JM, Pollack D, Novelli F, Davidson JE, Cotton SA, Diaz De Leon B, Reyes PA, Montoya JL, Arroyo-Novoa CM, Figueroa-Ramos MI, Song Y, Fuentes AL, LaBuzetta JN, Moore AA, Ely EW, Malhotra A, Needham DM, Martin JL, Kamdar BB. [Development and Validation of an ICU Delirium Playbook for Provider Education.](https://pubmed.ncbi.nlm.nih.gov/37457918/) Crit Care Explor. 2023 Jul 13;5(7):e0939
478. Garcez FB, Garcia de Alencar JC, Fernandez SSM, Avelino-Silva VI, Sabino EC, Martins RCR, Franco LAM, Lima Ribeiro SM, Possolo de Souza H, Avelino-Silva TJ. [Association Between Gut Microbiota and Delirium in Acutely Ill Older Adults.](https://pubmed.ncbi.nlm.nih.gov/36869725/) J Gerontol A Biol Sci Med Sci. 2023 Aug 2;78(8):1320-1327
479. Özsaban A, Üzen Cura Ş, Yılmaz Coşkun E, Kibar D. [Investigation of pain associated with endotracheal aspiration and affecting factors in an intensive care setting: A prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/36604267/) Aust Crit Care. 2023 Sep;36(5):687-694
480. Lin L, Peng Y, Huang X, Li S, Chen L, **Lin Y.** [A family intervention to prevent postoperative delirium in patients undergoing cardiac valve surgery: A randomized controlled study.](https://pubmed.ncbi.nlm.nih.gov/37714079/) Heart Lung. 2023 Sep 13;63:1-8
481. Almuhairi ES, Badejo M, Peer A, Pitkanen M, McKenzie CA. [The Validity and Applicability of the Revised Delirium Rating Scale (DRS-R98) for Delirium Severity Assessment in a Critical Care Setting.](https://pubmed.ncbi.nlm.nih.gov/37670545/) J Intensive Care Med. 2023 Sep 5:8850666231199986
482. Sexton MT, Kim A, McGonigle T, Mihalko S, Vandekar SN, Brummel NE, Patel MB, Dittus RS, Heckers S, Pandharipande PP, Ely EW, Wilson JE. [In-hospital catatonia, delirium, and coma and mortality: Results from the delirium and catatonia prospective cohort investigation.](https://pubmed.ncbi.nlm.nih.gov/37580182/) Schizophr Res. 2023 Aug 12:S0920-9964(23)00257-8
483. Bowman EML, Brummel NE, Caplan GA, et al. [Advancing specificity in delirium: The delirium subtyping initiative.](https://pubmed.ncbi.nlm.nih.gov/37522255/) Alzheimers Dement. 2023 Jul 31
484. Shorofi SA, Dadashian P, Arbon P, Moosazadeh M. [The efficacy of earplugs and eye masks for delirium severity and sleep quality in patients undergoing coronary artery bypass grafting in cardiac intensive care units: A single-blind, randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/37802695/) Aust Crit Care. 2023 Oct 4:S1036-7314(23)00155-8
485. Kiliç G, Kav S. [Effect of using eye masks and earplugs in preventing delirium in intensive care patients: A single-blinded, randomized, controlled trial.](https://pubmed.ncbi.nlm.nih.gov/37138379/) Nurs Crit Care. 2023 Sep;28(5):698-708
486. Chen B, Wu L, Fang Z, Zheng J, Dong W, Hong X, Jin P. [Association between preoperative on-site CCU visits and postoperative delirium in patients undergoing cardiac surgery: A retrospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/36404271/) Nurs Crit Care. 2023 Sep;28(5):689-697
487. Fuchita M, Blaine C, Keyworth A, Morfin K, Primi B, Ridgeway K, Stake N, Watson H, Matlock D, Mehta AB. [Perspectives on Sedation Among Interdisciplinary Team Members in ICU: A Survey Study.](https://pubmed.ncbi.nlm.nih.gov/37670739/) Crit Care Explor. 2023 Sep 1;5(9):e0972
488. Tronstad O, Flaws D, Patterson S, Holdsworth R, Fraser JF. [Creating the ICU of the future: patient-centred design to optimise recovery.](https://pubmed.ncbi.nlm.nih.gov/37865760/) Crit Care. 2023 Oct 21;27(1):402
489. Smit L, Slooter AJC, Devlin JW, Trogrlic Z, Hunfeld NGM, Osse RJ, Ponssen HH, Brouwers AJBW, Schoonderbeek JF, Simons KS, van den Boogaard M, Lens JA, Boer DP, Gommers DAMPJ, Rietdijk WJR, van der Jagt M; EuRIDICE study group. [Efficacy of haloperidol to decrease the burden of delirium in adult critically ill patients: the EuRIDICE randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/37904241/) Crit Care. 2023 Oct 30;27(1):413
490. [German Network of Early Mobilization](https://pubmed.ncbi.nlm.nih.gov/?sort=date&size=50&term=German+Network+of+Early+Mobilization%5BCorporate+Author%5D) International survey of intensive care clinicians: Would you like to be sedated in case of a critical care admission?Intensive Crit Care Nurs . 2024 Feb:80:103577.
491. Bosch NA, Myers LC, Jafarzadeh SR, Wunsch H, Stevens JP, Liu VX, Walkey AJ. Ann [Temporal Trends in Use of Opioids for Patients with Acute Respiratory Failure following "Analgesia-First" Sedation Guidelines.](https://pubmed.ncbi.nlm.nih.gov/37847821/) Am Thorac Soc. 2023 Oct 17
492. Georgopoulos D, Kondili E, Gerardy B, Alexopoulou C, Bolaki M, Younes M. [Sleep Architecture Patterns in Critically Ill Patients and Survivors of Critical Illness: A Retrospective Study.](https://pubmed.ncbi.nlm.nih.gov/37413661/) Ann Am Thorac Soc. 2023 Nov;20(11):1624-1632
493. Nielsen AH, Larsen LK, Collet MO, Lehmkuhl L, Bekker C, Jensen JF, Laerkner E, Nielsen TA, Rossen BS, Thorn L, Laursen E, Fischer S, Villumsen M, Shiv LH, Høgh M, Rahr MN, Svenningsen H. [Intensive care unit nurses' perception of three different methods for delirium screening: A survey (DELIS-3).](https://pubmed.ncbi.nlm.nih.gov/36774292/) Aust Crit Care. 2023 Nov;36(6):1035-1042
494. Kooken RWJ, Tilburgs B, Ter Heine R, Ramakers B, van den Boogaard M; PRAISE study group. [A multicomponent intervention program to Prevent and Reduce AgItation and phySical rEstraint use in the ICU (PRAISE): study protocol for a multicenter, stepped-wedge, cluster randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38082351/) Trials. 2023 Dec 11;24(1):800
495. Dogan TD, Guttenthaler V, Zimmermann A, Kunsorg A, Dinç MÖ, Knuelle N, Schewe JC, Wittmann M. [Functional intervention following cardiac surgery to prevent postoperative delirium in older patients (FEEL WELL study).](https://pubmed.ncbi.nlm.nih.gov/38093389/) J Intensive Care. 2023 Dec 13;11(1):62
496. Zhang S, Ding S, Cui W, Li X, Wei J, Wu Y. [Impact of Clinical Decision Support System Assisted prevention and management for Delirium on guideline adherence and cognitive load among Intensive Care Unit nurses (CDSSD-ICU): Protocol of a multicentre, cluster randomized trial.](https://pubmed.ncbi.nlm.nih.gov/38015867/) PLoS One. 2023 Nov 28;18(11):e0293950
497. Dayton K, Hudson M, Lindroth H. [Stopping Delirium Using the Awake-and-Walking Intensive Care Unit Approach: True Mastery of Critical Thinking and the ABCDEF Bundle.](https://pubmed.ncbi.nlm.nih.gov/38033207/) AACN Adv Crit Care. 2023 Dec 15;34(4):359-366
498. Wu TT, Vernooij LM, Duprey MS, Zaal IJ, Gélinas C, Devlin JW, Slooter AJC. [Relationship Between Pain and Delirium in Critically Ill Adults.](https://pubmed.ncbi.nlm.nih.gov/38053750/) Crit Care Explor. 2023 Dec 1;5(12):e1012
499. Kinouchi M, Mihara T, Taguri M, Ogura M. [The Efficacy of Ramelteon to Prevent Postoperative Delirium After General Anesthesia in the Elderly: A Double-Blind, Randomized, Placebo-Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/37567839/) Am J Geriatr Psychiatry. 2023 Dec;31(12):1178-1189
500. Mortensen CB, Andersen-Ranberg NC, Poulsen LM, et al. . [Long-term outcomes with haloperidol versus placebo in acutely admitted adult ICU patients with delirium.](https://pubmed.ncbi.nlm.nih.gov/38170227/) Intensive Care Med. 2024 Jan;50(1):103-113
501. Spies C, Piazena H, Deja M, Wernecke KD, Willemeit T, Luetz A; ICU Design Working Group. [Modification in ICU Design May Affect Delirium and Circadian Melatonin: A Proof of Concept Pilot Study.](https://pubmed.ncbi.nlm.nih.gov/38112493/) Crit Care Med. 2023 Dec 19
502. van der Hoeven AE, Bijlenga D, van der Hoeven E, Schinkelshoek MS, Hiemstra FW, Kervezee L, van Westerloo DJ, Fronczek R, Lammers GJ. [Sleep in the intensive and intermediate care units: Exploring related factors of delirium, benzodiazepine use and mortality.](https://pubmed.ncbi.nlm.nih.gov/38171236/) Intensive Crit Care Nurs. 2024 Jan 2;81:103603
503. Van Camp E, Rault C, Heraud Q, Frat JP, Balbous A, Thille AW, Fernagut PO, Drouot X. [Correlation Between Sleep Continuity and Patient-Reported Sleep Quality in Conscious Critically Ill Patients at High Risk of Reintubation: A Pilot Study.](https://pubmed.ncbi.nlm.nih.gov/38053748/) Crit Care Explor. 2023 Dec 1;5(12):e1016
504. Chen PY, Kuo TM, Chen SH, Huang HC, Chen TJ, Wang TH, Wang HL, Chiu HY. [Psychometric properties and structural validity of traditional Chinese version of the Richards-Campbell Sleep Questionnaire in intensive care unit patients without physical restraint.](https://pubmed.ncbi.nlm.nih.gov/38182530/) Aust Crit Care. 2024 Jan 4:S1036-7314(23)00194-7
505. Berger S et al [Adverse events related to physical restraint use in intensive care units: A review of the literature](https://www.sciencedirect.com/science/article/pii/S2667100X23000920). Journal of Intensive Medicine 2023
506. Lee S, Sohn JY, Hwang IE, Lee HJ, Yoon S, Bahk JH, Kim BR. [Effect of a repeated verbal reminder of orientation on emergence agitation after general anaesthesia for minimally invasive abdominal surgery: a randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36697272/) Br J Anaesth. 2023 Apr;130(4):439-445
507. Stollings JL, Boncyk CS, Birdrow CI, Chen W, Raman R, Gupta DK, Roden DM, Rivera EL, Maiga AW, Rakhit S, Pandharipande PP, Ely EW, Girard TD, Patel MB. [Antipsychotics and the QTc Interval During Delirium in the Intensive Care Unit: A Secondary Analysis of a Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/38252439/) JAMA Netw Open. 2024 Jan 2;7(1):e2352034
508. Owen VS, Sinnadurai S, Morrissey J, Colaco H, Wickson P, Dyjur D, Redlich M, O'Neill B, Zygun DA, Doig CJ, Harris J, Zuege DJ, Stelfox HT, Faris PD, Fiest KM, Niven DJ; Critical Care Strategic Clinical Network. [Multicentre implementation of a quality improvement initiative to reduce delirium in adult intensive care units: An interrupted time series analysis.](https://pubmed.ncbi.nlm.nih.gov/38199062/)

J Crit Care. 2024 Jan 9;81:154524

1. Ottens TH, Hermes C, Page V, Oldham M, Arora R, Bienvenu OJ 3rd, van den Boogaard M, Caplan G, Devlin JW, Friedrich ME, van Gool WA, Hanison J, Hansen HC, Inouye SK, Kamholz B, Kotfis K, Maas MB, MacLullich AMJ, Marcantonio ER, Morandi A, van Munster BC, Müller-Werdan U, Negro A, Neufeld KJ, Nydahl P, Oh ES, Pandharipande P, Radtke FM, Raedt S, Rosenthal LJ, Sanders R, Spies CD, Vardy ERLC, Wijdicks EF, Slooter AJC. [The Delphi Delirium Management Algorithms. A practical tool for clinicians, the result of a modified Delphi expert consensus approach.](https://pubmed.ncbi.nlm.nih.gov/38348284/) Delirium (Bielef). 2024;2024:10.56392/001c.90652
2. Gallie L. [Delirium: name it, say it-loud and clear.](https://pubmed.ncbi.nlm.nih.gov/38270640/) Intensive Care Med. 2024 Feb;50(2):314-316.
3. Huet O, Gargadennec T, Oilleau JF, Rozec B, Nesseler N, Bouglé A, Kerforne T, Lasocki S, Eljezi V, Dessertaine G, Amour J, Chapalain X; EXACTUM and the Atlanrea Study Group. [Prevention of post-operative delirium using an overnight infusion of dexmedetomidine in patients undergoing cardiac surgery: a pragmatic, randomized, double-blind, placebo-controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38419119/) Crit Care. 2024 Feb 29;28(1):64
4. Peters BJ, Kooda KJ, Brown CS, Miles TM, Kangas CA, Mara KC, Rivera M, Skrupky LP. [Ketamine for Primary Analgosedation in Critically Ill Surgery and Trauma Patients Requiring Mechanical Ventilation.](https://pubmed.ncbi.nlm.nih.gov/38283259/) Crit Care Explor. 2024 Jan 25;6(2):e1041.
5. Waydhas C, Ull C, Cruciger O, Hamsen U, Schildhauer TA, Gaschler R, Weckwerth C. [Behavioral pain scale may not be reliable in awake non-verbal intensive care patients: a case control study.](https://pubmed.ncbi.nlm.nih.gov/38424502/) BMC Anesthesiol. 2024 Feb 29;24(1):84
6. Kotfis K, Maj P, Szylińska A, Pankowiak M, Reszka E, Ely EW, Marra A. [The spectrum of psychological disorders in family members of patients suffering from delirium associated with critical illness: a prospective, observational study.](https://pubmed.ncbi.nlm.nih.gov/38402273/) Sci Rep. 2024 Feb 24;14(1):4562
7. Gómez Tovar LO, Henao Castaño AM. [Dynamic delirium - Nursing intervention to reduce delirium in patients critically Ill, a randomized control trial.](https://pubmed.ncbi.nlm.nih.gov/38518455/) Intensive Crit Care Nurs. 2024 Mar 21;83:103691
8. Aitken LM, Emerson LM, Kydonaki K, Blackwood B, Creagh-Brown B, Lone NI, McKenzie CA, Reade MC, Weir CJ, Wise MP, Walsh TS. [Alpha 2 agonists for sedation to produce better outcomes from critical illness (A2B trial): protocol for a mixed-methods process evaluation of a randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38580355/) BMJ Open. 2024 Apr 5;14(4):e081637.
9. Tronstad O, Patterson S, Zangerl B, Flaws D, Holdsworth R, Irvine L, Yerkovich S, Pearse I, Fraser JF. [The introduction of a sound reduction bundle in the intensive care unit and its impact on sound levels and patients.](https://pubmed.ncbi.nlm.nih.gov/38604917/) Aust Crit Care. 2024 Apr 10:S1036-7314(24)00053-5
10. White G, Adessky N, Chen FW, Regazzoni A, Tourian L, Chagnon M, Gursahaney A, Alharbi M, Williamson D, Perreault MM. [Valproic acid for agitation in the intensive care unit: an observational study of psychiatric consults.](https://pubmed.ncbi.nlm.nih.gov/38071694/) Int J Clin Pharm. 2024 Feb;46(1):177-185
11. Gordon EH, Ward DD, Xiong H, Berkovsky S, Hubbard RE. [Delirium and incident dementia in hospital patients in New South Wales, Australia: retrospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/38537951/) BMJ. 2024 Mar 27;384:e077634
12. Mart MF, Boehm LM, Kiehl AL, Gong MN, Malhotra A, Owens RL, Khan BA, Pisani MA, Schmidt GA, Hite RD, Exline MC, Carson SS, Hough CL, Rock P, Douglas IS, Feinstein DJ, Hyzy RC, Schweickert WD, Bowton DL, Masica A, Orun OM, Raman R, Pun BT, Strength C, Rolfsen ML, Pandharipande PP, Brummel NE, Hughes CG, Patel MB, Stollings JL, Ely EW, Jackson JC, Girard TD. [Long-term outcomes after treatment of delirium during critical illness with antipsychotics (MIND-USA): a randomised, placebo-controlled, phase 3 trial.](https://pubmed.ncbi.nlm.nih.gov/38701817/) Lancet Respir Med. 2024 Apr 30:S2213-2600(24)00077-8
13. Brummel NE, Hughes CG, McNeil JB, Pandharipande PP, Thompson JL, Orun OM, Raman R, Ware LB, Bernard GR, Harrison FE, Ely EW, Girard TD. [Systemic inflammation and delirium during critical illness.](https://pubmed.ncbi.nlm.nih.gov/38647548/) Intensive Care Med. 2024 May;50(5):687-696
14. Meghani S, Timmins F. [Intensive care nurses' perceptions and awareness of delirium and delirium prevention guidelines.](https://pubmed.ncbi.nlm.nih.gov/38634180/) Nurs Crit Care. 2024 Apr 18
15. Sonneville R, Couffignal C, Sigaud F, Godard V, Audibert J, Contou D, Celier A, Djibre M, Schmidt J, Jaquet P, Mekontso Dessap A, Bourel C, Bellot R, Roy C, Lamara F, Essardy F, Timsit JF, Cornic R, Bouadma L; R2D2-ICU investigators. [Restrictive use of Restraints and Delirium Duration in the Intensive Care Unit (R2D2-ICU): protocol for a French multicentre parallel-group open-label randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38631841/) BMJ Open. 2024 Apr 17;14(4):e083414
16. Jiang Y, Xie Y, Fang P, Shang Z, Chen L, Zhou J, Yang C, Zhu W, Hao X, Ding J, Yin P, Wang Z, Cao M, Zhang Y, Tan Q, Cheng D, Kong S, Lu X, Liu X, Sessler DI; CT-LIFE Study Collaborators. [Cognitive Training for Reduction of Delirium in Patients Undergoing Cardiac Surgery: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/38652478/) JAMA Netw Open. 2024 Apr 1;7(4):e247361
17. Deschamps A, Ben Abdallah A, Jacobsohn E, Saha T, Djaiani G, El-Gabalawy R, Overbeek C, Palermo J, Courbe A, Cloutier I, Tanzola R, Kronzer A, Fritz BA, Schmitt EM, Inouye SK, Avidan MS; Canadian Perioperative Anesthesia Clinical Trials Group. [Electroencephalography-Guided Anesthesia and Delirium in Older Adults After Cardiac Surgery: The ENGAGES-Canada Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/38857019/) JAMA. 2024 Jun 10:e248144
18. Ferrante LE, Han L, Andrews B, Cohen AB, Davis JL, Gritsenko D, Lee S, Pisani MA, Reed NS, Rouse G, Truebig J. [Effect of a Three-Component Geriatrics Bundle on Incident Delirium Among Critically Ill Older Adults: A Pilot Study.](https://pubmed.ncbi.nlm.nih.gov/38785442/) Ann Am Thorac Soc. 2024 May 24
19. Huespe I, Giunta D, Acosta K, Avila D, Prado E, Sanghavi D, Bisso IC, Giannasi S, Carini FC. [Comparing Bispectral Index Monitoring vs Clinical Assessment for Deep Sedation in the ICU: Effects on Delirium Reduction and Sedative Drug Doses-A Randomized Trial.](https://pubmed.ncbi.nlm.nih.gov/38901489/) Chest. 2024 Jun 18:S0012-3692(24)00774-8
20. Ashkenazy S, Weissman C, DeKeyser Ganz F. [Measuring pain or discomfort during routine nursing care in lightly sedated mechanically ventilated intensive care patients: A prospective preliminary cohort study.](https://pubmed.ncbi.nlm.nih.gov/38810529/) Heart Lung. 2024 Sep-Oct;67:169-17
21. Prendergast NT, Franz CA, Schaefer C, Covell NB, Balish K, Onyemekwu CA, Potter KM, Zhang Y, Bain WG, Shah FA, Nouraie SM, McVerry BJ, Kitsios GD, Girard TD. [Inflammatory Subphenotype Is Associated with Acute Brain Dysfunction in Mechanically Ventilated Patients.](https://pubmed.ncbi.nlm.nih.gov/38935638/) Ann Am Thorac Soc. 2024 Jun 27
22. Azamfirei R, Behrens D, Padilla S, Madden K, Goldberg S, Geno M, Manning MJ, Piole M, Madsen E, Maue D, Abu-Sultaneh S, Awojoodu R, Wang NY, Needham DM, Neufeld K, Kudchadkar SR. [Delirium Screening in Critically Ill Children: Secondary Analysis of the Multicenter PICU Up! Pilot Trial Dataset, 2019-2020.](https://pubmed.ncbi.nlm.nih.gov/38832837/) Pediatr Crit Care Med. 2024 Jun 4
23. Sim JK, Chung K, Chung CR, Lee J, Hwang SY, Lee YS. [Usefulness of the 4A's test for detecting delirium in critically ill patients: a multicenter prospective observation study.](https://pubmed.ncbi.nlm.nih.gov/38907758/) Intern Emerg Med. 2024 Jun 22.
24. Henríquez-Beltrán M, Vaca R, Benítez ID, González J, Santisteve S, Aguilà M, Minguez O, Moncusí-Moix A, Gort-Paniello C, Torres G, Labarca G, Caballero J, Barberà C, Torres A, de Gonzalo-Calvo D, Barbé F, Targa ADS. [Sleep and Circadian Health of Critical Survivors: A 12-Month Follow-Up Study.](https://pubmed.ncbi.nlm.nih.gov/38597721/) Crit Care Med. 2024 Aug 1;52(8):1206-1217.
25. Cohen S, Meyer A, Ifrach N, Dichtwald S. [Physical restraint and associated agitation.](https://pubmed.ncbi.nlm.nih.gov/39004848/) Nurs Crit Care. 2024 Jul 14.
26. Lindroth H, Byrnes T, Fuchita M, Hetland B, Liu K, Maya K, McAndrew NS, Mulkey MA, Nydahl P, Palakshappa J, von Haken R, Psoter KJ, Oh ES; U.S. WDAD Study Team. [Delirium in the US: Results from 2023 cross-sectional World Delirium Awareness Day prevalence study.](https://pubmed.ncbi.nlm.nih.gov/38944277/) J Acad Consult Liaison Psychiatry. 2024 Jun 27:S2667-2960(24)00067-3
27. Ezz Al-Regal AR, Ramzy EA, Allah Atia AA, Emara MM. [Dexmedetomidine for Reducing Mortality in Patients With Septic Shock A Randomized Controlled Trial (DecatSepsis).](https://pubmed.ncbi.nlm.nih.gov/39004217/) Chest. 2024 Jul 14:S0012-3692(24)04601-4
28. Guest M, Craven K, Tellson AM, Porter M, James N, Turley L, Smitherman J. [Reigniting Intensive Care Unit Liberation.](https://pubmed.ncbi.nlm.nih.gov/39084672/) Crit Care Nurse. 2024 Aug 1;44(4):19-26
29. Woodward MR, Wells CL, Arnold S, Dorman F, Ahmed Z, Morris NA, Ciryam P, Podell JE, Chang WW, Zimmerman WD, Motta M, Butt B, Pergakis MB, Labib M, Wang TI, Edlow BL, Badjatia N, Braun R, Parikh GY. [Behavioral Assessment With the Coma Recovery Scale-Revised Is Safe and Feasible in Critically Ill Patients With Disorders of Consciousness.](https://pubmed.ncbi.nlm.nih.gov/38912722/) Crit Care Explor. 2024 Jun 24;6(7):e1101
30. Myers LC, Bosch NA, Soltesz L, Daly KA, Campbell CI, Schwager E, Salvati E, Stevens JP, Wunsch H, Rucci JM, Jafarzadeh SR, Liu VX, Walkey AJ. [Opioid Administration Practice Patterns in Patients With Acute Respiratory Failure Who Undergo Invasive Mechanical Ventilation.](https://pubmed.ncbi.nlm.nih.gov/39018285/) Crit Care Explor. 2024 Jul 17;6(7):e1123
31. Hatta K, Kishi Y, Wada K, Takeuchi T, Taira T, Uemura K, Ogawa A, Takahashi K, Sato A, Shirakawa M, Herring WJ, Arano I; Suvorexant 085 Study Group. [Suvorexant for Reduction of Delirium in Older Adults After Hospitalization: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/39150711/) JAMA Netw Open. 2024 Aug 1;7(8):e2427691
32. Zuber A, Rubarth K, Förster F, Balzer F, Spies C, Fürstenau D, Kumpf O. [The impact of adhering to a quality indicator for sedation, analgesia, and delirium management on costs, revenues, and clinical outcomes in intensive care in Germany: A retrospective observational study.](https://pubmed.ncbi.nlm.nih.gov/39146321/) PLoS One. 2024 Aug 15;19(8):e0308948
33. Johnson GU, Towell-Barnard A, McLean C, Ewens B. [The development of a family-led novel intervention for delirium prevention and management in the adult intensive care unit: A co-design qualitative study.](https://pubmed.ncbi.nlm.nih.gov/39129064/) Aust Crit Care. 2024 Aug 10:S1036-7314(24)00198-X
34. Erbay Dalli Ö, Akça Doğan D, Bayram R, Pehlivan S, Yildiz H. [Practices of the ABCDEF care bundle in intensive care units as reported by nurses: A cross-sectional study from Turkey.](https://pubmed.ncbi.nlm.nih.gov/37581265/) Nurs Crit Care. 2024 Sep;29(5):974-986
35. Hao GW, Wu JQ, Yu SJ, Liu K, Xue Y, Gong Q, Xie RC, Ma GG, Su Y, Hou JY, Zhang YJ, Liu WJ, Li W, Tu GW, Luo Z. [Remifentanil vs. dexmedetomidine for cardiac surgery patients with noninvasive ventilation intolerance: a multicenter randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/39294818/) J Intensive Care. 2024 Sep 18;12(1):35
36. Huespe I, Giunta D, Acosta K, Avila D, Prado E, Sanghavi D, Bisso IC, Giannasi S, Carini FC. [Comparing Bispectral Index Monitoring vs Clinical Assessment for Deep Sedation in the ICU: Effects on Delirium Reduction and Sedative Drug Doses-A Randomized Trial.](https://pubmed.ncbi.nlm.nih.gov/38901489/) Chest. 2024 Oct;166(4):733-742
37. Nydahl P., Ely E.W., Gallie L., Guenther U., Hansen H.-C., Heras-La Calle G., Hermes C., Krotsetis S., Rolfsen, M.L., von Haken R. [You are safe. Communication with patients in delirium.](https://www.bibliomed-pflege.de/fileadmin/user_upload/BibPflege/Dokumente/Oeffentlich/Downloads/PI-englische_Fassungen_2024/PI_3-24_Delir_DeliriumCommunication-202409.pdf) Pflegen Intensiv 2024 (3) 1-5
38. Nydahl P, Chahdi M, Debue AS, Deffner T, Gallie L, Heras La-Calle G, Galazzi A, Krotsetis S, Lewko A, Liu K, Lindroth H, Paulino MC, van den Boogaard M, von Haken R. You are safe here. [An information flyer with re-orientating messages for relatives of patients in delirium.](https://onlinelibrary.wiley.com/doi/epdf/10.1111/nicc.13169) Nursing in Critical Care, 2024.
39. Lucchini A, Villa M, Giani M, Canzi S, Colombo S, Mapelli E, Mariani I, Rezoagli E, Foti G, Bellani G. [Impact of new lighting technology versus traditional fluorescent bulbs on sedation and delirium in the ICU.](https://pubmed.ncbi.nlm.nih.gov/39299170/) Intensive Crit Care Nurs. 2024 Sep 18;86:103833
40. Yıldız İ, Özkaraman A. [Vascular complications in extremities of physically restrained intensive care unit patients: A prospective, observational study.](https://pubmed.ncbi.nlm.nih.gov/38937619/) Nurs Crit Care. 2024 Sep;29(5):931-942
41. Diao Y, Yu X, Zhang Q, Chen X. [The predictive value of confusion assessment method-intensive care unit and intensive care delirium screening checklist for delirium in critically ill patients in the intensive care unit: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38538305/) Nurs Crit Care. 2024 Nov;29(6):1224-1235
42. Nicholas M, Wittmann J, Norena M, Ornowska M, Reynolds S. [A randomized, clinical trial investigating the use of a digital intervention to reduce delirium-associated agitation.](https://pubmed.ncbi.nlm.nih.gov/37903857/) NPJ Digit Med. 2023 Oct 30;6(1):202
43. Zhang S, Tao XJ, Ding S, Feng XW, Wu FQ, Wu Y. [Associations between postoperative cognitive dysfunction, serum interleukin-6 and postoperative delirium among patients after coronary artery bypass grafting: A mediation analysis.](https://pubmed.ncbi.nlm.nih.gov/38700037/) Nurs Crit Care. 2024 Nov;29(6):1245-1252
44. Sim E, Casey K, Lavezza A, Hoyer E, Moscirella M, Rosenbaum N, Friedman M, Young DL. [Standardizing Identification of Cognitive Impairment in the Acute Hospital Setting: Toward a Common Language.](https://pubmed.ncbi.nlm.nih.gov/39405413/) Am J Occup Ther. 2024 Nov 1;78(6):7806205090
45. Lindroth H, Byrnes T, Fuchita M, Hetland B, Liu K, Maya K, McAndrew NS, Mulkey MA, Nydahl P, Palakshappa J, von Haken R, Psoter KJ, Oh ES; U.S. WDAD Study Team. [Delirium in the United States: Results From the 2023 Cross-Sectional World Delirium Awareness Day Prevalence Study.](https://pubmed.ncbi.nlm.nih.gov/38944277/) J Acad Consult Liaison Psychiatry. 2024 Sep-Oct;65(5):417-430
46. Kang J, Kim S, Lee M, Na H. [Impact of the restraint decision tree for physical restraint use in South Korean neurointensive care units.](https://pubmed.ncbi.nlm.nih.gov/38986534/) Nurs Crit Care. 2024 Sep;29(5):1110-1118
47. Liu Y, Zuo L, Li X, Nie Y, Chen C, Liu N, Chen M, Wu J, Guan X. [Early sedation using ciprofol for intensive care unit patients requiring mechanical ventilation: a pooled post-hoc analysis of data from phase 2 and phase 3 trials.](https://pubmed.ncbi.nlm.nih.gov/39455495/) Ann Intensive Care. 2024 Oct 26;14(1):164
48. Marchasson L, Rault C, Le Pape S, Arrivé F, Coudroy R, Frat JP, Bironneau V, Jutant EM, Heraud Q, Drouot X, Thille AW. [Impact of sleep disturbances on outcomes in intensive care units.](https://pubmed.ncbi.nlm.nih.gov/39385194/) Crit Care. 2024 Oct 9;28(1):331

## Reviews

1. Lin SM, Liu CY, Wang CH, Lin HC, Huang CD, Huang PY, Fang YF, Shieh MH, Kuo HP. [The impact of delirium on the survival of mechanically ventilated patients](http://www.ncbi.nlm.nih.gov/pubmed/15640638). Crit Care Med. 2004 Nov;32(11):2254-9
2. Riker RR, Fraser GL. [Altering intensive care sedation paradigms to improve patient outcomes.](http://www.ncbi.nlm.nih.gov/pubmed/19576528) Crit Care Clin. 2009 Jul;25(3):527-38,
3. Vasilevskis EE, Ely EW, Speroff T, Pun BT, Boehm L, Dittus RS. [Reducing Iatrogenic Risks : ICU-Acquired Delirium and Weakness −Crossing the Quality Chasm](http://www.ncbi.nlm.nih.gov/pubmed/21051398). Chest 2010;138;1224-1233
4. Strøm T, Toft P. [Time to wake up the patients in the ICU: a crazy idea or common sense?](http://www.ncbi.nlm.nih.gov/pubmed/21102400) Minerva Anestesiol. 2011 Jan;77(1):59-63. [Free full text](http://www.minervamedica.it/en/freedownload.php?cod=R02Y2011N01A0059&sid=613012002030021)
5. Brummel NE & Girard TG (2013). [Preventing Delirium in the Intensive Care Unit](http://www.ncbi.nlm.nih.gov/pubmed/23182527). Crit Care Clin 29 (2013) 51–65
6. Barr J, Pandharipande PP. [The pain, agitation, and delirium care bundle: synergistic benefits of implementing the 2013 Pain, Agitation, and Delirium Guidelines in an integrated and interdisciplinary fashion](http://www.ncbi.nlm.nih.gov/pubmed/23989099). Crit Care Med. 2013 Sep;41(9 Suppl 1):S99-115.
7. Zaal IJ, Devlin JW, Peelen LM, Slooter AJ. [A Systematic Review of Risk Factors for Delirium in the ICU\*.](http://www.ncbi.nlm.nih.gov/pubmed/25251759) Crit Care Med. 2015 Jan;43(1):40-7.
8. Greysen SR. [Delirium and the "Know-Do" Gap in Acute Care for Elders.](http://www.ncbi.nlm.nih.gov/pubmed/25642659) JAMA Intern Med. 2015 Feb 2.
9. Hshieh TT, Yue J, Oh E, Puelle M, Dowal S, Travison T, Inouye SK. [Effectiveness of Multicomponent Nonpharmacological Delirium Interventions: A Meta-analysis.](http://www.ncbi.nlm.nih.gov/pubmed/25643002) JAMA Intern Med. 2015 Feb 2.
10. Salluh JI, Wang H, Schneider EB, Nagaraja N, Yenokyan G, Damluji A, Serafim RB, Stevens RD. [Outcome of delirium in critically ill patients: systematic review and meta-analysis.](http://www.ncbi.nlm.nih.gov/pubmed/26041151) BMJ. 2015 Jun 3;350:h2538.
11. Serafim RB, Bozza FA, Soares M, do Brasil PE, Tura BR, Ely EW, Salluh JI. [Pharmacologic prevention and treatment of delirium in intensive care patients: A systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/25957498) J Crit Care. 2015 Aug;30(4):799-807.
12. Minhas MA, Velasquez AG, Kaul A, Salinas PD, Celi LA. [Effect of Protocolized Sedation on Clinical Outcomes in Mechanically Ventilated Intensive Care Unit Patients: A Systematic Review and Meta-analysis of Randomized Controlled Trials.](http://www.ncbi.nlm.nih.gov/pubmed/25865475) Mayo Clin Proc. 2015 May;90(5):613-23.
13. Poongkunran C, John SG, Kannan AS, Shetty S, Bime C, Parthasarathy S. [A meta-analysis of sleep-promoting interventions during critical illness.](http://www.ncbi.nlm.nih.gov/pubmed/26071825) Am J Med. 2015 Oct;128(10):1126-1137.
14. Schrijver EJ, de Graaf K, de Vries OJ, Maier AB, Nanayakkara PW. [Efficacy and safety of haloperidol for in-hospital delirium prevention and treatment: A systematic review of current evidence.](http://www.ncbi.nlm.nih.gov/pubmed/26553001) Eur J Intern Med. 2015 Nov 6.
15. Porhomayon J, Joude P, Adlparvar G, El-Solh AA, Nader ND. [The Impact of High Versus Low Sedation Dosing Strategy on Cognitive Dysfunction in Survivors of Intensive Care Units: A Systematic Review and Meta-Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/26191390) J Cardiovasc Thorac Res. 2015;7(2):43-8.
16. Saliski M, Kudchadkar SR. [Optimizing Sedation Management to Promote Early Mobilization for Critically Ill Children.](http://www.ncbi.nlm.nih.gov/pubmed/26702363) J Pediatr Intensive Care. 2015;4(4):188-193.
17. Rittayamai N, Wilcox E, Drouot X, Mehta S, Goffi A, Brochard L. [Positive and negative effects of mechanical ventilation on sleep in the ICU: a review with clinical recommendations.](http://www.ncbi.nlm.nih.gov/pubmed/26759012) Intensive Care Med. 2016 Apr;42(4):531-41
18. Litton E, Carnegie V, Elliott R, Webb SA. [The Efficacy of Earplugs as a Sleep Hygiene Strategy for Reducing Delirium in the ICU: A Systematic Review and Meta-Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/26741578) Crit Care Med. 2016 Jan 6.
19. Schwartz AC, Fisher TJ, Greenspan HN, Heinrich TW. [Pharmacologic and nonpharmacologic approaches to the prevention and management of delirium.](http://www.ncbi.nlm.nih.gov/pubmed/26941206) Int J Psychiatry Med. 2016 Mar 3. pii: 0091217416636578.
20. Neufeld KJ, Yue J, Robinson TN, Inouye SK, Needham DM. [Antipsychotic Medication for Prevention and Treatment of Delirium in Hospitalized Adults: A Systematic Review and Meta-Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/27004732) J Am Geriatr Soc. 2016 Apr;64(4):705-14.
21. Siddiqi N, Harrison JK, Clegg A, Teale EA, Young J, Taylor J, Simpkins SA. [Interventions for preventing delirium in hospitalised non-ICU patients.](http://www.ncbi.nlm.nih.gov/pubmed/26967259) Cochrane Database Syst Rev. 2016 Mar 11;3:CD005563.
22. Shaw R. [Using Music to Promote Sleep for Hospitalized Adults.](http://www.ncbi.nlm.nih.gov/pubmed/26932923) Am J Crit Care. 2016 Mar;25(2):181-4
23. Vincent JL, Shehabi Y, Walsh TS, Pandharipande PP, Ball JA, Spronk P, Longrois D, Strøm T, Conti G, Funk GC, Badenes R, Mantz J, Spies C, Takala J. [Comfort and patient-centred care without excessive sedation: the eCASH concept.](http://www.ncbi.nlm.nih.gov/pubmed/27075762) Intensive Care Med. 2016 Jun;42(6):962-71.
24. Kamdar BB, Knauert MP, Jones SF, Parsons EC, Parthasarathy S, Pisani MA; Sleep in the ICU (SLEEPii) Task Force. [Perceptions and Practices Regarding Sleep in the ICU: A Survey of 1,223 Critical Care Providers.](http://www.ncbi.nlm.nih.gov/pubmed/27104770) Ann Am Thorac Soc. 2016 Apr 22.
25. Berning JN, Poor AD, Buckley SM, Patel KR, Lederer DJ, Goldstein NE, Brodie D, Baldwin MR. [A Novel Picture Guide to Improve Spiritual Care and Reduce Anxiety in Mechanically Ventilated Intensive Care Unit Adults.](http://www.ncbi.nlm.nih.gov/pubmed/27097049) Ann Am Thorac Soc. 2016 Apr 20.
26. Carrasco G, Baeza N, Cabré L, Portillo E, Gimeno G, Manzanedo D, Calizaya M. [Dexmedetomidine for the Treatment of Hyperactive Delirium Refractory to Haloperidol in Nonintubated ICU Patients: A Nonrandomized Controlled Trial.](http://www.ncbi.nlm.nih.gov/pubmed/26925523) Crit Care Med. 2016 Jul;44(7):1295-306.
27. Flannery AH, Oyler DR, Weinhouse GL. [The Impact of Interventions to Improve Sleep on Delirium in the ICU: A Systematic Review and Research Framework.](http://www.ncbi.nlm.nih.gov/pubmed/27509391) Crit Care Med. 2016 Aug 9
28. Mo Y, Scheer CE, Abdallah GT. [Emerging Role of Melatonin and Melatonin Receptor Agonists in Sleep and Delirium in Intensive Care Unit Patients.](http://www.ncbi.nlm.nih.gov/pubmed/26092575) J Intensive Care Med. 2016 Aug;31(7):451-5
29. deBacker J, Hart N, Fan E. [Neuromuscular Blockade in the 21<sup>st</sup> Century Management of the Critically Ill Patient.](https://www.ncbi.nlm.nih.gov/pubmed/27818334) Chest. 2016 Nov 3. pii: S0012-3692(16)62328-0.
30. Hu R, Jiang X, Chen J, Zeng Z, Chen XY, Li Y, Huining X, Evans DJW. [Non-drug treatments for promoting sleep in adults in the intensive care unit.](http://www.cochrane.org/CD008808/ANAESTH_non-drug-treatments-promoting-sleep-adults-intensive-care-unit) Cochrane review Dez. 2016
31. Flannery AH, Oyler DR, Weinhouse GL. [The Impact of Interventions to Improve Sleep on Delirium in the ICU: A Systematic Review and Research Framework.](https://www.ncbi.nlm.nih.gov/pubmed/27509391) Crit Care Med. 2016 Dec;44(12):2231-2240.
32. Vallabhajosyula S, Kanmanthareddy A, Erwin PJ, Esterbrooks DJ, Morrow LE. [Role of statins in delirium prevention in critical ill and cardiac surgery patients: A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/27776336) J Crit Care. 2017 Feb;37:189-196.
33. Colantuoni E, Dinglas VD, Ely EW, Hopkins RO, Needham DM. [Statistical methods for evaluating delirium in the ICU.](http://www.ncbi.nlm.nih.gov/pubmed/27264776) Lancet Respir Med. 2016 Jun 2
34. Puntillo K, Gélinas C, Chanques G. [Next steps in ICU pain research.](https://www.ncbi.nlm.nih.gov/pubmed/28197676) Intensive Care Med. 2017 Feb 14. doi: 10.1007/s00134-017-4694-3.
35. Au G, Johnson JR, Chlan LL. [Time for a paradigm shift: Assessing for anxiety in patients receiving mechanical ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/28237274) Heart Lung. 2017 Feb 23.
36. Bull MJ, Boaz L, Jermé M. [Educating Family Caregivers for Older Adults About Delirium: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/26970229) Worldviews Evid Based Nurs. 2016 Jun;13(3):232-40
37. Kelly JM, Rubenfeld GD, Masson N, Min A, Adhikari NKJ. [Using Selective Serotonin Reuptake Inhibitors and Serotonin-Norepinephrine Reuptake Inhibitors in Critical Care: A Systematic Review of the Evidence for Benefit or Harm.](https://www.ncbi.nlm.nih.gov/pubmed/28338497) Crit Care Med. 2017 Jun;45(6):e607-e616.
38. Gerstenblith TA, Bienvenu OJ. [Should We Prescribe Selective Serotonergic Reuptake Inhibitors/Serotonergic and Noradrenergic Reuptake Inhibitors in the ICU?](https://www.ncbi.nlm.nih.gov/pubmed/28509740) Crit Care Med. 2017 Jun;45(6):1108-1109.
39. Hosker C, Ward D. [Hypoactive delirium.](https://www.ncbi.nlm.nih.gov/pubmed/28546253) BMJ. 2017 May 25;357
40. Pandharipande PP, Ely EW, Arora RC, Balas MC, Boustani MA, La Calle GH, Cunningham C, Devlin JW, Elefante J, Han JH, MacLullich AM, Maldonado JR, Morandi A, Needham DM, Page VJ, Rose L, Salluh JIF, Sharshar T, Shehabi Y, Skrobik Y, Slooter AJC, Smith HAB. [The intensive care delirium research agenda: a multinational, interprofessional perspective.](https://www.ncbi.nlm.nih.gov/pubmed/28612089) Intensive Care Med. 2017 Jun 13.
41. Skrobik Y, Devlin J. [Trials of statins in delirium-stymied by complex methods?](https://www.ncbi.nlm.nih.gov/pubmed/28734825) Lancet Respir Med. 2017 Jul 19. pii: S2213-2600(17)30289-8.
42. Abraha I, Rimland JM, Trotta F, Pierini V, Cruz-Jentoft A, Soiza R, O'Mahony D, Cherubini A. [Non-Pharmacological Interventions to Prevent or Treat Delirium in Older Patients: Clinical Practice Recommendations The SENATOR-ONTOP Series.](https://www.ncbi.nlm.nih.gov/pubmed/27791223) J Nutr Health Aging. 2016;20(9):927-936
43. Carr FM. [The role of sitters in delirium: an update.](https://www.ncbi.nlm.nih.gov/pubmed/23440038) Can Geriatr J. 2013;16(1):22-36
44. Eikermann M, Sarge TW. [Postoperative interruption of sedation on arrival in the surgical ICU: a new standard of care.](https://www.ncbi.nlm.nih.gov/pubmed/28935559) Lancet Respir Med. 2017 Oct;5(10):764-765
45. Liu X, Xie G, Zhang K, Song S, Song F, Jin Y, Fang X. [Dexmedetomidine vs propofol sedation reduces delirium in patients after cardiac surgery: A meta-analysis with trial sequential analysis of randomized controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/27936404) J Crit Care. 2017 Apr;38:190-196
46. Pandharipande PP, Ely EW, Arora RC, Balas MC, Boustani MA, La Calle GH, Cunningham C, Devlin JW, Elefante J, Han JH, MacLullich AM, Maldonado JR, Morandi A, Needham DM, Page VJ, Rose L, Salluh JIF, Sharshar T, Shehabi Y, Skrobik Y, Slooter AJC, Smith HAB. [The intensive care delirium research agenda: a multinational, interprofessional perspective.](https://www.ncbi.nlm.nih.gov/pubmed/28612089) Intensive Care Med. 2017 Jun 13. doi: 10.1007/s00134-017-4860-7.
47. Rose L, Agar M, Burry LD, Campbell N, Clarke M, Lee J, Siddiqi N, Page VJ; Del-COrS group. [Development of core outcome sets for effectiveness trials of interventions to prevent and/or treat delirium (Del-COrS): study protocol.](https://www.ncbi.nlm.nih.gov/pubmed/28928181) BMJ Open. 2017 Sep 18;7(9):e016371.
48. Oh ES, Fong TG, Hshieh TT, Inouye SK. [Delirium in Older Persons: Advances in Diagnosis and Treatment.](https://www.ncbi.nlm.nih.gov/pubmed/28973626) JAMA. 2017 Sep 26;318(12):1161-1174.
49. Pandharipande PP, Ely EW. [Humanizing the Treatment of Hyperactive Delirium in the Last Days of Life.](https://www.ncbi.nlm.nih.gov/pubmed/28975287) JAMA. 2017 Sep 19;318(11):1014-1015.
50. Wang JG, Belley-Coté E, Burry L, Duffett M, Karachi T, Perri D, Alhazzani W, D'Aragon F, Wunsch H, Rochwerg B. [Clonidine for sedation in the critically ill: a systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/28330506) Crit Care. 2017 Feb 25;21(1):75. doi: 10.1186/s13054-017-1610-8.
51. Rowley-Conwy G. [Barriers to delirium assessment in the intensive care unit: A literature review.](https://www.ncbi.nlm.nih.gov/pubmed/29054400) Intensive Crit Care Nurs. 2017 Oct 17. pii: S0964-3397(17)30096-4
52. Mehta S, Spies C, Shehabi Y. [Ten tips for ICU sedation.](https://www.ncbi.nlm.nih.gov/pubmed/29151124) Intensive Care Med. 2017 Nov 18. doi: 10.1007/s00134-017-4992-9
53. Burry LD, Hutton B, Guenette M, Williamson D, Mehta S, Egerod I, Kanji S, Adhikari NK, Moher D, Martin CM, Rose L. [Comparison of pharmacological and non-pharmacological interventions to prevent delirium in critically ill patients: a protocol for a systematic review incorporating network meta-analyses.](https://www.ncbi.nlm.nih.gov/pubmed/27609018) Syst Rev. 2016 Sep 8;5(1):153
54. Choy SW, Yeoh AC, Lee ZZ, Srikanth V, Moran C. [Melatonin and the Prevention and Management of Delirium: A Scoping Study.](https://www.ncbi.nlm.nih.gov/pubmed/29376051) Front Med (Lausanne). 2018 Jan 8;4:242
55. Paul Jay Regal [Delirium, in 405 articles of medical (non-surgical or ICU) inpatients: unproven speed of onset and recovery](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5317257/). Clin Interv Aging. 2017; 12: 377–380
56. Vasunilashorn, Sarinnapha M., Tamara G. Fong, Asha Albuquerque, Edward R. Marcantonio, Eva M. Schmitt, Douglas Tommet, Yun Gou, Thomas G. Travison, Richard N. Jones, and Sharon K. Inouye. 2017. “Delirium Severity Post-Surgery and Its Relationship with Long-Term Cognitive Decline in a Cohort of Patients Without Dementia.” Edited by Miles Berger. Journal of Alzheimer’s Disease 61 (1) (November 28): 347–358. doi:10.3233/jad-170288
57. Liu Y, Ma L, Gao M, Guo W, Ma Y. [Dexmedetomidine reduces postoperative delirium after joint replacement in elderly patients with mild cognitive impairment.](https://www.ncbi.nlm.nih.gov/pubmed/26559412) Aging Clin Exp Res. 2016 Aug;28(4):729-36
58. Delaney A, Hammond N, Litton E. [Preventing Delirium in the Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/29466573) JAMA. 2018 Feb 20;319(7):659-660
59. Nuzzo E, Girard TD. [The Sandman in the ICU: A Novel Use of Dexmedetomidine?](https://www.ncbi.nlm.nih.gov/pubmed/29529384) Am J Respir Crit Care Med. 2018 Mar 12
60. Blair GJ, Mehmood T, Rudnick M, Kuschner WG, Barr J. [Nonpharmacologic and Medication Minimization Strategies for the Prevention and Treatment of ICU Delirium: A Narrative Review.](https://www.ncbi.nlm.nih.gov/pubmed/29699467) J Intensive Care Med. 2018 Jan 1:885066618771528
61. Lewis SR, Pritchard MW, Schofield-Robinson OJ, Alderson P, Smith AF. [Melatonin for the promotion of sleep in adults in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/29746721) Cochrane Database Syst Rev. 2018 May 10;5:CD012455
62. Hughes CG, Patel MB, Brummel NE, Thompson JL, McNeil JB, Pandharipande PP, Jackson JC, Chandrasekhar R, Ware LB, Ely EW, Girard TD. [Relationships between markers of neurologic and endothelial injury during critical illness and long-term cognitive impairment and disability.](https://www.ncbi.nlm.nih.gov/pubmed/29523900) Intensive Care Med. 2018 Mar;44(3):345-355
63. Kok L, Slooter AJ, Hillegers MH, van Dijk D, Veldhuijzen DS. [Benzodiazepine Use and Neuropsychiatric Outcomes in the ICU: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/29985215) Crit Care Med. 2018 Jul 5.
64. Burry L, Mehta S, Perreault MM, Luxenberg JS, Siddiqi N, Hutton B, Fergusson DA, Bell C, Rose L. [Antipsychotics for treatment of delirium in hospitalised non-ICU patients.](https://www.ncbi.nlm.nih.gov/pubmed/29920656) Cochrane Database Syst Rev. 2018 Jun 18;6:CD005594
65. Latronico N. [Haloperidol and delirium in the ICU: the finger pointing to the moon.](https://www.ncbi.nlm.nih.gov/pubmed/29936581) Intensive Care Med. 2018 Jun 23.
66. Devlin JW, Skrobik Y, Rochwerg B, Nunnally ME, Needham DM, Gelinas C, Pandharipande PP, Slooter AJC, Watson PL, Weinhouse GL, Kho ME, Centofanti J, Price C, Harmon L, Misak CJ, Flood PD, Alhazzani W. [Methodologic Innovation in Creating Clinical Practice Guidelines: Insights From the 2018 Society of Critical Care Medicine Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption Guideline Effort.](https://www.ncbi.nlm.nih.gov/pubmed/29985807) Crit Care Med. 2018 Jul 6.
67. Tsuruta R, Fujita M. [Comparison of clinical practice guidelines for the management of pain, agitation, and delirium in critically ill adult patients.](https://www.ncbi.nlm.nih.gov/pubmed/29988658) Acute Med Surg. 2018 Apr 10;5(3):207-212
68. [Interpreting Balas MC, Weinhouse GL, Denehy L, Chanques G, Rochwerg B, Misak CJ, Skrobik Y, Devlin JW, Fraser GL. and Implementing the 2018 Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption Clinical Practice Guideline.](https://www.ncbi.nlm.nih.gov/pubmed/30024427) Crit Care Med. 2018 Jul 17. doi: 10.1097/CCM.0000000000003307
69. Adamis D, Sharma N, Whelan PJ, Macdonald AJ. [Delirium scales: A review of current evidence.](https://www.ncbi.nlm.nih.gov/pubmed/20480420) Aging Ment Health. 2010 Jul;14(5):543-55
70. Salluh JIF, Latronico N. [Does this critically ill patient with delirium require any drug treatment?](https://www.ncbi.nlm.nih.gov/pubmed/30043275) Intensive Care Med. 2018 Jul 24
71. Patel MB, Bednarik J, Lee P, Shehabi Y, Salluh JI, Slooter AJ, Klein KE, Skrobik Y, Morandi A, Spronk PE, Naidech AM, Pun BT, Bozza FA, Marra A, John S, Pandharipande PP, Ely EW. [Delirium Monitoring in Neurocritically Ill Patients: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/30142098) Crit Care Med. 2018 Aug 23.
72. Vasilevskis EE, Chandrasekhar R, Holtze CH, Graves J, Speroff T, Girard TD, Patel MB, Hughes CG, Cao A, Pandharipande PP, Ely EW. [The Cost of ICU Delirium and Coma in the Intensive Care Unit Patient.](https://www.ncbi.nlm.nih.gov/pubmed/30179988) Med Care. 2018 Oct;56(10):890-897
73. Karamchandani K, Schoaps RS, Printz J, Kowaleski JM, Carr ZJ. [Gender differences in the use of atypical antipsychotic medications for ICU delirium.](https://www.ncbi.nlm.nih.gov/pubmed/30236134) Crit Care. 2018 Sep 21;22(1):220
74. Krewulak KD, Stelfox HT, Leigh JP, Ely EW, Fiest KM. [Incidence and Prevalence of Delirium Subtypes in an Adult ICU: A Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30234569) Crit Care Med. 2018 Sep 17.
75. Bleck TP. [Dopamine Antagonists in ICU Delirium.](https://www.ncbi.nlm.nih.gov/pubmed/30346241) N Engl J Med. 2018 Oct 22.
76. Kang J, Lee M, Ko H, Kim S, Yun S, Jeong Y, Cho Y. [Effect of nonpharmacological interventions for the prevention of delirium in the intensive care unit: A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30300863) J Crit Care. 2018 Dec;48:372-384
77. Bendahan N, Neal O, Ross-White A, Muscedere J, Boyd JG. [Relationship Between Near-Infrared Spectroscopy-Derived Cerebral Oxygenation and Delirium in Critically Ill Patients: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/30376764) J Intensive Care Med. 2018 Oct 30
78. Ng KT, Shubash CJ, Chong JS. [The effect of dexmedetomidine on delirium and agitation in patients in intensive care: systematic review and meta-analysis with trial sequential analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30367689) Anaesthesia. 2018 Oct 27
79. Morelli A, Sanfilippo F, Arnemann P, Hessler M, Kampmeier TG, D'Egidio A, Orecchioni A, Santonocito C, Frati G, Greco E, Westphal M, Rehberg SW, Ertmer C. [The Effect of Propofol and Dexmedetomidine Sedation on Norepinephrine Requirements in Septic Shock Patients: A Crossover Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30394918) Crit Care Med. 2018 Oct 31
80. Herling SF, Greve IE, Vasilevskis EE, Egerod I, Bekker Mortensen C, Møller AM, Svenningsen H, Thomsen T. [Interventions for preventing intensive care unit delirium in adults.](https://www.ncbi.nlm.nih.gov/pubmed/30484283) Cochrane Database Syst Rev. 2018 Nov 23;11:CD009783
81. Jones RN, Cizginer S, Pavlech L, Albuquerque A, Daiello LA, Dharmarajan K, Gleason LJ, Helfand B, Massimo L, Oh E, Okereke OI, Tabloski P, Rabin LA, Yue J, Marcantonio ER, Fong TG, Hshieh TT, Metzger ED, Erickson K, Schmitt EM, Inouye SK; Better Assessment of Illness (BASIL) Study Group. [Assessment of Instruments for Measurement of Delirium Severity: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/30556827) JAMA Intern Med. 2018 Dec 17
82. Wang H, Wang C, Wang Y, Tong H, Feng Y, Li M, Jia L, Yu K. [Sedative drugs used for mechanically ventilated patients in intensive care units: a systematic review and network meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30086671) Curr Med Res Opin. 2019 Mar;35(3):435-446
83. Martyn JAJ, Mao J, Bittner EA. [Opioid Tolerance in Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/30673555) N Engl J Med. 2019 Jan 24;380(4):365-378
84. Zayed Y, Barbarawi M, Kheiri B, Banifadel M, Haykal T, Chahine A, Rashdan L, Aburahma A, Bachuwa G, Seedahmed E. [Haloperidol for the management of delirium in adult intensive care unit patients: A systematic review and meta-analysis of randomized controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/30665181) J Crit Care. 2019 Apr;50:280-286.
85. Blair GJ, Mehmood T, Rudnick M, Kuschner WG, Barr J. [Nonpharmacologic and Medication Minimization Strategies for the Prevention and Treatment of ICU Delirium: A Narrative Review.](https://www.ncbi.nlm.nih.gov/pubmed/29699467) J Intensive Care Med. 2018 Jan 1
86. Haley MN, Casey P, Kane RY, Dārziņš P, Lawler K. [Delirium management: Let's get physical? A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30793460) Australas J Ageing. 2019 Feb 22
87. Abbott TEF, Pearse RM. [Depth of Anesthesia and Postoperative Delirium.](https://www.ncbi.nlm.nih.gov/pubmed/30721279) JAMA. 2019 Feb 5;321(5):459-460
88. Haley MN, Casey P, Kane RY, Dārziņš P, Lawler K. [Delirium management: Let's get physical? A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30793460) Australas J Ageing. 2019 Feb 22
89. Barbateskovic M, Krauss SR, Collet MO, Larsen LK, Jakobsen JC, Perner A, Wetterslev J. [Pharmacological interventions for prevention and management of delirium in intensive care patients: a systematic overview of reviews and meta-analyses.](https://www.ncbi.nlm.nih.gov/pubmed/30782910) BMJ Open. 2019 Feb 19;9(2):e024562
90. Perez D, Peters K, Wilkes L, Murphy G. [Physical restraints in intensive care-An integrative review.](https://www.ncbi.nlm.nih.gov/pubmed/29559190) Aust Crit Care. 2019 Mar;32(2):165-174
91. Gaete Ortega D, Papathanassoglou E, Norris CM. [The lived experience of delirium in intensive care unit patients: A meta-ethnography.](https://www.ncbi.nlm.nih.gov/pubmed/30871853) Aust Crit Care. 2019 Mar 11
92. Zhang Q, Gao F, Zhang S, Sun W, Li Z. [Prophylactic use of exogenous melatonin and melatonin receptor agonists to improve sleep and delirium in the intensive care units: a systematic review and meta-analysis of randomized controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/31119597) Sleep Breath. 2019 May 22. doi: 10.1007/s11325-019-01831-5
93. Soong C, Burry L, Cho HJ, Gathecha E, Kisuule F, Tannenbaum C, Vijenthira A, Morgenthaler T. [An Implementation Guide to Promote Sleep and Reduce Sedative-Hypnotic Initiation for Noncritically Ill Inpatients.](https://www.ncbi.nlm.nih.gov/pubmed/31157831) JAMA Intern Med. 2019 Jun 3. doi: 10.1001/jamainternmed.2019.1196
94. McDicken JA, Elliott E, Blayney G, Makin S, Ali M, Larner AJ, Quinn TJ; VISTA-Cognition Collaborators. [Accuracy of the short-form Montreal Cognitive Assessment: Systematic review and validation.](https://www.ncbi.nlm.nih.gov/pubmed/31243810) Int J Geriatr Psychiatry. 2019 Jun 26
95. Tieges Z, Evans JJ, Neufeld KJ, MacLullich AMJ. [The neuropsychology of delirium: advancing the science of delirium assessment.](https://www.ncbi.nlm.nih.gov/pubmed/28393426) Int J Geriatr Psychiatry. 2018 Nov;33(11):1501-1511.
96. Liu Y, Li XJ, Liang Y, Kang Y. [Pharmacological Prevention of Postoperative Delirium: A Systematic Review and Meta-Analysis of Randomized Controlled Trials.](https://www.ncbi.nlm.nih.gov/pubmed/31001357) Evid Based Complement Alternat Med. 2019 Mar 14;2019:9607129
97. Ng KT, Teoh WY, Khor AJ. [The effect of melatonin on delirium in hospitalised patients: A systematic review and meta-analyses with trial sequential analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31279283) J Clin Anesth. 2019 Jul 3;59:74-81
98. McKenzie J, Joy A. [Family intervention improves outcomes for patients with delirium: Systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31250961) Australas J Ageing. 2019 Jun 28
99. Meyfroidt G, Smith M. [Focus on delirium, sedation and neuro critical care 2019: towards a more brain-friendly environment?](https://www.ncbi.nlm.nih.gov/pubmed/31342110) Intensive Care Med. 2019 Jul 24.
100. Janssen TL, Alberts AR, Hooft L, Mattace-Raso F, Mosk CA, van der Laan L. [Prevention of postoperative delirium in elderly patients planned for elective surgery: systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31354253) Clin Interv Aging. 2019 Jun 19;14:1095-1117
101. Oh ES, Needham DM, Nikooie R, Wilson LM, Zhang A, Robinson KA, Neufeld KJ. [Antipsychotics for Preventing Delirium in Hospitalized Adults: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/31476766) Ann Intern Med. 2019 Sep 3.
102. Nikooie R, Neufeld KJ, Oh ES, Wilson LM, Zhang A, Robinson KA, Needham DM. [Antipsychotics for Treating Delirium in Hospitalized Adults: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/31476770) Ann Intern Med. 2019 Sep 3.
103. Marcantonio ER. [Old Habits Die Hard: Antipsychotics for Treatment of Delirium.](https://www.ncbi.nlm.nih.gov/pubmed/31476768) Ann Intern Med. 2019 Sep 3
104. Burry L, Hutton B, Williamson DR, Mehta S, Adhikari NK, Cheng W, Ely EW, Egerod I, Fergusson DA, Rose L. [Pharmacological interventions for the treatment of delirium in critically ill adults.](https://www.ncbi.nlm.nih.gov/pubmed/31479532) Cochrane Database Syst Rev. 2019 Sep 3;9:CD011749
105. Barbateskovic M, Krauss SR, Collet MO, Andersen-Ranberg NC, Mathiesen O, Jakobsen JC, Perner A, Wetterslev J. [Haloperidol for the treatment of delirium in critically ill patients: A systematic review with meta-analysis and Trial Sequential Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31663112) Acta Anaesthesiol Scand. 2019 Oct 29
106. Chen Z, Chen R, Zheng D, Su Y, Wen S, Guo H, Ye Z, Deng Y, Liu G, Zuo L, Wei X, Hou Y. [Efficacy and safety of haloperidol for delirium prevention in adult patients: An updated meta-analysis with trial sequential analysis of randomized controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/31672417) J Clin Anesth. 2019 Oct 28:109623
107. Sasannejad C, Ely EW, Lahiri S. [Long-term cognitive impairment after acute respiratory distress syndrome: a review of clinical impact and pathophysiological mechanisms.](https://www.ncbi.nlm.nih.gov/pubmed/31718695) Crit Care. 2019 Nov 12;23(1):352
108. Fuller et al. Ketamine sedation in mechanically ventilated patients: A systematic review and meta-analysis. Journal of Critical Care <https://doi.org/10.1016/j.jcrc.2019.12.004>
109. Eckstein C, Burkhardt H. [Multicomponent, nonpharmacological delirium interventions for older inpatients : A scoping review.](https://www.ncbi.nlm.nih.gov/pubmed/31628611) Z Gerontol Geriatr. 2019 Nov;52(Suppl 4):229-242
110. Ho MH, Chen KH, Montayre J, Liu MF, Chang CC, Traynor V, Shen Hsiao ST, Chang HR, Chiu HY. [Diagnostic test accuracy meta-analysis of PRE-DELIRIC (PREdiction of DELIRium in ICu patients): A delirium prediction model in intensive care practice.](https://www.ncbi.nlm.nih.gov/pubmed/31879228) Intensive Crit Care Nurs. 2019 Dec 23:102784
111. Riker RR, Fraser GL. [Delirium-Beyond the CAM-ICU.](https://www.ncbi.nlm.nih.gov/pubmed/31833987) Crit Care Med. 2020 Jan;48(1):134-136
112. Pisani MA, D'Ambrosio C. [Sleep and Delirium in Critically Ill Adults: A Contemporary Review Chest.](https://www.ncbi.nlm.nih.gov/pubmed/31874132) Chest. 2019 Dec 21
113. Pereira JV, Sanjanwala RM, Mohammed MK, Le ML, Arora RC. [Dexmedetomidine versus propofol sedation in reducing delirium among older adults in the ICU: A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31860605) Eur J Anaesthesiol. 2020 Feb;37(2):121-131
114. Lin P, Zhang J, Shi F, Liang ZA. [Can haloperidol prophylaxis reduce the incidence of delirium in critically ill patients in intensive care units? A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/32033776) Heart Lung. 2020 Feb 5
115. Krewulak KD, Stelfox HT, Ely EW, Fiest KM. [Risk factors and outcomes among delirium subtypes in adult ICUs: A systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/31986369) J Crit Care. 2020 Jan 15;56:257-264
116. Inouye SK. [Joining Forces against Delirium - From Organ-System Care to Whole-Human Care.](https://www.ncbi.nlm.nih.gov/pubmed/32023371) N Engl J Med. 2020 Feb 6;382(6):499-501
117. Pearson SD, Patel BK. [Evolving targets for sedation during mechanical ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/31764193) Curr Opin Crit Care. 2020 Feb;26(1):47-52
118. Slooter AJC, Otte WM, Devlin JW, Arora RC, Bleck TP, Claassen J, Duprey MS, Ely EW, Kaplan PW, Latronico N, Morandi A, Neufeld KJ, Sharshar T, MacLullich AMJ, Stevens RD. [Updated nomenclature of delirium and acute encephalopathy: statement of ten Societies.](https://www.ncbi.nlm.nih.gov/pubmed/32055887) Intensive Care Med. 2020 Feb 13
119. Gual N, García-Salmones M, Brítez L, Crespo N, Udina C, Pérez LM, Inzitari M. [The role of physical exercise and rehabilitation in delirium.](https://www.ncbi.nlm.nih.gov/pubmed/32297245) Eur Geriatr Med. 2020 Feb;11(1):83-93
120. Meagher D, Williams OA, O'Connell H, Leonard M, Cullen W, Dunne CP, Mulligan O, Adamis D. [A systematic review and meta-analysis of the accuracy of the clock drawing test (CDT) in the identification of delirium in older hospitalised patients.](https://pubmed.ncbi.nlm.nih.gov/32091236/?from_term=Meagher+D&from_cauthor_id=32091236&from_pos=1) Aging Ment Health. 2020 Feb 24:1-10.
121. Singu S, Koneru M, Robinson KA, Neufeld KJ, Oh ES, Wilson LM, Needham DM, Balagani A, Aldabain L, Nikooie R, Fick DM. [Are Antipsychotics Helpful for Preventing or Treating Delirium?](https://pubmed.ncbi.nlm.nih.gov/32219451/?from_term=Singu+S&from_cauthor_id=32219451&from_pos=1) J Gerontol Nurs. 2020 Apr 1;46(4):3-5.
122. Deemer K, Zjadewicz K, Fiest K, Oviatt S, Parsons M, Myhre B, Posadas-Calleja J. [Effect of early cognitive interventions on delirium in critically ill patients: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/32333291/?from_term=Deemer+K&from_cauthor_id=32333291&from_pos=1) Can J Anaesth. 2020 Apr 24.
123. Rosgen BK, Krewulak KD, Stelfox HT, Ely EW, Davidson JE, Fiest KM. [The association of delirium severity with patient and health system outcomes in hospitalised patients: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/32342978/?from_term=Rosgen+BK&from_cauthor_id=32342978&from_pos=1) Age Ageing. 2020 Apr 28:afaa053
124. Oh ES, Akeju O, Avidan MS, Cunningham C, Hayden KM, Jones RN, Khachaturian AS, Khan BA, Marcantonio ER, Needham DM, Neufeld KJ, Rose L, Spence J, Tieges Z, Vlisides P, Inouye SK; NIDUS Writing Group. [A roadmap to advance delirium research: Recommendations from the NIDUS Scientific Think Tank.](https://pubmed.ncbi.nlm.nih.gov/32291901/?from_term=Oh+ES&from_cauthor_id=32291901&from_pos=1) Alzheimers Dement. 2020 May;16(5):726-733
125. Ludolph P, Stoffers-Winterling J, Kunzler AM, Rösch R, Geschke K, Vahl CF, Lieb K. [Non-Pharmacologic Multicomponent Interventions Preventing Delirium in Hospitalized People.](https://pubmed.ncbi.nlm.nih.gov/32531089/) J Am Geriatr Soc. 2020 Jun 12.
126. Honarmand K, Rafay H, Le J, Mohan S, Rochwerg B, Devlin JW, Skrobik Y, Weinhouse GL, Drouot X, Watson PL, McKinley S, Bosma KJ. [A Systematic Review of Risk Factors for Sleep Disruption in Critically Ill Adults.](https://pubmed.ncbi.nlm.nih.gov/32433122/) Crit Care Med. 2020 Jul;48(7):1066-1074
127. Goldberg TE, Chen C, Wang Y, Jung E, Swanson A, Ing C, Garcia PS, Whittington RA, Moitra V. [Association of Delirium With Long-term Cognitive Decline: A Meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32658246/) JAMA Neurol. 2020 Jul 13:e202273.
128. Ho MH, Montgomery A, Traynor V, Chang CC, Kuo KN, Chang HR, Chen KH. [Diagnostic Performance of Delirium Assessment Tools in Critically Ill Patients: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/32786067/) Worldviews Evid Based Nurs. 2020 Aug;17(4):301-310.
129. Xu S, Cui Y, Shen J, Wang P. [Suvorexant for the prevention of delirium: A meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32791676/) Medicine (Baltimore). 2020 Jul 24;99(30):e21043.
130. Wheeler KE, Grilli R, Centofanti JE, Martin J, Gelinas C, Szumita PM, Devlin JW, Chanques G, Alhazzani W, Skrobik Y, Kho ME, Nunnally ME, Gagarine A, Ergan BA, Fernando S, Price C, Lewin J, Rochwerg B. [Adjuvant Analgesic Use in the Critically Ill: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/32696016/) Crit Care Explor. 2020 Jul 6;2(7):e0157
131. Deng LX, Cao L, Zhang LN, Peng XB, Zhang L. [Non-pharmacological interventions to reduce the incidence and duration of delirium in critically ill patients: A systematic review and network meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32919363/) J Crit Care. 2020 Aug 31;60:241-248
132. Aung Thein MZ, Pereira JV, Nitchingham A, Caplan GA. [A call to action for delirium research: Meta-analysis and regression of delirium associated mortality.](https://pubmed.ncbi.nlm.nih.gov/32894065/) BMC Geriatr. 2020 Sep 7;20(1):325.
133. Mattison MLP. [Delirium.](https://pubmed.ncbi.nlm.nih.gov/33017552/) Ann Intern Med. 2020 Oct 6;173(7):ITC49-ITC64
134. Wilson, J.E., Mart, M.F., Cunningham, C. *et al.* Delirium. *Nat Rev Dis Primers* **6,** 90 (2020). <https://doi.org/10.1038/s41572-020-00223-4>
135. Abowali HA, Paganini M, Enten G, Elbadawi A, Camporesi EM. [Critical Review and Meta-Analysis of Postoperative Sedation after Adult Cardiac Surgery: Dexmedetomidine Versus Propofol.](https://pubmed.ncbi.nlm.nih.gov/33168430/) J Cardiothorac Vasc Anesth. 2020 Oct 17:S1053-0770(20)31136-8
136. Helfand BKI, D'Aquila ML, Tabloski P, Erickson K, Yue J, Fong TG, Hshieh TT, Metzger ED, Schmitt EM, Boudreaux ED, Inouye SK, Jones RN. [Detecting Delirium: A Systematic Review of Identification Instruments for Non-ICU Settings.](https://pubmed.ncbi.nlm.nih.gov/33135780/) J Am Geriatr Soc. 2020 Nov 2
137. Liang S, Chau JPC, Lo SHS, Zhao J, Choi KC. [Effects of nonpharmacological delirium-prevention interventions on critically ill patients' clinical, psychological, and family outcomes: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33250403/) Aust Crit Care. 2020 Nov 26:S1036-7314(20)30311-8.
138. Zhang S, Han Y, Xiao Q, Li H, Wu Y. [Effectiveness of Bundle Interventions on ICU Delirium: A Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/33332818/) Crit Care Med. 2020 Dec 16
139. Lin P, Zhang J, Shi F, Liang ZA. [Can haloperidol prophylaxis reduce the incidence of delirium in critically ill patients in intensive care units? A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32033776/) Heart Lung. 2020 May-Jun;49(3):265-272
140. Wang S, Hong Y, Li S, Kuriyama A, Zhao Y, Hu J, Luo A, Sun R. [Effect of dexmedetomidine on delirium during sedation in adult patients in intensive care units: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33296787/) J Clin Anesth. 2020 Dec 3;69:110157
141. Ruppert MM, Lipori J, Patel S, Ingersent E, Cupka J, Ozrazgat-Baslanti T, Loftus T, Rashidi P, Bihorac A. [ICU Delirium-Prediction Models: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/33354672/) Crit Care Explor. 2020 Dec 16;2(12):e0296
142. Lewis K, Piticaru J, Chaudhuri D, Basmaji J, Fan E, Møller MH, Devlin JW, Alhazzani W. [Safety and efficacy of dexmedetomidine in acutely ill adults requiring non-invasive ventilation: a systematic review and meta-analysis of randomized trials.](https://pubmed.ncbi.nlm.nih.gov/33434496/)  Chest. 2021 Jan 9:S0012-3692(21)00032-5
143. Zhang Q, Gao F, Zhang S, Sun W, Li Z. [Prophylactic use of exogenous melatonin and melatonin receptor agonists to improve sleep and delirium in the intensive care units: a systematic review and meta-analysis of randomized controlled trials.](https://pubmed.ncbi.nlm.nih.gov/31119597/) Sleep Breath. 2019 Dec;23(4):1059-1070.
144. Muradov O, Petrovskaya O, Papathanassoglou E. [Effectiveness of cognitive interventions on cognitive outcomes of adult intensive care unit survivors: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/33526331/) Aust Crit Care. 2021 Jan 29:S1036-7314(20)30342-8
145. Marra A, Vargas M, Buonanno P, Iacovazzo C, Kotfis K, Servillo G. [Haloperidol for preventing delirium in ICU patients: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33629327/) Eur Rev Med Pharmacol Sci. 2021 Feb;25(3):1582-1591.
146. Wood MD, Boyd JG, Wood N, Frank J, Girard TD, Ross-White A, Chopra A, Foster D, Griesdale DEG. J [The Use of Near-Infrared Spectroscopy and/or Transcranial Doppler as Non-Invasive Markers of Cerebral Perfusion in Adult Sepsis Patients With Delirium: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/33685273/) Intensive Care Med. 2021 Mar 9:885066621997090.
147. Ludolph P, Stoffers-Winterling J, Kunzler AM, Rösch R, Geschke K, Vahl CF, Lieb K. [Non-Pharmacologic Multicomponent Interventions Preventing Delirium in Hospitalized People.](https://pubmed.ncbi.nlm.nih.gov/32531089/) J Am Geriatr Soc. 2020 Aug;68(8):1864-1871
148. Inouye SK. [The Importance of Delirium and Delirium Prevention in Older Adults During Lockdowns.](https://pubmed.ncbi.nlm.nih.gov/33720288/) JAMA. 2021 Mar 15. doi: 10.1001/jama.2021.2211
149. Aitken LM, Kydonaki K, Blackwood B, Trahair LG, Purssell E, Sekhon M, Walsh TS. [Inconsistent relationship between depth of sedation and intensive care outcome: systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33859048/) Thorax. 2021 Apr 15:thoraxjnl-2020-216098
150. Garcia R, Salluh JIF, Andrade TR, Farah D, da Silva PSL, Bastos DF, Fonseca MCM. [A systematic review and meta-analysis of propofol versus midazolam sedation in adult intensive care (ICU) patients.](https://pubmed.ncbi.nlm.nih.gov/33838522/) J Crit Care. 2021 Apr 6;64:91-99
151. Qi Z, Yang S, Qu J, Li M, Zheng J, Huang R, Yang Z, Han Q, Li H. [Effects of nurse-led sedation protocols on mechanically ventilated intensive care adults: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33054987/) Aust Crit Care. 2021 May;34(3):278-286
152. Liu X, Xiong J, Tang Y, Gong CC, Wang DF. [Role of dexmedetomidine in the treatment of delirium in critically ill patients: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33300321/) Minerva Anestesiol. 2021 Jan;87(1):65-76.
153. Khaing K, Nair BR. [Melatonin for delirium prevention in hospitalized patients: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33348252/) J Psychiatr Res. 2021 Jan;133:181-190
154. Dziegielewski C, Skead C, Canturk T, Webber C, Fernando SM, Thompson LH, Foster M, Ristovic V, Lawlor PG, Chaudhuri D, Dave C, Herritt B, Bush SH, Kanji S, Tanuseputro P, Thavorn K, Rosenberg E, Kyeremanteng K. [Delirium and Associated Length of Stay and Costs in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/33981458/) Crit Care Res Pract. 2021 Apr 24;2021:6612187
155. Hayhurst CJ, Hughes CG, Pandharipande PP. [The Conundrum of Pain, Opiate Use and Delirium: Analgosedation or Analgesia-first Approach?](https://pubmed.ncbi.nlm.nih.gov/33956575/) Am J Respir Crit Care Med. 2021 May 6
156. Sedhai YR, Shrestha DB, Budhathoki P, Jha V, Mandal SK, Karki S, Baniya R, Cable CA, Kashiouris MG. [Effect of thiamine supplementation in critically ill patients: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34118501/) J Crit Care. 2021 Jun 4;65:104-115
157. Sahawneh F, Boss L. [Non-pharmacologic interventions for the prevention of delirium in the intensive care unit: An integrative review.](https://pubmed.ncbi.nlm.nih.gov/33474830/) Nurs Crit Care. 2021 May;26(3):166-175
158. Kuusisto-Gussmann E, Höckelmann C, von der Lühe V, Schmädig R, Baltes M, Stephan A. [Patients' experiences of delirium: A systematic review and meta-summary of qualitative research.](https://pubmed.ncbi.nlm.nih.gov/33991125/) J Adv Nurs. 2021 May 15
159. Hut SCA, Dijkstra-Kersten SMA, Numan T, Henriquez NRVR, Teunissen NW, van den Boogaard M, Leijten FS, Slooter AJC. [EEG and clinical assessment in delirium and acute encephalopathy.](https://pubmed.ncbi.nlm.nih.gov/33993579/) Psychiatry Clin Neurosci. 2021 May 16
160. Dunne SS, Coffey JC, Konje S, Gasior S, Clancy CC, Gulati G, Meagher D, Dunne CP. [Biomarkers in delirium: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/34098376/) J Psychosom Res. 2021 Aug;147:110530
161. Palakshappa JA, Hough CL. [How We Do It: How We Prevent and Treat Delirium in the ICU.](https://pubmed.ncbi.nlm.nih.gov/34102141/) Chest. 2021 Jun 5:S0012-3692(21)01091-6
162. Wilcox ME, Girard TD, Hough CL. [Delirium and long term cognition in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/34103334/) BMJ. 2021 Jun 8;373:n1007.
163. Mart MF, Pun BT, Pandharipande P, Jackson JC, Ely EW. [ICU Survivorship-The Relationship of Delirium, Sedation, Dementia, and Acquired Weakness.](https://pubmed.ncbi.nlm.nih.gov/34115639/) Crit Care Med. 2021 Jun 9
164. Devlin JW, Pandharipande PP. [Do Our Sedation Practices Contribute to Increased Mortality in Coronavirus Disease 2019-Related Acute Respiratory Distress Syndrome?](https://pubmed.ncbi.nlm.nih.gov/34034302/) Crit Care Med. 2021 May 25.
165. Burton JK, Craig LE, Yong SQ, Siddiqi N, Teale EA, Woodhouse R, Barugh AJ, Shepherd AM, Brunton A, Freeman SC, Sutton AJ, Quinn TJ. [Non-pharmacological interventions for preventing delirium in hospitalised non-ICU patients.](https://pubmed.ncbi.nlm.nih.gov/34280303/) Cochrane Database Syst Rev. 2021 Jul 19;7:CD013307.
166. Bellon F, Mora-Noya V, Pastells-Peiró R, Abad-Corpa E, Gea-Sánchez M, Moreno-Casbas T. [The efficacy of nursing interventions on sleep quality in hospitalized patients: A systematic review of randomized controlled trials.](https://pubmed.ncbi.nlm.nih.gov/33383270/) Int J Nurs Stud. 2021 Mar;115:103855
167. Shehabi Y, Murfin B, James A, Al-Bassam W, Bellomo R. [Trials of dexmedetomidine sedation in ventilated critically ill septic patients: Challenges, limitations and opportunities.](https://pubmed.ncbi.nlm.nih.gov/34217839/) Anaesth Crit Care Pain Med. 2021 Jul 2;40(4):100925
168. Devlin JW, Seth B, Train S, Needham DM. [Maintaining light sedation is important: next steps for research.](https://pubmed.ncbi.nlm.nih.gov/34272337/) Thorax. 2021 Jul 16:thoraxjnl-2021-217337
169. Serafim RB, Paulino MC, Povoa P. [What every intensivist needs to know about subsyndromal delirium in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/32401995/) Rev Bras Ter Intensiva. 2020 Mar;32(1):14-16
170. Wu TT, Lupi KE, Dube KM, Devlin JW. [You Give Me Fever: Is Dexmedetomidine (or Another Medication) the Cause?](https://pubmed.ncbi.nlm.nih.gov/34135280/) Crit Care Med. 2021 Jul 1;49(7):1205-1207
171. Qin M, Gao Y, Guo S, Lu X, Zhu H, Li Y. [Family intervention for delirium for patients in the intensive care unit: A systematic meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34838428/) J Clin Neurosci. 2021 Nov 24:S0967-5868(21)00559-2.
172. Kim CM, van der Heide EM, van Rompay TJL, Verkerke GJ, Ludden GDS. [Overview and Strategy Analysis of Technology-Based Nonpharmacological Interventions for In-Hospital Delirium Prevention and Reduction: Systematic Scoping Review.](https://pubmed.ncbi.nlm.nih.gov/34435955/) J Med Internet Res. 2021 Aug 26;23(8):e26079
173. Burton JK, Craig L, Yong SQ, Siddiqi N, Teale EA, Woodhouse R, Barugh AJ, Shepherd AM, Brunton A, Freeman SC, Sutton AJ, Quinn TJ. [Non-pharmacological interventions for preventing delirium in hospitalised non-ICU patients.](https://pubmed.ncbi.nlm.nih.gov/34826144/) Cochrane Database Syst Rev. 2021 Nov 26;11(11):CD013307.
174. Wilson JE, Andrews P, Ainsworth A, Roy K, Ely EW, Oldham MA. [Pseudodelirium: Psychiatric Conditions to Consider on the Differential for Delirium.](https://pubmed.ncbi.nlm.nih.gov/34392693/) J Neuropsychiatry Clin Neurosci. 2021 Fall;33(4):356-364
175. Malik J. [Animal-Assisted Interventions in Intensive Care Delirium: A Literature Review.](https://pubmed.ncbi.nlm.nih.gov/34879136/) AACN Adv Crit Care. 2021 Dec 15;32(4):391-397
176. Cucci MD, Chester KW, Hamilton LA. [Concise Definitive Review for Reinitiation of Antidepressants, Antipsychotics, and Gabapentinoids in ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/34982737/) Crit Care Med. 2022 Jan 5.
177. Weinhouse GL, Kimchi E, Watson P, Devlin JW. [Sleep Assessment in Critically Ill Adults: Established Methods and Emerging Strategies.](https://pubmed.ncbi.nlm.nih.gov/35156048/) Crit Care Explor. 2022 Feb 7;4(2):e0628
178. Pabón-Martínez BA, Rodríguez-Pulido LI, Henao-Castaño AM. [The family in preventing delirium in the intensive care unit: Scoping review.](https://pubmed.ncbi.nlm.nih.gov/35144905/) Enferm Intensiva (Engl Ed). 2022 Feb 7:S2529-9840(22)00010-6
179. Blodgett TJ, Blodgett NP. [Melatonin and melatonin-receptor agonists to prevent delirium in hospitalized older adults: An umbrella review.](https://pubmed.ncbi.nlm.nih.gov/34749057/) Geriatr Nurs. 2021 Nov-Dec;42(6):1562-1568
180. la Cour KN, Andersen-Ranberg NC, Weihe S, Poulsen LM, Mortensen CB, Kjer CKW, Collet MO, Estrup S, Mathiesen O. [Distribution of delirium motor subtypes in the intensive care unit: a systematic scoping review.](https://pubmed.ncbi.nlm.nih.gov/35241132/) Crit Care. 2022 Mar 3;26(1):53
181. Adams AMN, Chamberlain D, Grønkjær M, Brun Thorup C, Conroy T. [Nonpharmacological interventions for agitation in the adult intensive care unit: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/35513998/) Aust Crit Care. 2022 Apr 29:S1036-7314(22)00031-5
182. Chen TJ, Traynor V, Wang AY, Shih CY, Tu MC, Chuang CH, Chiu HY, Chang HR. [Comparative effectiveness of non-pharmacological interventions for preventing delirium in critically ill adults: A systematic review and network meta-analysis](https://pubmed.ncbi.nlm.nih.gov/35468538/). Int J Nurs Stud. 2022 Mar 28;131:104239.
183. Lewis K, Alshamsi F, Carayannopoulos KL, Granholm A, Piticaru J, Al Duhailib Z, Chaudhuri D, Spatafora L, Yuan Y, Centofanti J, Spence J, Rochwerg B, Perri D, Needham DM, Holbrook A, Devlin JW, Nishida O, Honarmand K, Ergan B, Khorochkov E, Pandharipande P, Alshahrani M, Karachi T, Soth M, Shehabi Y, Møller MH, Alhazzani W; GUIDE group. [Dexmedetomidine vs other sedatives in critically ill mechanically ventilated adults: a systematic review and meta-analysis of randomized trials.](https://pubmed.ncbi.nlm.nih.gov/35648198/) Intensive Care Med. 2022 Jun 1
184. Møller MH, Alhazzani W, Lewis K, Belley-Cote E, Granholm A, Centofanti J, McIntyre WB, Spence J, Al Duhailib Z, Needham DM, Evans L, Reintam Blaser A, Pisani MA, D'Aragon F, Shankar-Hari M, Alshahrani M, Citerio G, Arora RC, Mehta S, Girard TD, Ranzani OT, Hammond N, Devlin JW, Shehabi Y, Pandharipande P, Ostermann M. [Use of dexmedetomidine for sedation in mechanically ventilated adult ICU patients: a rapid practice guideline.](https://pubmed.ncbi.nlm.nih.gov/35587274/) Intensive Care Med. 2022 May 19
185. Cui et al. [Non-Pharmacological Interventions for Minimizing Physical Restraints Use in Intensive Care Units: An Umbrella Review.](https://pubmed.ncbi.nlm.nih.gov/35573001/) Front Med (Lausanne). 2022 Apr 27;9:806945
186. Kang J, Cho YS, Lee M, Yun S, Jeong YJ, Won YH, Hong J, Kim S. [Effects of nonpharmacological interventions on sleep improvement and delirium prevention in critically ill patients: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/35718628/) Aust Crit Care. 2022 Jun 16
187. Kotfis K, van Diem-Zaal I, Roberson SW, Sietnicki M, van den Boogaard M, Shehabi Y, Ely EW. [The future of intensive care: delirium should no longer be an issue.](https://pubmed.ncbi.nlm.nih.gov/35790979/) Crit Care. 2022 Jul 5;26(1):200.
188. Stollings JL, Balas MC, Chanques G. [Evolution of sedation management in the intensive care unit (ICU).](https://pubmed.ncbi.nlm.nih.gov/35904562/) Intensive Care Med. 2022 Jul 29:1-4
189. Heybati K, Zhou F, Ali S, Deng J, Mohananey D, Villablanca P, Ramakrishna H. [Outcomes of dexmedetomidine versus propofol sedation in critically ill adults requiring mechanical ventilation: a systematic review and meta-analysis of randomised controlled trials.](https://pubmed.ncbi.nlm.nih.gov/35961815/) Br J Anaesth. 2022 Aug 9:S0007-0912(22)00321-X
190. Chanques G, Gélinas C. [Monitoring pain in the intensive care unit (ICU).](https://pubmed.ncbi.nlm.nih.gov/35904563/) Intensive Care Med. 2022 Jul 29
191. Connell J, Oldham M, Pandharipande P, Dittus RS, Wilson A, Mart M, Heckers S, Ely EW, Wilson JE. [Malignant Catatonia: A Review for the Intensivist.](https://pubmed.ncbi.nlm.nih.gov/35861966/) J Intensive Care Med. 2022 Jul 21:8850666221114303
192. Fong TG, Inouye SK. [The inter-relationship between delirium and dementia: the importance of delirium prevention.](https://pubmed.ncbi.nlm.nih.gov/36028563/) Nat Rev Neurol. 2022 Oct;18(10):579-596
193. Abraham J, Hirt J, Richter C, Köpke S, Meyer G, Möhler R. [Interventions for preventing and reducing the use of physical restraints of older people in general hospital settings.](https://pubmed.ncbi.nlm.nih.gov/36004796/) Cochrane Database Syst Rev. 2022 Aug 25;8(8):CD012476
194. Kakar E, Priester M, Wessels P, Slooter AJC, Louter M, van der Jagt M. [Sleep assessment in critically ill adults: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/35849874/) J Crit Care. 2022 Oct;71:154102
195. Nydahl et al [Early mobilisation for prevention and treatment of delirium in critically ill patients: Systematic review and meta-analysis](https://www.sciencedirect.com/science/article/pii/S0964339722001379). Intensive and Critical Care Nursing, 2022
196. Yan W, Li C, Song X, Zhou W, Chen Z. [Prophylactic melatonin for delirium in critically ill patients: A systematic review and meta-analysis with trial sequential analysis](https://pubmed.ncbi.nlm.nih.gov/36316858/). Medicine (Baltimore). 2022 Oct 28;101(43):e31411
197. Shih CY, Wang AY, Chang KM, Yang CC, Tsai YC, Fan CC, Chuang HJ, Thi Phuc N, Chiu HY. [Dynamic prevalence of sleep disturbance among critically ill patients in intensive care units and after hospitalisation: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/36464604/) Intensive Crit Care Nurs. 2022 Dec 1:103349
198. Poon WH, Ling RR, Yang IX, Luo H, Kofidis T, MacLaren G, Tham C, Teoh KLK, Ramanathan K. [Dexmedetomidine for adult cardiac surgery: a systematic review, meta-analysis and trial sequential analysis.](https://pubmed.ncbi.nlm.nih.gov/36535747/) Anaesthesia. 2022 Dec 19
199. Aiello G, Cuocina M, La Via L, Messina S, Attaguile GA, Cantarella G, Sanfilippo F, Bernardini R. [Melatonin or Ramelteon for Delirium Prevention in the Intensive Care Unit: A Systematic Review and Meta-Analysis of Randomized Controlled Trials.](https://pubmed.ncbi.nlm.nih.gov/36675363/) J Clin Med. 2023 Jan 5;12(2):435
200. Ormseth CH, LaHue SC, Oldham MA, Josephson SA, Whitaker E, Douglas VC. [Predisposing and Precipitating Factors Associated With Delirium: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/36607634/) JAMA Netw Open. 2023 Jan 3;6(1):e2249950
201. Sosnowski K, Lin F, Chaboyer W, Ranse K, Heffernan A, Mitchell M. [The effect of the ABCDE/ABCDEF bundle on delirium, functional outcomes, and quality of life in critically ill patients: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/36577261/) Int J Nurs Stud. 2023 Feb;138:104410
202. Maagaard M, Barbateskovic M, Andersen-Ranberg NC, Kronborg JR, Chen YX, Xi HH, Perner A, Wetterslev J. [Dexmedetomidine for the prevention of delirium in adults admitted to the intensive care unit or post-operative care unit: A systematic review of randomised clinical trials with meta-analysis and Trial Sequential Analysis.](https://pubmed.ncbi.nlm.nih.gov/36702780/) Acta Anaesthesiol Scand. 2023 Jan 26
203. Zitikyte G, Roy DC, Tran A, Fernando SM, Rosenberg E, Kanji S, Engels PT, Wells GA, Vaillancourt C. [Pharmacologic Interventions to Prevent Delirium in Trauma Patients: A Systematic Review and Network Meta-Analysis of Randomized Controlled Trials.](https://pubmed.ncbi.nlm.nih.gov/36937896/) Crit Care Explor. 2023 Mar 15;5(3):e0875
204. Akhtar H, Chaudhry SH, Bortolussi-Courval É, Hanula R, Akhtar A, Nauche B, McDonald EG. [Diagnostic yield of CT head in delirium and altered mental status-A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/36434820/) J Am Geriatr Soc. 2023 Mar;71(3):946-958
205. Nassar AP, Ely EW, Fiest KM. [Long-term outcomes of intensive care unit delirium.](https://pubmed.ncbi.nlm.nih.gov/36964214/) Intensive Care Med. 2023 Mar 24
206. Eikermann M, Needham DM, Devlin JW. [Multimodal, patient-centred symptom control: a strategy to replace sedation in the ICU.](https://pubmed.ncbi.nlm.nih.gov/37187192/) Lancet Respir Med. 2023 Jun;11(6):506-509
207. Kotfis K, Ely EW, Shehabi Y. [Intensive care unit delirium-a decade of learning.](https://pubmed.ncbi.nlm.nih.gov/37414511/) Lancet Respir Med. 2023 Jul;11(7):584-586
208. Heavner MS, Louzon PR, Gorman EF, Landolf KM, Ventura D, Devlin JW. [A Rapid Systematic Review of Pharmacologic Sleep Promotion Modalities in the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/37403460/) J Intensive Care Med. 2023 Jul 4:8850666231186747
209. Huang J, Zheng H, Zhu X, Zhang K, Ping X. [The efficacy and safety of haloperidol for the treatment of delirium in critically ill patients: a systematic review and meta-analysis of randomized controlled trials.](https://pubmed.ncbi.nlm.nih.gov/37575982/) Front Med (Lausanne). 2023 Jul 27;10:1200314
210. Andersen-Ranberg NC, Barbateskovic M, Perner A, Oxenbøll Collet M, Musaeus Poulsen L, van der Jagt M, Smit L, Wetterslev J, Mathiesen O, Maagaard M. [Haloperidol for the treatment of delirium in critically ill patients: an updated systematic review with meta-analysis and trial sequential analysis.](https://pubmed.ncbi.nlm.nih.gov/37633991/) Crit Care. 2023 Aug 26;27(1):329
211. Teng J, Qin H, Guo W, Liu J, Sun J, Zhang Z. [Effectiveness of sleep interventions to reduce delirium in critically ill patients: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/37302381/) J Crit Care. 2023 Dec;78:154342
212. Yang B, Gao L, Tong Z. [Sedation and analgesia strategies for non-invasive mechanical ventilation: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/37769542/) Heart Lung. 2023 Sep 26;63:42-50
213. Miranda F, Gonzalez F, Plana MN, Zamora J, Quinn TJ, Seron P. [Confusion Assessment Method for the Intensive Care Unit (CAM-ICU) for the diagnosis of delirium in adults in critical care settings.](https://pubmed.ncbi.nlm.nih.gov/37987526/) Cochrane Database Syst Rev. 2023 Nov 21;11(11):CD013126
214. Eeles E, Tran DD, Boyd J, Tronstad O, Teodorczuk A, Flaws D, Fraser JF, Dissanayaka N. [A narrative review of the development and performance characteristics of electronic delirium-screening tools.](https://pubmed.ncbi.nlm.nih.gov/38102026/) Aust Crit Care. 2023 Dec 14:S1036-7314(23)00195-9
215. Wilcox ME, Burry L, Englesakis M, Coman B, Daou M, van Haren FM, Ely EW, Bosma KJ, Knauert MP. [Intensive care unit interventions to promote sleep and circadian biology in reducing incident delirium: a scoping review.](https://pubmed.ncbi.nlm.nih.gov/38350730/) Thorax. 2024 Feb 13:thorax-2023-220036
216. Fang CS, Tu YK, Chang SL, Kuo CC, Fang CJ, Chou FH. [Effectiveness of sound and darkness interventions for critically ill patients' sleep quality: A systematic review and component network meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/37017370/) Nurs Crit Care. 2024 Jan;29(1):134-143
217. Danielis M, Movio F, Milanese G, Mattiussi E. [Patients' reports on their delusional memories from the intensive care unit: A systematic review of qualitative studies.](https://pubmed.ncbi.nlm.nih.gov/38176133/) Intensive Crit Care Nurs. 2024 Apr;81:103617
218. Fontana I, Lissoni B, Fumagalli R. [Beauty, the beautician and empathy in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/38285050/) Intensive Care Med. 2024 Jan 29
219. Bassi T, Taran S, Girard TD, Robba C, Goligher EC. [Ventilator-associated Brain Injury - VABI: A New Priority for Research in Mechanical Ventilation.](https://pubmed.ncbi.nlm.nih.gov/38526447/) Am J Respir Crit Care Med. 2024 Mar 25
220. Nydahl P, Ely EW, Heras-La Calle G. [Humanizing Delirium Care.](https://pubmed.ncbi.nlm.nih.gov/38300266/) Intensive Care Med. 2024 Mar;50(3):469-471
221. Ceric A, Holgersson J, May TL, Skrifvars MB, Hästbacka J, Saxena M, Aneman A, Delaney A, Reade MC, Delcourt C, Jakobsen JC, Nielsen N. [Effect of level of sedation on outcomes in critically ill adult patients: a systematic review of clinical trials with meta-analysis and trial sequential analysis.](https://pubmed.ncbi.nlm.nih.gov/38572080/) EClinicalMedicine. 2024 Mar 28;71:102569
222. Zhang S, Han Y, Xiao Q, Li H, Wu Y. [Effectiveness of Bundle Interventions on ICU Delirium: A Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/33332818/) Crit Care Med. 2021 Feb 1;49(2):335-346
223. Kotfis K, Mesa P, Ely EW. [How to end quiet suffering in the intensive care unit? Identifying and treating hypoactive delirium.](https://pubmed.ncbi.nlm.nih.gov/39037606/) Intensive Care Med. 2024 Jul 22
224. Zhao J, Fan K, Zheng S, Xie G, Niu X, Pang J, Zhang H, Wu X, Qu [Effect of occupational therapy on the occurrence of delirium in critically ill patients: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/39105057/) J. Front Neurol. 2024 Jul 22;15:1391993
225. Ma X, Cheng H, Zhao Y, Zhu Y. [Prevalence and risk factors of subsyndromal delirium in ICU: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/39299169/) Intensive Crit Care Nurs. 2024 Sep 18;86:103834
226. Exl MT, Lotzer L, Deffner T, Jeitziner MM, Nydahl P. [Intensive care unit diaries-harmful or harmless: A systematic literature review and qualitative data synthesis.](https://pubmed.ncbi.nlm.nih.gov/39389847/) Aust Crit Care. 2024 Oct 9:S1036-7314(24)00257-1
227. Eelco et al. [Neuroleptic Malignant Syndrome](https://www.nejm.org/doi/full/10.1056/NEJMra2404606). NEJM 2024, in press
228. Diao Y, Yu X, Zhang Q, Chen X. [The predictive value of confusion assessment method-intensive care unit and intensive care delirium screening checklist for delirium in critically ill patients in the intensive care unit: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38538305/) Nurs Crit Care. 2024 Nov;29(6):1224-1235

## Guidelines

1. Martin J, Heymann A, Bäsell K, et al. [Evidence and consensus-based German guidelines for the management of analgesia, sedation and delirium in intensive care--short version](http://www.ncbi.nlm.nih.gov/pubmed/20200655). Ger Med Sci. 2010 Feb 2;8:Doc02. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2830566/?tool=pubmed)
2. National Institute for Health and Clinical Excellence (2010): Delirium: diagnosis, prevention and management. <http://guidance.nice.org.uk/CG103>
3. Barr J, Fraser GL, Puntillo K, Ely EW, Gélinas C, Dasta JF, Davidson JE, Devlin JW, Kress JP, Joffe AM, Coursin DB, Herr DL, Tung A, Robinson BR, Fontaine DK, Ramsay MA, Riker RR, Sessler CN, Pun B, Skrobik Y, Jaeschke R; American College of Critical Care Medicine. [Clinical practice guidelines for the management of pain, agitation, and delirium in adult patients in the intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/23269131) Crit Care Med. 2013 Jan;41(1):263-306
4. DAS-Taskforce 2015, Baron R, Binder A, Biniek R, Braune S, Buerkle H, Dall P, Demirakca S, Eckardt R, Eggers V, Eichler I, Fietze I, Freys S, Fründ A, Garten L, Gohrbandt B, Harth I, Hartl W, Heppner HJ, Horter J, Huth R, Janssens U, Jungk C, Kaeuper KM, Kessler P, Kleinschmidt S, Kochanek M, Kumpf M, Meiser A, Mueller A, Orth M, Putensen C, Roth B, Schaefer M, Schaefers R, Schellongowski P, Schindler M, Schmitt R, Scholz J, Schroeder S, Schwarzmann G, Spies C, Stingele R, Tonner P, Trieschmann U, Tryba M, Wappler F, Waydhas C, Weiss B, Weisshaar G. [Evidence and consensus based guideline for the management of delirium, analgesia, and sedation in intensive care medicine. Revision 2015 (DAS-Guideline 2015) - short version.](http://www.ncbi.nlm.nih.gov/pubmed/26609286) Ger Med Sci. 2015 Nov 12;13:Doc19.
5. Devlin JW, Skrobik Y, Gélinas C, Needham DM, Slooter AJC, Pandharipande PP, Watson PL, Weinhouse GL, Nunnally ME, Rochwerg B, Balas MC, van den Boogaard M, Bosma KJ, Brummel NE, Chanques G, Denehy L, Drouot X, Fraser GL, Harris JE, Joffe AM, Kho ME, Kress JP, Lanphere JA, McKinley S, Neufeld KJ, Pisani MA, Payen JF, Pun BT, Puntillo KA, Riker RR, Robinson BRH, Shehabi Y, Szumita PM, Winkelman C, Centofanti JE, Price C, Nikayin S, Misak CJ, Flood PD, Kiedrowski K, Alhazzani W. [Clinical Practice Guidelines for the Prevention and Management of Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/30113379) Crit Care Med. 2018 Sep;46(9):e825-e873
6. Celis-Rodríguez E, Díaz Cortés JC, Cárdenas Bolívar YR, Carrizosa González JA, Pinilla DI, Ferrer Záccaro LE, Birchenall C, Caballero López J, Argüello BM, Castillo Abrego G, Castorena Arellano G, Dueñas Castell C, Jáuregui Solórzano JM, Leal R, Pardo Oviedo JM, Arroyo M, Raffán-Sanabria F, Raimondi N, Reina R, Rodríguez Lima DR, Silesky Jiménez JI, Ugarte Ubiergo S, Gómez Escobar LG, Díaz Aya DP, Fowler C, Nates JL. [**Evidence-based** **clinical practice guidelines** for the **management** of **sedoanalgesia** and **delirium** in **critically ill** **adult** **patients**.](https://www.ncbi.nlm.nih.gov/pubmed/31492476) Med Intensiva. 2019 Sep 3
7. Smith HAB, Besunder JB, Betters KA, Johnson PN, Srinivasan V, Stormorken A, Farrington E, Golianu B, Godshall AJ, Acinelli L, Almgren C, Bailey CH, Boyd JM, Cisco MJ, Damian M, deAlmeida ML, Fehr J, Fenton KE, Gilliland F, Grant MJC, Howell J, Ruggles CA, Simone S, Su F, Sullivan JE, Tegtmeyer K, Traube C, Williams S, Berkenbosch JW. [2022 Society of Critical Care Medicine Clinical Practice Guidelines on Prevention and Management of Pain, Agitation, Neuromuscular Blockade, and Delirium in Critically Ill Pediatric Patients With Consideration of the ICU Environment and Early Mobility.](https://pubmed.ncbi.nlm.nih.gov/35119438/) Pediatr Crit Care Med. 2022 Feb 1;23(2):e74-e110
8. Seo Y, Lee HJ, Ha EJ, Ha TS. [2021 KSCCM clinical practice guidelines for pain, agitation, delirium, immobility, and sleep disturbance in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/35279975/) Acute Crit Care. 2022 Feb;37(1):1-25
9. Amer M, Hylander Møller M, Alshahrani M, Shehabi Y, Arabi YM, Alshamsi F, Ingi Sigurðsson M, Rehn M, Chew MS, Kalliomäki ML, Lewis K, Al-Suwaidan FA, Al-Dorzi HM, Al-Fares A, Alsadoon N, Bell CM, Groth CM, Parke R, Mehta S, Wischmeyer PE, Al-Omari A, Olkkola KT, Alhazzani W. [Ketamine Analgo-sedation for Mechanically Ventilated Critically Ill Adults: A Rapid Practice Guideline from the Saudi Critical Care Society and the Scandinavian Society of Anesthesiology and Intensive Care Medicine.](https://pubmed.ncbi.nlm.nih.gov/39207913/) Anesth Analg. 2024 Aug 29

# Mechanical Ventilation & Weaning

## Research studies

1. Ely EW, Baker AM, Dunagan DP, Burke HL, Smith AC, Kelly PT, et al. [Effect on the duration of mechanical ventilation of identifying patients capable of breathing spontaneously](http://www.ncbi.nlm.nih.gov/pubmed/8948561). N Engl J Med 1996;335:1864-9 [free full text](http://www.nejm.org/doi/full/10.1056/NEJM199612193352502)
2. Kollef MH, Shapiro SD, Silver P, St John RE, Prentice D, Sauer S, et al. [A randomized, controlled trial of protocol directed versus physician- directed weaning from mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/9142019). Crit Care Med 1997;25:567-74.
3. Cheung AM, Tansey CM, Tomlinson G, Diaz-Granados N, Matté A, Barr A, Mehta S, Mazer CD, Guest CB, Stewart TE, Al-Saidi F, Cooper AB, Cook D, Slutsky AS, Herridge MS. [Two-year outcomes, health care use, and costs of survivors of acute respiratory distress syndrome.](http://www.ncbi.nlm.nih.gov/pubmed/16763220) Am J Respir Crit Care Med. 2006 Sep 1;174(5):538-44
4. Girard TD,Kress JP, Fuchs BD: [Efficacy and safety of a paired sedation and ventilator weaning protocol for mechanically ventilated patients in intensive care (a wakening and breathing controlled trial): a randomised controlled trial](http://www.ncbi.nlm.nih.gov/pubmed/18191684). Lancet 2008 371:126–134.
5. Jackson JC, Girard TD, Gordon SM et al. [Long-term cognitive and psychological outcomes in the Awakening and Breathing controlled Trial](http://www.ncbi.nlm.nih.gov/pubmed/20299535). AJRCCM 2010; 182:183-191
6. Wunsch H, Linde-Zwirble WT, Angus DC, Hartman ME, Milbrandt EB, Kahn JM. [The epidemiology of mechanical ventilation use in the United States.](http://www.ncbi.nlm.nih.gov/pubmed/20639743) Crit Care Med. 2010 Oct;38(10):1947-53
7. Martin AD, Smith BK, Davenport PD, Harman E, Gonzalez-Rothi RJ, Baz M, Layon AJ, Banner MJ, Caruso LJ, Deoghare H, Huang TT, Gabrielli A. [Inspiratory muscle strength training improves weaning outcome in failure to wean patients: a randomized trial](http://ccforum.com/content/15/2/R84). Critical Care 2011, 15:R84
8. Moisey LL, Mourtzakis M, Cotton BA, Premji T, Heyland DK, Wade CE, Bulger E, Kozar RA; Nutrition and Rehabilitation Investigators Consortium (NUTRIC). [Skeletal muscle predicts ventilator-free days, ICU-free days, and mortality in elderly ICU patients](http://www.ncbi.nlm.nih.gov/pubmed/24050662). Crit Care. 2013 Sep 19;17(5):R206.
9. Files DC, Xiao K, Zhang T, Liu C, Qian J, Zhao W, Morris PE, Delbono O, Feng X. [The posterior cricoarytenoid muscle is spared from MuRF1-mediated muscle atrophy in mice with acute lung injury](http://www.ncbi.nlm.nih.gov/pubmed/24498144). PLoS One. 2014 Jan 31;9(1):e87587.
10. Thomas P, Paratz J, Lipman J. [Seated and semi-recumbent positioning of the ventilated intensive care patient - effect on gas exchange, respiratory mechanics and hemodynamics](http://www.ncbi.nlm.nih.gov/pubmed/24594247). Heart Lung. 2014 Mar-Apr;43(2):105-11.
11. Schmidt M, Pellegrino V, Combes A, Scheinkestel C, Cooper DJ, Hodgson C. [Mechanical ventilation during extracorporeal membrane oxygenation.](http://www.ncbi.nlm.nih.gov/pubmed/24447458) Crit Care. 2014 Jan 21;18(1):203
12. Needham DM, Yang T, Dinglas VD, Mendez-Tellez PA, Shanholtz C, Sevransky JE, Brower RG, Pronovost PJ, Colantuoni E. [Timing of Low Tidal Volume Ventilation and ICU Mortality in ARDS: A Prospective Cohort Study.](http://www.ncbi.nlm.nih.gov/pubmed/25478681) Am J Respir Crit Care Med. 2014 Dec 5
13. Files DC, Sanchez MA, Morris PE. [A conceptual framework: the early and late phases of skeletal muscle dysfunction in the acute respiratory distress syndrome.](http://www.ncbi.nlm.nih.gov/pubmed/26134116) Crit Care. 2015 Jul 2;19:266.
14. Chlan LL, Tracy MF, Guttormson J, Savik K. [Peripheral Muscle Strength and Correlates of Muscle Weakness in Patients Receiving Mechanical Ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/26523017) Am J Crit Care. 2015 Nov;24(6):e91-8.
15. Klompas M, Li L, Szumita P, Kleinman K, Murphy MV; CDC Prevention Epicenters Program. [Associations between different sedatives and ventilator-associated events, length-of-stay, and mortality in mechanically ventilated patients.](http://www.ncbi.nlm.nih.gov/pubmed/26501514) Chest. 2015 Oct 22.
16. Jeon K, Jeong BH, Ko MG, Nam J, Yoo H, Chung CR, Suh GY. [Impact of delirium on weaning from mechanical ventilation in medical patients.](http://www.ncbi.nlm.nih.gov/pubmed/26534738) Respirology. 2015 Nov 4.
17. Sansone GR, Frengley JD, Vecchione JJ, Manogaram MG, Kaner RJ. [Relationship of the Duration of Ventilator Support to Successful Weaning and Other Clinical Outcomes in 437 Prolonged Mechanical Ventilation Patients.](http://www.ncbi.nlm.nih.gov/pubmed/26792815) J Intensive Care Med. 2016 Jan 20.
18. Chan KS, Aronson Friedman L, Dinglas VD, Hough CL, Morris PE, Mendez-Tellez PA, Jackson JC, Ely EW, Hopkins RO, Needham DM. [Evaluating Physical Outcomes in Acute Respiratory Distress Syndrome Survivors: Validity, Responsiveness, and Minimal Important Difference of 4-Meter Gait Speed Test.](http://www.ncbi.nlm.nih.gov/pubmed/26963329) Crit Care Med. 2016 May;44(5):859-68.
19. Zambon M, Beccaria P, Matsuno J, Gemma M, Frati E, Colombo S, Cabrini L, Landoni G, Zangrillo A. [Mechanical Ventilation and Diaphragmatic Atrophy in Critically Ill Patients: An Ultrasound Study.](http://www.ncbi.nlm.nih.gov/pubmed/26992064) Crit Care Med. 2016 Jul;44(7):1347-52.
20. Dres M, Dubé BP, Mayaux J, Delemazure J, Reuter D, Brochard L, Similowski T, Demoule A. [Coexistence and Impact of Limb Muscle and Diaphragm Weakness at Time of Liberation From Mechanical Ventilation in Medical ICU Patients.](http://www.ncbi.nlm.nih.gov/pubmed/27310484) Am J Respir Crit Care Med. 2016 Jun 16
21. Fernández Carmona A, Esquinas AM, Ubeda Iglesias A, Díaz Castellanos MÁ. [Return of Voice for Tracheostomized Patients in ICU, Not Only Psychologic Advantages.](https://www.ncbi.nlm.nih.gov/pubmed/27984300) Crit Care Med. 2017 Jan;45(1):e118-e119.
22. Dubé BP, Dres M, Mayaux J, Demiri S, Similowski T, Demoule A. [Ultrasound evaluation of diaphragm function in mechanically ventilated patients: comparison to phrenic stimulation and prognostic implications.](https://www.ncbi.nlm.nih.gov/pubmed/28360224) Thorax. 2017 Mar 30.
23. Thomas S, Sauter W, Starrost U, Pohl M, Mehrholz J. [Time to decannulation and associated risk factors in the postacute rehabilitation of critically ill patients with intensive care unit-acquired weakness: a cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/27676204) Eur J Phys Rehabil Med. 2017 Aug;53(4):501-507.
24. Khemani RG, Sekayan T, Hotz J, Flink RC, Rafferty GF, Iyer N, Newth CJL. [Risk Factors for Pediatric Extubation Failure: The Importance of Respiratory Muscle Strength.](https://www.ncbi.nlm.nih.gov/pubmed/28437378) Crit Care Med. 2017 Aug;45(8):e798-e805.
25. Kutchak FM, Rieder MM, Victorino JA, Meneguzzi C, Poersch K, Forgiarini LA Junior, Bianchin MM. [Simple motor tasks independently predict extubation failure in critically ill neurological patients.](https://www.ncbi.nlm.nih.gov/pubmed/28746528) J Bras Pneumol. 2017 May-Jun;43(3):183-189.
26. Sandoval Moreno LM, Casas Quiroga IC, Wilches Luna EC, García AF. [Efficacy of respiratory muscle training in weaning of mechanical ventilation in patients with mechanical ventilation for 48hours or more: A Randomized Controlled Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29398169) Med Intensiva. 2018 Feb 2. pii: S0210-5691(17)30341-8
27. Zeng H, Zhang Z, Gong Y, Chen M. [Effect of chest physiotherapy in patients undergoing mechanical ventilation: a prospective randomized controlled trial].](https://www.ncbi.nlm.nih.gov/pubmed/28524027)Zhonghua Wei Zhong Bing Ji Jiu Yi Xue. 2017 May;29(5):403-406
28. Dunn H, Quinn L, Corbridge S, Kapella M, Eldeirawi K, Steffen A, Collins E. [A latent class analysis of prolonged mechanical ventilation patients at a long-term acute care hospital: Subtype differences in clinical outcomes.](https://www.ncbi.nlm.nih.gov/pubmed/30655004) Heart Lung. 2019 Jan 14.
29. Dres M, Gama de Abreu M, Merdji H, Müller-Redetzky H, Dellweg D, Randerath WJ, Mortaza S, Jung B, Bruells C, Mörer O, Scharffenberg M, Jaber S, Besset S, Bitter T, Geise A, Heine A, Malfertheiner MV, Kortgen A, Benzaquen J, Nelson T, Uhrig A, Mönig O, Meziani F, Demoule A, Similowski T; RESCUE-2 Study Group Investigators. [Randomised Clinical Study of Temporary Transvenous Phrenic Nerve Stimulation in Difficult-to-Wean Patients.](https://pubmed.ncbi.nlm.nih.gov/35108175/) Am J Respir Crit Care Med. 2022 Feb 2
30. Guttormson JL, Khan B, Brodsky MB, Chlan LL, Curley MAQ, Gélinas C, Happ MB, Herridge M, Hess D, Hetland B, Hopkins RO, Hosey MM, Hosie A, Lodolo AC, McAndrew NS, Mehta S, Misak C, Pisani MA, van den Boogaard M, Wang S. [Symptom Assessment for Mechanically Ventilated Patients: Principles and Priorities: An Official American Thoracic Society Workshop Report.](https://pubmed.ncbi.nlm.nih.gov/37000144/) Ann Am Thorac Soc. 2023 Apr;20(4):491-498

## Reviews

1. Boles JM, Bion J, Connors A, Herridge M, Marsh B, Melote C, Pearl R, Silverman H, Stanchina M, Vieillard-Baron A, Welte T.: [Weaning from mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/17470624). Eur Respir J 2007; 29: 1033–1056 [free full text](http://erj.ersjournals.com/content/29/5/1033.long)
2. Blackwood B, Alderdice F, Burns K, Cardwell C, Lavery G, O'Halloran P. [Use of weaning protocols for reducing duration of mechanical ventilation in critically ill adult patients: Cochrane systematic review and meta-analysis](http://www.ncbi.nlm.nih.gov/pubmed/21233157). BMJ. 2011 Jan 13;342:c7237. doi: 10.1136/bmj.c7237. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3020589/?tool=pubmed)
3. Hsieh SJ, Soto GJ, Hope AA, Ponea A, Gong MN. [The Association between Acute Respiratory Distress Syndrome, Delirium, and In-Hospital Mortality in Intensive Care Unit Patients.](http://www.ncbi.nlm.nih.gov/pubmed/25393331) Am J Respir Crit Care Med. 2015 Jan 1;191(1):71-8.
4. Rose L, Dainty KN, Jordan J, Blackwood B. [Weaning from mechanical ventilation: a scoping review of qualitative studies.](http://www.ncbi.nlm.nih.gov/pubmed/25179040) Am J Crit Care. 2014 Sep;23(5):e54-70.
5. Goligher EC, Douflé G, Fan E. [Update in Mechanical Ventilation, Sedation, and Outcomes 2014.](http://www.ncbi.nlm.nih.gov/pubmed/26075422) Am J Respir Crit Care Med. 2015 Jun 15;191(12):1367-73.
6. Wang L, Li X, Yang Z, Tang X, Yuan Q, Deng L, Sun X. [Semi-recumbent position versus supine position for the prevention of ventilator-associated pneumonia in adults requiring mechanical ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/26743945) Cochrane Database Syst Rev. 2016 Jan 8;1:CD009946.
7. Zambon M, Greco M, Bocchino S, Cabrini L, Beccaria PF, Zangrillo A. [Assessment of diaphragmatic dysfunction in the critically ill patient with ultrasound: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/27620292) Intensive Care Med. 2017 Jan;43(1):29-38.
8. Bui KL, Nyberg A, Maltais F, Saey D. [Functional Tests in Chronic Obstructive Pulmonary Disease Part 1: Clinical Relevance and Links to the International Classification of Functioning, Disability and Health.](https://www.ncbi.nlm.nih.gov/pubmed/28244799) Ann Am Thorac Soc. 2017 Feb 28
9. Bui KL, Nyberg A, Maltais F, Saey D. [Functional Tests in Chronic Obstructive Pulmonary Disease Part 2: Measurement Properties.](https://www.ncbi.nlm.nih.gov/pubmed/28244801) Ann Am Thorac Soc. 2017 Feb 28
10. Lu Z, Xu Q, Yuan Y, Zhang G, Guo F, Ge H. [Diaphragmatic Dysfunction Is Characterized by Increased Duration of Mechanical Ventilation in Subjects With Prolonged Weaning.](https://www.ncbi.nlm.nih.gov/pubmed/27682813) Respir Care. 2016 Oct;61(10):1316-22.
11. Bissett BM, Leditschke IA, Neeman T, Boots R, Paratz J. [Inspiratory muscle training to enhance recovery from mechanical ventilation: a randomised trial.](https://www.ncbi.nlm.nih.gov/pubmed/27257003) Thorax. 2016 Sep;71(9):812-9.
12. Latronico N, Minelli C, Eikermann M. [Prediction of long-term outcome subtypes in ARDS: first steps towards personalised medicine in critical care.](https://www.ncbi.nlm.nih.gov/pubmed/28988218) Thorax. 2017 Dec;72(12):1067-1068
13. Stollings JL, Devlin JW, Pun BT, Puntillo KA, Kelly T, Hargett KD, Morse A, Esbrook CL, Engel HJ, Perme C, Barnes-Daly MA, Posa PJ, Aldrich JM, Barr J, Carson SS, Schweickert WD, Byrum DG, Harmon L, Ely EW, Balas MC. [Implementing the ABCDEF Bundle: Top 8 Questions Asked During the ICU Liberation ABCDEF Bundle Improvement Collaborative.](https://www.ncbi.nlm.nih.gov/pubmed/30710035) Crit Care Nurse. 2019 Feb;39(1):36-45
14. Hirzallah FM, Alkaissi A, do Céu Barbieri-Figueiredo M. [A systematic review of nurse-led weaning protocol for mechanically ventilated adult patients.](https://pubmed.ncbi.nlm.nih.gov/30618113/) Nurs Crit Care. 2019 Mar;24(2):89-96.
15. Demoule A, Decavele M, Antonelli M, Camporota L, Abroug F, Adler D, Azoulay E, Basoglu M, Campbell M, Grasselli G, Herridge M, Johnson MJ, Naccache L, Navalesi P, Pelosi P, Schwartzstein R, Williams C, Windisch W, Heunks L, Similowski T. [Dyspnoea in acutely ill mechanically ventilated adult patients: an ERS/ESICM statement.](https://pubmed.ncbi.nlm.nih.gov/38388984/) Intensive Care Med. 2024 Feb;50(2):159-180

## Guidelines

1. Girard TD, Alhazzani W, Kress JP, Ouellette DR, Schmidt GA, Truwit JD, Burns SM, Epstein SK, Esteban A, Fan E, Ferrer M, Fraser GL, Gong MN, Hough CL, Mehta S, Nanchal R, Patel S, Pawlik AJ, Sessler CN, Strøm T, Schweickert W, Wilson KC, Morris PE. [An Official American Thoracic Society/American College of Chest Physicians Clinical Practice Guideline: Liberation from Mechanical Ventilation in Critically Ill Adults. Rehabilitation Protocols, Ventilator Liberation Protocols, and Cuff Leak Tests.](https://www.ncbi.nlm.nih.gov/pubmed/27762595) Am J Respir Crit Care Med. 2016 Oct 20.
2. Schmidt GA, Girard TD, Kress JP, Morris PE, Ouellette DR, Alhazzani W, Burns SM, Epstein SK, Esteban A, Fan E, Ferrer M, Fraser GL, Gong MN, Hough CL, Mehta S, Nanchal R, Patel S, Pawlik AJ, Sessler CN, Strøm T, Schweickert W, Wilson KC, Truwit JD. [Official Executive Summary of an American Thoracic Society/American College of Chest Physicians Clinical Practice Guideline: Liberation from Mechanical Ventilation in Critically Ill Adults.](https://www.ncbi.nlm.nih.gov/pubmed/27762608) Am J Respir Crit Care Med. 2016 Oct 20.

# Early Mobilization/Physiotherapy & Occupational Therapy

## Research Studies

1. Affleck AT, Lieberman S, Polon J, Rohrkemper K. [Providing occupational therapy in an intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/3717268) Am J Occup Ther. 1986 May;40(5):323-32. PubMed PMID: 3717268
2. Blair SN, Kohl HW 3rd, Paffenbarger RS Jr, Clark DG, Cooper KH, Gibbons LW. [Physical fitness and all-cause mortality A prospective study of healthy men and women.](http://www.ncbi.nlm.nih.gov/pubmed/2795824) JAMA. 1989 Nov 3;262(17):2395-401
3. Ferrando AA, Lane HW, Stuart CA, Davis-Street J, Wolfe RR. [Prolonged bed rest decreases skeletal muscle and whole body protein synthesis.](http://www.ncbi.nlm.nih.gov/pubmed/8928769) Am J Physiol. 1996 Apr;270(4 Pt 1):E627-33
4. Zifko UA. [Long-term outcome of critical illness polyneuropathy.](http://www.ncbi.nlm.nih.gov/pubmed/11135284) Muscle Nerve Suppl. 2000;9:S49-52
5. Chang AT, Boots RJ, Hodges PW, Thomas PJ, Paratz JD (2004): [Standing with the assistance of a tilt table improves minute ventilation in chronic critically ill patients](http://www.ncbi.nlm.nih.gov/pubmed/15605335). Arch Phys Med Rehabil. 2004 Dec;85(12):1972-6.
6. Zafiropoulos B, Alison JA, McCarren B: [Physiological responses to the early mobilisation of the intubated, ventilated abdominal surgery patient](http://www.ncbi.nlm.nih.gov/pubmed/15151493). Aust J Physiother 2004;50(2):95-100 [free full text](http://ajp.physiotherapy.asn.au/AJP/50-2/AustJPhysiotherv50i2Zafiropoulos.pdf)
7. Stiller K, Phillips AC, Lambert P. [The safety of mobilisation and its effect on haemodynamic and respiratory status of intensive care patients](http://informahealthcare.com/doi/abs/10.1080/09593980490487474). Physiotherapy Theory and Practice, 2004 20: 175-185
8. Perme CS, Southard RE, Joyce DL, Noon GP, Loebe M: [Early mobilization of LVAD recipients who require prolonged mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/16878612). Tex Heart Inst J. 2006;33(2):130-3. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1524705/?tool=pubmed)
9. Dieperink W, Goorhuis JF, de Weerd W, Hazenberg A, Zijlstra JG, Nijsten MW. (2006): [Walking with continuous positive airway pressure](http://www.ncbi.nlm.nih.gov/pubmed/16585093). Eur Respir J. Apr; 27(4):853-5 [free full text](http://erj.ersjournals.com/content/27/4/853.long)
10. Bailey P, Thomsen GE, Spuhler VJ, Blair R, Jewkes J, Bezdjian L, Veale K, Rodriquez L, Hopkins RO: [Early activity is feasible and safe in respiratory failure patients](http://www.ncbi.nlm.nih.gov/pubmed/17133183). Crit Care Med. 2007 Jan;35(1): 139-45
11. Hermans G, Wilmer A, Meersseman W, Milants I, Wouters PJ, Bobbaers H, Bruyninckx F, Van den Berghe G. [Impact of intensive insulin therapy on neuromuscular complications and ventilator dependency in the medical intensive care unit.](http://www.atsjournals.org/doi/abs/10.1164/rccm.200605-665OC?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%3dpubmed#.V6TILPkrKUk) Am J Respir Crit Care Med. 2007 Mar 1;175(5):480-9
12. Schweickert WD, Hall J. [ICU-acquired weakness.](http://www.ncbi.nlm.nih.gov/pubmed/17494803) Chest. 2007 May;131(5):1541-9
13. Winkelman C. [Inactivity and inflammation in the critically ill patient.](http://www.ncbi.nlm.nih.gov/pubmed/17307114) Crit Care Clin. 2007 Jan;23(1):21-34.
14. Hamburg NM, McMackin CJ, Huang AL, Shenouda SM, Widlansky ME, Schulz E, Gokce N, Ruderman NB, Keaney JF Jr, Vita JA. [Physical inactivity rapidly induces insulin resistance and microvascular dysfunction in healthy volunteers.](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2596308/?tool=myncbi) Arterioscler Thromb Vasc Biol. 2007 Dec;27(12):2650-6
15. Morris PE, Goad A, Thompson C, Taylor K, Harry B, Passmore L, Ross A, Anderson L, Baker S, Sanchez M, Penley L, Howard A, Dixon L, Leach S, Small R, Hite RD, Haponik E.: [Early intensive care unit mobility therapy in the treatment of acute respiratory failure](http://www.ncbi.nlm.nih.gov/pubmed/18596631). Crit Care Med. 2008 Aug;36(8):2238-43.
16. McWilliams DJ, Pantelides KP.: Does physiotherapy led early mobilisation affect length of stay on ICU? ACPRC Journal 2008 40, 5-11
17. Fink H, Helming M, Unterbuchner C, Lenz A, Neff F, Martyn JA, Blobner M. [Systemic inflammatory response syndrome increases immobility-induced neuromuscular weakness.](http://www.ncbi.nlm.nih.gov/pubmed/18431280) Crit Care Med. 2008 Mar;36(3):910-6
18. Fan E, Needham DM. The science of quality improvement. JAMA. 2008 Jul 23;300(4):390-1
19. Pronovost PJ, Berenholtz SM, Goeschel C, Thom I, Watson SR, Holzmueller CG, Lyon JS, Lubomski LH, Thompson DA, Needham D, Hyzy R, Welsh R, Roth G, Bander J, Morlock L, Sexton JB[. Improving patient safety in intensive care units in Michigan.](http://www.ncbi.nlm.nih.gov/pubmed/18538214) J Crit Care. 2008 Jun;23(2):207-21
20. Pronovost PJ, Berenholtz SM, Needham DM. [Translating evidence into practice: a model for large scale knowledge translation.](http://www.ncbi.nlm.nih.gov/pubmed/18838424) BMJ. 2008 Oct 6;337:a1714
21. Perme C, Chandrashekar R. Managing the patient on Mechanical Ventilation in ICU:  Early Mobility and Walking Program. Acute Care Perspectives. Spring 2008, Vol 17, Number 1, 10-15. [free text](http://www.thefreelibrary.com/Managing+the+patient+on+mechanical+ventilation+in+ICU%3A+early+mobility...-a0200343140)
22. Thomsen GE, Snow GL, Rodriguez L, Hopkins RO: [Patients with respiratory failure increase ambulation after transfer to an intensive care unit where early activity is a priority](http://www.ncbi.nlm.nih.gov/pubmed/18379236). Crit Care Med Vol. 2008 36, No. 4: 1119-24
23. Dean E. Mobilizing patients in the ICU: Evidence and Principles of Practice. Acute Care Perspectives. Spring 2008, Vol 17, Number 1, 1-9. [free text](http://www.thefreelibrary.com/Mobilizing+patients+in+the+ICU%3A+evidence+and+principles+of+practice.-a0200343138)
24. Brown CJ, Redden DT, Flood KL, Allman RM. [The underrecognized epidemic of low mobility during hospitalization of older adults.](http://www.ncbi.nlm.nih.gov/pubmed/19682121) J Am Geriatr Soc. 2009 Sep;57(9):1660-5
25. Flanders SA, Harrington L, Fowler RJ. [Falls and patient mobility in critical care: keeping patients and staff safe.](http://www.ncbi.nlm.nih.gov/pubmed/19638748) AACN Adv Crit Care. 2009 Jul-Sep;20(3):267-76
26. Needham, DM, Truong AD, Fan E. [Technology to enhance physical rehabilitation of critically ill patients](http://www.ncbi.nlm.nih.gov/pubmed/20046132). Crit Care Med 2009 Vol. 37, No. 10 (Suppl.) S436-441
27. Fan E, Zanni JM, Dennison CR, Lepre SJ, Needham DM. [Critical illness neuromyopathy and muscle weakness in patients in the intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/19638746) AACN Adv Crit Care. 2009 Jul-Sep;20(3):243-53
28. Schweickert et al.: [Early physical and occupational therapy in mechanically ventilated, critically ill patients: a randomised controlled trial](http://www.ncbi.nlm.nih.gov/pubmed/19446324). Lancet. 2009 May 30;373(9678):1874-82
29. Perme C, Chandrashekar R: [Early mobility and walking program for patients in intensive care units: creating a standard of care](http://www.ncbi.nlm.nih.gov/pubmed/19234100). American Journal of Critical Care 2009 May;18(3):212-21. [free full text](http://ajcc.aacnjournals.org/content/18/3/212.long)
30. Needham DM, Korupolu R, Zanni JM, Pradhan P, Colantuoni E, Palmer JB, Brower RG, Fan E, (2010). [Early Physical Medicine and Rehabilitation for Patients With Acute Respiratory Failure: A Quality Improvement Project](http://www.ncbi.nlm.nih.gov/pubmed/20382284). Arch Phys Med Rehabil Vol 91, 536-542
31. Needham DM, Korupulou R. [Rehabilitation Quality Improvement in an Intensive Care Unit Setting: Implementation of a Quality Improvement Model](http://www.ncbi.nlm.nih.gov/pubmed/20826415). Top Stroke Rehabil 2010;17(4): 271–281
32. Korupolu R, Zanni JM, Fan E, Butler M, Needham DM. [Early mobilisation of intensive care unit patient: the challenges of morbid obesity and multiorgan failure](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3027523/?tool=myncbi). BMJ Case Rep. 2010
33. Bourdin G Jack Barbier J, Burle J-F, Durante G, Passant, Vincent SB, Badet M, Bayle F, Richard JC and Claude Guerin C. [The Feasibility of Early Physical Activity in Intensive Care Unit Patients: A Prospective Observational One-Center Study](http://www.ncbi.nlm.nih.gov/pubmed/20406506). Respir Care 2010;55(4):400– 407 [free full text](http://www.rcjournal.com/contents/04.10/04.10.0400.pdf)
34. Hinton MV[. Establishing a Safe Patient Handling/Minimal Lift Program.](http://www.ncbi.nlm.nih.gov/pubmed/20856086) Orthop Nurs. 2010 Sep-Oct;29(5):325-30
35. Zanni JM, Korupolu R, Fan E, et al. [Rehabilitation therapy and outcomes in acute respiratory failure: An observational pilot project](http://www.ncbi.nlm.nih.gov/pubmed/19942399). J Crit Care 2010 Jun;25(2):254-62.
36. Pohlman MC, Schweickert WD, Pohlman AS, Nigos C, Pawlik AJ, Esbrook CL, Spears L, Miller M, Franczyk M, Deprizio D, Schmidt GA, Bowman A, Barr R, McCallister K, Hall JB, Kress JP. [Feasibility of physical and occupational therapy beginning from initiation of mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/20711065). Crit Care Med. 2010 Nov;38(11):2089-94.
37. Arnold M, Radawiec S, Campo M, Wright LR. [Changes in functional independence measure ratings associated with a safe patient handling and movement program](http://www.ncbi.nlm.nih.gov/pubmed/21721394). Rehabil Nurs. 2011 Jul-Aug;36(4):138-44. PubMed PMID: 21721394
38. Clini EM, Crisafulli E, Antoni FD, Beneventi C, Trianni L, Costi S, Fabbri LM, Nava S. [Functional recovery following physical training in tracheotomized and chronically ventilated patients.](http://www.ncbi.nlm.nih.gov/pubmed/21235844) Respir Care. 2011 Mar;56(3):306-13
39. Morris PE, Griffin L, Berry M, Thompson C, Hite RD, Winkelman C, Hopkins RO, Ross A, Dixon L, Leach S, Haponik E. [Receiving early mobility during an intensive care unit admission is a predictor of improved outcomes in acute respiratory failure.](http://www.ncbi.nlm.nih.gov/pubmed/21358312) Am J Med Sci. 2011 May;341(5):373-7.
40. Martin AD, Smith BK, Davenport PD, Harman E, Gonzalez-Rothi RJ, Baz M, Layon AJ, Banner MJ, Caruso LJ, Deoghare H, Huang TT, Gabrielli A. [Inspiratory muscle strength training improves weaning outcome in failure to wean patients: a randomized trial](http://ccforum.com/content/15/2/R84). Critical Care 2011, 15:R84
41. Hodgin KE, Nordon-Craft A, MCFann KK, Mealer ML, Moss M. [Physical therapy utilization in intensive care units: Results from a national survey](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2908523). Critical Care Medicine 2009 Feb;37(2):561-6
42. Perme C, Lettvin C, Throckmorton TA, Mitchell K, Masud F. Early Mobility and Walking for Patients with Femoral Arterial Catheters in Intensive Care Unit: a Case Series. J. Acute Care Phys Ther; Spring 2011, Vol 2 , Number 1:30-34
43. Tzanis G, Vasileiadis I, Zervakis D, Karatzanos E, Dimopoulos S, Pitsolis T, Tripodaki E, Gerovasili V, Routsi C, Nanas S. [Maximum inspiratory pressure, a surrogate parameter for the assessment of ICU-acquired weakness.](http://www.ncbi.nlm.nih.gov/pubmed/21703029) BMC Anesthesiol. 2011 Jun 26;11:14.
44. Benington S, McWilliams D, Eddleston J, Atkinson D. [Exercise testing in survivors of intensive care--is there a role for cardiopulmonary exercise testing?](http://www.ncbi.nlm.nih.gov/pubmed/21958985) J Crit Care. 2012 Feb;27(1):89-94
45. Bierbrauer J, Koch S, Olbricht C, Hamati J, Lodka D, Schneider J, Luther-Schröder A, Kleber C, Faust K, Wiesener S, Spies CD, Spranger J, Spuler S, Fielitz J, Weber-Carstens S. [Early type II fiber atrophy in intensive care unit patients with nonexcitable muscle membrane.](http://www.ncbi.nlm.nih.gov/pubmed/21963579) Crit Care Med. 2012 Feb;40(2):647-50.
46. Leditschke IA, Green M, Irvine J, Bissett B, Mitchell IA. [What are the Barriers to Mobilizing Intensive Care Patients?](http://www.cpptjournal.org/pdfs/members/fulltext/2012/march/Mobilizing_Intensive.pdf) Cardiopulmonary Physical Therapy Journal 2012, 23 (1): 26-29.
47. Lowman JD, Kirk TK, Clark DE. [Physical Therapy Management of a Patient on Portable Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplation: A Case Report](http://www.cpptjournal.org/pdfs/members/fulltext/2012/march/Physical_Therapy_Management.pdf). Cardiopulmonary Physical Therapy Journal 2012, 23 (1): 30-35.
48. Winkelman C, Johnson KD, Hejal R, Gordon NH, Rowbottom J, Daly J, Peereboom K, Levine AD. [Examining the positive effects of exercise in intubated adults in ICU: A prospective repeated measures clinical study.](http://www.ncbi.nlm.nih.gov/pubmed/22458998) Intensive Crit Care Nurs. 2012 Mar 27
49. Kamdar BB, Needham DM, Collop NA. [Sleep deprivation in critical illness: its role in physical and psychological recovery.](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3299928/?tool=myncbi) J Intensive Care Med. 2012 Mar-Apr;27(2):97-111
50. Baldwin CE, Paratz JD, Bersten AD. [Body composition analysis in critically ill survivors: a comparison of bioelectrical impedance spectroscopy devices.](http://www.ncbi.nlm.nih.gov/pubmed/22318964) JPEN J Parenter Enteral Nutr. 2012 May;36(3):306-15
51. Balas MC, Rice M, Chaperon C, Smith H, Disbot M, Fuchs B. [Management of delirium in critically ill older adults.](http://www.ncbi.nlm.nih.gov/pubmed/22855075) Crit Care Nurse. 2012 Aug;32(4):15-26. PubMed PMID: 22855075
52. Ohtake PJ, Strasser DC, Needham DM. [Rehabilitation for people with critical illness: taking the next steps.](http://www.ncbi.nlm.nih.gov/pubmed/23204510) Phys Ther. 2012 Dec;92(12):1484-8
53. Campo M, Shiyko MP, Margulis H, Darragh AR. [Effect of a safe patient handling program on rehabilitation outcomes.](http://www.ncbi.nlm.nih.gov/pubmed/22960275) Arch Phys Med Rehabil. 2013 Jan;94(1):17-22
54. Puthucheary ZA, Rawal J, McPhail M, Connolly B, Ratnayake G, Chan P, Hopkinson NS, Phadke R, Dew T, Sidhu PS, Velloso C, Seymour J, Agley CC, Selby A, Limb M, Edwards LM, Smith K, Rowlerson A, Rennie MJ, Moxham J, Harridge SD, Hart N, Montgomery HE. [Acute skeletal muscle wasting in critical illness.](http://www.ncbi.nlm.nih.gov/pubmed/24108501) JAMA. 2013 Oct 16;310(15):1591-600
55. Rahimi RA, Skrzat J, Reddy DRS, Zanni JM, Fan E, Stephens RS, Needham DM.   [Physical Rehabilitation of Intensive Care Patients Requiring Extracorporeal Membrane Oxygenation: A Small Case Series](http://www.ncbi.nlm.nih.gov/pubmed/23104895).  Physical Therapy 2013 Feb;93(2):248-55.2013 Feb;93(2):248-55
56. Kamdar BB, King LM, Collop NA, Sakamuri S, Colantuoni E, Neufeld KJ, Bienvenu OJ, Rowden AM, Touradji P, Brower RG, Needham DM.  [The effect of a quality improvement intervention on perceived sleep quality and cognition in a medical ICU](http://www.ncbi.nlm.nih.gov/pubmed/23314584).  Critical Care Medicine 2013 Mar;41(3):800-9
57. Damluji A, Zanni JM, Mantheiy E, Colantuoni E, Kho ME, Needham DM. [Safety and feasibility of femoral catheters during physical rehabilitation in the intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/23499419) J Crit Care. 2013 Aug;28(4):535.e9-15
58. Lord RK, Mayhew CR, Korupolu R, Mantheiy EC, Friedman MA, Palmer JB, Needham DM. [ICU early physical rehabilitation programs: financial modeling of cost savings](http://www.ncbi.nlm.nih.gov/pubmed/23318489). Critical Care Medicine 2013 Mar;41(3):717-24.
59. Rahimi RA, Skrzat J, Reddy DRS, Zanni JM, Fan E, Stephens RS, Needham DM.   [Physical Rehabilitation of Intensive Care Patients Requiring Extracorporeal Membrane Oxygenation: A Small Case Series](http://www.ncbi.nlm.nih.gov/pubmed/23104895).  Physical Therapy 2013; In press.
60. APTA. The Role of Physical Therapy in Safe Patient Handling. 2012; DOI: <http://www.apta.org/uploadedFiles/APTAorg/About_Us/Policies/Practice/SafePatientHandling.pdf>.
61. Titsworth WL, Hester J, Correia T, Reed R, Guin P, Archibald L, Layon AJ, Mocco J. [The effect of increased mobility on morbidity in the neurointensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/22462507) J Neurosurg. 2012 Jun;116(6):1379-88.
62. Hopkins RO, Miller RR 3rd, Rodriguez L, Spuhler V, Thomsen GE. [Physical Therapy on the Wards After Early Physical Activity and Mobility in the Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/22491481) Phys Ther. 2012; 92: 1518-1523.
63. Talley CL, Wonnacott RO, Schuette JK, Jamieson J, Heung M. [Extending the benefits of early mobility to critically ill patients undergoing continuous renal replacement therapy: the Michigan experience.](http://www.ncbi.nlm.nih.gov/pubmed/23221445) Crit Care Nurs Q. 2013 Jan-Mar;36(1):89-100
64. Dinglas, V. D., Colantuoni, E., Ciesla, N., Mendez-Tellez, P. A., Shanholtz, C., & Needham, D. M. (2013). [Brief Report— Occupational therapy for patients with acute lung injury: Factors associated with time to first intervention in the intensive care unit.](http://dx.doi.org/10.5014/ajot.2013.007807) American Journal of Occupational Therapy, 67, 355–362.
65. Perme C, Nalty T, Winkelman C, Kenji Nawa R, Masud F. [Safety and Efficacy of Mobility Interventions in Patients with Femoral Catheters in the ICU: A Prospective Observational Study](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3691704/). Cardiopulm Phys Ther J. 2013 Jun;24(2):12-7.
66. Batt J, dos Santos CC, Cameron JI, Herridge MS. [Intensive care unit-acquired weakness: clinical phenotypes and molecular mechanisms.](http://www.ncbi.nlm.nih.gov/pubmed/23204256) Am J Respir Crit Care Med. 2013 Feb 1;187(3):238-46
67. Choong K, Koo KK, Clark H, Chu R, Thabane L, Burns KE, Cook DJ, Herridge MS, Meade MO. [Early Mobilization in Critically Ill Children: A Survey of Canadian Practice](http://www.ncbi.nlm.nih.gov/pubmed/23507722). Crit Care Med. 2013 Jul;41(7):1745-1753.
68. Engel HJ, Tatebe S, Alonzo PB, Mustille RL, Rivera MJ. [Physical therapist-established intensive care unit early mobilization program: quality improvement project for critical care at the university of california san francisco medical center](http://www.ncbi.nlm.nih.gov/pubmed/23559525). Phys Ther. 2013 Jul;93(7):975-85.
69. Castro AA, Calil SR, Freitas SA, Oliveira AB, Porto EF. [Chest physiotherapy effectiveness to reduce hospitalization and mechanical ventilation length of stay, pulmonary infection rate and mortality in ICU patients](http://www.ncbi.nlm.nih.gov/pubmed/23085215). Respir Med. 2013 Jan;107(1):68-74.
70. Davis J, Crawford K, Wierman H, Osgood W, Cavanaugh J, Smith KA, Mette S, Orff S. [Mobilization of Ventilated Older Adults](http://www.ncbi.nlm.nih.gov/pubmed/23478395). J Geriatr Phys Ther. 2013 Mar 8.
71. Bloch SA, Lee JY, Wort SJ, Polkey MI, Kemp PR, Griffiths MJ. [Sustained elevation of circulating growth and differentiation factor-15 and a dynamic imbalance in mediators of muscle homeostasis are associated with the development of acute muscle wasting following cardiac surgery](http://www.ncbi.nlm.nih.gov/pubmed/23328263). Crit Care Med. 2013 Apr;41(4):982-9
72. Sossdorf M, Otto GP, Menge K, Claus RA, Lösche W, Kabisch B, Kohl M, Smolenski UC, Schlattmann P, Reinhart K, Winning J. [Potential effect of physiotherapeutic treatment on mortality rate in patients with severe sepsis and septic shock: A retrospective cohort analysis](http://www.ncbi.nlm.nih.gov/pubmed/23958242). J Crit Care. 2013 28(6):954-8.
73. Peiris CL, Shields N, Brusco NK, Watts JJ, Taylor NF.: [Additional Saturday rehabilitation improves functional independence and quality of life and reduces length of stay: a randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/24228854) BMC Medicine 2013 11:198.
74. Parker AM, Lord RK, Needham DM. [Increasing the dose of acute rehabilitation: is there a benefit?](http://www.ncbi.nlm.nih.gov/pubmed/24228867) BMC Medicine 2013, 11:199
75. Balas MC, Burke WJ, Gannon D, Cohen MZ, Colbrun L, Bevil C, Franz D, Olsen KM, Ely WE: [Implementing the Awakening and Breathing Coordination, Delirium Monitoring/Management, and Early Exercise/Mobility Bundle into Everyday Care: Opportunities, Challenges, and Lessons Learned for Implementing the ICU Pain, Agitation, and Delirium Guidelines](http://www.ncbi.nlm.nih.gov/pubmed/23989089). Critical Care Medicine 2013, 41 (9): S116-127.
76. Hanekom S, Louw QA, Coetzee AR. [Implementation of a protocol facilitates evidence-based physiotherapy practice in intensive care units](http://www.ncbi.nlm.nih.gov/pubmed/23219640). Physiotherapy 99 (2013) 139–145.
77. Hill K, Diane M. Dennis DM, Patman SM. [Relationships between mortality, morbidity, and physical function in adults who survived a period of prolonged mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/23618778). Journal of Critical Care (2013) 28, 427–432
78. Denehy L, Skinner EH, Edbrooke L, Haines K, Warrillow S, Hawthorne G, Gough K, Hoorn SV, Morris ME, Berney S. [Exercise rehabilitation for patients with critical illness: a randomized controlled trial with 12 months of follow-up.](http://www.ncbi.nlm.nih.gov/pubmed/23883525) Crit Care. 2013 Jul 24;17(4):R156.
79. Mendez-Tellez PA, Dinglas VD, Colantuoni E, Ciesla N, Sevransky JE, Shanholtz C, Pronovost PJ, Needham DM. [Factors associated with timing of initiation of physical therapy in patients with acute lung injury.](http://www.ncbi.nlm.nih.gov/pubmed/23845792) J Crit Care. 2013 Dec;28(6):980-4.
80. Brummel NE, Girard TD, Ely EW, Pandharipande PP, Morandi A, Hughes CG, Graves AJ, Shintani A, Murphy E, Work B, Pun BT, Boehm L, Gill TM, Dittus RS, Jackson JC. [Feasibility and safety of early combined cognitive and physical therapy for critically ill medical and surgical patients: the Activity and Cognitive Therapy in ICU (ACT-ICU) trial](http://www.ncbi.nlm.nih.gov/pubmed/24257969). Intensive Care Med. 2013 Nov 21. [Epub ahead of print]
81. Hodgson C, Needham D, Haines K, Bailey M, Ward A, Harrold M, Young P, Zanni J, Buhr H, Higgins A, Presneill J, Berney S. [Feasibility and inter-rater reliability of the ICU Mobility Scale.](http://www.ncbi.nlm.nih.gov/pubmed/24373338) Heart Lung. 2014 Jan-Feb;43(1):19-24.
82. Balas MC, Vasilevskis EE, Olsen KM, Schmid KK, Shostrom V, Cohen MZ, Peitz G, Gannon DE, Sisson J, Sullivan J, Stothert JC, Lazure J, Nuss SL, Jawa RS, Freihaut F, Ely EW, Burke WJ. [Effectiveness and safety of the awakening and breathing coordination, delirium monitoring/management, and early exercise/mobility bundle.](http://www.ncbi.nlm.nih.gov/pubmed/24394627) Crit Care Med. 2014 May;42(5):1024-36.
83. Needham DM, Wozniak AW, Hough CL, Morris PE, Dinglas VD, Jackson JC, Mendez-Tellez PA, Shanholtz C, Ely EW, Colantuoni E, Hopkins RO, National Institutes of Health NHLBI ARDS Network. [Risk factors for physical impairment after acute lung injury in a national, multicenter study.](http://www.ncbi.nlm.nih.gov/pubmed/24716641) Am J Respir Crit Care Med. 2014 May 15;189(10):1214-24
84. Nawa RK, Lettvin C, Winkelman C, Evora PRB, Perme C. [Initial inter-rater reliability for a novel measure of patient mobility in a Cardiovascular ICU](http://www.jccjournal.org/article/S0883-9441%2814%2900047-1/abstract). Journal of critical care 3 February 2014 (Article in Press DOI: 10.1016/j.jcrc.2014.01.019)
85. Sricharoenchai T, Parker AM, Zanni JM, Nelliot A, Dinglas VD, Needham DM. [Safety of physical therapy interventions in critically ill patients: a single-center prospective evaluation of 1110 intensive care unit admissions](http://www.ncbi.nlm.nih.gov/pubmed/24508202). J Crit Care. 2014 Jun;29(3):395-400.
86. Abrams et al. (2014). [Early mobilization of patients receiving extracorporeal membrane oxygenation: a retrospective cohort study](http://www.ncbi.nlm.nih.gov/pubmed/24571627) Critical Care 18:R38.
87. Engel HJ, Needham DM, Morris PE, Gropper MA (2013). [ICU Early Mobilization: From Recommendation to Implementation at Three Medical Centers](http://www.ncbi.nlm.nih.gov/pubmed/23989097). Crit Care Med 41:S69-S80
88. Hickmann CE, Roeseler J, Castanares-Zapatero D, Herrera EI, Mongodin A, Laterre PF. [Energy expenditure in the critically ill performing early physical therapy](http://www.ncbi.nlm.nih.gov/pubmed/24477456). Intensive Care Med. 2014 Apr;40(4):548-55.
89. Haines KJ, Skinner EH, Berney S; Austin Health POST Study Investigators (2013). [Association of postoperative pulmonary complications with delayed mobilisation following major abdominal surgery: an observational cohort study](http://www.ncbi.nlm.nih.gov/pubmed/23219632). Physiotherapy 99(2):119-25.
90. Nydahl P, Ruhl AP, Bartoszek G, Dubb R, Filipovic S, Flohr HJ, Kaltwasser A, Mende H, Rothaug O, Schuchhardt D, Schwabbauer N, Needham DM. [Early mobilization of mechanically ventilated patients: a 1-day point-prevalence study in Germany](http://www.ncbi.nlm.nih.gov/pubmed/24351373). Crit Care Med. 2014 May;42(5):1178-86.
91. Berney SC, Harrold M, Webb SA, Seppelt I, Patman S, Thomas PJ, Denehy L. [Intensive care unit mobility practices in Australia and New Zealand: a point prevalence study](http://www.ncbi.nlm.nih.gov/pubmed/24289506). Crit Care Resusc. 2013 Dec;15(4):260-5
92. Abrams D, Javidfar J, Farrand E, Mongero LB, Agerstrand CL, Ryan P, Zemmel D, Galuskin K, Morrone TM, Boerem P, Bacchetta M, Brodie D. [Early mobilization of patients receiving extracorporeal membrane oxygenation: a retrospective cohort study](http://www.ncbi.nlm.nih.gov/pubmed/24571627). Crit Care. 2014 Feb 27;18(1):R38.
93. Hickmann CE, Roeseler J, Castanares-Zapatero D, Herrera EI, Mongodin A, Laterre PF. [Energy expenditure in the critically ill performing early physical therapy](http://www.ncbi.nlm.nih.gov/pubmed/24477456). Intensive Care Med. 2014 Apr;40(4):548-55.
94. Girbes ARJ, Elbers PWG. [Speech in an Orally Intubated Patient](http://www.nejm.org/doi/full/10.1056/NEJMc1313379?query=TOC). N Engl J Med 2014; 370:1172-1173
95. Sprenkle, Kamille J.; Pechulis, Michael. [Early Mobility of Patients Poststroke in the Neuroscience Intensive Care Unit](http://journals.lww.com/jacpt/Fulltext/2013/04030/Early_Mobility_of_Patients_Poststroke_in_the.3.aspx). Journal of Acute Care Physical Therapy, 2013 4 (3): 101-109.
96. Nawa RK, Lettvin C, Winkelman C, Evora PR, Perme C. [Initial interrater reliability for a novel measure of patient mobility in a cardiovascular intensive care unit](http://www.ncbi.nlm.nih.gov/pubme). J Crit Care. 2014 Jun;29(3):475.e1-5.
97. Clemmer TP. [Why the reluctance to meaningfully mobilize ventilated patients? "The answer my friend is blowin' in the wind](http://www.ncbi.nlm.nih.gov/pubmed/24736350)". Crit Care Med. 2014 May;42(5):1308-9.
98. Doherty-King B, Bowers BJ. [Attributing the responsibility for ambulating patients: a qualitative study](http://www.ncbi.nlm.nih.gov/pubmed/23465958). Int J Nurs Stud. 2013 Sep;50(9):1240-6.
99. Jackson JC, Santoro MJ, Ely TM, Boehm L, Kiehl AL, Anderson LS, Ely EW. [Improving patient care through the prism of psychology: application of Maslow's hierarchy to sedation, delirium, and early mobility in the intensive care unit](http://www.ncbi.nlm.nih.gov/pubmed/24636724). J Crit Care. 2014 Jun;29(3):438-44.
100. Burry LD1, Williamson DR, Perreault MM, Rose L, Cook DJ, Ferguson ND, Lapinsky SC, Mehta S. [Analgesic, sedative, antipsychotic, and neuromuscular blocker use in Canadian intensive care units: a prospective, multicentre, observational study](http://www.ncbi.nlm.nih.gov/pubmed/24788564). Can J Anaesth. 2014 Jul;61(7):619-30.
101. Greening NJ, Williams JE, Hussain SF, Harvey-Dunstan TC, Bankart MJ, Chaplin EJ, Vincent EE, Chimera R, Morgan MD, Singh SJ, Steiner MC. [An early rehabilitation intervention to enhance recovery during hospital admission for an exacerbation of chronic respiratory disease: randomised controlled trial](http://www.ncbi.nlm.nih.gov/pubmed/25004917). BMJ. 2014 Jul 8;349:g4315.
102. Batterham AM, Bonner S, Wright J, Howell SJ, Hugill K, Danjoux G. [Effect of supervised aerobic exercise rehabilitation on physical fitness and quality-of-life in survivors of critical illness: an exploratory minimized controlled trial (PIX study)](http://www.ncbi.nlm.nih.gov/pubmed/24607602). Br J Anaesth. 2014 Jul;113(1):130-7.
103. Brownback CA, Fletcher P, Pierce LN, Klaus S. [Early mobility activities during continuous renal replacement therapy](http://www.ncbi.nlm.nih.gov/pubmed/24986178). Am J Crit Care. 2014 Jul;23(4):348-51
104. Zebuhr C, Sinha A, Skillman H, Buckvold S. [Active rehabilitation in a pediatric extracorporeal membrane oxygenation patient.](http://www.ncbi.nlm.nih.gov/pubmed/24462619) PM R. 2014 May;6(5):456-60.
105. Hoyer EH, Brotman DJ, Chan K, Needham DM. [Barriers to Early Mobility of Hospitalized General Medicine Patients: Survey Development and Results](http://www.ncbi.nlm.nih.gov/pubmed/25133615). Am J Phys Med Rehabil. 2014 Aug 15.
106. Wang YT, Haines TP, Ritchie P, Walker C, Ansell TA, Ryan DT, Lim PS, Vij S, Acs R, Fealy N, Skinner EH. [Early mobilization on continuous renal replacement therapy is safe and may improve filter life](http://www.ncbi.nlm.nih.gov/pubmed/25069952). Crit Care. 2014 Jul 28;18(4):R161.
107. Rose L, Fowler RA, Fan E, Fraser I, Leasa D, Mawdsley C, Pedersen C, Rubenfeld G; the CANuVENT group. [Prolonged mechanical ventilation in Canadian intensive care units: A national survey](http://www.ncbi.nlm.nih.gov/pubmed/25201807). J Crit Care. 2014 Jul 31. pii: S0883-9441(14)00312-8.
108. Rajesh Chawla, Sheila Nainan Myatra, Nagarajan Ramakrishnan, Subhash Todi, Sudha Kansal, and Sananta Kumar Dash [Current practices of mobilization, analgesia, relaxants and sedation in Indian ICUs: A survey conducted by the Indian Society of Critical Care Medicine](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4166873/) Indian J Crit Care Med. Sep 2014; 18(9): 575–584.
109. Pruijsten R, van Thiel R, Hool S, Saeijs M, Verbiest M, Reis Miranda D. [Mobilization of patients on venovenous extracorporeal membrane oxygenation support using an ECMO helmet](http://www.ncbi.nlm.nih.gov/pubmed/25112500). Intensive Care Med. 2014 Oct;40(10):1595-7.
110. Patel BK, Pohlman AS, Hall JB, Kress JP. [Impact of early mobilization on glycemic control and ICU-acquired weakness in critically ill patients who are mechanically ventilated](http://www.ncbi.nlm.nih.gov/pubmed/25180722). Chest. 2014 Sep;146(3):583-9.
111. Dinglas VD, Parker AM, Reddy DR, Colantuoni E, Zanni JM, Turnbull AE, Nelliot A, Ciesla N, Needham DM. [A quality improvement project sustainably decreased time to onset of active physical therapy intervention in patients with acute lung injury](http://www.ncbi.nlm.n). Ann Am Thorac Soc. 2014 Oct;11(8):1230-8.
112. Manzano F, Colmenero M, Pérez-Pérez AM, Roldán D, Jiménez-Quintana Mdel M, Mañas MR, Sánchez-Moya MA, Guerrero C, Moral-Marfil MA, Sánchez-Cantalejo E, Fernández-Mondéjar E. [Comparison of two repositioning schedules for the prevention of pressure ulcers in patients on mechanical ventilation with alternating pressure air mattresses](http://www.ncbi.nlm.nih.gov/pubmed/25189288). Intensive Care Med. 2014 Nov;40(11):1679-87.
113. Jolley SE, Caldwell E, Hough CL. F[actors associated with receipt of physical therapy consultation in patients requiring prolonged mechanical ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/24704742) Dimens Crit Care Nurs. 2014 May-Jun;33(3):160-7.
114. McWilliams D, Weblin J, Atkins G, Bion J, Williams J, Elliott C, Whitehouse T, Snelson C. [Enhancing rehabilitation of mechanically ventilated patients in the intensive care unit: A quality improvement project](http://www.ncbi.nlm.nih.gov/pubmed/25316527). J Crit Care. 2014 Oct 2. pii: S0883-9441(14)00401-8.
115. Momosaki R, Yasunaga H, Matsui H, Horiguchi H, Fushimi K, Abo M. [Effect of Early Rehabilitation by Physical Therapists on In-hospital Mortality after Aspiration Pneumonia in the Elderly](http://www.ncbi.nlm.nih.gov/pubmed/25301440). Arch Phys Med Rehabil. 2014 Oct 6.
116. Brusco NK, Watts JJ, Shields N, Taylor NF[. Are weekend inpatient rehabilitation services value for money? An economic evaluation alongside a randomized controlled trial with a 30 day follow up.](http://www.ncbi.nlm.nih.gov/pubmed/24885811) BMC Med. 2014 May 29;12:89
117. Roberts M, Johnson LA, Lalonde TL. [Early mobility in the intensive care unit: Standard equipment vs a mobility platform.](http://www.ncbi.nlm.nih.gov/pubmed/25362668) Am J Crit **Care**. 2014 Nov;23(6):451-7.
118. Sneyers B, Laterre PF, Perreault MM, Wouters D, Spinewine A. [Current practices and barriers impairing physicians¿ and nurses¿ adherence to analgo-sedation recommendations in the intensive care unit - a national survey.](http://www.ncbi.nlm.nih.gov/pubmed/25475212) Crit Care. 2014 Dec 5;18(6):655.
119. Brodsky MB, González-Fernández M, Mendez-Tellez PA, Shanholtz C, Palmer JB, Needham DM. [Factors associated with swallowing assessment after oral endotracheal intubation and mechanical ventilation for acute lung injury.](http://www.ncbi.nlm.nih.gov/pubmed/25387319) Ann Am Thorac Soc. 2014 Nov 11.
120. Klein K, Mulkey M, Bena JF, Albert NM. [Clinical and Psychologic Effects of Early Mobilization in Patients Treated in a Neurologic ICU: A Comparative Study.](http://www.ncbi.nlm.nih.gov/pubmed/25517476) Crit Care Med. 2014 Dec 16.
121. Hanekom S, Van Aswegen H, Plani N, Patman S. [Developing minimum clinical standards for physiotherapy in South African intensive care units: the nominal group technique in action.](http://www.ncbi.nlm.nih.gov/pubmed/25267001) J Eval Clin Pract. 2014 Sep 29. doi: 10.1111/jep.12257.
122. Barber EA, Everard T, Holland AE, Tipping C, Bradley SJ, Hodgson CL. [Barriers and facilitators to early mobilisation in Intensive Care: A qualitative study.](http://www.ncbi.nlm.nih.gov/pubmed/25533868) Aust Crit Care. 2014 Dec 19. pii: S1036-7314(14)00170-2.
123. Tillquist M, Kutsogiannis DJ, Wischmeyer PE, Kummerlen C, Leung R, Stollery D, Karvellas CJ, Preiser JC, Bird N, Kozar R, Heyland DK. [Bedside ultrasound is a practical and reliable measurement tool for assessing quadriceps muscle layer thickness.](http://www.ncbi.nlm.nih.gov/pubmed/23980134) JPEN J Parenter Enteral Nutr. 2014 Sep;38(7):886-90
124. Jolley SE, Dale CR, Hough CL. [Hospital-Level Factors Associated with Report of Physical Activity in Patients on Mechanical Ventilation across Washington State.](http://www.ncbi.nlm.nih.gov/pubmed/25565021) Ann Am Thorac Soc. 2015 Jan 7
125. Collings N, Cusack R. [A repeated measures, randomised cross-over trial, comparing the acute exercise response between passive and active sitting in critically ill patients.](http://www.ncbi.nlm.nih.gov/pubmed/25670916) BMC Anesthesiol. 2015 Jan 13;15(1):1.
126. Toccolini BF, Osaku EF, de Macedo Costa CR, Teixeira SN, Costa NL, Cândia MF, Leite MA, de Albuquerque CE, Jorge AC, Duarte PA. [Passive orthostatism (tilt table) in critical patients: Clinicophysiologic evaluation.](http://www.ncbi.nlm.nih.gov/pubmed/25622762) J Crit Care. 2015 Jan 6.
127. TEAM Study Investigators. [Early mobilization and recovery in mechanically ventilated patients in the ICU: a bi-national, multi-centre, prospective cohort study.](http://www.ncbi.nlm.nih.gov/pubmed/25715872) Crit Care. 2015 Feb 26;19(1):81.
128. Knott A, Stevenson M, Harlow SKM. Benchmarking rehabilitation practice in the intensive care unit Journal of the Intensive Care Society 2015
129. Sommers J, HH Engelbert RHH, Dettling-Ihnenfeldt D, Gosselink R, Spronk PE, Nollet F, van der Schaaf M. [Physiotherapy in the intensive care unit: an evidence-based, expert driven, practical statement and rehabilitation recommendations.](http://www.ncbi.nlm.nih.gov/pubmed/25681407) Clin Rehabil doi:10.1177/0269215514567156
130. Witcher R, Stoerger L, Dzierba AL, Silverstein A, Rosengart A, Brodie D, Berger K. [Effect of early mobilization on sedation practices in the neurosciences intensive care unit: A preimplementation and postimplementation evaluation.](http://www.ncbi.nlm.nih.gov/pubmed/25573283) J Crit Care. 2015 Apr;30(2):344-7.
131. Sottile PD, Nordon-Craft A, Malone D, Luby D, Schenkman M, Moss M. [Physical Therapist Treatment of Patients in the Neurological Intensive Care Unit: Description of Practice.](http://www.ncbi.nlm.nih.gov/pubmed/25655880) Phys Ther. 2015 Feb 5.
132. Campbell MR, Fisher J, Anderson L, Kreppel E. [Implementation of early exercise and progressive mobility: steps to success.](http://www.ncbi.nlm.nih.gov/pubmed/25639581) Crit Care Nurse. 2015 Feb;35(1):82-8.
133. Parry SM, Granger CL, Berney S, Jones J, Beach L, El-Ansary D, Koopman R, Denehy L. [Assessment of impairment and activity limitations in the critically ill: a systematic review of measurement instruments and their clinimetric properties.](http://www.ncbi.nlm.nih.gov/pubmed/25652888) Intensive Care Med. 2015 Feb 5
134. Parry SM, Berney S, Granger CL, Dunlop DL, Murphy L, El-Ansary D, Koopman R, Denehy L. [A new two-tier strength assessment approach to the diagnosis of weakness in intensive care: an observational study.](http://www.ncbi.nlm.nih.gov/pubmed/25777875) Crit Care. 2015 Dec;19(1):780.
135. Segers J, Hermans G, Charususin N, Fivez T, Vanhorebeek I, Van den Berghe G, Gosselink R. [Assessment of quadriceps muscle mass with ultrasound in critically ill patients: intra- and inter-observer agreement and sensitivity.](http://www.ncbi.nlm.nih.gov/pubmed/25631814) Intensive Care Med. 2015 Mar;41(3):562-3.
136. Cohen S, Nathan JA, Goldberg AL. [Muscle wasting in disease: molecular mechanisms and promising therapies.](http://www.ncbi.nlm.nih.gov/pubmed/25549588) Nat Rev Drug Discov. 2015 Jan;14(1):58-74.
137. Hill NE, Saeed S, Phadke R, Ellis MJ, Chambers D, Wilson DR, Castells J, Morel J, Freysennet DG, Brett SJ, Murphy KG, Singer M. [Detailed characterization of a long-term rodent model of critical illness and recovery.](http://www.ncbi.nlm.nih.gov/pubmed/25700075) Crit Care Med. 2015 Mar;43(3):e84-96
138. Files DC, Liu C, Pereyra A, Wang ZM, Aggarwal NR, D'Alessio FR, Garibaldi BT, Mock JR, Singer BD, Feng X, Yammani RR, Zhang T, Lee AL, Philpott S, Lussier S, Purcell L, Chou J, Seeds M, King LS, Morris PE, Delbono O. [Therapeutic exercise attenuates neutrophilic lung injury and skeletal muscle wasting.](http://www.ncbi.nlm.nih.gov/pubmed/25761888) Sci Transl Med. 2015 Mar 11;7(278):278ra32.
139. Scrivener K, Jones T, Schurr K, Graham PL, Dean CM. [After-hours or weekend rehabilitation improves outcomes and increases physical activity but does not affect length of stay: a systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/25801362) J Physiother. 2015 Apr;61(2):61-7.
140. Berney SC, Rose JW, Bernhardt J, Denehy L. [Prospective observation of physical activity in critically ill patients who were intubated for more than 48 hours.](http://www.ncbi.nlm.nih.gov/pubmed/25813549) J Crit Care. 2015 Mar 13.
141. Cottereau G, Dres M, Avenel A, Fichet J, Jacobs FM, Prat D, Hamzaoui O, Richard C, Antonello M, Sztrymf B. [Handgrip Strength Predicts Difficult Weaning But Not Extubation Failure in Mechanically Ventilated Subjects.](http://www.ncbi.nlm.nih.gov/pubmed/25759461) Respir Care. 2015 Mar 10.
142. Waters A, Hill K, Jenkins S, Johnston C, Mackney J.[Discordance Between Distance Ambulated as Part of Usual Care and Functional Exercise Capacity in Survivors of Critical Illness Upon Intensive Care Discharge: Observational Study.](http://www.ncbi.nlm.nih.gov/pubmed/25838336) Phys Ther. 2015 Apr 2.
143. Kayambu G, Boots R, Paratz J. [Early physical rehabilitation in intensive care patients with sepsis syndromes: a pilot randomised controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/25851383) Intensive Care Med. 2015 May;41(5):865-74.
144. Felten-Barentsz KM, Haans AJ, Slutsky AS, Heunks LM, van der Hoeven JG. [Feasibility and safety of hydrotherapy in critically ill ventilated patients.](http://www.ncbi.nlm.nih.gov/pubmed/25679106) Am J Respir Crit Care Med. 2015 Feb 15;191(4):476-7.
145. Rand ML, Darbinian JA. [Effect of an Evidence-Based Mobility Intervention on the Level of Function in Acute Intracerebral and Subarachnoid Hemorrhagic Stroke Patients on a Neurointensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/25701637) Arch Phys Med Rehabil. 2015 Feb 18.
146. Lehr CJ, Zaas DW, Cheifetz IM, Turner DA. [Ambulatory extracorporeal membrane oxygenation as a bridge to lung transplantation: walking while waiting.](http://www.ncbi.nlm.nih.gov/pubmed/25940249) Chest. 2015 May 1;147(5):1213-8.
147. Arnold SM, Dinkins M, Mooney LH, Freeman WD, Rawal B, Heckman MG, Davis OA. [Very early mobilization in stroke patients treated with intravenous recombinant tissue plasminogen activator.](http://www.ncbi.nlm.nih.gov/pubmed/25869770) J Stroke Cerebrovasc Dis. 2015 Jun;24(6):1168-73.
148. Miller MA, Govindan S, Watson SR, Hyzy RC, Iwashyna TJ. [ABCDE, but in That Order? A Cross-Sectional Survey of Michigan ICU Sedation, Delirium and Early Mobility Practices.](http://www.ncbi.nlm.nih.gov/pubmed/25970737) Ann Am Thorac Soc. 2015 May 13.
149. Thomas K, Wright SE, Watson G, Baker C, Stafford V, Wade C, Chadwick TJ, Mansfield L, Wilkinson J, Shen J, Deverill M, Bonner S, Hugill K, Howard P, Henderson A, Roy A, Furneval J, Baudouin SV. [Extra Physiotherapy in Critical Care (EPICC) Trial Protocol: a randomised controlled trial of intensive versus standard physical rehabilitation therapy in the critically ill.](http://www.ncbi.nlm.nih.gov/pubmed/26009576) BMJ Open. 2015 May 25;5(5):e008035.
150. Jette DU, Stilphen M, Ranganathan VK, Passek S, Frost FS, Jette AM. [Interrater Reliability of AM-PAC "6-Clicks" Basic Mobility and Daily Activity Short Forms.](http://www.ncbi.nlm.nih.gov/pubmed/25504489) Phys Ther. 2015 May;95(5):758-66.
151. Eakin MN, Ugbah L, Arnautovic T, Parker AM, Needham DM. [Implementing and sustaining an early rehabilitation program in a medical intensive care unit: A qualitative analysis.](http://www.ncbi.nlm.nih.gov/pubmed/25837800) J Crit Care. 2015 Aug;30(4):698-704.
152. Pires-Neto RC, Lima NP, Cardim GM, Park M, Denehy L. [Early mobilization practice in a single Brazilian intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/26093803) J Crit Care. 2015 May 19.
153. Poongkunran C, John SG, Kannan AS, Shetty S, Bime C, Parthasarathy S. [A Meta-Analysis Of Sleep-Promoting Interventions During Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/26071825) Am J Med. 2015 Jun 10.
154. Skinner EH. [Early physical rehabilitation may improve physical quality of life domains in patients admitted to ICU with sepsis syndromes.](http://www.ncbi.nlm.nih.gov/pubmed/26031611) J Physiother. 2015 Jul;61(3):158.
155. Lima NP, Silva GM, Park M, Pires-Neto RC. [Mobility therapy and central or peripheral catheter-related adverse events in an ICU in Brazil.](http://www.ncbi.nlm.nih.gov/pubmed/26176520) J Bras Pneumol. 2015 May-Jun;41(3):225-30.
156. Elkins M, Dentice R. [Inspiratory muscle training facilitates weaning from mechanical ventilation among patients in the intensive care unit: a systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/26092389) J Physiother. 2015 Jul;61(3):125-34.
157. Ko Y, Cho YH, Park YH, Lee H, Suh GY, Yang JH, Park CM, Jeon K, Chung CR. [Feasibility and Safety of Early Physical Therapy and Active Mobilization for Patients on Extracorporeal Membrane Oxygenation.](http://www.ncbi.nlm.nih.gov/pubmed/25914950) ASAIO J. 2015 Apr 23.
158. Malone D, Ridgeway K, Nordon-Craft A, Moss P, Schenkman M, Moss M. [Physical Therapist Practice in the Intensive Care Unit: Results of a National Survey.](http://www.ncbi.nlm.nih.gov/pubmed/26045604) Phys Ther. 2015 Jun 4.
159. Choong K, Al-Harbi S, Siu K, Wong K, Cheng J, Baird B, Pogorzelski D, Timmons B, Gorter JW, Thabane L, Khetani M; Canadian Critical Care Trials Group. [Functional recovery following critical illness in children: the "wee-cover" pilot study.](http://www.ncbi.nlm.nih.gov/pubmed/25651047) Pediatr Crit Care Med. 2015 May;16(4):310-8.
160. Owen HC, Vanhees I, Gunst J, Van Cromphaut S, Van den Berghe G. [Critical illness-induced bone loss is related to deficient autophagy and histone hypomethylation.](http://www.ncbi.nlm.nih.gov/pubmed/26215816) Intensive Care Med Exp. 2015 Dec;3(1):52.
161. Heyland DK, Stapleton RD, Mourtzakis M, Hough CL, Morris P, Deutz NE, Colantuoni E, Day A, Prado CM, Needham DM. [Combining nutrition and exercise to optimize survival and recovery from critical illness: Conceptual and methodological issues.](http://www.ncbi.nlm.nih.gov/pubmed/26212171) Clin Nutr. 2015 Jul 16.
162. Owen HC, Vanhees I, Gunst J, Van Cromphaut S, Van den Berghe G. [Critical illness-induced bone loss is related to deficient autophagy and histone hypomethylation.](http://www.ncbi.nlm.nih.gov/pubmed/26215816) Intensive Care Med Exp. 2015 Dec;3(1):52.
163. Kho ME, Martin RA, Toonstra AL, Zanni JM, Mantheiy EC, Nelliot A, Needham DM. [Feasibility and safety of in-bed cycling for physical rehabilitation in the intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/26318234) J Crit Care. 2015 Jul 29.
164. Bain JC, Turner DA, Rehder KJ, Eisenstein EL, Davis RD, Cheifetz IM, Zaas DW. [Economic Outcomes of Extracorporeal Membrane Oxygenation With and Without Ambulation as a Bridge to Lung Transplantation.](http://www.ncbi.nlm.nih.gov/pubmed/26264415) Respir Care. 2015 Aug 11.
165. Garry J, Casey K, Cole TK, Regensburg A, McElroy C, Schneider E, Efron D, Chi A. [A pilot study of eye-tracking devices in intensive care.](http://www.ncbi.nlm.nih.gov/pubmed/26361099) Surgery. 2015 Sep 7.
166. Harrold ME, Salisbury LG, Webb SA, Allison GT; Australia and Scotland ICU Physiotherapy Collaboration. [Early mobilisation in intensive care units in Australia and Scotland: a prospective, observational cohort study examining mobilisation practises and barriers.](http://www.ncbi.nlm.nih.gov/pubmed/26370550) Crit Care. 2015 Sep 14;19:336.
167. Malone D, Ridgeway K, Nordon-Craft A, Moss P, Schenkman M, Moss M. [Physical Therapist Practice in the Intensive Care Unit: Results of a National Survey.](http://www.ncbi.nlm.nih.gov/pubmed/26045604) Phys Ther. 2015 Oct;95(10):1335-44.
168. Skinner EH, Haines KJ, Berney S, Warrillow S, Harrold M, Denehy L. [Usual Care Physiotherapy During Acute Hospitalization in Subjects Admitted to the ICU: An Observational Cohort Study.](http://www.ncbi.nlm.nih.gov/pubmed/26374909) Respir Care. 2015 Oct;60(10):1476-85.
169. Bakhru RN, Wiebe DJ, McWilliams DJ, Spuhler VJ, Schweickert WD. [An Environmental Scan for Early Mobilization Practices in U.S. ICUs.](http://www.ncbi.nlm.nih.gov/pubmed/26308435) Crit Care Med. 2015 Nov;43(11):2360-9.
170. Wieczorek B, Burke C, Al-Harbi A, Kudchadkar SR. [Early mobilization in the pediatric intensive care unit: a systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/26380147) J Pediatr Intensive Care. 2015;2015:129-170.
171. Twose PW, Wise MP, Enright S. [Critical Care Functional Rehabilitation Outcome Measure: developing a validated measure.](http://www.ncbi.nlm.nih.gov/pubmed/26200435) Physiother Theory Pract. 2015 Oct;31(7):474-82.
172. Piva S, Dora G, Minelli C, Michelini M, Turla F, Mazza S, D'Ottavi P, Moreno-Duarte I, Sottini C, Eikermann M, Latronico N. [The Surgical Optimal Mobility Score predicts mortality and length of stay in an Italian population of medical, surgical, and neurologic intensive care unit patients.](http://www.ncbi.nlm.nih.gov/pubmed/26315654) J Crit Care. 2015 Aug 5.
173. Waters A, Hill K, Jenkins S, Johnston C, Mackney J. [Discordance Between Distance Ambulated as Part of Usual Care and Functional Exercise Capacity in Survivors of Critical Illness Upon Intensive Care Discharge: Observational Study.](http://www.ncbi.nlm.nih.gov/pubmed/25838336) Phys Ther. 2015 Sep;95(9):1254-63.
174. Johnson-Warrington V, Mitchell KE, Singh SJ. [Is a Practice Incremental Shuttle Walk Test Needed for Patients with Chronic Obstructive Pulmonary Disease Admitted to Hospital for an Acute Exacerbation?](http://www.ncbi.nlm.nih.gov/pubmed/26406442)Respiration. 2015;90(3):206-10.
175. Bissett B, Green M, Marzano V, Byrne S, Leditschke IA, Neeman T, Boots R, Paratz J. [Reliability and utility of the Acute Care Index of Function in intensive care patients: An observational study.](http://www.ncbi.nlm.nih.gov/pubmed/26542832) Heart Lung. 2015 Nov 2. pii: S0147-9563(15)00235-6.
176. Pandullo SM, Spilman SK, Smith JA, Kingery LK, Pille SM, Rondinelli RD, Sahr SM. [Time for critically ill patients to regain mobility after early mobilization in the intensive care unit and transition to a general inpatient floor.](http://www.ncbi.nlm.nih.gov/pubmed/26346813) J Crit Care. 2015 Dec;30(6):1238-42
177. Moss M, Nordon-Craft A, Malone D, Van Pelt D, Frankel SK, Warner ML, Kriekels W, McNulty M, Fairclough DL, Schenkman M [A Randomized Trial of an Intensive Physical Therapy Program for Acute Respiratory Failure Patients.](http://www.ncbi.nlm.nih.gov/pubmed/26651376) Am J Respir Crit Care Med. 2015 Dec 10
178. Fraser D, Spiva L, Forman W, Hallen C. [Implementation of an Early Mobility Program in an ICU.](http://www.ncbi.nlm.nih.gov/pubmed/26600359) Am J Nurs. 2015 Dec;115(12):49-58
179. Liu V, Herbert D, Foss-Durant A, Marelich GP, Patel A, Whippy A, Turk BJ, Ragins AI, Kipnis P, Escobar GJ. [Evaluation Following Staggered Implementation of the "Rethinking Critical Care" ICU Care Bundle in a Multicenter Community Setting.](http://www.ncbi.nlm.nih.gov/pubmed/26540402) Crit Care Med. 2015 Nov 4.
180. Shumock KM, Appel J, Toonstra [A Axillary Intra-aortic Balloon Pump Placement as a Means for Safe Mobility in a Patient Awaiting Left Ventricular Assist Device Implantation: A Case Report.](http://journals.lww.com/cptj/Abstract/2015/09000/Axillary_Intra_aortic_Balloon_Pump_Placement_as_a.2.aspx) Cardiopulmonary Physical Therapy Journal 2015, 26, 3: 53-57.
181. Fields, Christina; Trotsky, Alyssa; Fernandez, Natalia; Smith, Beth A. [Mobility and Ambulation for Patients With Pulmonary Artery Catheters: A Retrospective Descriptive Study](http://journals.lww.com/jacpt/Abstract/publishahead/Mobility_and_Ambulation_for_Patients_With.99998.aspx). Cardiopulmonary Physical Therapy Journal 2015, 26, 3: 53-57. Journal of Acute Care Physical Therapy
182. Karen Choong, Maria D. P. Chacon, Rachel G. Walker, Samah Al-Harbi, Heather Clark, Ghadah Al-Mahr, Brian W. Timmons, Lehana Thabane. [In-Bed Mobilization in Critically Ill Children: A Safety and Feasibility Trial](https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0035-1563545). J Pediatr Intensive Care 2015; 04(04): 225-234
183. Ramona O. Hopkins, Karen Choong, Carleen A. Zebuhr, Sapna R. Kudchadkar [Transforming PICU Culture to Facilitate Early Rehabilitation](https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0035-1563547). J Pediatr Intensive Care 2015; 04(04): 204-21
184. Toccolini BF, Osaku EF, de Macedo Costa CR, Teixeira SN, Costa NL, Cândia MF, Leite MA, de Albuquerque CE, Jorge AC, Duarte PA. [Passive orthostatism (tilt table) in critical patients: Clinicophysiologic evaluation.](http://www.ncbi.nlm.nih.gov/pubmed/25622762) J Crit Care. 2015 Jun;30(3):655.e1-6.
185. Toonstra AL, Zanni JM, Sperati CJ, Nelliot A, Mantheiy E, Skinner EH, Needham DM. [Feasibility and Safety of Physical Therapy during Continuous Renal Replacement Therapy in the Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/26788890) Ann Am Thorac Soc. 2016 Jan 20.
186. Wahab R, Yip NH, Chandra S, et al. [The implementation of an early rehabilitation program is associated with reduced length of stay: A multi-ICU study](http://inc.sagepub.com/content/early/2015/09/18/1751143715605118.full.pdf+html). Journal of the Intensive Care Society 1751143715605118
187. Mehrholz J, Mückel S, Oehmichen F, Pohl M. [First results about recovery of walking function in patients with intensive care unit-acquired muscle weakness from the General Weakness Syndrome Therapy (GymNAST) cohort study.](http://www.ncbi.nlm.nih.gov/pubmed/26700274) BMJ Open. 2015 Dec 23;5(12):e008828.
188. Schaller SJ, Stäuble CG, Suemasa M, Heim M, Duarte IM, Mensch O, Bogdanski R, Lewald H, Eikermann M, Blobner M. [The German Validation Study of the Surgical Intensive Care Unit Optimal Mobility Score.](http://www.ncbi.nlm.nih.gov/pubmed/26857328) J Crit Care. 2016 Apr;32:201-6
189. Ota H, Kawai H, Sato M, Ito K, Fujishima S, Suzuki H. [Effect of early mobilization on discharge disposition of mechanically ventilated patients.](http://www.ncbi.nlm.nih.gov/pubmed/25931747) J Phys Ther Sci. 2015 Mar;27(3):859-64.
190. Berney SC. [A randomised trial of an intensive physiotherapy program for patients in intensive care [commentary].](http://www.ncbi.nlm.nih.gov/pubmed/26947004) J Physiother. 2016 Mar 3. pii: S1836-9553(16)00013-8.
191. van der Leeden M, Huijsmans R, Geleijn E, de Lange-de Klerk ES, Dekker J, Bonjer HJ, van der Peet DL. [Early enforced mobilisation following surgery for gastrointestinal cancer: feasibility and outcomes.](http://www.ncbi.nlm.nih.gov/pubmed/26059985) Physiotherapy. 2016 Mar;102(1):103-10.
192. Buhl SF, Andersen AL, Andersen JR, Andersen O, Jensen JE, Rasmussen AM, Pedersen MM, Damkjær L, Gilkes H, Petersen J. [The effect of protein intake and resistance training on muscle mass in acutely ill old medical patients - A randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/25796103) Clin Nutr. 2016 Feb;35(1):59-66.
193. Hoyer EH, Friedman M, Lavezza A, Wagner-Kosmakos K, Lewis-Cherry R, Skolnik JL, Byers SP, Atanelov L, Colantuoni E, Brotman DJ, Needham DM. [Promoting mobility and reducing length of stay in hospitalized general medicine patients: A quality-improvement project.](http://www.ncbi.nlm.nih.gov/pubmed/26849277) J Hosp Med. 2016 Feb 5. doi: 10.1002/jhm.2546.
194. Mudge AM, McRae P, McHugh K, Griffin L, Hitchen A, Walker J, Cruickshank M, Morris NR, Kuys S. [Poor mobility in hospitalized adults of all ages.](http://www.ncbi.nlm.nih.gov/pubmed/26797978) J Hosp Med. 2016 Jan 21. doi: 10.1002/jhm.2536
195. Hodgson CL, Bailey M, Bellomo R, Berney S, Buhr H, Denehy L, Gabbe B, Harrold M, Higgins A, Iwashyna TJ, Papworth R, Parke R, Patman S, Presneill J, Saxena M, Skinner E, Tipping C, Young P, Webb S; Trial of Early Activity and Mobilization Study Investigators. [A Binational Multicenter Pilot Feasibility Randomized Controlled Trial of Early Goal-Directed Mobilization in ICU.](http://www.ncbi.nlm.nih.gov/pubmed/26968024) Crit Care Med. 2016 Mar 10.
196. Fraser D, Spiva L, Forman W, Hallen C. [Original Research: Implementation of an Early Mobility Program in an ICU.](http://www.ncbi.nlm.nih.gov/pubmed/26600359) Am J Nurs. 2015 Dec;115(12):49-58.
197. Umei N, Atagi K, Okuno H, Usuke S, Otsuka Y, Ujiro A, Shimaoka H. [Impact of mobilisation therapy on the haemodynamic and respiratory status of elderly intubated patients in an intensive care unit: A retrospective analysis.](http://www.ncbi.nlm.nih.gov/pubmed/26961919) Intensive Crit Care Nurs. 2016 Mar 5
198. Sala V, Petrucci L, Monteleone S, Dall'angelo A, Miracca S, Conte T, Carlisi E, Ricotti S, D'Armini AM, Dalla Toffola E. [Oxygen saturation and heart rate monitoring during a single session of early rehabilitation after cardiac surgery.](http://www.ncbi.nlm.nih.gov/pubmed/26220328) Eur J Phys Rehabil Med. 2016 Feb;52(1):12-9.
199. Kho ME, Molloy AJ, Clarke F, Herridge MS, Koo KK, Rudkowski J, Seely AJ, Pellizzari JR, Tarride JE, Mourtzakis M, Karachi T, Cook DJ; Canadian Critical Care Trials Group. [CYCLE pilot: a protocol for a pilot randomised study of early cycle ergometry versus routine physiotherapy in mechanically ventilated patients.](http://www.ncbi.nlm.nih.gov/pubmed/27059469) BMJ Open. 2016 Apr 8;6(4):e011659.
200. Frazzitta G, Valsecchi R, Zivi I, Sebastianelli L, Bonini S, Zarucchi A, Matteri D, Molatore K, Maestri R, Saltuari L. [Safety and Feasibility of a Very Early Verticalization in Patients With Severe Traumatic Brain Injury.](http://www.ncbi.nlm.nih.gov/pubmed/26147317) J Head Trauma Rehabil. 2015 Jul-Aug;30(4):290-2.
201. Azuh O, Gammon H, Burmeister C, Frega D, Nerenz D, DiGiovine B, Siddiqui A. [Benefits of early active mobility in the medical intensive care unit - a pilot study.](http://www.ncbi.nlm.nih.gov/pubmed/27107920) Am J Med. 2016 Apr 20. pii: S0002-9343(16)30360-6.
202. Nickels M, Aitken LM, Walsham J, Watson L, McPhail S. [Clinicians' perceptions of rationales for rehabilitative exercise in a critical care setting: A cross-sectional study.](http://www.ncbi.nlm.nih.gov/pubmed/27105830) Aust Crit Care. 2016 Apr 19. pii: S1036-7314(16)30003-0.
203. McWilliams DJ, Benington S, Atkinson D. [Outpatient-based physical rehabilitation for survivors of prolonged critical illness: A randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/27043264) Physiother Theory Pract. 2016 Apr;32(3):179-90.
204. Moss M, Nordon-Craft A, Malone D, Van Pelt D, Frankel SK, Warner ML, Kriekels W, McNulty M, Fairclough DL, Schenkman M. [A Randomized Trial of an Intensive Physical Therapy Program for Patients with Acute Respiratory Failure.](http://www.ncbi.nlm.nih.gov/pubmed/26651376) Am J Respir Crit Care Med. 2016 May 15;193(10):1101-10.
205. Azuh O, Gammon H, Burmeister C, Frega D, Nerenz D, DiGiovine B, Siddiqui A. [Benefits of Early Active Mobility in the Medical Intensive Care Unit: A Pilot Study.](http://www.ncbi.nlm.nih.gov/pubmed/27107920) Am J Med. 2016 Apr 21.
206. Hopkins RO, Mitchell L, Thomsen GE, Schafer M, Link M, Brown SM. [Implementing a Mobility Program to Minimize Post-Intensive Care Syndrome.](http://www.ncbi.nlm.nih.gov/pubmed/27153308) AACN Adv Crit Care. 2016 Apr-Jun;27(2):187-203.
207. Brown CJ, Foley KT, Lowman JD Jr, MacLennan PA, Razjouyan J, Najafi B, Locher J, Allman RM. [Comparison of Posthospitalization Function and Community Mobility in Hospital Mobility Program and Usual Care Patients: A Randomized Clinical Trial.](http://www.ncbi.nlm.nih.gov/pubmed/27243899) JAMA Intern Med. 2016 May 31.
208. José A, Dal Corso S. [Inpatient rehabilitation improves functional capacity, peripheral muscle strength and quality of life in patients with community-acquired pneumonia: a randomised trial.](http://www.ncbi.nlm.nih.gov/pubmed/26996093) J Physiother. 2016 Apr;62(2):96-102.
209. Thelandersson A, Nellgård B, Ricksten SE, Cider Å. [Effects of Early Bedside Cycle Exercise on Intracranial Pressure and Systemic Hemodynamics in Critically Ill Patients in a Neurointensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/27216931) Neurocrit Care. 2016 May 23.
210. Karic T, Røe C, Nordenmark TH, Becker F, Sorteberg W, Sorteberg A. [Effect of early mobilization and rehabilitation on complications in aneurysmal subarachnoid hemorrhage.](http://www.ncbi.nlm.nih.gov/pubmed/27058204) J Neurosurg. 2016 Apr 8:1-9.
211. Freeman-Sanderson AL, Togher L, Elkins MR, Phipps PR. [Return of Voice for Ventilated Tracheostomy Patients in ICU: A Randomized Controlled Trial of Early-Targeted Intervention.](http://www.ncbi.nlm.nih.gov/pubmed/26855430) Crit Care Med. 2016 Jun;44(6):1075-81
212. Morris PE, Berry MJ, Files DC, Thompson JC, Hauser J, Flores L, Dhar S, Chmelo E, Lovato J, Case LD, Bakhru RN, Sarwal A, Parry SM, Campbell P, Mote A, Winkelman C, Hite RD, Nicklas B, Chatterjee A, Young MP. [Standardized Rehabilitation and Hospital Length of Stay Among Patients With Acute Respiratory Failure: A Randomized Clinical Trial.](http://www.ncbi.nlm.nih.gov/pubmed/27367766) JAMA. 2016 Jun 28;315(24):2694-702
213. Corcoran JR, Herbsman JM, Bushnik T, Van Lew S, Stolfi A, Parkin K, McKenzie A, Hall GW, Joseph W, Whiteson J, Flanagan SR. [Early Rehabilitation in the Medical and Surgical Intensive Care Units for Patients With and Without Mechanical Ventilation: An Interprofessional Performance Improvement Project.](http://www.ncbi.nlm.nih.gov/pubmed/27346093) PM R. 2016 Jun 23.
214. Stolbrink M, McGowan L, Saman H, Nguyen T, Knightly R, Sharpe J, Reilly H, Jones S, Turner AM. [The Early Mobility Bundle: a simple enhancement of therapy which may reduce incidence of hospital-acquired pneumonia and length of hospital stay.](http://www.ncbi.nlm.nih.gov/pubmed/25063011) J Hosp Infect. 2014 Sep;88(1):34-9.
215. Sigler M, Nugent K, Alalawi R, Selvan K, Tseng J, Edriss H, Turner A, Valdez K, Krause D. [Making of a Successful Early Mobilization Program for a Medical Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/27255089) South Med J. 2016 Jun;109(6):342-5.
216. Tipping CJ, Bailey MJ, Bellomo R, Berney S, Buhr H, Denehy L, Harrold M, Holland A, Higgins AM, Iwashyna TJ, Needham D, Presneill J, Saxena M, Skinner EH, Webb S, Young P, Zanni J, Hodgson CL. [The ICU Mobility Scale Has Construct and Predictive Validity and Is Responsive. A Multicenter Observational Study.](http://www.ncbi.nlm.nih.gov/pubmed/27015233) Ann Am Thorac Soc. 2016 Jun;13(6):887-93.
217. Toonstra AL, Nelliot A, Aronson Friedman L, Zanni JM, Hodgson C, Needham DM. [An evaluation of learning clinical decision-making for early rehabilitation in the ICU via interactive education with audience response system.](http://www.ncbi.nlm.nih.gov/pubmed/27292947) Disabil Rehabil. 2016 Jun 13:1-3.
218. dos Santos LJ, de Aguiar Lemos F, Bianchi T, Sachetti A, Dall' Acqua AM, da Silva Naue W, Dias AS, Vieira SR. [Early rehabilitation using a passive cycle ergometer on muscle morphology in mechanically ventilated critically ill patients in the Intensive Care Unit (MoVe-ICU study): study protocol for a randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/26314881) Trials. 2015 Aug 28;16:383.
219. Tadyanemhandu C, Manie S. [Profile of patients and physiotherapy patterns in intensive care units in public hospitals in Zimbabwe: a descriptive cross-sectional study.](http://www.ncbi.nlm.nih.gov/pubmed/26445959) BMC Anesthesiol. 2015 Oct 7;15:136.
220. Bakhru RN, McWilliams DJ, Wiebe DJ, Spuhler VJ, Schweickert WD. [ICU Structure Variation and Implications for Early Mobilization Practices: An International Survey.](http://www.ncbi.nlm.nih.gov/pubmed/27268952) Ann Am Thorac Soc. 2016 Jun 7
221. Skinner EH, Thomas P, Reeve JC, Patman S. [Minimum standards of clinical practice for physiotherapists working in critical care settings in Australia and New Zealand: A modified Delphi technique.](http://www.ncbi.nlm.nih.gov/pubmed/27259819) Physiother Theory Pract. 2016 Jun 3:1-15.
222. Cassina T, Putzu A, Santambrogio L, Villa M, Licker MJ. [Hemodynamic challenge to early mobilization after cardiac surgery: A pilot study.](http://www.ncbi.nlm.nih.gov/pubmed/27397446) Ann Card Anaesth. 2016 Jul-Sep;19(3):425-32.
223. Jesus FS, Paim DM, Brito JO, Barros IA, Nogueira TB, Martinez BP, Pires TQ. [Mobility decline in patients hospitalized in an intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/27410406) Rev Bras Ter Intensiva. 2016 Jun;28(2):114-119.
224. Krewer C, Luther M, Koenig E, Müller F. [Tilt Table Therapies for Patients with Severe Disorders of Consciousness: A Randomized, Controlled Trial.](http://www.ncbi.nlm.nih.gov/pubmed/26623651) PLoS One. 2015 Dec 1;10(12):e0143180.
225. Ragavan VK, Greenwood KC, Bibi K. [The Functional Status Score for the Intensive Care Unit Scale: Is It Reliable in the Intensive Care Unit? Can It Be Used to Determine Discharge Placement?](http://journals.lww.com/jacpt/Citation/2016/08000/The_Functional_Status_Score_for_the_Intensive_Care.3.aspx) Journal of Acute Care Physical Therapy 2016 7 (3) 93-100
226. Bhat A, Chakravarthy K, Rao BK. [Mobilization of patients in neurological Intensive Care Units of India: A survey.](http://www.ncbi.nlm.nih.gov/pubmed/27390457) Indian J Crit Care Med. 2016 Jun;20(6):337-41.
227. Sato K, Okajima M, Taniguchi T. [The electrolarynx as a communication tool for mechanically ventilated critically ill patients: a prospective feasibility study.](http://www.ncbi.nlm.nih.gov/pubmed/27197972) Intensive Care Med. 2016 Aug;42(8):1299-300.
228. Duncan C, Hudson M, Heck C. [The impact of increased weekend physiotherapy service provision in critical care: a mixed methods study.](http://www.ncbi.nlm.nih.gov/pubmed/26467461) Physiother Theory Pract. 2015;31(8):547-55
229. Booth K, Rivet J, Flici R, Harvey E, Hamill M, Hundley D, Holland K, Hubbard S, Trivedi A, Collier B. [Progressive Mobility Protocol Reduces Venous Thromboembolism Rate in Trauma Intensive Care Patients: A Quality Improvement Project.](http://www.ncbi.nlm.nih.gov/pubmed/27618376) J Trauma Nurs. 2016 Sep-Oct;23(5):284-9
230. Malamud AL, Ricard PE. Feasibility of the Six-Minute Walk Test for Patients Who Have Cystic Fibrosis, Are Ambulatory, and Require Mechanical Ventilation Before Lung Transplantation. [Phys Ther.](http://www.ncbi.nlm.nih.gov/pubmed/?term=Malamud%20AL%5BAuthor%5D&cauthor=true&cauthor_uid=26916926%22%20%5Co%20%22Physical%20therapy.) 2016 Sep;96(9):1468-76.
231. Schaller SJ, Anstey M, Blobner M, Edrich T, Grabitz SD, Gradwohl-Matis I, Heim M, Houle T, Kurth T, Latronico N, Lee J, Meyer MJ, Peponis T, Talmor D, Velmahos GC, Waak K, Walz JM, Zafonte R, Eikermann M; International Early SOMS-guided Mobilization Research Initiative.. [Early, goal-directed mobilisation in the surgical intensive care unit: a randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/27707496) Lancet. 2016 Oct 1;388(10052):1377-1388.
232. Iwashyna TJ, Hodgson CL. [Early mobilisation in ICU is far more than just exercise.](https://www.ncbi.nlm.nih.gov/pubmed/27707476) Lancet. 2016 Oct 1;388(10052):1351-1352.
233. McWilliams D, Atkins G, Hodson J, Snelson C. [The Sara Combilizer<sup>®</sup> as an early mobilisation aid for critically ill patients: A prospective before and after study.](https://www.ncbi.nlm.nih.gov/pubmed/27745753) Aust Crit Care. 2016 Oct 10.
234. Jolley SE, Moss M, Needham DM, Caldwell E, Morris PE, Miller RR, Ringwood N, Anders M, Koo KK, Gundel SE, Parry SM, Hough CL; Acute Respiratory Distress Syndrome Network Investigators. [Point Prevalence Study of Mobilization Practices for Acute Respiratory Failure Patients in the United States.](https://www.ncbi.nlm.nih.gov/pubmed/27661864) Crit Care Med. 2016 Sep 22.
235. Koo KK, Choong K, Cook DJ, Herridge M, Newman A, Lo V, Guyatt G, Priestap F, Campbell E, Burns KE, Lamontagne F, Meade MO; Canadian Critical Care Trials Group.. [Early mobilization of critically ill adults: a survey of knowledge, perceptions and practices of Canadian physicians and physiotherapists.](https://www.ncbi.nlm.nih.gov/pubmed/27730109) CMAJ Open. 2016 Aug 18;4(3):E448-E454.
236. Wieczorek B, Ascenzi J, Kim Y, Lenker H, Potter C, Shata NJ, Mitchell L, Haut C, Berkowitz I, Pidcock F, Hoch J, Malamed C, Kravitz T, Kudchadkar SR. [PICU Up!: Impact of a Quality Improvement Intervention to Promote Early Mobilization in Critically Ill Children.](https://www.ncbi.nlm.nih.gov/pubmed/27759596) Pediatr Crit Care Med. 2016 Oct 10.
237. Taito S, Sanui M, Yasuda H, Shime N, Lefor AK; Japanese Society of Education for Physicians and Trainees in Intensive Care (JSEPTIC) Clinical Trial Group.. [Current rehabilitation practices in intensive care units: a preliminary survey by the Japanese Society of Education for Physicians and Trainees in Intensive Care (JSEPTIC) Clinical Trial Group.](https://www.ncbi.nlm.nih.gov/pubmed/27800164) J Intensive Care. 2016 Oct 28;4:66.
238. Rocca A, Pignat JM, Berney L, Jöhr J, Van de Ville D, Daniel RT, Levivier M, Hirt L, Luft AR, Grouzmann E, Diserens K. [Sympathetic activity and early mobilization in patients in intensive and intermediate care with severe brain injuries: a preliminary prospective randomized study.](https://www.ncbi.nlm.nih.gov/pubmed/27619015) BMC Neurol. 2016 Sep 13;16:169.
239. McDowell K, O'Neill B, Blackwood B, Clarke C, Gardner E, Johnston P, Kelly M, McCaffrey J, Mullan B, Murphy S, Trinder TJ, Lavery G, McAuley DF, Bradley JM. [Effectiveness of an exercise programme on physical function in patients discharged from hospital following critical illness: a randomised controlled trial (the REVIVE trial).](https://www.ncbi.nlm.nih.gov/pubmed/27852953) Thorax. 2016 Nov 15. pii: thoraxjnl-2016-208723.
240. Mehrholz J, Thomas S, Burridge JH, Schmidt A, Scheffler B, Schellin R, Rückriem S, Meißner D, Mehrholz K, Sauter W, Bodechtel U, Elsner B. [Fitness and mobility training in patients with Intensive Care Unit-acquired muscle weakness (FITonICU): study protocol for a randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/27881152) Trials. 2016 Nov 24;17(1):559
241. Munshi L, Kobayashi T, DeBacker J, Doobay R, Telesnicki T, Lo V, Cote N, Cypel M, Keshavjee S, Ferguson ND, Fan E. [Intensive Care Physiotherapy during Extracorporeal Membrane Oxygenation for Acute Respiratory Distress Syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/27898220) Ann Am Thorac Soc. 2016 Nov 29
242. Engström J, Bruno E, Reinius H, Fröjd C, Jonsson H, Sannervik J, Larsson A. [Physiological changes associated with routine nursing procedures in critically ill are common: an observational pilot study.](https://www.ncbi.nlm.nih.gov/pubmed/27813055) Acta Anaesthesiol Scand. 2017 Jan;61(1):62-72.
243. Parry SM, Remedios L, Denehy L, Knight LD, Beach L, Rollinson TC, Berney S, Puthucheary ZA, Morris P, Granger CL. [What factors affect implementation of early rehabilitation into intensive care unit practice? A qualitative study with clinicians.](https://www.ncbi.nlm.nih.gov/pubmed/27902947) J Crit Care. 2016 Nov 12;38:137-143.
244. Lai CC, Chou W, Chan KS, Cheng KC, Yuan KS, Chao CM, Chen CM. [Early Mobilization Reduces Duration of Mechanical Ventilation and Intensive Care Unit Stay in Patients in Acute Respiratory Failure.](https://www.ncbi.nlm.nih.gov/pubmed/27979608) Arch Phys Med Rehabil. 2016 Dec 12.
245. Murakami FM, Yamaguti WP, Onoue MA, Mendes JM, Pedrosa RS, Maida AL, Kondo CS, de Salles IC, de Brito CM, Rodrigues MK. [Functional evolution of critically ill patients undergoing an early rehabilitation protocol.](https://www.ncbi.nlm.nih.gov/pubmed/26340157) Rev Bras Ter Intensiva. 2015 Apr-Jun;27(2):161-9
246. Ali R, Cornelius PJ, Herasevich V, Gajic O, Kashyap R. [Effect of daily use of electronic checklist on physical rehabilitation consultations in critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/28043721) J Crit Care. 2016 Dec 22.
247. Chavez J, Bortolotto SJ, Paulson M, Huntley N, Sullivan B, Babu A. [Promotion of progressive mobility activities with ventricular assist and extracorporeal membrane oxygenation devices in a cardiothoracic intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/26436301) Dimens Crit Care Nurs. 2015 Nov-Dec;34(6):348-55.
248. Højskov IE, Moons P, Hansen NV, Greve H, Olsen DB, Cour SL, Glud C, Winkel P, Lindschou J, Egerod I, Christensen AV, Berg SK. [Early physical training and psycho-educational intervention for patients undergoing coronary artery bypass grafting. The SheppHeart randomized 2 × 2 factorial clinical pilot trial.](https://www.ncbi.nlm.nih.gov/pubmed/26187522) Eur J Cardiovasc Nurs. 2016 Oct;15(6):425-37.
249. Kho ME, Molloy AJ, Clarke FJ, Ajami D, McCaughan M, Obrovac K, Murphy C, Camposilvan L, Herridge MS, Koo KK, Rudkowski J, Seely AJ, Zanni JM, Mourtzakis M, Piraino T, Cook DJ; Canadian Critical Care Trials Group.. [TryCYCLE: A Prospective Study of the Safety and Feasibility of Early In-Bed Cycling in Mechanically Ventilated Patients.](https://www.ncbi.nlm.nih.gov/pubmed/28030555) PLoS One. 2016 Dec 28;11(12):e0167561
250. Nievera RA, Fick A, Harris HK. [Effects of Ambulation and Nondependent Transfers on Vital Signs in Patients Receiving Norepinephrine.](https://www.ncbi.nlm.nih.gov/pubmed/27965227) Am J Crit Care. 2016 Dec;26(1):31-36.
251. Agmon M, Zisberg A, Gil E, Rand D, Gur-Yaish N, Azriel M. [Association Between 900 Steps a Day and Functional Decline in Older Hospitalized Patients.](https://www.ncbi.nlm.nih.gov/pubmed/27918776) JAMA Intern Med. 2016 Dec 5.
252. van Willigen Z, Collings N, Richardson D, Cusack R. [Quality improvement: The delivery of true early mobilisation in an intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/28090326) BMJ Qual Improv Rep. 2016 Dec 30;5(1).
253. Messer A, Comer L, Forst S. [Implementation of a Progressive Mobilization Program in a Medical-Surgical Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/26427973) Crit Care Nurse. 2015 Oct;35(5):28-42.
254. Wollersheim T, Haas K, Wolf S, Mai K, Spies C, Steinhagen-Thiessen E, Wernecke KD, Spranger J, Weber-Carstens S. [Whole-body vibration to prevent intensive care unit-acquired weakness: safety, feasibility, and metabolic response.](https://www.ncbi.nlm.nih.gov/pubmed/28065165) Crit Care. 2017 Jan 9;21(1):9.
255. Kawaguchi YM, Nawa RK, Figueiredo TB, Martins L, Pires-Neto RC. [Perme Intensive Care Unit Mobility Score and ICU Mobility Scale: translation into Portuguese and cross-cultural adaptation for use in Brazil.](https://www.ncbi.nlm.nih.gov/pubmed/28117473) J Bras Pneumol. 2016 Nov-Dec;42(6):429-434.
256. Barnes-Daly MA, Phillips G, Ely EW. [Improving Hospital Survival and Reducing Brain Dysfunction at Seven California Community Hospitals: Implementing PAD Guidelines Via the ABCDEF Bundle in 6,064 Patients.](https://www.ncbi.nlm.nih.gov/pubmed/27861180) Crit Care Med. 2017 Feb;45(2):171-178.
257. Kram SL, DiBartolo MC, Hinderer K, Jones RA. [Implementation of the ABCDE Bundle to Improve Patient Outcomes in the Intensive Care Unit in a Rural Community Hospital.](https://www.ncbi.nlm.nih.gov/pubmed/26244238) Dimens Crit Care Nurs. 2015 Sep-Oct;34(5):250-8
258. Ely EW. [The ABCDEF Bundle: Science and Philosophy of How ICU Liberation Serves Patients and Families.](https://www.ncbi.nlm.nih.gov/pubmed/28098628) Crit Care Med. 2017 Feb;45(2):321-330
259. Gruther W, Pieber K, Steiner I, Hein C, Hiesmayr JM, Paternostro-Sluga T. [Can Early Rehabilitation on the General Ward After an Intensive Care Unit Stay Reduce Hospital Length of Stay in Survivors of Critical Illness?: A Randomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/28181920) Am J Phys Med Rehabil. 2017 Feb 8. doi: 10.1097/PHM.0000000000000718.
260. Kumble S, Zink EK, Burch M, Deluzio S, Stevens RD, Bahouth MN. [Physiological Effects of Early Incremental Mobilization of a Patient with Acute Intracerebral and Intraventricular Hemorrhage Requiring Dual External Ventricular Drainage.](https://www.ncbi.nlm.nih.gov/pubmed/28243999) Neurocrit Care. 2017 Feb 27. doi: 10.1007/s12028-017-0376-9.
261. Hunter OO, George EL, Ren D, Morgan D, Rosenzweig M, Klinefelter Tuite P. [Overcoming nursing barriers to intensive care unit early mobilisation: A quality improvement project.](https://www.ncbi.nlm.nih.gov/pubmed/28190550) Intensive Crit Care Nurs. 2017 Feb 9.
262. Reames CD, Price DM, King EA, Dickinson S. [Mobilizing Patients Along the Continuum of Critical Care.](https://www.ncbi.nlm.nih.gov/pubmed/26627065) Dimens Crit Care Nurs. 2016 Jan-Feb;35(1):10-5.
263. Maffei P, Wiramus S, Bensoussan L, Bienvenu L, Haddad E, Morange S, Fathallah M, Hardwigsen J, Viton JM, Le Treut YP, Albanese J, Gregoire E. [Intensive early rehabilitation in the Intensive Care Unit for liver transplant recipients: a randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28279659) Arch Phys Med Rehabil. 2017 Mar 6. pii: S0003-9993(17)30135-1.
264. Deng H, Chen J, Li F, Li-Tsang CW, Liu Q, Ma X, Ao M, Chen N, Zhou Y, Zhong X, Chen Z, Cao L, He G, Wu J. [Effects of mobility training on severe burn patients in the BICU: A retrospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/27595451) Burns. 2016 Nov;42(7):1404-1412.
265. Hester JM, Guin PR, Danek GD, Thomas JR, Titsworth WL, Reed RK, Vasilopoulos T, Fahy BG. [The Economic and Clinical Impact of Sustained Use of a Progressive Mobility Program in a Neuro-ICU.](https://www.ncbi.nlm.nih.gov/pubmed/28328648) Crit Care Med. 2017 Mar 21.
266. Cui LR, LaPorte M, Civitello M, Stanger M, Orringer M, Casey F 3rd, Kuch BA, Beers SR, Valenta CA, Kochanek PM, Houtrow AJ, Fink EL. [Physical and occupational therapy utilization in a pediatric intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/28297684) J Crit Care. 2017 Mar 7;40:15-20
267. Boden I, Browning L, Skinner EH, Reeve J, El-Ansary D, Robertson IK, Denehy L. [The LIPPSMAck POP (Lung Infection Prevention Post Surgery - Major Abdominal - with Pre-Operative Physiotherapy) trial: study protocol for a multi-centre randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/26666321) Trials. 2015 Dec 15;16:573
268. Ma AJ, Rawat N, Reiter A, Shrock C, Zhan A, Stone A, Rabiee A, Griffin S, Needham DM, Saria S. [Measuring Patient Mobility in the ICU Using a Novel Noninvasive Sensor.](https://www.ncbi.nlm.nih.gov/pubmed/28291092) Crit Care Med. 2017 Apr;45(4):630-636
269. Jeong IC, Bychkov D, Hiser S, Kreif J, Klein L, Hoyer E, Searson P. [Using a Real Time Location System for Assessment of Patient Ambulation in a Hospital Setting.](https://www.ncbi.nlm.nih.gov/pubmed/28286202) Arch Phys Med Rehabil. 2017 Mar 9
270. Kimawi I, Lamberjack B, Nelliot A, Toonstra AL, Zanni J, Huang M, Mantheiy E, Kho ME, Needham DM. [Safety and Feasibility of a Protocolized Approach to In-Bed Cycling Exercise in the Intensive Care Unit: Quality Improvement Project.](https://www.ncbi.nlm.nih.gov/pubmed/28379571) Phys Ther. 2017 Mar 31.
271. Forestieri P, Guizilini S, Peres M, Bublitz C, Bolzan DW, Rocco IS, Santos VB, Moreira RS, Breda JR, Almeida DR, Carvalho AC, Arena R, Gomes WJ. [A Cycle Ergometer Exercise Program Improves Exercise Capacity and Inspiratory Muscle Function in Hospitalized Patients Awaiting Heart Transplantation: a Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/27982348) Braz J Cardiovasc Surg. 2016 Sep-Oct;31(5):389-395
272. Bartolo M, Bargellesi S, Castioni CA, Bonaiuti D; Intensive Care and Neurorehabilitation Italian Study Group., Antenucci R, Benedetti A, Capuzzo V, Gamna F, Radeschi G, Citerio G, Colombo C, Del Casale L, Recubini E, Toska S, Zanello M, D'Aurizio C, Spina T, Del Gaudio A, Di Rienzo F, Intiso D, Dallocchio G, Felisatti G, Lavezzi S, Zoppellari R, Gariboldi V, Lorini L, Melizza G, Molinero G, Mandalà G, Pignataro A, Montis A, Napoleone A, Pilia F, Pisu M, Semerjian M, Pagliaro G, Nardin L, Scarponi F, Zampolini M, Zava R, Massetti MA, Piccolini C, Aloj F, Antonelli S, Zucchella C. [Early rehabilitation for severe acquired brain injury in intensive care unit: multicenter observational study.](https://www.ncbi.nlm.nih.gov/pubmed/26530213) Eur J Phys Rehabil Med. 2016 Feb;52(1):90-100.
273. Brissie MA, Zomorodi M, Soares-Sardinha S, Jordan JD. [Development of a neuro early mobilization protocol for use in a neuroscience intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/28457689) Intensive Crit Care Nurs. 2017 Apr 27
274. Ross K, Heiny E, Conner S, Spener P, Pineda R. [Occupational therapy, physical therapy and speech-language pathology in the neonatal intensive care unit: Patterns of therapy usage in a level IV NICU.](https://www.ncbi.nlm.nih.gov/pubmed/28384484) Res Dev Disabil. 2017 Apr 3;64:108-117
275. McGarrigle L, Caunt J. [Physical Therapist-Led Ambulatory Rehabilitation for Patients Receiving CentriMag Short-Term Ventricular Assist Device Support: Retrospective Case Series.](https://www.ncbi.nlm.nih.gov/pubmed/27256069) Phys Ther. 2016 Dec;96(12):1865-1873
276. Anekwe DE, Koo KK, de Marchie M, Goldberg P, Jayaraman D, Spahija J. [Interprofessional Survey of Perceived Barriers and Facilitators to Early Mobilization of Critically Ill Patients in Montreal, Canada.](https://www.ncbi.nlm.nih.gov/pubmed/28355933) J Intensive Care Med. 2017
277. Costa DK, White M, Ginier E, Manojlovich M, Govindan S, Iwashyna TJ, Sales AE. [Identifying barriers to delivering the ABCDE bundle to minimize adverse outcomes for mechanically ventilated patients: A systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/28438605) Chest. 2017 Apr 21.
278. Karadas C, Ozdemir L. [The effect of range of motion exercises on delirium prevention among patients aged 65 and over in intensive care units.](https://www.ncbi.nlm.nih.gov/pubmed/26763172) Geriatr Nurs. 2016 May-Jun;37(3):180-5
279. Sommers J, Wieferink DC, Dongelmans DA, Nollet F, Engelbert RHH, van der Schaaf M. [Body weight-supported bedside treadmill training facilitates ambulation in ICU patients: An interventional proof of concept study.](https://www.ncbi.nlm.nih.gov/pubmed/28549273) J Crit Care. 2017 May 13;41:150-155
280. Machado ADS, Pires-Neto RC, Carvalho MTX, Soares JC, Cardoso DM, Albuquerque IM. [Effects that passive cycling exercise have on muscle strength, duration of mechanical ventilation, and length of hospital stay in critically ill patients: a randomized clinical trial.](https://www.ncbi.nlm.nih.gov/pubmed/28538781) J Bras Pneumol. 2017 Mar-Apr;43(2):134-139.
281. Kimawi I, Lamberjack B, Nelliot A, Toonstra AL, Zanni J, Huang M, Mantheiy E, Kho ME, Needham DM. [Safety and Feasibility of a Protocolized Approach to In-Bed Cycling Exercise in the Intensive Care Unit: Quality Improvement Project.](https://www.ncbi.nlm.nih.gov/pubmed/28379571) Phys Ther. 2017 Mar 31
282. Hassan A, Rajamani A, Fitzsimons F. [The MOVIN' project (Mobilisation Of Ventilated Intensive care patients at Nepean): A quality improvement project based on the principles of knowledge translation to promote nurse-led mobilisation of critically ill ventilated patients.](https://www.ncbi.nlm.nih.gov/pubmed/28552258) Intensive Crit Care Nurs. 2017 May 25.
283. Coughenour, E. T.; Salmans, K. J.; Skoch, A. D.; Starks, L. L.; Sabus, C. [Achieving a Culture of Mobility: Implementation of a Mobility Aide Program to Increase Patient Mobilizations in an Acute Care Hospital](http://journals.lww.com/jacpt/Citation/2017/07000/Achieving_a_Culture_of_Mobility___Implementation.4.aspx). Journal of Acute Care Physical Therapy 2017: 8(3): 86-95.
284. Akoumianaki E, Dousse N, Lyazidi A, Lefebvre JC, Graf S, Cordioli RL, Rey N, Richard JM, Brochard L. [Can proportional ventilation modes facilitate exercise in critically ill patients? A physiological cross-over study : Pressure support versus proportional ventilation during lower limb exercise in ventilated critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/28608135) Ann Intensive Care. 2017 Dec;7(1):64.
285. Roth C, Stitz H, Kleffmann J, Kaestner S, Deinsberger W, Ferbert A, Gehling M. [Early Physiotherapy by Passive Range of Motion Does Not Affect Partial Brain Tissue Oxygenation in Neurocritical Care Patients.](https://www.ncbi.nlm.nih.gov/pubmed/27673345) J Neurol Surg A Cent Eur Neurosurg. 2017 Jan;78(1):42-45.
286. Sigera PC, Tunpattu TM, Jayashantha TP, De Silva AP, Athapattu PL, Dondorp A, Haniffa R. [National Profile of Physical Therapists in Critical Care Units of Sri Lanka: Lower Middle-Income Country.](https://www.ncbi.nlm.nih.gov/pubmed/26893503) Phys Ther. 2016 Jul;96(7):933-9
287. Johnson K, Petti J, Olson A, Custer T. [Identifying barriers to early mobilisation among mechanically ventilated patients in a trauma intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/28743548) Intensive Crit Care Nurs. 2017 Jul 22.
288. Moyer M, Young B, Wilensky EM, Borst J, Pino W, Hart M, LoBreglio J, Zaleski D, Leonor I, Kung D, Smith M, Zager E, Grady MS, Kumar M. [Implementation of an Early Mobility Pathway in Neurointensive Care Unit Patients With External Ventricular Devices.](https://www.ncbi.nlm.nih.gov/pubmed/28230563) J Neurosci Nurs. 2017 Apr;49(2):102-107
289. Weeks A, Campbell C, Rajendram P, Shi W, Voigt L. [A Descriptive Report of Early Mobilization for Critically Ill Ventilated Patients with Cancer.](https://www.ncbi.nlm.nih.gov/pubmed/28713659) Rehabil Oncol. 2017 Jul;35(3):144-150
290. Connolly BA, Mortimore JL, Douiri A, Rose JW, Hart N, Berney SC. [Low Levels of Physical Activity During Critical Illness and Weaning: The Evidence-Reality Gap.](https://www.ncbi.nlm.nih.gov/pubmed/28675113) J Intensive Care Med. 2017 Jan 1:885066617716377
291. Curtis L, Irwin J. [Ambulation of patients who are mechanically ventilated: nurses' views.](https://www.ncbi.nlm.nih.gov/pubmed/28659082) Nurs Manag (Harrow). 2017 Jun 29;24(4):34-39
292. Grammatopoulou E, Charmpas TN, Strati EG, Nikolaos T, Evagelodimou A, Vlassia Belimpasaki, Skordilis EK. [The scope of physiotherapy services provided in public ICUs in Greece: A pilot study.](https://www.ncbi.nlm.nih.gov/pubmed/28075178) Physiother Theory Pract. 2017 Feb;33(2):138-146
293. Mathur, Sunita; Rodrigues, Nicole; Mendes, Polyana; Rozenberg, Dmitry; Singer, Lianne G., Computed Tomography–Derived Thoracic Muscle Size as an Indicator of Sarcopenia in People With Advanced Lung Disease. Cardiopulmonary Physical Therapy Journal: [July 2017 - Volume 28 - Issue 3 - p 99–105](http://journals.lww.com/cptj/pages/currenttoc.aspx)
294. Kamdar BB, Kadden DJ, Vangala S, Elashoff DA, Ong MK, Martin JL, Needham DM. [Feasibility of Continuous Actigraphy in Patients in a Medical Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/28668919) Am J Crit Care. 2017 Jul;26(4):329-335
295. Wright SE, Thomas K, Watson G, Baker C, Bryant A, Chadwick TJ, Shen J, Wood R, Wilkinson J, Mansfield L, Stafford V, Wade C, Furneval J, Henderson A, Hugill K, Howard P, Roy A, Bonner S, Baudouin S. [Intensive versus standard physical rehabilitation therapy in the critically ill (EPICC): a multicentre, parallel-group, randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28780504) Thorax. 2017 Aug 5. pii: thoraxjnl-2016-209858.
296. Dong Z, Yu B, Zhang Q, Pei H, Xing J, Fang W, Sun Y, Song Z. [Early Rehabilitation Therapy Is Beneficial for Patients With Prolonged Mechanical Ventilation After Coronary Artery Bypass Surgery.](https://www.ncbi.nlm.nih.gov/pubmed/26973269) Int Heart J. 2016;57(2):241-6. doi: 10.1536/ihj.15-316
297. Liu B, Almaawiy U, Moore JE, Chan WH, Straus SE; MOVE ON Team. [Evaluation of a multisite educational intervention to improve mobilization of older patients in hospital: protocol for mobilization of vulnerable elders in Ontario (MOVE ON).](https://www.ncbi.nlm.nih.gov/pubmed/23822563) Implement Sci. 2013 Jul 3;8:76. doi: 10.1186/1748-5908-8-76
298. Choong K, Awladthani S, Khawaji A, Clark H, Borhan A, Cheng J, Laskey S, Neu C, Sarti A, Thabane L, Timmons BW, Zheng K, Al-Harbi S; Canadian Critical Care Trials Group. [Early Exercise in Critically Ill Youth and Children, a Preliminary Evaluation: The wEECYCLE Pilot Trial.](https://www.ncbi.nlm.nih.gov/pubmed/28922268) Pediatr Crit Care Med. 2017 Sep 15. doi: 10.1097/PCC.0000000000001329
299. Sibilla A, Nydahl P, Greco N, Mungo G, Ott N, Unger I, Rezek S, Gemperle S, Needham DM, Kudchadkar SR. [Mobilization of Mechanically Ventilated Patients in Switzerland.](https://www.ncbi.nlm.nih.gov/pubmed/28847238) J Intensive Care Med. 2017 Jan 1:885066617728486.
300. Pinheiro TT, de Freitas FGR, Coimbra KTF, Mendez VMF, Rossetti HB, Talma PV, Bafi AT, Machado FR. [Short-term effects of passive mobilization on the sublingual microcirculation and on the systemic circulation in patients with septic shock.](https://www.ncbi.nlm.nih.gov/pubmed/28887766) Ann Intensive Care. 2017 Sep 8;7(1):95. doi: 10.1186/s13613-017-0318-x.
301. França EE, Ribeiro LC, Lamenha GG, Magalhães IK, Figueiredo TG, Costa MJ, Elihimas UF Júnior, Feitosa BL, Andrade MD, Correia MA Júnior, Ramos FF, Castro CM. [Oxidative stress and immune system analysis after cycle ergometer use in critical patients.](https://www.ncbi.nlm.nih.gov/pubmed/28355359) Clinics (Sao Paulo). 2017 Mar;72(3):143-149
302. Wells CL, Forrester J, Vogel J, Rector R, Tabatabai A, Herr D. [Safety and Feasibility of Early Physical Therapy for Patients on Extracorporeal Membrane Oxygenator: University of Maryland Medical Center Experience.](https://www.ncbi.nlm.nih.gov/pubmed/29053491) Crit Care Med. 2017 Oct 19. doi: 10.1097/CCM.0000000000002770.
303. Conradie E, Fourie CE, Hanekom SD. [Investigating the clinical feasibility of an adapted early mobility readiness protocol for critical ill patients: A non-randomised experimental pilot trial.](https://www.ncbi.nlm.nih.gov/pubmed/28552261) Intensive Crit Care Nurs. 2017 Oct;42:44-50
304. Betters KA, Hebbar KB, Farthing D, Griego B, Easley T, Turman H, Perrino L, Sparacino S, deAlmeida ML. [Development and implementation of an early mobility program for mechanically ventilated pediatric patients.](https://www.ncbi.nlm.nih.gov/pubmed/28821360) J Crit Care. 2017 Oct;41:303-308
305. Nickels MR, Aitken LM, Walsham J, Barnett AG, McPhail SM. [Critical Care Cycling Study (CYCLIST) trial protocol: a randomised controlled trial of usual care plus additional in-bed cycling sessions versus usual care in the critically ill.](https://www.ncbi.nlm.nih.gov/pubmed/29061618) BMJ Open. 2017 Oct 22;7(10):e017393
306. Bartolo M, Bargellesi S, Castioni CA, Intiso D, Fontana A, Copetti M, Scarponi F, Bonaiuti D; Intensive Care and Neurorehabilitation Italian Study Group. [Mobilization in early rehabilitation in intensive care unit patients with severe acquired brain injury: An observational study.](https://www.ncbi.nlm.nih.gov/pubmed/28980699) J Rehabil Med. 2017 Nov 21;49(9):715-722
307. Cunningham C, Finlayson HC, Henderson WR, O'Connor RJ, Travlos A. [Impact of Critical Illness Polyneuromyopathy in Rehabilitation: A Prospective Observational Study.](https://www.ncbi.nlm.nih.gov/pubmed/29054691) PM R. 2017 Oct 18. pii: S1934-1482(17)30079-5
308. Reiter A, Ma A, Rawat N, Shrock C, Saria S. [Process Monitoring in the Intensive Care Unit: Assessing Patient Mobility Through Activity Analysis with a Non-Invasive Mobility Sensor.](https://www.ncbi.nlm.nih.gov/pubmed/29170766) Med Image Comput Comput Assist Interv. 2016 Oct;9900:482-490
309. Hoyer EH, Young DL, Klein LM, Kreif J, Shumock K, Hiser S, Friedman M, Lavezza A, Jette A, Chan KS, Needham DM. [Toward a Common Language for Measuring Patient Mobility in the Hospital: Reliability and Construct Validity of interprofessional Mobility Measures.](https://www.ncbi.nlm.nih.gov/pubmed/29106679) Phys Ther. 2017 Nov 2. doi: 10.1093/ptj/pzx110
310. Deluzio S, Vora I, Kumble S, Zink EK, Stevens RD, Bahouth MN. [Feasibility of early, motor assisted upper extremity cycle ergometry in critically ill neurological patients with upper extremity weakness and variable cognitive status: a case series.](https://www.ncbi.nlm.nih.gov/pubmed/29095167) Am J Phys Med Rehabil. 2017 Oct 31. doi: 10.1097/PHM.0000000000000857.
311. McWilliams D, Jones C, Atkins G, Hodson J, Whitehouse T, Veenith T, Reeves E, Cooper L, Snelson C. [Earlier and enhanced rehabilitation of mechanically ventilated patients in critical care: A feasibility randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/29331668) J Crit Care. 2018 Jan 4;44:407-412
312. Wegner S, Thomas P, James C. [Hydrotherapy for the long-term ventilated patient: A case study and implications for practice.](https://www.ncbi.nlm.nih.gov/pubmed/28187904) Aust Crit Care. 2017 Nov;30(6):328-331
313. Nardelli P, Powers R, Cope TC, Rich MM. [Increasing motor neuron excitability to treat weakness in sepsis.](https://www.ncbi.nlm.nih.gov/pubmed/29171917) Ann Neurol. 2017 Dec;82(6):961-971
314. Boyd J, Paratz J, Tronstad O, Caruana L, McCormack P, Walsh J. [When is it safe to exercise mechanically ventilated patients in the intensive care unit? An evaluation of consensus recommendations in a cardiothoracic setting.](https://www.ncbi.nlm.nih.gov/pubmed/29246774) Heart Lung. 2017 Dec 12. pii: S0147-9563(17)30331-X
315. Joyce CL, Taipe C, Sobin B, Spadaro M, Gutwirth B, Elgin L, Silver G, Greenwald BM, Traube C. [Provider Beliefs Regarding Early Mobilization in the Pediatric Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/29167075) J Pediatr Nurs. 2017 Oct 14;38:15-19
316. Nydahl P, Wilkens S, Glase S, Mohr LM, Richter P, Klarmann S, Perme CS, Nawa RK (2017): [The German translation of the Perme Intensive Care Unit Mobility Score and inter-rater reliability between physiotherapists and nurses](http://www.tandfonline.com/doi/full/10.1080/21679169.2017.1401660), European Journal of Physiotherapy, DOI: 10.1080/21679169.2017.1401660
317. Kroll RR, McKenzie ED, Boyd JG, Sheth P, Howes D, Wood M, Maslove DM; WEARable Information Technology for hospital INpatients (WEARIT-IN) study group. [Use of wearable devices for post-discharge monitoring of ICU patients: a feasibility study.](https://www.ncbi.nlm.nih.gov/pubmed/29201377) J Intensive Care. 2017 Nov 21;5:64
318. Hatheway OL, Mitnitski A, Rockwood K. [Frailty affects the initial treatment response and time to recovery of mobility in acutely ill older adults admitted to hospital.](https://www.ncbi.nlm.nih.gov/pubmed/28104595) Age Ageing. 2017 Nov 1;46(6):920-925
319. Klein KE, Bena JF, Mulkey M, Albert NM. [Sustainability of a nurse-driven early progressive mobility protocol and patient clinical and psychological health outcomes and in a neurological intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/29396165) Intensive Crit Care Nurs. 2018 Jan 31.
320. Ringdal M, Warren Stomberg M, Egnell K, Wennberg E, Zätterman R, Rylander C. [In-bed cycling in the ICU; patient safety and recollections with motivational effects.](https://www.ncbi.nlm.nih.gov/pubmed/29349777) Acta Anaesthesiol Scand. 2018 Jan 18.
321. Goddard SL, Lorencatto F, Koo E, Rose L, Fan E, Kho ME, Needham DM, Rubenfeld GD, Francis JJ, Cuthbertson BH. [Barriers and facilitators to early rehabilitation in mechanically ventilated patients-a theory-driven interview study.](https://www.ncbi.nlm.nih.gov/pubmed/29403646) J Intensive Care. 2018 Jan 23;6:4
322. Miura S, Wieczorek B, Lenker H, Kudchadkar SR; PICU Up! Early Mobilization Task Force. [Normal Baseline Function Is Associated With Delayed Rehabilitation in Critically Ill Children.](https://www.ncbi.nlm.nih.gov/pubmed/29357778) J Intensive Care Med. 2018 Jan 1:885066618754507
323. Yelnik AP, Quintaine V, Andriantsifanetra C, Wannepain M, Reiner P, Marnef H, Evrard M, Meseguer E, Devailly JP, Lozano M, Lamy C, Colle F, Vicaut E; AMOBES Group. [AMOBES (Active Mobility Very Early After Stroke): A Randomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/28008092) Stroke. 2017 Feb;48(2):400-405
324. Connolly B, Maddocks M, MacBean V, Bernal W, Hart N, Hopkins P, Rafferty GF. [Non-volitional assessment of tibialis anterior force and architecture during critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/29266337) Muscle Nerve. 2017 Dec 20.
325. Liu K, Ogura T, Takahashi K, Nakamura M, Ohtake H, Fujiduka K, Abe E, Oosaki H, Miyazaki D, Suzuki H, Nishikimi M, Lefor AK, Mato T. [The safety of a novel early mobilization protocol conducted by ICU physicians: a prospective observational study.](https://www.ncbi.nlm.nih.gov/pubmed/29484188) J Intensive Care. 2018 Feb 20;6:10
326. Baldwin CE, Johnston KN, Rowlands AV, Williams MT. [Physical Activity of ICU Survivors during Acute Admission: Agreement of the activPAL with Observation.](https://www.ncbi.nlm.nih.gov/pubmed/29434419) Physiother Can. 2018;70(1):57-63
327. Shears et al. Assessing frailty in the intensive care unit: A reliability and validity study. DOI: <https://doi.org/10.1016/j.jcrc.2018.02.004>
328. Choong K, Fraser D, Al-Harbi S, Borham A, Cameron J, Cameron S, Cheng J, Clark H, Doherty T, Fayed N, Gorter JW, Herridge M, Khetani M, Menon K, Seabrook J, Simpson R, Thabane L. [Functional Recovery in Critically Ill Children, the "WeeCover" Multicenter Study.](https://www.ncbi.nlm.nih.gov/pubmed/29394221) Pediatr Crit Care Med. 2018 Feb;19(2):145-154
329. Sawada Y, Sasabuchi Y, Nakahara Y, Matsui H, Fushimi K, Haga N, Yasunaga H. [Early Rehabilitation and In-Hospital Mortality in Intensive Care Patients With Community-Acquired Pneumonia.](https://www.ncbi.nlm.nih.gov/pubmed/29496765) Am J Crit Care. 2018 Mar;27(2):97-103.
330. Bartolo M, Bargellesi S, Castioni CA, Intiso D, Fontana A, Copetti M, Scarponi F, Bonaiuti D; Intensive Care and Neurorehabilitation Italian Study Group. [Mobilization in early rehabilitation in intensive care unit patients with severe acquired brain injury: An observational study.](https://www.ncbi.nlm.nih.gov/pubmed/28980699) J Rehabil Med. 2017 Nov 21;49(9):715-722
331. Bahouth MN, Power MC, Zink EK, Kozeniewski K, Kumble S, Deluzio S, Urrutia VC, Stevens RD. [Safety and feasibility of a neuroscience critical care program to mobilize patients with primary intracerebral hemorrhage.](https://www.ncbi.nlm.nih.gov/pubmed/29580936) Arch Phys Med Rehabil. 2018 Mar 23
332. Katijjahbe MA, Granger CL, Denehy L, Royse A, Royse C, Bates R, Logie S, Nur Ayub MA, Clarke S, El-Ansary D. [Standard restrictive sternal precautions and modified sternal precautions had similar effects in people after cardiac surgery via median sternotomy ('SMART' Trial): a randomised trial.](https://www.ncbi.nlm.nih.gov/pubmed/29602750) J Physiother. 2018 Mar 27. pii: S1836-9553(18)30020-1
333. Chan KS, Mourtzakis M, Aronson Friedman L, Dinglas VD, Hough CL, Ely EW, Morris PE, Hopkins RO, Needham DM; with the National Institutes of Health NHLBI ARDS Network. [Upper arm anthropometrics versus DXA scan in survivors of acute respiratory distress syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/29483623) Eur J Clin Nutr. 2018 Apr;72(4):613-617
334. Hayes K, Hodgson CL, Pellegrino VA, Snell G, Tarrant B, Fuller LM, Holland AE. [Physical Function in Subjects Requiring Extracorporeal Membrane Oxygenation Before or After Lung Transplantation.](https://www.ncbi.nlm.nih.gov/pubmed/29089461) Respir Care. 2018 Feb;63(2):194-202
335. Silveira LTYD, Silva JMD, Soler JMP, Sun CYL, Tanaka C, Fu C. [Assessing functional status after intensive care unit stay: the Barthel Index and the Katz Index.](https://www.ncbi.nlm.nih.gov/pubmed/29385454) Int J Qual Health Care. 2018 Jan 27.
336. Ferrante LE, Pisani MA, Murphy TE, Gahbauer EA, Leo-Summers LS, Gill TM. [The Association of Frailty with Post-ICU Disability, Nursing Home Admission, and Mortality: a Longitudinal Study.](https://www.ncbi.nlm.nih.gov/pubmed/29559308) Chest. 2018 Mar 17.
337. Medrinal C, Combret Y, Prieur G, Robledo Quesada A, Bonnevie T, Gravier FE, Dupuis Lozeron E, Frenoy E, Contal O, Lamia B. [Comparison of exercise intensity during four early rehabilitation techniques in sedated and ventilated patients in ICU: a randomised cross-over trial.](https://www.ncbi.nlm.nih.gov/pubmed/29703223) Crit Care. 2018 Apr 27;22(1):110
338. Battle C et al. [Supervised exercise rehabilitation in survivors of critical illness: A randomised controlled trial](http://journals.sagepub.com/doi/abs/10.1177/1751143718767061). JICS 2018
339. Sarfati C, Moore A, Pilorge C, Amaru P, Mendialdua P, Rodet E, Stéphan F, Rezaiguia-Delclaux S. [Efficacy of early passive tilting in minimizing ICU-acquired weakness: A randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/29660670) J Crit Care. 2018 Apr 5;46:37-43
340. Sosnowski K, Mitchell ML, White H, Morrison L, Sutton J, Sharratt J, Lin F. [A feasibility study of a randomised controlled trial to examine the impact of the ABCDE bundle on quality of life in ICU survivors.](https://www.ncbi.nlm.nih.gov/pubmed/29372070) Pilot Feasibility Stud. 2018 Jan 11;4:32
341. Mendes RMG, Nunes ML, Pinho JA, Gonçalves RBR. [Organization of rehabilitation care in Portuguese intensive care units.](https://www.ncbi.nlm.nih.gov/pubmed/29742218) Rev Bras Ter Intensiva. 2018 Mar;30(1):57-63
342. Rebel A, Marzano V, Green M, Johnston K, Wang J, Neeman T, Mitchell I, Bissett B. [Mobilisation is feasible in intensive care patients receiving vasoactive therapy: An observational study.](https://www.ncbi.nlm.nih.gov/pubmed/29703636) Aust Crit Care. 2018 Apr 24
343. Rebel A, Marzano V, Green M, Johnston K, Wang J, Neeman T, Mitchell I, Bissett B. [Mobilisation is feasible in intensive care patients receiving vasoactive therapy: An observational study.](https://www.ncbi.nlm.nih.gov/pubmed/29703636) Aust Crit Care. 2018 Apr 24
344. Shah SO, Kraft J, Ankam N, Bu P, Stout K, Melnyk S, Rincon F, Athar MK. [Early Ambulation in Patients With External Ventricular Drains: Results of a Quality Improvement Project.](https://www.ncbi.nlm.nih.gov/pubmed/29747562) J Intensive Care Med. 2018 Jun;33(6):370-374
345. Colwell BRL, Williams CN, Kelly SP, Ibsen LM. [Mobilization Therapy in the Pediatric Intensive Care Unit: A Multidisciplinary Quality Improvement Initiative.](https://www.ncbi.nlm.nih.gov/pubmed/29716905) Am J Crit Care. 2018 May;27(3):194-203
346. Shudo Y, Kasinpila P, Lee AM, Rao VK, Woo YJ. [Ambulating femoral venoarterial extracorporeal membrane oxygenation bridge to heart-lung transplant.](https://www.ncbi.nlm.nih.gov/pubmed/29628344) J Thorac Cardiovasc Surg. 2018 Mar 8
347. Young DL, Seltzer J, Glover M, Outten C, Lavezza A, Mantheiy E, Parker AM, Needham DM. [Identifying Barriers to Nurse-Facilitated Patient Mobility in the Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/29716904) Am J Crit Care. 2018 May;27(3):186-193
348. Brock C, Marzano V, Green M, Wang J, Neeman T, Mitchell I, Bissett B. [Defining new barriers to mobilisation in a highly active intensive care unit - have we found the ceiling? An observational study.](https://www.ncbi.nlm.nih.gov/pubmed/29748138) Heart Lung. 2018 May 7
349. Goldfarb M, Afilalo J, Chan A, Herscovici R, Cercek B. [Early mobility in frail and non-frail older adults admitted to the cardiovascular intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/29879568) J Crit Care. 2018 May 30;47:9-14
350. Freeman R, Koerner E. [Instituting a Standardized Mobility Aid in the Cardiovascular Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/29851678) Crit Care Nurs Q. 2018 Jul/Sep;41(3):289-296
351. Ann Adamczyk M. [Reducing Intensive Care Unit Staff Musculoskeletal Injuries With Implementation of a Safe Patient Handling and Mobility Program.](https://www.ncbi.nlm.nih.gov/pubmed/29851675) Crit Care Nurs Q. 2018 Jul/Sep;41(3):264-271
352. Van Damme D, Flori H, Owens T. [Development of Medical Criteria for Mobilizing a Pediatric Patient in the PICU.](https://www.ncbi.nlm.nih.gov/pubmed/29851683) Crit Care Nurs Q. 2018 Jul/Sep;41(3):323-329
353. Bruce R, Forry C. [Integrating a Mobility Champion in the Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/29847431) Dimens Crit Care Nurs. 2018 Jul/Aug;37(4):201-209
354. Connolly B, Allum L, Shaw M, Pattison N, Dark P. [Characterising the research profile of the critical care physiotherapy workforce and engagement with critical care research: a UK national survey.](https://www.ncbi.nlm.nih.gov/pubmed/29866725) BMJ Open. 2018 Jun 4;8(6):e020350
355. Looijaard WGPM, Molinger J, Weijs PJM. [Measuring and monitoring lean body mass in critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/29847342) Curr Opin Crit Care. 2018 May 29. doi: 10.1097/MCC.0000000000000511.
356. Wang S, Hammes J, Khan S, Gao S, Harrawood A, Martinez S, Moser L, Perkins A, Unverzagt FW, Clark DO, Boustani M, Khan B. [Improving Recovery and Outcomes Every Day after the ICU (IMPROVE): study protocol for a randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/29580264) Trials. 2018 Mar 27;19(1):196
357. Connolly B, Denehy L, Hart N, Pattison N, Williamson P, Blackwood B. [Physical Rehabilitation Core Outcomes In Critical illness (PRACTICE): protocol for development of a core outcome set.](https://www.ncbi.nlm.nih.gov/pubmed/29801508) Trials. 2018 May 25;19(1):294
358. Hickmann CE, Castanares-Zapatero D, Deldicque L, Van den Bergh P, Caty G, Robert A, Roeseler J, Francaux M, Laterre PF. [Impact of Very Early Physical Therapy During Septic Shock on Skeletal Muscle: A Randomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29957714) Crit Care Med. 2018 Jun 27
359. Winkelman C, Sattar A, Momotaz H, Johnson KD, Morris P, Rowbottom JR, Thornton JD, Feeney S, Levine A. [Dose of Early Therapeutic Mobility: Does Frequency or Intensity Matter?](https://www.ncbi.nlm.nih.gov/pubmed/29902939) Biol Res Nurs. 2018 Jan 1:1099800418780492
360. Klein LM, Young D, Feng D, Lavezza A, Hiser S, Daley KN, Hoyer EH. [Increasing patient mobility through an individualized goal-centered hospital mobility program: A quasi-experimental quality improvement project.](https://www.ncbi.nlm.nih.gov/pubmed/29705382) Nurs Outlook. 2018 May - Jun;66(3):254-262
361. Fossat G, Baudin F, Courtes L, Bobet S, Dupont A, Bretagnol A, Benzekri-Lefèvre D, Kamel T, Muller G, Bercault N, Barbier F, Runge I, Nay MA, Skarzynski M, Mathonnet A, Boulain T. [Effect of In-Bed Leg Cycling and Electrical Stimulation of the Quadriceps on Global Muscle Strength in Critically Ill Adults: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30043066) JAMA. 2018 Jul 24;320(4):368-378
362. Freeman R, Koerner E. [Instituting a Standardized Mobility Aid in the Cardiovascular Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/29851678) Crit Care Nurs Q. 2018 Jul/Sep;41(3):289-296
363. Rickelmann C, Knoblauch DJ. [Incorporating Safe Patient-Handling Techniques to Mobilize Our Most Complex Patients on Extra Corporeal Membrane Oxygenation.](https://www.ncbi.nlm.nih.gov/pubmed/29851676) Crit Care Nurs Q. 2018 Jul/Sep;41(3):272-281
364. Lee C, Knight SW, Smith SL, Nagle DJ, DeVries L. [Safe Patient Handling and Mobility: Development and Implementation of a Large-Scale Education Program.](https://www.ncbi.nlm.nih.gov/pubmed/29851674) Crit Care Nurs Q. 2018 Jul/Sep;41(3):253-263
365. Capell EL, Tipping CJ, Hodgson CL. [Barriers to implementing expert safety recommendations for early mobilisation in intensive care unit during mechanical ventilation: A prospective observational study.](https://www.ncbi.nlm.nih.gov/pubmed/30001954) Aust Crit Care. 2018 Jul 10. pii: S1036-7314(18)30006-7
366. Fontela PC, Forgiarini LA Jr, Friedman G. [Clinical attitudes and perceived barriers to early mobilization of critically ill patients in adult intensive care units.](https://www.ncbi.nlm.nih.gov/pubmed/29995084) Rev Bras Ter Intensiva. 2018 Apr-Jun;30(2):187-194
367. Boehm LM, Vasilevskis EE, Dietrich MS, Wells N, Ely EW, Pandharipande P, Mion LC. [Organizational Domains and Variation in Attitudes of Intensive Care Providers Toward the ABCDE Bundle.](https://www.ncbi.nlm.nih.gov/pubmed/28461551) Am J Crit Care. 2017 May;26(3):e18-e28
368. Berney SC, Rose JW, Denehy L, Granger CL, Ntoumenopoulos G, Crothers E, Steel B, Clarke S, Skinner EH. [Commencing out of bed rehabilitation in critical care - what influences clinical decision-making?](https://www.ncbi.nlm.nih.gov/pubmed/30172644) Arch Phys Med Rehabil. 2018 Aug 30.
369. Johnson JK, Lohse B, Bento HA, Noren CS, Marcus RL, Tonna JE. [Improving Outcomes for Critically Ill Cardiovascular Patients through Increased Physical Therapy Staffing.](https://www.ncbi.nlm.nih.gov/pubmed/30172645) Arch Phys Med Rehabil. 2018 Aug 30
370. Sommers J, van den Boorn M, Engelbert RHH, Nollet F, van der Schaaf M, Horn J. [Feasibility of muscle activity assessment with surface electromyography during bed cycling exercise in ICU patients.](https://www.ncbi.nlm.nih.gov/pubmed/30160070) Muscle Nerve. 2018 Aug 30
371. McGowan T, Ong T, Kumar A, Lunt E, Sahota O. [The effect of chair-based pedal exercises for older people admitted to an acute hospital compared to standard care: a feasibility study.](https://www.ncbi.nlm.nih.gov/pubmed/29506208) Age Ageing. 2018 May 1;47(3):483-486
372. Gustafson OD, Rowland MJ, Watkinson PJ, McKechnie S, Igo S. [Shoulder Impairment Following Critical Illness: A Prospective Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/30095496) Crit Care Med. 2018 Aug 7
373. Bohannon RW, Wang YC. [Four-meter Gait Speed: Normative Values and Reliability Determined for Adults Participating in the NIH Toolbox Study.](https://www.ncbi.nlm.nih.gov/pubmed/30092204) Arch Phys Med Rehabil. 2018 Aug 6.
374. Gaspari, Clara H.; Lafayette, Sabrina; Jaccoud, Anna Carolina; Kurtz, Pedro; Lavradas, Luiz A. Jr; Cavalcanti, Daniel D. Safety and Feasibility of Out-of-Bed Mobilization for Patients With External Ventricular Drains in a Neurosurgical Intensive Care Unit. Journal of Acute Care Physical Therapy : [October 2018 - Volume 9 - Issue 4 - p 171–178](https://journals.lww.com/jacpt/pages/currenttoc.aspx)
375. Wang TH, Wu CP, Wang LY. [Chest Physiotherapy with Early Mobilization may Improve Extubation Outcome in Critically Ill Patients in the Intensive Care Units.](https://www.ncbi.nlm.nih.gov/pubmed/30264933)Clin Respir J. 2018 Sep 28.
376. Felten-Barentsz KM, van Oorsouw R, Haans AJC, Staal JB, van der Hoeven JG, Nijhuis-van der Sanden MGW. [Patient views regarding the impact of hydrotherapy on critically ill ventilated patients: A qualitative exploration study.](https://www.ncbi.nlm.nih.gov/pubmed/30286401) J Crit Care. 2018 Sep 22;48:321-327
377. Hiser, Stephanie; Toonstra, Amy; Friedman, Lisa Aronson; Colantuoni, Elizabeth; Connolly, Bronwen; Needham, Dale M. Interrater Reliability of the Functional Status Score for the Intensive Care Unit. Journal of Acute Care Physical Therapy : [October 2018 - Volume 9 - Issue 4 - p 186–192](https://journals.lww.com/jacpt/pages/currenttoc.aspx)
378. Al-Nassan S, Alshammari F, Al-Bostanji S, Modhi Mansour Z, Hawamdeh M. [Physical therapy practice in intensive care units in Jordanian hospitals: A national survey.](https://www.ncbi.nlm.nih.gov/pubmed/30230143) Physiother Res Int. 2018 Sep 19:e1749
379. Goodson CM, Friedman LA, Mantheiy E, Heckle K, Lavezza A, Toonstra A, Parker AM, Seltzer J, Velaetis M, Glover M, Outten C, Schwartz K, Jones A, Coggins S, Hoyer EH, Chan KS, Needham DM. [Perceived Barriers to Mobility in a Medical ICU: The Patient Mobilization Attitudes & Beliefs Survey for the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/30336716) J Intensive Care Med. 2018 Oct 18:885066618807120  
     Survey is freely available for use; obtain copy of survey from:  [bit.ly/icurehabsol](http://bit.ly/icurehabsol)
380. Ahn JY, Song JE, Ann HW, Jeon Y, Ahn MY, Jung IY, Kim MH, Jeong W, Jeong SJ, Ku NS, Kim JM, Na S, Cho SR, Choi JY. [Effects of Early Exercise Rehabilitation on Functional Recovery in Patients with Severe Sepsis.](https://www.ncbi.nlm.nih.gov/pubmed/30091317) Yonsei Med J. 2018 Sep;59(7):843-851.
381. Tipping CJ, Holland AE, Harrold M, Crawford T, Halliburton N, Hodgson CL. [The minimal important difference of the ICU mobility scale.](https://www.ncbi.nlm.nih.gov/pubmed/30139509) Heart Lung. 2018 Sep - Oct;47(5):497-501
382. Fontela PC, Lisboa TC, Forgiarini-Júnior LA, Friedman G. [Early mobilization practices of mechanically ventilated patients: a 1-day point-prevalence study in southern Brazil.](https://www.ncbi.nlm.nih.gov/pubmed/30379221) Clinics (Sao Paulo). 2018 Oct 29;73:e241
383. Sommers J, Klooster E, Zoethout SB, van den Oever HLA, Nollet F, Tepaske R, Horn J, Engelbert RHH, van der Schaaf M. [Feasibility of Exercise Testing in Patients Who Are Critically Ill: A Prospective, Observational Multicenter Study.](https://www.ncbi.nlm.nih.gov/pubmed/30142315) Arch Phys Med Rehabil. 2018 Aug 22. pii: S0003-9993(18)30937-7
384. Burch D, Bernert S, Fraser JF. [Increased physician and physical therapist communication is associated with earlier mobility and decreased length of stay in the cerebrovascular and trauma neuroscience population.](https://www.ncbi.nlm.nih.gov/pubmed/30040766) NeuroRehabilitation. 2018;43(2):195-199
385. Vitacca M, Kaymaz D, Lanini B, Vagheggini G, Ergün P, Gigliotti F, Ambrosino N, Paneroni M. [Non-invasive ventilation during cycle exercise training in patients with chronic respiratory failure on long-term ventilatory support: A randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28940820) Respirology. 2018 Feb;23(2):182-189
386. Pun BT, Balas MC, Barnes-Daly MA, Thompson JL, Aldrich JM, Barr J, Byrum D, Carson SS, Devlin JW, Engel HJ, Esbrook CL, Hargett KD, Harmon L, Hielsberg C, Jackson JC, Kelly TL, Kumar V, Millner L, Morse A, Perme CS, Posa PJ, Puntillo KA, Schweickert WD, Stollings JL, Tan A, D'Agostino McGowan L, Ely EW. [Caring for Critically Ill Patients with the ABCDEF Bundle: Results of the ICU Liberation Collaborative in Over 15,000 Adults.](https://www.ncbi.nlm.nih.gov/pubmed/30339549) Crit Care Med. 2018 Oct 18
387. Eggmann S, Verra ML, Luder G, Takala J, Jakob SM. [Effects of early, combined endurance and resistance training in mechanically ventilated, critically ill patients: A randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/30427933) PLoS One. 2018 Nov 14;13(11):e0207428
388. Goodson CM, Friedman LA, Mantheiy E, Heckle K, Lavezza A, Toonstra A, Parker AM, Seltzer J, Velaetis M, Glover M, Outten C, Schwartz K, Jones A, Coggins S, Hoyer EH, Chan KS, Needham DM. [Perceived Barriers to Mobility in a Medical ICU: The Patient Mobilization Attitudes & Beliefs Survey for the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/30336716) J Intensive Care Med. 2018 Oct 18:885066618807120
389. Riberholt CG, Lindschou J, Gluud C, Mehlsen J, Møller K. [Early mobilisation by head-up tilt with stepping versus standard care after severe traumatic brain injury - Protocol for a randomised clinical feasibility trial.](https://www.ncbi.nlm.nih.gov/pubmed/30409170) Trials. 2018 Nov 8;19(1):612
390. Chohan S, Ash S, Senior L. [A team approach to the introduction of safe early mobilisation in an adult critical care unit.](https://www.ncbi.nlm.nih.gov/pubmed/30515467) BMJ Open Qual. 2018 Nov 10;7(4):e000339
391. Paul Twose, Una Jones, Gareth Cornell. Minimum standards of clinical practice for physiotherapists working in critical care settings in United Kingdom: A modified Delphi technique. [https://doi.org/10.1177/1751143718807019](https://doi.org/10.1177%2F1751143718807019)
392. Yataco RA, Arnold SM, Brown SM, David Freeman W, Carmen Cononie C, Heckman MG, Partridge LW, Stucky CM, Mellon LN, Birst JL, Daron KL, Zapata-Cooper MH, Schudlich DM. [Early Progressive Mobilization of Patients with External Ventricular Drains: Safety and Feasibility.](https://www.ncbi.nlm.nih.gov/pubmed/30357597) Neurocrit Care. 2018 Oct 24
393. Pasrija C, Mackowick KM, Raithel M, Tran D, Boulos FM, Deatrick KB, Mazzeffi MA, Rector R, Pham SM, Griffith BP, Kon ZN. [Ambulation with Femoral Arterial Cannulation Can be Safely Performed on Veno-Arterial Extracorporeal Membrane Oxygenation.](https://www.ncbi.nlm.nih.gov/pubmed/30508528) Ann Thorac Surg. 2018 Nov 30
394. Kim C, Kim S, Yang J, Choi M. [Nurses' perceived barriers and educational needs for early mobilisation of critical ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/30591311) Aust Crit Care. 2018 Dec 24.
395. Schaller SJ, Scheffenbichler FT, Bose S, Mazwi N, Deng H, Krebs F, Seifert CL, Kasotakis G, Grabitz SD, Latronico N, Houle T, Blobner M, Eikermann M. I[nfluence of the initial level of consciousness on early, goal-directed mobilization: a post hoc analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30666366) Intensive Care Med. 2019 Feb;45(2):201-210
396. Ragland C, Ochoa L, Hartjes T. [Early mobilisation in intensive care during renal replacement therapy: A quality improvement project.](https://www.ncbi.nlm.nih.gov/pubmed/30642773) Intensive Crit Care Nurs. 2019 Jan 11
397. Polastri M, Oldani S, Pisani L, Nava S. [Elastic Band Exercises for Patients with Intensive Care Unit-Acquired Weakness: A Case Report.](https://www.ncbi.nlm.nih.gov/pubmed/30627186) Tanaffos. 2018 Feb;17(2):132-137
398. Johnson JK, Lohse B, Bento HA, Noren CS, Marcus RL, Tonna JE. [Improving Outcomes for Critically Ill Cardiovascular Patients Through Increased Physical Therapy Staffing.](https://www.ncbi.nlm.nih.gov/pubmed/30172645) Arch Phys Med Rehabil. 2019 Feb;100(2):270-277
399. Anekwe DE, Koo KK, de Marchie M, Goldberg P, Jayaraman D, Spahija J. [Interprofessional Survey of Perceived Barriers and Facilitators to Early Mobilization of Critically Ill Patients in Montreal, Canada.](https://www.ncbi.nlm.nih.gov/pubmed/28355933) J Intensive Care Med. 2017
400. Wilches Luna EC, Hernández NL, Siriani de Oliveira A, Kenji Nawa R, Perme C, Gastaldi AC. [Perme ICU Mobility Score (Perme Score) and the ICU Mobility Scale (IMS): translation and cultural adaptation for the Spanish language.](https://www.ncbi.nlm.nih.gov/pubmed/30700919) Colomb Med (Cali). 2018 Dec 30;49(4):265-272
401. Reid JC, Clarke F, Cook DJ, Molloy A, Rudkowski JC, Stratford P, Kho ME. [Feasibility, Reliability, Responsiveness, and Validity of the Patient-Reported Functional Scale for the Intensive Care Unit: A Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/30669936) J Intensive Care Med. 2019 Jan 22
402. Berry MJ, Love NJ, Files DC, Bakhru RN, Morris PE. [The relationship between self-report and performance-based measures of physical function following an ICU stay.](https://www.ncbi.nlm.nih.gov/pubmed/30690430) J Crit Care. 2019 Jan 21;51:19-23
403. Kho ME, Molloy AJ, Clarke F, Herridge MS, Koo KK, Rudkowski J, Seely AJ, Pellizzari JR, Tarride JE, Mourtzakis M, Karachi T, Cook DJ; Canadian Critical Care Trials Group. [CYCLE pilot: a protocol for a pilot randomised study of early cycle ergometry versus routine physiotherapy in mechanically ventilated patients.](https://www.ncbi.nlm.nih.gov/pubmed/27059469) BMJ Open. 2016 Apr 8;6(4):e011659
404. Chou W, Lai CC, Cheng KC, Yuan KS, Chen CM, Cheng AC. [Effectiveness of early rehabilitation on patients with chronic obstructive lung disease and acute respiratory failure in intensive care units: A case-control study.](https://www.ncbi.nlm.nih.gov/pubmed/30789023) Chron Respir Dis. 2019 Jan-Dec;16:1479973118820310
405. Stolldorf DP, Dietrich MS, Chidume T, McIntosh M, Maxwell CA. [Nurse-Initiated Mobilization Practices in 2 Community Intensive Care Units: A Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/30273218) Dimens Crit Care Nurs. 2018 Nov/Dec;37(6):318-323
406. Chiarici A, Serpilli O, Andreolini M, Tedesco S, Pomponio G, Gallo MM, Martini C, Papa R, Coccia M, Ceravolo MG, Andrenelli E. [An Early Tailored Approach Is The Key To Effective Rehabilitation In The Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/30796918) Arch Phys Med Rehabil. 2019 Feb 20
407. Bissett BM PhD, Wang J MSc, Neeman T PhD, Leditschke IA MBBS, Boots R PhD, Paratz J PhD. [Which ICU patients benefit most from inspiratory muscle training? Retrospective analysis of a randomized trial.](https://www.ncbi.nlm.nih.gov/pubmed/30739584) Physiother Theory Pract. 2019 Feb 9:1-6
408. Tsuboi N, Hiratsuka M, Kaneko S, Nishimura N, Nakagawa S, Kasahara M, Kamikubo T. [Benefits of Early Mobilization After Pediatric Liver Transplantation.](https://www.ncbi.nlm.nih.gov/pubmed/30489487) Pediatr Crit Care Med. 2019 Feb;20(2):e91-e97
409. Laerkner E, Egerod I, Olesen F, Toft P, Hansen HP. [Negotiated mobilisation: An ethnographic exploration of nurse-patient interactions in an intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/30791156) J Clin Nurs. 2019 Feb 21. doi: 10.1111/jocn.14828
410. Mortensen CB, Kjær MN, Egerod I. [Caring for non-sedated mechanically ventilated patients in ICU: A qualitative study comparing perspectives of expert and competent nurses.](https://www.ncbi.nlm.nih.gov/pubmed/30737100) Intensive Crit Care Nurs. 2019 Feb 5. pii: S0964-3397(18)30104-6
411. Falk AC, Schandl A, Frank C. [Barriers in achieving patient participation in the critical care unit.](https://www.ncbi.nlm.nih.gov/pubmed/30600141) Intensive Crit Care Nurs. 2019 Apr;51:15-19
412. Hamilton AC, Lee N, Stilphen M, Hu B, Schramm S, Frost F, Fox J, Rothberg MB. [Increasing Mobility via In-hospital Ambulation Protocol Delivered by Mobility Technicians: A Pilot Randomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30794143) J Hosp Med. 2019 Feb 20;14:E1-E6.
413. Cohen Y, Zisberg A, Chayat Y, Gur-Yaish N, Gil E, Levin C, Rand D, Agmon M. [Walking for better outcomes and recovery: The effect of WALK-FOR in preventing hospital-associated functional decline among older adults.](https://www.ncbi.nlm.nih.gov/pubmed/30726886) J Gerontol A Biol Sci Med Sci. 2019 Feb 6
414. Tong Y, Cheng Z, Rajah GB, Duan H, Cai L, Zhang N, Du H, Geng X, Ding Y. [High Intensity Physical Rehabilitation Later Than 24 h Post Stroke Is Beneficial in Patients: A Pilot Randomized Controlled Trial (RCT) Study in Mild to Moderate Ischemic Stroke.](https://www.ncbi.nlm.nih.gov/pubmed/30837938) Front Neurol. 2019 Feb 19;10:113
415. Anderson JL, Yoward LS, Green AJ. [A study investigating the validity of an accelerometer in quantification of step count in adult hospital inpatients recovering from critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/30764647) Clin Rehabil. 2019 Feb 14:269215519829893.
416. González-Seguel F, Camus-Molina A, Leppe J, Hidalgo-Cabalín V, Gutiérrez-Panchana T, Needham DM, Guimarães FS. [Chilean version of the Functional Status Score for the Intensive Care Unit: a translation and cross-cultural adaptation.](https://www.ncbi.nlm.nih.gov/pubmed/30816880) Medwave. 2019 Jan 7;19(1):e7470
417. Wu H, Chen M, Li X, Yang J, Chen Y, Xiao X, Quan M. [[Effect of progressive early bed exercise on blood flow in lower limb of patients on mechanical ventilation in intensive care unit].](https://www.ncbi.nlm.nih.gov/pubmed/30439316) (Chinese) Zhonghua Wei Zhong Bing Ji Jiu Yi Xue. 2018 Oct;30(10):953-958
418. Hsieh HC. [Use of a Gaming Platform for Balance Training After a Stroke: A Randomized Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30468730) Arch Phys Med Rehabil. 2019 Apr;100(4):591-597
419. Yeung et al. A computer vision system for deep learning-based detection of patient mobilization activities in the ICU. *npj Digital Medicine* **volume 2**, Article number: 11 (2019) 2:11 ; https://doi.org/10.1038/s41746-019-0087-z
420. Mattioli E, Tabuzo B Jr, Sangkachand P, Parkosewich J, Reyes L, Funk M. [Safety and Patients' Response to Ambulation With a Pulmonary Artery Catheter in the Cardiac Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/30824513) Am J Crit Care. 2019 Mar;28(2):101-108
421. Shinoda T, Nishihara H, Shimogai T, Ito T, Takimoto R, Seo R, Kanai M, Izawa KP, Iwata K. [Relationship between Ventilator-Associated Events and Timing of Rehabilitation in Subjects with Emergency Tracheal Intubation at Early Mobilization Facility.](https://www.ncbi.nlm.nih.gov/pubmed/30562993) Int J Environ Res Public Health. 2018 Dec 17;15(12)
422. Lin F, Phelan S, Chaboyer W, Mitchell M. [Early mobilisation of ventilated patients in the intensive care unit: A survey of critical care clinicians in an Australian tertiary hospital.](https://www.ncbi.nlm.nih.gov/pubmed/30935789) Aust Crit Care. 2019 Mar 29
423. Colwell BRL, Olufs E, Zuckerman K, Kelly SP, Ibsen LM, Williams CN. [PICU Early Mobilization and Impact on Parent Stress.](https://www.ncbi.nlm.nih.gov/pubmed/30914449) Hosp Pediatr. 2019 Apr;9(4):265-272
424. Gluck S, Summers MJ, Finnis ME, Andrawos A, Goddard TP, Hodgson CL, Iwashyna TJ, Deane AM. [An observational study investigating the use of patient-owned technology to quantify physical activity in survivors of critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/30879879) Aust Crit Care. 2019 Mar 14.
425. Lai CC, Chou W, Cheng AC, Chao CM, Cheng KC, Ho CH, Chen CM. [The effect of early cardiopulmonary rehabilitation on the outcomes of intensive care unit survivors.](https://www.ncbi.nlm.nih.gov/pubmed/30882694) Medicine (Baltimore). 2019 Mar;98(11):e14877
426. Lin F, Phelan S, Chaboyer W, Mitchell M. [Early mobilisation of ventilated patients in the intensive care unit: A survey of critical care clinicians in an Australian tertiary hospital.](https://www.ncbi.nlm.nih.gov/pubmed/30935789) Aust Crit Care. 2019 Mar 29.
427. Çakmak A, İnce Dİ, Sağlam M, Savcı S, Yağlı NV, Kütükcü EÇ, Özel CB, Ulu HS, Arıkan H. [Physiotherapy and Rehabilitation Implementation in Intensive Care Units: A Survey Study.](https://www.ncbi.nlm.nih.gov/pubmed/30958983) Turk Thorac J. 2019 Jan 31;20(2):114-119
428. Treble-Barna A, Beers SR, Houtrow AJ, Ortiz-Aguayo R, Valenta C, Stanger M, Chrisman M, Orringer M, Smith CM, Pollon D, Duffett M, Choong K, Watson RS, Kochanek PM, Fink EL; PICU-Rehabilitation Study Group, Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) Network, and Prevalence of Acute critical Neurological disease in children: A Global Epidemiological Assessment (PANGEA) Investigators. [PICU-Based Rehabilitation and Outcomes Assessment: A Survey of Pediatric Critical Care Physicians.](https://www.ncbi.nlm.nih.gov/pubmed/30946294) Pediatr Crit Care Med. 2019 Apr 3
429. Brown RT, Diaz-Ramirez LG, Boscardin WJ, Lee SJ, Williams BA, Steinman MA. [Association of Functional Impairment in Middle Age With Hospitalization, Nursing Home Admission, and Death.](https://www.ncbi.nlm.nih.gov/pubmed/30958504) JAMA Intern Med. 2019 Apr 8
430. Ozcan Kahraman B, Ozsoy I, Kahraman T, Tanriverdi A, Acar S, Ozpelit E, Akdeniz B, Hiser S, Guimaraes FS, Needham DM, Savci S. [Turkish translation, cross-cultural adaptation, and assessment of psychometric properties of the Functional Status Score for the Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/31020855) Disabil Rehabil. 2019 Apr 25:1-6
431. Wollersheim T, Grunow JJ, Carbon NM, Haas K, Malleike J, Ramme SF, Schneider J, Spies CD, Märdian S, Mai K, Spuler S, Fielitz J, Weber-Carstens S. [Muscle wasting and function after muscle activation and early protocol-based physiotherapy: an explorative trial.](https://www.ncbi.nlm.nih.gov/pubmed/31016887) J Cachexia Sarcopenia Muscle. 2019 Apr 23
432. Veldema J, Bösl K, Kugler P, Ponfick M, Gdynia HJ, Nowak DA. [Cycle ergometer training vs resistance training in ICU-acquired weakness.](https://www.ncbi.nlm.nih.gov/pubmed/30977897) Acta Neurol Scand. 2019 Jul;140(1):62-71
433. Nydahl P, Günther U, Diers A, Hesse S, Kerschensteiner C, Klarmann S, Borzikowsky C, Köpke S. [PROtocol-based MObilizaTION on intensive care units: stepped-wedge, cluster-randomized pilot study (Pro-Motion).](https://www.ncbi.nlm.nih.gov/pubmed/31125163) Nurs Crit Care. 2019 May 24. doi: 10.1111/nicc.12438
434. Liu K, Ogura T, Takahashi K, Nakamura M, Ohtake H, Fujiduka K, Abe E, Oosaki H, Miyazaki D, Suzuki H, Nishikimi M, Komatsu M, Lefor AK, Mato T. [A Progressive Early Mobilization Program Is Significantly Associated With Clinical and Economic Improvement: A Single-Center Quality Comparison Study.](https://www.ncbi.nlm.nih.gov/pubmed/31162197) Crit Care Med. 2019 May 30. doi: 10.1097/CCM.0000000000003850
435. McWilliams D, Snelson C, Goddard H, Attwood B. [Introducing early and structured rehabilitation in critical care: A quality improvement project.](https://www.ncbi.nlm.nih.gov/pubmed/31056235) Intensive Crit Care Nurs. 2019 May 2
436. Hsieh SJ, Otusanya O, Gershengorn HB, Hope AA, Dayton C, Levi D, Garcia M, Prince D, Mills M, Fein D, Colman S, Gong MN. [Staged Implementation of Awakening and Breathing, Coordination, Delirium Monitoring and Management, and Early Mobilization Bundle Improves Patient Outcomes and Reduces Hospital Costs.](https://www.ncbi.nlm.nih.gov/pubmed/30985390) Crit Care Med. 2019 Apr 10
437. Tan J, Chen J, Zhou J, Song H, Deng H, Ao M, Luo G, Wu J. [Joint contractures in severe burn patients with early rehabilitation intervention in one of the largest burn intensive care unit in China: a descriptive analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31139664) Burns Trauma. 2019 May 20;7:17
438. Rawat N, Rao V, Peven M, Shrock C, Reiter A, Saria S, Ali H. [Comparison of Automated Activity Recognition to Provider Observations of Patient Mobility in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/31162207) Crit Care Med. 2019 May 31.
439. Hsu SH, Campbell C, Weeks AK, Herklotz M, Kostelecky N, Pastores SM, Halpern NA, Voigt LP. [A pilot survey of ventilated cancer patients' perspectives and recollections of early mobility in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/31144173) Support Care Cancer. 2019 May 29
440. Thomas VJ, Seet-Lee C, Marthick M, Cheema BS, Boyer M, Edwards KM. [Aerobic exercise during chemotherapy infusion for cancer treatment: a novel randomised crossover safety and feasibility trial.](https://www.ncbi.nlm.nih.gov/pubmed/31115667) Support Care Cancer. 2019 May 21
441. Twose P, Jones U, Cornell G. [Minimum standards of clinical practice for physiotherapists working in critical care settings in the United Kingdom: A modified Delphi technique.](https://www.ncbi.nlm.nih.gov/pubmed/31037104) J Intensive Care Soc. 2019 May;20(2):118-131
442. Black C, Grocott M, Singer M The oxygen cost of rehabilitation interventions in mechanically ventilated patients. Physiotherapy 2019 <https://doi.org/10.1016/j.physio.2019.06.008>
443. Decker LM, Mumper VA, Russel SP, Beth A Safety With Mobilization and Ambulation During Physical Therapy Sessions for Patients on Mechanical Circulatory Support 50 Days or Greater. Journal of Acute Care Physical Therapy : [July 2019 - Volume 10 - Issue 3 - p 85–92](https://journals.lww.com/jacpt/pages/currenttoc.aspx)
444. Galazzi A, Adamini I, Consonni D, Roselli P, Rancati D, Ghilardi G, Greco G, Salinaro G, Laquintana D .[Accidental removal of devices in intensive care unit: An eight-year observational study.](https://www.ncbi.nlm.nih.gov/pubmed/31235215) Intensive Crit Care Nurs. 2019 Jun 21
445. Alamri MS, Waked IS, Amin FM, Al-Quliti KW, Manzar MD. [Effectiveness of an early mobility protocol for stroke patients in Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/31056538) Neurosciences (Riyadh). 2019 Apr;24(2):81-88
446. Thatam KC, McAuley DF, Borthwick M. he National Institute for Health Research Critical Care Research Priority Setting Survey 2018. Journal of Intensive Care Society. [https://doi.org/10.1177/1751143719862244](https://doi.org/10.1177%2F1751143719862244)
447. Sáez de Asteasu ML, Martínez-Velilla N, Zambom-Ferraresi F, Casas-Herrero Á, Cadore EL, Galbete A, Izquierdo M. [Assessing the impact of physical exercise on cognitive function in older medical patients during acute hospitalization: Secondary analysis of a randomized trial.](https://www.ncbi.nlm.nih.gov/pubmed/31276501) PLoS Med. 2019 Jul 5;16(7):e1002852
448. Babine RL, Hyrkäs KE, Mckenzie CG, Wierman HR. [Mobilizing older adults: A multi-site, exploratory and observational study on patients enrolled in the Hospital Elder Life Program (HELP).](https://www.ncbi.nlm.nih.gov/pubmed/30413275) Geriatr Nurs. 2019 May - Jun;40(3):239-245
449. McCaughey EJ, Jonkman AH, Boswell-Ruys CL, McBain RA, Bye EA, Hudson AL, Collins DW, Heunks LMA, McLachlan AJ, Gandevia SC, Butler JE. [Abdominal functional electrical stimulation to assist ventilator weaning in critical illness: a double-blinded, randomised, sham-controlled pilot study.](https://www.ncbi.nlm.nih.gov/pubmed/31340846) Crit Care. 2019 Jul 24;23(1):261
450. Heyland DK, Day A, Clarke GJ, Hough CT, Files DC, Mourtzakis M, Deutz N, Needham DM, Stapleton R. [Nutrition and Exercise in Critical Illness Trial (NEXIS Trial): a protocol of a multicentred, randomised controlled trial of combined cycle ergometry and amino acid supplementation commenced early during critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/31371287) BMJ Open. 2019 Jul 31;9(7):e027893
451. Chhetri I, Hunt JEA, Mendis JR, Patterson SD, Puthucheary ZA, Montgomery HE, Creagh-Brown BC. [Repetitive vascular occlusion stimulus (RVOS) versus standard care to prevent muscle wasting in critically ill patients (ROSProx):a study protocol for a pilot randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31340849) Trials. 2019 Jul 24;20(1):456
452. Chiarici A, Andrenelli E, Serpilli O, Andreolini M, Tedesco S, Pomponio G, Gallo MM, Martini C, Papa R, Coccia M, Ceravolo MG. [An Early Tailored Approach Is the Key to Effective Rehabilitation in the Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/30796918) Arch Phys Med Rehabil. 2019 Aug;100(8):1506-1514
453. Flannery AH, Thompson Bastin ML, Montgomery-Yates A, Hook C, Cassity E, Eaton PM, Morris PE. [Multidisciplinary Prerounding Meeting as a Continuous Quality Improvement Tool: Leveraging to Reduce Continuous Benzodiazepine Use at an Academic Medical Center.](https://www.ncbi.nlm.nih.gov/pubmed/29683053) J Intensive Care Med. 2019 Sep;34(9):707-713
454. Guo M, Fortin C, Mayo AL, Robinson LR, Lo A. [Quality Improvement in Rehabilitation: A Primer for Physical Medicine and Rehabilitation Specialists.](https://www.ncbi.nlm.nih.gov/pubmed/30729748) PM R. 2019 Jul;11(7):771-778.
455. Yeung S, Rinaldo F, Jopling J, Liu B, Mehra R, Downing NL, Guo M, Bianconi GM, Alahi A, Lee J, Campbell B, Deru K, Beninati W, Fei-Fei L, Milstein A. [A computer vision system for deep learning-based detection of patient mobilization activities in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/31304360) NPJ Digit Med. 2019 Mar 1;2:11
456. Olof R. Amundadottir, Rannveig J. Jónasdóttir, Kristinn Sigvaldason, Ester Gunnsteinsdottir, Brynja Haraldsdottir, Thorarinn Sveinsson, Gisli H. Sigurdsson & Elizabeth Dean (2019) Effects of intensive upright mobilisation on outcomes of mechanically ventilated patients in the intensive care unit: a randomised controlled trial with 12-months follow-up, European Journal of Physiotherapy, DOI: 10.1080/21679169.2019.1645880
457. Wu J, Vratsistas-Curto A, Shiner CT, Faux SG, Harris I, Poulos CJ. [Can in-reach multidisciplinary rehabilitation in the acute ward improve outcomes for critical care survivors? A pilot randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31402389) J Rehabil Med. 2019 Sep 3;51(8):598-606.
458. McCaskell DS, Molloy AJ, Childerhose L, Costigan FA, Reid JC, McCaughan M, Clarke F, Cook DJ, Rudkowski JC, Farley C, Karachi T, Rochwerg B, Newman A, Fox-Robichaud A, Herridge MS, Lo V, Feltracco D, Burns K, Porteous R, Seely AJE, Ball IM, Seczek A, Kho ME. [Project management lessons learned from the multicentre CYCLE pilot randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31455384) Trials. 2019 Aug 28;20(1):532.
459. González-Seguel F, Camus-Molina A, Jasmén Sepúlveda A, Pérez Araos R, Molina Blamey J, Graf Santos J. [Settings and monitoring of mechanical ventilation during physical therapy in adult critically ill patients: protocol for a scoping review.](https://www.ncbi.nlm.nih.gov/pubmed/31455713) BMJ Open. 2019 Aug 26;9(8):e030692
460. Exum, Emelia; Hull, Brian L. The Process of Implementing a Mobility Technician in the General Medicine and Surgical Population to Increase Patient Mobility and Improve Hospital Quality Measures. Journal of Acute Care Physical Therapy : [October 2019 - Volume 10 - Issue 4 - p 129–138](https://journals.lww.com/jacpt/pages/currenttoc.aspx)
461. Smith CD, Grami P, Haseeb C, Ababio Y. [Exercise Physiologists: Key to Providing Early Mobilization in the Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/31474609) Am J Crit Care. 2019 Sep;28(5):385-392
462. de Figueiredo TB, Utsunomiya KF, de Oliveira AMRR, Pires-Neto RC, Tanaka C. [Mobilization practices for patients with burn injury in critical care.](https://www.ncbi.nlm.nih.gov/pubmed/31466922) Burns. 2019 Aug 26. pii: S0305-4179(19)30058-0
463. Rai S, Anthony L, Needham DM, Georgousopoulou EN, Sudheer B, Brown R, Mitchell I, van Haren F. [Barriers to rehabilitation after critical illness: a survey of multidisciplinary healthcare professionals caring for ICU survivors in an acute care hospital.](https://www.ncbi.nlm.nih.gov/pubmed/31402265) Aust Crit Care. 2019 Aug 8
464. McPeake JM, Harhay MO, Devine H, Iwashyna TJ, MacTavish P, Mikkelsen M, Shaw M, Quasim T. [Exploring Patients' Goals Within the Intensive Care Unit Rehabilitation Setting.](https://www.ncbi.nlm.nih.gov/pubmed/31474610) Am J Crit Care. 2019 Sep;28(5):393-400
465. Pereira CS, Carvalho AT, Bosco AD, Forgiarini Júnior LA. [The Perme scale score as a predictor of functional status and complications after discharge from the intensive care unit in patients undergoing liver transplantation.](https://www.ncbi.nlm.nih.gov/pubmed/30970092) Rev Bras Ter Intensiva. 2019 Jan-Mar;31(1):57-62
466. Pang Y, Li H, Zhao L, Zhang C. [An Established Early Rehabilitation Therapy Demonstrating Higher Efficacy and Safety for Care of Intensive Care Unit Patients.](https://www.ncbi.nlm.nih.gov/pubmed/31537777) Med Sci Monit. 2019 Sep 20;25:7052-7058
467. Dall CH, Andersen H, Povlsen TM, Henriksen M. [Evaluation of a technology assisted physical activity intervention among hospitalised patients: A randomised study.](https://www.ncbi.nlm.nih.gov/pubmed/31494019) Eur J Intern Med. 2019 Sep 4
468. Moreno NA, de Aquino BG, Garcia IF, Tavares LS, Costa LF, Giacomassi IWS, Lunardi AC. [Physiotherapist advice to older inpatients about the importance of staying physically active during hospitalisation reduces sedentary time, increases daily steps and preserves mobility: a randomised trial.](https://www.ncbi.nlm.nih.gov/pubmed/31521553) J Physiother. 2019 Oct;65(4):208-214.
469. Bonizzoli M, Lazzeri C, Drago A, Tadini Boninsegni L, Donati M, Di Valvasone S, Pesenti A, Peris A. [Effects of a physiotherapic program in patients on veno-venous extracorporeal membrane oxygenation: an 8-year single-center experience.](https://www.ncbi.nlm.nih.gov/pubmed/30871301) Minerva Anestesiol. 2019 Sep;85(9):989-994
470. Seo YJ, Park SR, Lee JH, Jung C, Choi KH, Hong SK, Kim W. [Feasibility, safety, and functional recovery after active rehabilitation in critically ill surgical patients.](https://www.ncbi.nlm.nih.gov/pubmed/31522973) Aust Crit Care. 2019 Sep 12. pii: S1036-7314(19)30082-7
471. Schreiber AF, Ceriana P, Ambrosino N, Malovini A, Nava S. [Physiotherapy and Weaning From Prolonged Mechanical Ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/30206129) Respir Care. 2019 Jan;64(1):17-25
472. Smith CD, Grami P, Haseeb C, Ababio Y. [Exercise Physiologists: Key to Providing Early Mobilization in the Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/31474609) Am J Crit Care. 2019 Sep;28(5):385-392
473. Wang J, Zhang C, Jia Y, Shi C, Choi T, Xiao Q. [Development of a Virtual Reality System for Early Mobilization of Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/31438353) Stud Health Technol Inform. 2019 Aug 21;264:1805-1806
474. Lee JT, Mikkelsen ME, Qi M, Werner RM. [Trends in Post-Acute Care Use after Admissions for Sepsis.](https://www.ncbi.nlm.nih.gov/pubmed/31532696) Ann Am Thorac Soc. 2019 Sep 18
475. Hajduk AM, Murphy TE, Geda ME, Dodson JA, Tsang S, Haghighat L, Tinetti ME, Gill TM, Chaudhry SI. [Association Between Mobility Measured During Hospitalization and Functional Outcomes in Older Adults With Acute Myocardial Infarction in the SILVER-AMI Study.](https://www.ncbi.nlm.nih.gov/pubmed/31589285) JAMA Intern Med. 2019 Oct 7
476. Wu J, Vratsistas-Curto A, Shiner CT, Faux SG, Harris I, Poulos CJ. [Can in-reach multidisciplinary rehabilitation in the acute ward improve outcomes for critical care survivors? A pilot randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31402389) J Rehabil Med. 2019 Sep 3;51(8):598-606
477. Bernhardt J, Hayward KS, Dancause N, Lannin NA, Ward NS, Nudo RJ, Farrin A, Churilov L, Boyd LA, Jones TA, Carmichael ST, Corbett D, Cramer SC. [A Stroke Recovery Trial Development Framework: Consensus-Based Core Recommendations from the Second Stroke Recovery and Rehabilitation Roundtable.](https://www.ncbi.nlm.nih.gov/pubmed/31674274) Neurorehabil Neural Repair. 2019 Nov;33(11):959-969
478. Moseley AM, Rahman P, Wells GA, Zadro JR, Sherrington C, Toupin-April K, Brosseau L. [Agreement between the Cochrane risk of bias tool and Physiotherapy Evidence Database (PEDro) scale: A meta-epidemiological study of randomized controlled trials of physical therapy interventions.](https://www.ncbi.nlm.nih.gov/pubmed/31536575) PLoS One. 2019 Sep 19;14(9):e0222770
479. Tonna E et al. Short-Term Clinical and Quality Outcomes Have Inconsistent Changes From a Quality Improvement Initiative to Increase Access to Physical Therapy in the Cardiovascular and Surgical ICU. Critical Care Explorations: [October 2019 - Volume 1 - Issue 10 - p e0055](https://journals.lww.com/ccejournal/pages/currenttoc.aspx)
480. Kim R et al. Factors Associated With Discharge Home Among Medical ICU Patients in an Early Mobilization Program. Critical Care Explorations: [November 11, 2019 - Volume Latest Articles - Issue - p](https://journals.lww.com/ccejournal/toc/9000/00000)
481. Thomas S, Mehrholz J, Bodechtel U, Elsner B. [Effect of physiotherapy on regaining independent walking in patients with intensive-care-unit-acquired muscle weakness: A cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/31544216) J Rehabil Med. 2019 Oct 29;51(10):797-804
482. Nickels MR, Aitken LM, Walsham J, Crampton LJ, Barnett AG, McPhail SM.[Exercise interventions are delayed in critically ill patients: a cohort study in an Australian tertiary intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/31648779) Physiotherapy. 2019 Jul 31
483. Winkelman C, Sattar A, Momotaz H, Johnson KD, Morris P, Feeney S, Levine A. [Early Therapeutic Mobility and Changes in Scores for Pain and Fatigue.](https://www.ncbi.nlm.nih.gov/pubmed/31575592) Crit Care Nurse. 2019 Oct;39(5):30-36
484. Kim T, Huh S, Kim SY, Han J, Lee SE, Cho WH, Kim YS, Jeon DS, Yeo HJ. [ICU rehabilitation is associated with reduced long-term mortality from sepsis in patients with low skeletal muscle mass: a case control study.](https://www.ncbi.nlm.nih.gov/pubmed/31700866) Ann Transl Med. 2019 Sep;7(18):430
485. Nydahl P, Schuchhardt D, Jüttner F, Dubb R, Hermes C, Kaltwasser A, Mende H, Müller-Wolff T, Rothaug O, Schreiber T. [Caloric consumption during early mobilisation of mechanically ventilated patients in Intensive Care Units.](https://www.ncbi.nlm.nih.gov/pubmed/31732289) Clin Nutr. 2019 Nov 2
486. Holroyd-Leduc J, Harris C, Hamid JS, Ewusie JE, Quirk J, Osiowy K, Moore JE, Khan S, Liu B, Straus SE; MOVE AB Collaboration. [Scaling-up implementation in community hospitals: a multisite interrupted time series design of the Mobilization of Vulnerable Elders (MOVE) program in Alberta.](https://www.ncbi.nlm.nih.gov/pubmed/31653204) BMC Geriatr. 2019 Oct 25;19(1):288
487. Valkenet K, Bor P, van Delft L, Veenhof C. [Measuring physical activity levels in hospitalized patients: a comparison between behavioural mapping and data from an accelerometer.](https://www.ncbi.nlm.nih.gov/pubmed/30864490) Clin Rehabil. 2019 Jul;33(7):1233-1240
488. Silva et al. Neuromuscular electrical stimulation in critically ill traumatic brain injury patients attenuates muscle atrophy, neurophysiological disorders, and weakness: a randomized controlled trial. j intensive care (2019) 7: 59. https://doi.org/10.1186/s40560-019-0417-x
489. Bunzel AG, Weber-Hansen N, Schantz Laursen B. [To stay in touch - intensive care patients' interactions with nurses during mobilisation.](https://www.ncbi.nlm.nih.gov/pubmed/31830323) Scand J Caring Sci. 2019 Dec 12
490. Sibilla A, Nydahl P, Greco N, Mungo G, Ott N, Unger I, Rezek S, Gemperle S, Needham DM, Kudchadkar SR. [Mobilization of Mechanically Ventilated Patients in Switzerland.](https://www.ncbi.nlm.nih.gov/pubmed/28847238) J Intensive Care Med. 2020 Jan;35(1):55-62
491. Baldwin CE, Rowlands AV, Fraysse F, Johnston KN. [The sedentary behaviour and physical activity patterns of survivors of a critical illness over their acute hospitalisation: An observational study.](https://www.ncbi.nlm.nih.gov/pubmed/31813736) Aust Crit Care. 2019 Dec 5. pii: S1036-7314(19)30072-4
492. Watanabe S, Kotani T, Taito S, Ota K, Ishii K, Ono M, Katsukawa H, Kozu R, Morita Y, Arakawa R, Suzuki S. [Determinants of gait independence after mechanical ventilation in the intensive care unit: a Japanese multicenter retrospective exploratory cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/31798888) J Intensive Care. 2019 Nov 27;7:53
493. Schujmann DS, Teixeira Gomes T, Lunardi AC, Zoccoler Lamano M, Fragoso A, Pimentel M, Peso CN, Araujo P, Fu C. [Impact of a Progressive Mobility Program on the Functional Status, Respiratory and Muscular Systems of ICU Patients: A Randomized and Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31856001) Crit Care Med. 2019 Dec 19
494. Yen HC, Jeng JS, Chen WS, Pan GS, Chuang Pt Bs WY, Lee YY, Teng T. [Early Mobilization of Mild-Moderate Intracerebral Hemorrhage Patients in a Stroke Center: A Randomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31858865) Neurorehabil Neural Repair. 2020 Jan;34(1):72-81
495. Waldauf P, Gojda J, Urban T, Hrušková N, Blahutová B, Hejnová M, Jiroutková K, Fric M, Jánský P, Kukulová J, Stephens F, Řasová K, Duška F. [Functional electrical stimulation-assisted cycle ergometry in the critically ill: protocol for a randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31842936) Trials. 2019 Dec 16;20(1):724
496. Hegerová P, Dědková Z, Sobotka L. [Early nutritional support and physiotherapy improved long-term self-sufficiency in acutely ill older patients.](https://www.ncbi.nlm.nih.gov/pubmed/25466662) Nutrition. 2015 Jan;31(1):166-70
497. Falkenstein BA, Skalkowski CK, Lodise KD, Moore M, Olkowski BF, Rojavin Y. [The Economic and Clinical Impact of an Early Mobility Program in the Trauma Intensive Care Unit: A Quality Improvement Project.](https://www.ncbi.nlm.nih.gov/pubmed/31895316) J Trauma Nurs. 2020 Jan/Feb;27(1):29-36
498. Mayer KP, Hornsby AR, Soriano VO, Lin TC, Cunningham JT, Yuan H, Hauschild CE, Morris PE, Neyra JA. [Safety, Feasibility, and Efficacy of Early Rehabilitation in Patients Requiring Continuous Renal Replacement: A Quality Improvement Study.](https://www.ncbi.nlm.nih.gov/pubmed/31922059) Kidney Int Rep. 2019 Oct 11;5(1):39-47
499. Johnson AM, Howell DM. [Mobility bridges a gap in care: Findings from an early mobilisation quality improvement project in acute care.](https://www.ncbi.nlm.nih.gov/pubmed/31264747) J Clin Nurs. 2019 Nov;28(21-22):4044-4052
500. Walkey AJ, Bor J, Cordella NJ. [Novel tools for a learning health system: a combined difference-in-difference/regression discontinuity approach to evaluate effectiveness of a readmission reduction initiative.](https://www.ncbi.nlm.nih.gov/pubmed/31843880) BMJ Qual Saf. 2019 Dec 16
501. Nakanishi N, Tsutsumi R, Okayama Y, Takashima T, Ueno Y, Itagaki T, Tsutsumi Y, Sakaue H, Oto J. [Monitoring of muscle mass in critically ill patients: comparison of ultrasound and two bioelectrical impedance analysis devices.](https://www.ncbi.nlm.nih.gov/pubmed/31890223) J Intensive Care. 2019 Dec 16;7:61
502. Borges RC, Barbeiro HV, Barbeiro DF, Soriano FG. [Muscle degradation, vitamin D and systemic inflammation in hospitalized septic patients.](https://www.ncbi.nlm.nih.gov/pubmed/31896446) J Crit Care. 2019 Dec 21;56:125-131
503. Nakajima et al 2019 Clinical Frailty Scale Score Before ICU Admission Is Associated With Mobility Disability in Septic Patients Receiving Early Rehabilitation. Critical Care Explorations: [December 2019 - Volume 1 - Issue 12 - p e0066](https://journals.lww.com/ccejournal/pages/currenttoc.aspx)
504. Saccheri C, Morawiec E, Delemazure J, Mayaux J, Dubé BP, Similowski T, Demoule A, Dres M. [ICU-acquired weakness, diaphragm dysfunction and long-term outcomes of critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/31900667) Ann Intensive Care. 2020 Jan 3;10(1):1
505. Gama Lordello GG, Gonçalves Gama GG, Lago Rosier G, Viana PADC, Correia LC, Fonteles Ritt LE. [Effects of cycle ergometer use in early mobilization following cardiac surgery: a randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31994405) Clin Rehabil. 2020 Jan 29:269215520901763
506. Øberg GK, Girolami GL, Campbell SK, Ustad T, Heuch I, Jacobsen BK, Kaaresen PI, Aulie VS, Jørgensen L. [Effects of a Patient-Administered Exercise Program in the Neonatal Intensive Care Unit: Dose Does Matter-A Randomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31944250) Phys Ther. 2020 Jan 16
507. Pazar B, Iyigun E. [The effects of preoperative education of cardiac patients on haemodynamic parameters, comfort, anxiety and patient-ventilator synchrony: A randomised, controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31987684) Intensive Crit Care Nurs. 2020 Jan 24:102799
508. Gomes TT, Schujmann DS, Fu C. [Rehabilitation through virtual reality: physical activity of patients admitted to the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/31967219) Rev Bras Ter Intensiva. 2019 Oct-Dec;31(4):456-463
509. Ortmann L, Dey A. [Early Mobilization of Infants Intubated for Acute Respiratory Failure.](https://www.ncbi.nlm.nih.gov/pubmed/31961937) Crit Care Nurse. 2019 Dec 1;39(6):47-52
510. Woodcock T, Adeleke Y, Goeschel C, Pronovost P, Dixon-Woods M. [A modified Delphi study to identify the features of high quality measurement plans for healthcare improvement projects.](https://www.ncbi.nlm.nih.gov/pubmed/31937262) BMC Med Res Methodol. 2020 Jan 14;20(1):8
511. Nydahl P, Spindelmann E, Hermes C, Kaltwasser A, Schaller SJ. [German Network for Early Mobilization: Impact for participants.](https://www.ncbi.nlm.nih.gov/pubmed/31918974) Heart Lung. 2020 Jan 6. pii: S0147-9563(19)30558-8
512. Gama Lordello GG, Gonçalves Gama GG, Lago Rosier G, Viana PADC, Correia LC, Fonteles Ritt LE. [Effects of cycle ergometer use in early mobilization following cardiac surgery: a randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/31994405) Clin Rehabil. 2020 Apr;34(4):450-459
513. Pang Y, Li H, Zhao L, Zhang C. [An Established Early Rehabilitation Therapy Demonstrating Higher Efficacy and Safety for Care of Intensive Care Unit Patients.](https://pubmed.ncbi.nlm.nih.gov/31537777/?from_term=Pang+Y&from_cauthor_id=31537777&from_pos=1)  Med Sci Monit. 2019 Sep 20;25:7052-7058
514. Kjærgaard JL, Juhl CB, Lange P, Wilcke JT. [Early pulmonary rehabilitation after acute exacerbation of COPD: a randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/32083113) ERJ Open Res. 2020 Feb 17;6(1).
515. Colwell BRL, Williams CN, Kelly SP, Ibsen LM. [Mobilization Therapy in the Pediatric Intensive Care Unit: A Multidisciplinary Quality Improvement Initiative.](https://pubmed.ncbi.nlm.nih.gov/29716905/?from_term=Early+Mobilization+in+the+Pediatric+Intensive+Care+Unit%3A+A+Quality+Improvement+Initiative&from_pos=1) Am J Crit Care. 2018 May;27(3):194-203.
516. Parke S, Hough CL, E Bunnell A. [The Feasibility and Acceptability of Virtual Therapy Environments for Early ICU Mobilization.](https://www.ncbi.nlm.nih.gov/pubmed/32107863) PM R. 2020 Feb 27
517. Lin F, Phelan S, Chaboyer W, Mitchell M. [Early mobilisation of ventilated patients in the intensive care unit: A survey of critical care clinicians in an Australian tertiary hospital.](https://www.ncbi.nlm.nih.gov/pubmed/30935789) Aust Crit Care. 2020 Mar;33(2):130-136.
518. ECMO-PT Study Investigators, et al. [Early mobilisation during extracorporeal membrane oxygenation was safe and feasible: a pilot randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/32179935/?from_term=Early+Mobilisation+During+Extracorporeal+Membrane+Oxygenation+Was) Intensive Care Med. 2020.
519. Kudchadkar SR, Nelliot A, Awojoodu R, Vaidya D, Traube C, Walker T, Needham DM; Prevalence of Acute Rehabilitation for Kids in the PICU (PARK-PICU) Investigators and the Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) Network; Prevalence of Acute Rehabilitation for Kids in the PICU (PARK-PICU) Investigators (collaborators) are as follows. [Physical Rehabilitation in Critically Ill Children: A Multicenter Point Prevalence Study in the United States.](https://pubmed.ncbi.nlm.nih.gov/32168030/?from_term=Kudchadkar+SR&from_cauthor_id=32168030&from_pos=2) Crit Care Med. 2020 May;48(5):634-644
520. Tadyanemhandu C, van Aswegen H, Ntsiea V. J [Organizational structures and early mobilization practices in South African public sector intensive care units-A cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/32141685/?from_term=Tadyanemhandu+C&from_cauthor_id=32141685&from_pos=1) Eval Clin Pract. 2020 Mar 6.
521. Pereira Lima Silva R, Gonçalves Menegueti M, Dias Castilho Siqueira L, de Araújo TR, Auxiliadora-Martins M, Mantovani Silva Andrade L, Laus AM. [Omission of nursing care, professional practice environment and workload in intensive care units.](https://pubmed.ncbi.nlm.nih.gov/32173932/?from_term=Pereira+Lima+Silva+R&from_cauthor_id=32173932&from_pos=1) J Nurs Manag. 2020 Mar 16.
522. Park YH, Ko RE, Kang D, Park J, Jeon K, Yang JH, Park CM, Cho J, Park YS, Park H, Cho J, Guallar E, Suh GY, Chung CR. [Relationship between Use of Rehabilitation Resources and ICU Readmission and ER Visits in ICU Survivors: the Korean ICU National Data Study 2008-2015.](https://pubmed.ncbi.nlm.nih.gov/32301293/?from_term=Chung+CR&from_cauthor_id=32301293&from_pos=1) J Korean Med Sci. 2020 Apr 20;35(15):e101.
523. Falvey JR, Murphy TE, Gill TM, Stevens-Lapsley JE, Ferrante LE. [Home Health Rehabilitation Utilization Among Medicare Beneficiaries Following Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/32187664/?from_term=Falvey+JR&from_cauthor_id=32187664&from_pos=1) J Am Geriatr Soc. 2020 Mar 18.
524. Hsu SH, Campbell C, Weeks AK, Herklotz M, Kostelecky N, Pastores SM, Halpern NA, Voigt LP. [A pilot survey of ventilated cancer patients' perspectives and recollections of early mobility in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/31144173/?from_term=Hsu+SH&from_cauthor_id=31144173&from_pos=1) Support Care Cancer. 2020 Feb;28(2):747-753.
525. Hammer M, Grabitz SD, Teja B, Serrano M, Eikermann M; SICU Optimal Mobilization Team (SOMT). [Functional mobility recovery predicts readmission to the surgical intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/32221648/?from_term=Hammer+M&from_cauthor_id=32221648&from_pos=1) Intensive Care Med. 2020 Mar 27.
526. Young DL, Kumble S, Capo-Lugo C, Littier H, Lavezza A, Hoyer E, Friedman M, Needham DM, Rogers D, Martin SC, Minnier T, Matcho BA, Euloth T, Ni P, Jette A. [Measuring Mobility in Low Functioning Hospital Patients: An AM-PAC Replenishment Project.](https://pubmed.ncbi.nlm.nih.gov/32173327/?from_term=Young+DL&from_cauthor_id=32173327&from_pos=1) Arch Phys Med Rehabil. 2020 Mar 12:S0003-9993(20)30150-7.
527. Tavares LS, Moreno NA, de Aquino BG, Costa LF, Giacomassi IWS, Simões MDSMP, Lunardi AC. [Reliability, validity, interpretability and responsiveness of the DEMMI mobility index for Brazilian older hospitalized patients.](https://pubmed.ncbi.nlm.nih.gov/32187212/?from_term=Tavares+LS&from_cauthor_id=32187212&from_pos=1) PLoS One. 2020 Mar 18;15(3):e0230047.
528. França EET, Gomes JPV, De Lira JMB, Amaral TCN, Vilaça AF, Paiva Júnior MDS, Elihimas Júnior UF, Correia Júnior MAV, Forgiarini Júnior LA, Costa MJC, Andrade MA, Ribeiro LC, De Castro CMMB. [Acute effect of passive cycle-ergometry and functional electrical stimulation on nitrosative stress and inflammatory cytokines in mechanically ventilated critically ill patients: a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/32294698/?from_term=Fran%C3%A7a+EET&from_cauthor_id=32294698&from_pos=1)  Braz J Med Biol Res. 2020 Apr 9;53(4):e8770
529. Parker AM, Nelliot A, Chessare CM, Malik AM, Koneru M, Hosey MM, Ozok AA, Lyons KD, Needham DM. [Usability and acceptability of a mobile application prototype for a combined behavioural activation and physical rehabilitation intervention in acute respiratory failure survivors.](https://pubmed.ncbi.nlm.nih.gov/32340769/?from_term=Parker+AM&from_cauthor_id=32340769&from_pos=2) Aust Crit Care. 2020 Apr 24:S1036-7314(20)30055-2
530. Nickels MR, Aitken LM, Barnett AG, Walsham J, McPhail SM. [Acceptability, safety, and feasibility of in-bed cycling with critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/32317212/?from_term=Nickels+MR&from_cauthor_id=32317212&from_pos=1) Aust Crit Care. 2020 Apr 18:S1036-7314(20)30049-7
531. Boyd J, Paratz J,Tronstad O, Caruana L, Walsh J. [Exercise is feasible in patients receiving vasoactive medication in a cardiac surgical intensive care unit: A prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/32349888/?from_term=Tronstad+O&from_cauthor_id=32349888&from_pos=1) Aust Crit Care. 2020 Apr 26:S1036-7314(20)30046-1.
532. Timenetsky KT, Neto AS, Assunção MSC, Taniguchi L, Eid RAC, Corrêa TD [Mobilization practices in the ICU: A nationwide 1-day point- prevalence study in Brazil.](https://pubmed.ncbi.nlm.nih.gov/32240249/?from_term=Timenetsky+KT&from_cauthor_id=32240249&from_pos=1) ; e-MOTION group. PLoS One. 2020 Apr 2;15(4):e0230971.
533. Anekwe DE, Milner SC, Bussières A, de Marchie M, Spahija J. [Intensive care unit clinicians identify many barriers to, and facilitators of, early mobilisation: a qualitative study using the Theoretical Domains Framework.](https://pubmed.ncbi.nlm.nih.gov/32307308/?from_term=Anekwe+DE&from_cauthor_id=32307308&from_pos=1) J Physiother. 2020 Apr;66(2):120-127.
534. Wang J, Xiao Q, Zhang C, Jia Y, Shi C. [Intensive care unit nurses' knowledge, attitudes, and perceived barriers regarding early mobilization of patients.](https://pubmed.ncbi.nlm.nih.gov/32285599/?from_term=Wang+J&from_cauthor_id=32285599&from_pos=1) Nurs Crit Care. 2020 Apr 13
535. Jones RA, Merkle S,Ruvalcaba L, Ashton P, Bailey C, Lopez M. [Nurse-Led Mobility Program: Driving a Culture of Early Mobilization in Medical-Surgical Nursing.](https://pubmed.ncbi.nlm.nih.gov/30889084/?from_term=Ruvalcaba+L&from_cauthor_id=30889084&from_pos=1) J Nurs Care Qual. 2020 Jan/Mar;35(1):20-26
536. Sutt AL, Tronstad O, Barnett AG, Kitchenman S, Fraser JF. [Earlier tracheostomy is associated with an earlier return to walking, talking, and eating.](https://pubmed.ncbi.nlm.nih.gov/32299649/?from_term=Sutt+AL&from_cauthor_id=32299649&from_pos=1) Aust Crit Care. 2020 Apr 13:S1036-7314(20)30048-5
537. González-Seguel F, Camus-Molina A, Cárcamo M, Hiser S, Needham DM, Leppe J. [Inter-observer reliability of trained physiotherapists on the Functional Status Score for the Intensive Care Unit Chilean-Spanish version.](https://pubmed.ncbi.nlm.nih.gov/32316800/?from_term=Gonz%C3%A1lez-Seguel+F&from_cauthor_id=32316800&from_pos=1) Physiother Theory Pract. 2020 Apr 22:1-7.
538. Silva VZMD, Lima AS, Nadiele H, Pires-Neto R, Denehy L, Parry SM. [Brazilian Versions of the Physical Function ICU Test-scored and de Morton Mobility Index: translation, cross-cultural adaptation, and clinimetric properties.](https://pubmed.ncbi.nlm.nih.gov/32321069/?from_term=Silva+VZMD&from_cauthor_id=32321069&from_pos=1) J Bras Pneumol. 2020 Apr 17;46(4):e20180366.
539. Lambell KJ, Tierney AC, Wang JC, Nanjayya V, Forsyth A, Goh GS, Vicendese D, Ridley EJ, Parry SM, Mourtzakis M, King SJ. [Comparison of Ultrasound-Derived Muscle Thickness With Computed Tomography Muscle Cross-Sectional Area on Admission to the Intensive Care Unit: A Pilot Cross-Sectional Study.](https://pubmed.ncbi.nlm.nih.gov/32291773/?from_term=Lambell+KJ&from_cauthor_id=32291773&from_pos=1) JPEN J Parenter Enteral Nutr. 2020 Apr 15
540. Rai S, Anthony L, Needham DM, Georgousopoulou EN, Sudheer B, Brown R, Mitchell I, van Haren F. [Barriers to rehabilitation after critical illness: a survey of multidisciplinary healthcare professionals caring for ICU survivors in an acute care hospital.](https://pubmed.ncbi.nlm.nih.gov/31402265/?from_sort=date&from_term=Rai+S&from_cauthor_id=31402265&from_pos=1) Aust Crit Care. 2020 May;33(3):264-271
541. Tsuboi N, Hiratsuka M, Kaneko S, Nishimura N, Nakagawa S, Kasahara M, Kamikubo T. [Benefits of Early Mobilization After Pediatric Liver Transplantation.](https://pubmed.ncbi.nlm.nih.gov/30489487/?from_sort=date&from_term=Tsuboi+N&from_cauthor_id=30489487&from_pos=1) Pediatr Crit Care Med. 2019 Feb;20(2):e91-e97
542. Camus-Molina A, González-Seguel F, Castro-Ávila AC, Leppe J. [Construct validity of the Chilean-Spanish version of the Functional Status Score for the Intensive Care Unit: a prospective observational study using actigraphy in mechanically-ventilated patients.](https://pubmed.ncbi.nlm.nih.gov/32446906/?from_sort=date&from_term=Camus-Molina+A&from_cauthor_id=32446906&from_pos=1) Arch Phys Med Rehabil. 2020 May 21:S0003-9993(20)30287-2
543. Arias-Rivera S, Raurell-Torredà M, Thuissard-Vasallo IJ, Andreu-Vázquez C, Hodgson CL; Grupo IMS-Es; Grupo MOviPre; Autores Grupo IMS-Es; Autores Grupo MOviPre. Andalucía; Aragón; Asturias; Canarias; Cantabria; Castilla-La Mancha; Castilla y León; Catalunya; Extremadura; Galicia; Madrid; Murcia; Navarra; País Vasco; Valencia. [Adaptation and validation of the ICU Mobility Scale in Spain.](https://pubmed.ncbi.nlm.nih.gov/32205014/?from_sort=date&from_term=Arias-Rivera+S&from_cauthor_id=32205014&from_pos=2) Enferm Intensiva. 2020 Mar 20:S1130-2399(20)30023-7
544. Fazio S, Doroy A, Da Marto N, Taylor S, Anderson N, Young HM, Adams JY. [Quantifying Mobility in the ICU: Comparison of Electronic Health Record Documentation and Accelerometer-Based Sensors to Clinician-Annotated Video.](https://pubmed.ncbi.nlm.nih.gov/32426733/?from_sort=date&from_term=Fazio+S&from_cauthor_id=32426733&from_pos=1) Crit Care Explor. 2020 Apr 29;2(4):e0091
545. Nickels MR, Aitken LM, Barnett AG, Walsham J, King S, Gale NE, Bowen AC, Peel BM, Donaldson SL, Mealing STJ, McPhail SM. [Effect of in-bed cycling on acute muscle wasting in critically ill adults: A randomised clinical trial.](https://pubmed.ncbi.nlm.nih.gov/32585438/) J Crit Care. 2020 May 30;59:86-93
546. Bento, Haley A. PT, DPT, CCS1; Dummer, Danica PT, DPT, NCS1,,2; Lohse, Bryan D. PT, DPT1; Noren, Christopher OT/RL1; Tonna, Joseph E. MD3,,4 Walking While Dialyzing: A Retrospective Observation of Early Mobility and Ambulation for Patients on Continuous Renal Replacement Therapy, Critical Care Explorations: June 2020 - https://journals.lww.com/ccejournal/Fulltext/2020/06000/Walking\_While\_Dialyzing\_\_A\_Retrospective.6.aspx?context=LatestArticles
547. Linke CA, Chapman LB, Berger LJ, Kelly TL, Korpela CA, Petty MG. [Early Mobilization in the ICU: A Collaborative, Integrated Approach.](https://pubmed.ncbi.nlm.nih.gov/32426732/) Crit Care Explor. 2020 Apr 29;2(4):e0090.
548. Escalon, Miguel X. MD, MPH; Lichtenstein, Ann H. DO; Posner, Elliot PT, MBA; Spielman, Lisa PhD; Delgado, Andrew MS; Kolakowsky-Hayner, Stephanie A. PhD The Effects of Early Mobilization on Patients Requiring Extended Mechanical Ventilation Across Multiple ICUs, Critical Care Explorations: June 2020 - https://journals.lww.com/ccejournal/pages/articleviewer.aspx?year=2020&issue=06000&article=00002&type=Fulltext&context=LatestArticles
549. Niimi, M., Katsurada, K., Higuchi, K., Kimura, C., Hara, T., Yamada, N., & Abo, M. (2020). The effect of sitting position on consciousness levels and pupillary light reflex. *Journal of the Intensive Care Society*. <https://doi.org/10.1177/1751143720930880>
550. Hiser S, Toonstra A, Friedman LA, Colantuoni E, Needham DM. [Inter-rater reliability of activity measure for post-acute care '6-Clicks' inpatient mobility short form in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/32449231/) Physiother Res Int. 2020 May 24:e1849
551. Fink EL, Beers SR, Houtrow AJ, Richichi R, Burns C, Doughty L, Ortiz-Aguayo R, Madurski CA, Valenta C, Chrisman M, Golightly L, Kiger M, Patrick C, Treble-Barna A, Pollon D, Smith CM, Kochanek P; PICU-Rehabilitation Study Group. [Early Protocolized Versus Usual Care Rehabilitation for Pediatric Neurocritical Care Patients: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/30707210/) Pediatr Crit Care Med. 2019 Jun;20(6):540-550
552. Zhou W, Shi B, Fan Y, Zhu J. Effect of early activity combined with early nutrition on acquired weakness in ICU patients. *Medicine (Baltimore)*. 2020;99(29):e21282. DOI: [10.1097/MD.0000000000021282](https://doi.org/10.1097/md.0000000000021282)
553. Liang Z, Munro CL, Ferreira TBD, Clochesy J, Yip H, Sena Moore K, Kip K**.** [Feasibility and acceptability of a self-managed exercise to rhythmic music intervention for ICU survivors.](https://pubmed.ncbi.nlm.nih.gov/32650887/) Appl Nurs Res. 2020 Aug;54:151315
554. Silva JR, Reboredo MM, Bergamini BC, Netto CB, Vieira RS, Pinto SP, Fonseca LM, Pinheiro BV. [Impact of Early Passive Exercise With Cycle Ergometer on Ventilator Interaction.](https://pubmed.ncbi.nlm.nih.gov/32576704/) Respir Care. 2020 Jun 23:respcare.07517.
555. Laurent H, Aubreton S, Vallat A, Pereira B, Souweine B, Constantin JM, Coudeyre E. [Very early exercise tailored by using a decisional algorithm helps relieve discomfort in adults in an intensive care unit: an open-label pilot study.](https://pubmed.ncbi.nlm.nih.gov/32667148/) Eur J Phys Rehabil Med. 2020 Jul 15.
556. Tymkew H, Norris T, Arroyo C, Schallom M. [The Use of Physical Therapy ICU Assessments to Predict Discharge Home.](https://pubmed.ncbi.nlm.nih.gov/32639412/) Crit Care Med. 2020 Jul 2.
557. Treble-Barna A, Beers SR, Houtrow AJ, Ortiz-Aguayo R, Valenta C, Stanger M, Chrisman M, Orringer M, Smith CM, Pollon D, Duffett M, Choong K, Watson RS, Kochanek PM, Fink EL; PICU-Rehabilitation Study Group, Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) Network, and Prevalence of Acute critical Neurological disease in children: A Global Epidemiological Assessment (PANGEA) Investigators. [PICU-Based Rehabilitation and Outcomes Assessment: A Survey of Pediatric Critical Care Physicians.](https://pubmed.ncbi.nlm.nih.gov/30946294/) Pediatr Crit Care Med. 2019 Jun;20(6):e274-e282.
558. Yk Yeo N, Aj Reddi B, Schultz CG, O'Connor SN, Chapman MJ, S Chapple LA. Aust [Early anthropometry, strength, and function in survivors of critical illness.](https://pubmed.ncbi.nlm.nih.gov/32727702/) Crit Care. 2020 Jul 26:S1036-7314(20)30231-9
559. Tipping CJ, Hodgson CL. [Clinimetrics: The Intensive Care Unit Mobility Scale.](https://pubmed.ncbi.nlm.nih.gov/32660920/) J Physiother. 2020 Jul 10:S1836-9553(20)30055-2
560. Nakanishi N, Takashima T, Oto J. [Muscle atrophy in critically ill patients : a review of its cause, evaluation, and prevention.](https://pubmed.ncbi.nlm.nih.gov/32378591/) J Med Invest. 2020;67(1.2):1-10.
561. Nakamura K, Nakano H, Naraba H, Mochizuki M, Takahashi Y, Sonoo T, Hashimoto H, Morimura N. [High protein versus medium protein delivery under equal total energy delivery in critical care: A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/32800385/) Clin Nutr. 2020 Aug 7:S0261-5614(20)30401-5.
562. Longhini F, Bruni A, Garofalo E, Ronco C, Gusmano A, Cammarota G, Pasin L, Frigerio P, Chiumello D, Navalesi P. [Chest physiotherapy improves lung aeration in hypersecretive critically ill patients: a pilot randomized physiological study.](https://pubmed.ncbi.nlm.nih.gov/32746877/) Crit Care. 2020 Aug 3;24(1):479.
563. Richtrmoc MK et al Effect of Early Mobilization on Respiratory and Limb Muscle Strength and Functionality of Nonintubated Patients in Critical Care: A Feasibility Trial. Critical Care Research and Practice. <https://www.hindawi.com/journals/ccrp/2020/3526730/>
564. Supinski GS, Valentine EN, Netzel PF, Schroder EA, Wang L, Callahan LA. [Does Standard Physical Therapy Increase Quadriceps Strength in Chronically Ventilated Patients? A Pilot Study.](https://pubmed.ncbi.nlm.nih.gov/32826429/) Crit Care Med. 2020 Aug 18.
565. Wappel S, Tran DH, Wells CL, Verceles AC. [The Effect of High Protein and Mobility-Based Rehabilitation on Clinical Outcomes in Survivors of Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/32817444/) Respir Care. 2020 Aug 18:respcare.07840.
566. Kim RY, Murphy TE, Doyle M, Pulaski C, Singh M, Tsang S, Wicker D, Pisani MA, Connors GR, Ferrante LE. [Factors Associated With Discharge Home Among Medical ICU Patients in an Early Mobilization Program.](https://pubmed.ncbi.nlm.nih.gov/32166241/) Crit Care Explor. 2019 Nov 11;1(11):e0060.
567. Fernald MM, Smyrnios NA, Vitello J. [Early Mobility for Critically Ill Patients: Building Staff Commitment Through Appreciative Inquiry.](https://pubmed.ncbi.nlm.nih.gov/32737490/) Crit Care Nurse. 2020 Aug 1;40(4):66-72
568. Lorgunpai SJ, Finke B, Burrows I, Brown CJ, Rubin FH, Wierman HR, Heisey SJ, Gartaganis S, Ling SM, Press M, Inouye SK. [Mobility Action Group: Using Quality Improvement Methods to Create a Culture of Hospital Mobility.](https://pubmed.ncbi.nlm.nih.gov/32757219/) J Am Geriatr Soc. 2020 Aug 5.
569. Söderberg A, Karlsson V, Ahlberg BM, Johansson A, Thelandersson A. [From fear to fight: Patients experiences of early mobilization in intensive care. A qualitative interview study.](https://pubmed.ncbi.nlm.nih.gov/32787479/) Physiother Theory Pract. 2020 Aug 12:1-9
570. Schallom M, Tymkew H, Vyers K, Prentice D, Sona C, Norris T, Arroyo C. [Implementation of an Interdisciplinary AACN Early Mobility Protocol.](https://pubmed.ncbi.nlm.nih.gov/32737495/) Crit Care Nurse. 2020 Aug 1;40(4):e7-e17.
571. Feuvrier F, Jourdan C, Barber O, Ascher M, Pavillard F, Chalard K, Bory P, Perrigault PF, Laffont I. [Early mobilization in intensive care for patients with brain injury: e-survey of current practices in France.](https://pubmed.ncbi.nlm.nih.gov/32763483/) Ann Phys Rehabil Med. 2020 Aug 4:S1877-0657(20)30146-9.
572. Queiroz RS, Saquetto MB, Martinez BP, Cazeta BBR, Hodgson C, Gomes-Neto M. [Progressive active mobilization with dose control and training load in critically ill patients (PROMOB): Protocol for a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/32881921/) PLoS One. 2020 Sep 3;15(9):e0238352.
573. Hoffman M, Clerckx B, Janssen K, Segers J, Demeyere I, Frickx B, Merckx E, Hermans G, Van der Meulen I, Van Lancker T, Ceulemans N, Van Hollebeke M, Langer D, Gosselink R. [Early mobilization in clinical practice: the reliability and feasibility of the 'Start To Move' Protocol.](https://pubmed.ncbi.nlm.nih.gov/32866055/) Physiother Theory Pract. 2020 Aug 31:1-11
574. Coles SJ, Erdogan M, Higgins SD, Green RS. [Impact of an early mobilization protocol on outcomes in trauma patients admitted to the intensive care unit: A retrospective pre-post study.](https://pubmed.ncbi.nlm.nih.gov/31972758/) J Trauma Acute Care Surg. 2020 Apr;88(4):515-521
575. Hayes K, Holland AE, Pellegrino VA, Young M, Paul E, Hodgson CL. [Early rehabilitation during extracorporeal membrane oxygenation has minimal impact on physiological parameters: A pilot randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33039302/) Aust Crit Care. 2020 Oct 7:S1036-7314(20)30259-9.
576. Park L, Coltman C, Agren H, Colwell S, King-Shier KM. ["In the tube" following sternotomy: A quasi-experimental study.](https://pubmed.ncbi.nlm.nih.gov/32842764/) Eur J Cardiovasc Nurs. 2020 Aug 25:1474515120951981
577. Chen J, Martin C,McIntyre CW, Ball IM, Duffin J, Slessarev M. [Impact of Graded Passive Cycling on Hemodynamics, Brain, and Heart Perfusion in Healthy Adults.](https://pubmed.ncbi.nlm.nih.gov/31552250/) Front Med (Lausanne). 2019 Aug 20;6:186
578. Wyatt S, Meacci K,Arnold M. [Integrating Safe Patient Handling and Early Mobility: Combining Quality Initiatives.](https://pubmed.ncbi.nlm.nih.gov/31306238/) J Nurs Care Qual. 2020 Apr/Jun;35(2):130-134
579. Yagi et al. Outcomes after Intensive Rehabilitation for Mechanically-ventilated Patients: A Nationwide Retrospective Cohort Study. Archives of Physical Medicine and Rehabilitation 2020. <https://doi.org/10.1016/j.apmr.2020.09.389>
580. Hickmann CE, Montecinos-Munoz NR, Castanares-Zapatero D, Arriagada-Garrido RS, Jeria-Blanco U, Gizzatullin T, Roeseler J, Dugernier J, Wittebole X, Laterre PF. [Acute Effects of Sitting Out of Bed and Exercise on Lung Aeration and Oxygenation in Critically Ill Subjects.](https://pubmed.ncbi.nlm.nih.gov/32994357/) Respir Care. 2020 Sep 29:respcare.07487.
581. Perme C et al. Relationship of the Perme ICU Mobility Score and Medical Research Council Sum Score With Discharge Destination for Patients in 5 Different Intensive Care Units. Journal of Acute Care Physical Therapy 2020. <https://journals.lww.com/jacpt/Abstract/2020/10000/Relationship_of_the_Perme_ICU_Mobility_Score_and.2.aspx>
582. Wilches Luna EC, de Oliveira AS, Perme C, Gastaldi AC. [Spanish version of the Perme Intensive Care Unit Mobility Score: Minimal detectable change and responsiveness.](https://pubmed.ncbi.nlm.nih.gov/32926503/) Physiother Res Int. 2020 Sep 14:e1875.
583. Badjatia N, Sanchez S, Judd G, Hausladen R, Hering D, Motta M, Parikh G, Chang W, Morris N, Simard JM, Sorkin J, Wittenberg GF, Ryan AS. [Neuromuscular Electrical Stimulation and High-Protein Supplementation After Subarachnoid Hemorrhage: A Single-Center Phase 2 Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/33150572/) Neurocrit Care. 2020 Nov 4
584. McCormack PF, Tronstad O, Walsh JR. Does exercising the quadriceps muscle of patients on extracorporeal membrane oxygenation (ECMO) with electrical stimulation affect the blood flow to their feet? A feasibility study. *Journal of the Intensive Care Society*. November 2020. doi:[10.1177/1751143720970373](https://doi.org/10.1177/1751143720970373)
585. Matsuki R, Kojima N, Watanabe K, Hotta A, Kubori Y, Oura K, Morisawa T, Koyama H, Ebisu T, Hashino T. [Impact of a Rehabilitation Protocol and a Dedicated Therapist in the Intensive Care Unit on Physical Function and Activities of Daily Living.](https://pubmed.ncbi.nlm.nih.gov/33163685/) Prog Rehabil Med. 2020 Nov 6
586. Choong K, Zorko DJ, Awojoodu R, Ducharme-Crevier L, Fontela PS, Lee LA, Guerguerian AM, Garcia Guerra G, Krmpotic K, McKelvie B, Menon K, Murthy S, Sehgal A, Weiss MJ, Kudchadkar SR. [Prevalence of Acute Rehabilitation for Kids in the PICU: A Canadian Multicenter Point Prevalence Study.](https://pubmed.ncbi.nlm.nih.gov/33116069/) Pediatr Crit Care Med. 2020 Oct 28
587. Merino-Osorio C, Velásquez M, Reveco R, Marmolejo JI, Fu C. [24/7 Physical Therapy Intervention With Adult Patients in a Chilean Intensive Care Unit: A Cost-Benefit Analysis in a Developing Country.](https://pubmed.ncbi.nlm.nih.gov/33171360/) Value Health Reg Issues. 2020 Nov 6;23:99-104
588. Brown KD, Adams J, Meyer DM. [Exercise training with cycle ergometry in the intensive care unit after total artificial heart implantation.](https://pubmed.ncbi.nlm.nih.gov/33100567/) Proc (Bayl Univ Med Cent). 2020 Jul 13;33(4):674-676
589. Segers J, Vanhorebeek I, Langer D, Charususin N, Wei W, Frickx B, Demeyere I, Clerckx B, Casaer M, Derese I, Derde S, Pauwels L, Van den Berghe G, Hermans G, Gosselink R. [Early neuromuscular electrical stimulation reduces the loss of muscle mass in critically ill patients - A within subject randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33285371/) J Crit Care. 2020 Nov 28;62:65-71
590. Gatty A, Samuel SR, Alaparthi GK, Prabhu D, Upadya M, Krishnan S, Amaravadi SK. [Effectiveness of structured early mobilization protocol on mobility status of patients in medical intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/33228448/) Physiother Theory Pract. 2020 Nov 23:1-13
591. Bergbower EAS, Herbst C, Cheng N, Aversano A, Pasqualini K, Hartline C, Hamby-Finkelstein D, Brewer C, Benko S, Fuscaldo J. [A novel early mobility bundle improves length of stay and rates of readmission among hospitalized general medicine patients.](https://pubmed.ncbi.nlm.nih.gov/33235675/) J Community Hosp Intern Med Perspect. 2020 Sep 3;10(5):419-425
592. Braune S, Bojes P, Mecklenburg A, Angriman F, Soeffker G, Warnke K, Westermann D, Blankenberg S, Kubik M, Reichenspurner H, Kluge S. [Feasibility, safety, and resource utilisation of active mobilisation of patients on extracorporeal life support: a prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/33259044/) Ann Intensive Care. 2020 Dec 1;10(1):161
593. Parker AM, Nelliot A, Chessare CM, Malik AM, Koneru M, Hosey MM, Ozok AA, Lyons KD, Needham DM. [Usability and acceptability of a mobile application prototype for a combined behavioural activation and physical rehabilitation intervention in acute respiratory failure survivors.](https://pubmed.ncbi.nlm.nih.gov/32340769/) Aust Crit Care. 2020 Nov;33(6):511-517
594. [Robinson LR, Godleski M, Rehou S, Jeschke M. Impact of Introducing a Physical Medicine and Rehabilitation Consultation Service to an Academic Burn Center.](https://pubmed.ncbi.nlm.nih.gov/31120130/) J Burn Care Res. 2019 Aug 14;40(5):648-651.
595. Nickels MR, Aitken LM, Walsham J, Crampton LJ, Barnett AG, McPhail SM. [Exercise interventions are delayed in critically ill patients: a cohort study in an Australian tertiary intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/31648779/) Physiotherapy. 2020 Dec;109:75-84
596. Fazio SA, Doroy AL, Anderson NR, Adams JY, Young HM. [Standardisation, multi-measure, data quality and trending: A qualitative study on multidisciplinary perspectives to improve intensive care early mobility monitoring.](https://pubmed.ncbi.nlm.nih.gov/33199104/) Intensive Crit Care Nurs. 2020 Nov 14:102949
597. Scheffenbichler L, Teja B, Scheffenbichler F, Blobner M, Houle T, Eikermann M; SOMT Team. [Influence of the acuity of patients' illness on effectiveness of early, goal-directed mobilization in the intensive care unit: a post hoc analysis.](https://pubmed.ncbi.nlm.nih.gov/33239045/) Crit Care. 2020 Nov 25;24(1):663
598. Berney S, Hopkins RO, Rose JW, Koopman R, Puthucheary Z, Pastva A, Gordon I, Colantuoni E, Parry SM, Needham DM, Denehy L. [Functional electrical stimulation in-bed cycle ergometry in mechanically ventilated patients: a multicentre randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33323480/) Thorax. 2020 Dec 15:thoraxjnl-2020-215093
599. Guimarães BDS, de Souza LC, Cordeiro HF, Regis TL, Leite CA, Puga FP, Alvim SH, Lugon JR. [Inspiratory Muscle Training With an Electronic Resistive Loading Device Improves Prolonged Weaning Outcomes in a Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/33332819/) Crit Care Med. 2020 Dec 16
600. Yong SY, Siop S, Kho WM. [A cross-sectional study of early mobility practice in intensive care units in Sarawak Hospitals, Malaysia.](https://pubmed.ncbi.nlm.nih.gov/33318828/) Nurs Open. 2020 Oct 16;8(1):200-209
601. Mayer K et al Three-Fourths of ICU Physical Therapists Report Use of Assistive Equipment and Technology in Practice: Results of an International Survey. Journal of Acute Care Physical Therapy: [January 2021 - Volume 12 - Issue 1 - p 21-30](https://journals.lww.com/jacpt/pages/currenttoc.aspx)
602. Kwakman RCH, Sommers J, Horn J, Nollet F, Engelbert RHH, van der Schaaf M. [Steps to recovery: body weight-supported treadmill training for critically ill patients: a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/32414411/) Trials. 2020 May 15;21(1):409
603. Scheffenbichler FT, Teja B, Wongtangman K, Mazwi N, Waak K, Schaller SJ, Xu X, Barbieri S, Fagoni N, Cassavaugh J, Blobner M, Hodgson CL, Latronico N, Eikermann M. [Effects of the Level and Duration of Mobilization Therapy in the Surgical ICU on the Loss of the Ability to Live Independently: An International Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/33416257/) Crit Care Med. 2021 Jan 8;
604. Sun J, Han W, Cui N, Li Q, Wang H, Li Z, Luo H, Liu J. [Effect of Nurse-Led Goal-Directed Lung Physical Therapy on the Prognosis of Pneumonia in Sepsis Patients in the ICU: A Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/33511893/) J Intensive Care Med. 2021 Jan 29:885066620987200
605. Gupta N, Sones A, Powell M, Robbins J, Wilson S, Hill A, Thomas C, Ledbetter S, Schmidtke AG, Rutledge C, Hayes L. [Quality Improvement Methodology to Optimize Safe Early Mobility in a Pediatric Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/33403315/) Pediatr Qual Saf. 2020 Dec 28;6(1):e369
606. Newman ANL, Kho ME, Harris JE, Zamir N, McDonald E, Fox-Robichaud A, Solomon P; Canadian Critical Care Trials Group. [CardiO Cycle: a pilot feasibility study of in-bed cycling in critically ill patients post cardiac surgery.](https://pubmed.ncbi.nlm.nih.gov/33407923/) Pilot Feasibility Stud. 2021 Jan 7;7(1):13
607. Alqahtani M, Kashoo F, Alzhrani M, Ahmad F, Seyam MK, Ahmad M, Alhusaini AA, Melam GR, Buragadda S. [Current Physical Therapy Practice in the Intensive Care Unit in Saudi Arabia: A Multicentre Cross-Sectional Survey.](https://pubmed.ncbi.nlm.nih.gov/33457013/) Crit Care Res Pract. 2020 Dec 29;2020:6610027
608. Salvitti S, Repossini E. [Perception, experience and knowledge of early physiotherapy in intensive care units of Rome: a survey.](https://pubmed.ncbi.nlm.nih.gov/33377358/) Monaldi Arch Chest Dis. 2020 Dec 30;90(4)
609. Acheche A, Mekki M, Paillard T, Tabka Z, Trabelsi Y. [The Effect of Adding Neuromuscular Electrical Stimulation with Endurance and Resistance Training on Exercise Capacity and Balance in Patients with Chronic Obstructive Pulmonary Disease: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/33062081/) Can Respir J. 2020 Sep 29;2020:9826084
610. Rapolthy-Beck A, Fleming J, Turpin M, Sosnowski K, Dullaway S, White H. [A comparison of standard occupational therapy versus early enhanced occupation-based therapy in a medical/surgical intensive care unit: study protocol for a single site feasibility trial (EFFORT-ICU).](https://pubmed.ncbi.nlm.nih.gov/33602337/) Pilot Feasibility Stud. 2021 Feb 18;7(1):51.
611. Rudra RT, Lin D, Miller B, Du P, Zhang S. [Investigating inpatient rehabilitation outcomes of patients with intensive care unit acquired weakness, and identifying comorbidities associated with unfavorable outcomes.](https://pubmed.ncbi.nlm.nih.gov/33528114/) PM R. 2021 Feb 2. doi: 10.1002/pmrj.12565
612. Turner-Stokes et al. The post-ICU presentation screen (PICUPS) and rehabilitation prescription (RP) for intensive care survivors part I: Development and preliminary clinimetric evaluation. Journal of Intensive Care Society 2021 [https://doi.org/10.1177/1751143720988715](https://doi.org/10.1177%2F1751143720988715)
613. Fardansh et al Improving Rehabilitation Information-Giving to Intensive Care Unit Survivors to Aid in Physical and Psychological Recovery. Cureus 2021 DOI: 10.7759/cureus.13247
614. Montgomery CD, Pereira DE, Hatcher JB, Kilbury D, Ballance S, Bradham T, Duggan MC, Welch SA. [Improving the assessment and documentation of patient mobility using a quality improvement framework.](https://pubmed.ncbi.nlm.nih.gov/33561614/) Geriatr Nurs. 2021 Feb 6;42(2):325-330
615. Mohan S, Patodia S, Kumaravel S, Venkataraman R, Vijayaraghavan BKT. Indian [Improving Mobility in Critically Ill Patients in a Tertiary Care ICU: Opportunities and Challenges.](https://pubmed.ncbi.nlm.nih.gov/33603299/) J Crit Care Med. 2021 Jan;25(1):34-42
616. Major ME, Ramaekers SPJ, Engelbert RHH, Van der Schaaf M. [Preparing undergraduate students for clinical work in a complex environment: evaluation of an e-learning module on physiotherapy in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/32345330/) BMC Med Educ. 2020 Apr 28;20(1):130
617. Burge AT, Rodrigues JC, Abramson MJ, Cox NS, Bondarenko J, Webb E, Marceau T, Handley E, Macdonald H, Askin A, Calasans GASA, do Amaral DP, Dreger J, Corso SD, Holland AE. [Application of the Modified Incremental Step Test for Pulmonary Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/33528020/) Phys Ther. 2021 Feb 1:pzab044
618. Joseph P, Arevalo C, Oliveira RKF, Faria-Urbina M, Felsenstein D, Oaklander AL, Systrom DM. [Insights from Invasive Cardiopulmonary Exercise Testing of Patients with Myalgic Encephalomyelitis/Chronic Fatigue Syndrome.](https://pubmed.ncbi.nlm.nih.gov/33577778/) Chest. 2021 Feb 9:S0012-3692(21)00256-7.
619. Nakanishi N, Doi S, Kawahara Y, Shiraishi M, Oto J. [Effect of vibration therapy on physical function in critically ill adults (VTICIA trial): protocol for a single-blinded randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33653754/) BMJ Open. 2021 Mar 2;11(3):e043348
620. Zink EK, Kumble S, Beier M, George P, Stevens RD, Bahouth MN. [Physiological Responses to In-Bed Cycle Ergometry Treatment in Intensive Care Unit Patients with External Ventricular Drainage.](https://pubmed.ncbi.nlm.nih.gov/33751389/) Neurocrit Care. 2021 Mar 22:1-7.
621. Anh NTK, Yen LM, Nguyen NT, Nhat PTH, Thuy TTD, Phong NT, Tuyen PT, Yen NH, Chambers M, Hao NV, Rollinson T, Denehy L, Thwaites CL. [Feasibility of establishing a rehabilitation programme in a Vietnamese intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/33657158/) PLoS One. 2021 Mar 3;16(3):e0247406
622. Gustafson et al (2021). A human factors analysis of missed mobilisation after discharge from intensive care: A competition for care? Physiotherapy <https://doi.org/10.1016/j.physio.2021.03.013>
623. Babazadeh M, Jahani S, Poursangbor T, Cheraghian B. J [Perceived barriers to early mobilization of intensive care unit patients by nurses in hospitals affiliated to Jundishapur University of Medical Sciences of Ahvaz in 2019.](https://pubmed.ncbi.nlm.nih.gov/33767793/) Med Life. 2021 Jan-Mar;14(1):100-104
624. Potter K, Miller S, Newman S. [Patient-Level Barriers and Facilitators to Early Mobilization and the Relationship With Physical Disability Post-Intensive Care: Part 2 of an Integrative Review Through the Lens of the World Health Organization International Classification of Functioning, Disability, and Health.](https://pubmed.ncbi.nlm.nih.gov/33792276/) Dimens Crit Care Nurs. 2021 May-Jun 01;40(3):164-173
625. Ista E, Scholefield BR, Manning JC, Harth I, Gawronski O, Bartkowska-Śniatkowska A, Ramelet AS, Kudchadkar SR; EU PARK-PICU Collaborators. [Mobilization practices in critically ill children: a European point prevalence study (EU PARK-PICU).](https://pubmed.ncbi.nlm.nih.gov/32576273/) Crit Care. 2020 Jun 24;24(1):368
626. Ghafoor S, Fan K, Williams S, Brown A, Bowman S, Pettit KL, Gorantla S, Quillivan R, Schwartzberg S, Curry A, Parkhurst L, James M, Smith J, Canavera K, Elliott A, Frett M, Trone D, Butrum-Sullivan J, Barger C, Lorino M, Mazur J, Dodson M, Melancon M, Hall LA, Rains J, Avent Y, Burlison J, Wang F, Pan H, Lenk MA, Morrison RR, Kudchadkar SR. [Beginning Restorative Activities Very Early: Implementation of an Early Mobility Initiative in a Pediatric Onco-Critical Care Unit.](https://pubmed.ncbi.nlm.nih.gov/33763377/) Front Oncol. 2021 Mar 8;11:645716.
627. Patel RV, Redivo J, Nelliot A, Eakin MN, Wieczorek B, Quinn J, Gurses AP, Balas MC, Needham DM, Kudchadkar SR. [Early Mobilization in a PICU: A Qualitative Sustainability Analysis of PICU Up!](https://pubmed.ncbi.nlm.nih.gov/33315754/) Pediatr Crit Care Med. 2021 Apr 1;22(4):e233-e242
628. Wong AI, Cheung PC, Zhang J, Cotsonis G, Kutner M, Gay PC, Collop NA. [Randomized Controlled Trial of a Novel Communication Device Assessed During Noninvasive Ventilation Therapy.](https://pubmed.ncbi.nlm.nih.gov/33011202/) Chest. 2020 Oct 1;159(4):1531-9.
629. Hayes K, Holland AE, Pellegrino VA, Young M, Paul E, Hodgson CL. [Early rehabilitation during extracorporeal membrane oxygenation has minimal impact on physiological parameters: A pilot randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33039302/) Aust Crit Care. 2021 May;34(3):217-225
630. Betters KA, Le TM, Gong W, Lindsell CJ, Smith HA, Smith AH. [Utilization of ICU Rehabilitation Services in Pediatric Patients With a Prolonged ICU Stay.](https://pubmed.ncbi.nlm.nih.gov/33870920/) Crit Care Med. 2021 Apr 16
631. Lewis M, Cumming L, Twose P. [Comparison of perceptions and barriers to mobilization in critical care: A comparison of nursing staff and physiotherapists-A single-site service evaluation.](https://pubmed.ncbi.nlm.nih.gov/33818896/) Nurs Crit Care. 2021 Apr 5
632. Waldauf P, Hrušková N, Blahutova B, Gojda J, Urban T, Krajčová A, Fric M, Jiroutková K, Řasová K, Duška F. [Functional electrical stimulation-assisted cycle ergometry-based progressive mobility programme for mechanically ventilated patients: randomised controlled trial with 6 months follow-up.](https://pubmed.ncbi.nlm.nih.gov/33931570/) Thorax. 2021 Apr 30:thoraxjnl-2020-215755.
633. Kitzman DW, Whellan DJ, Duncan P, Pastva AM, Mentz RJ, Reeves GR, Nelson MB, Chen H, Upadhya B, Reed SD, Espeland MA, Hewston L, O'Connor CM. [Physical Rehabilitation for Older Patients Hospitalized for Heart Failure.](https://pubmed.ncbi.nlm.nih.gov/33999544/) N Engl J Med. 2021 May 16
634. Takahashi T, Kato M, Obata K, Kozu R, Fujimoto T, Yamashita K, Ando M, Kawai Y, Kojima N, Komatsu H, Nakamura K, Yamashita Y, Patman S, Utsunomiya A, Nishida O. [Minimum standards of clinical practice for physical therapists working in intensive care units in Japan.](https://pubmed.ncbi.nlm.nih.gov/33981528/) Phys Ther Res. 2020 Nov 25;24(1):52-68
635. Paton M, Lane R, Paul E, Cuthburtson GA, Hodgson CL. [Mobilization During Critical Illness: A Higher Level of Mobilization Improves Health Status at 6 Months, a Secondary Analysis of a Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/33967203/) Crit Care Med. 2021 May 10. doi: 10.1097/CCM.0000000000005058.
636. Raurell-Torredà M, Arias-Rivera S, Martí JD, Frade-Mera MJ, Zaragoza-García I, Gallart E, Velasco-Sanz TR, San José-Arribas A, Blazquez-Martínez E; MOviPre group. [Variables associated with mobility levels in critically ill patients: A cohort study.](https://pubmed.ncbi.nlm.nih.gov/34008238/) Nurs Crit Care. 2021 May 18.
637. Liew SM, Mordiffi SZ, Ong YJA, Lopez V. [Nurses' perceptions of early mobilisation in the adult Intensive Care Unit: A qualitative study.](https://pubmed.ncbi.nlm.nih.gov/33931291/) Intensive Crit Care Nurs. 2021 Apr 27:103039
638. Felten-Barentsz et al Family participation during physical activity in the intensive care unit: A longitudinal qualitative study. Journal of Critical Care 2021 <https://doi.org/10.1016/j.jcrc.2021.05.004>
639. Udina C, Ars J, Morandi A, Vilaró J, Cáceres C, Inzitari M. [Rehabilitation in adult post-COVID-19 patients in post-acute care with Therapeutic Exercise.](https://pubmed.ncbi.nlm.nih.gov/34105716/) J Frailty Aging. 2021;10(3):297-300
640. Hodgson CL, Fulcher B, Mariajoseph FP, Burrell AJC, Pellegrino V, Brodie D, Fan E; SCOPE Study Investigators on behalf of the International ECMO Network. [A Core Outcome Set for Research in Patients on Extracorporeal Membrane Oxygenation.](https://pubmed.ncbi.nlm.nih.gov/34074857/) Crit Care Med. 2021 Jun 2.
641. Jin Y, Di J, Wang X. [Early rehabilitation nursing in ICU promotes rehabilitation of patients with respiratory failure treated with invasive mechanical ventilation.](https://pubmed.ncbi.nlm.nih.gov/34150113/) Am J Transl Res. 2021 May 15;13(5):5232-5239
642. Das B, Saha S, Kabir F, Hossain S. [Effect of Graded Early Mobilization on Psychomotor Status and Length of Intensive Care Unit Stay in Mechanically Ventilated Patients.](https://pubmed.ncbi.nlm.nih.gov/34045809/) Indian J Crit Care Med. 2021 Apr;25(4):416-420
643. Katsukawa H, Ota K, Liu K, Morita Y, Watanabe S, Sato K, Ishii K, Yasumura D, Takahashi Y, Tani T, Oosaki H, Nanba T, Kozu R, Kotani T. [Risk Factors of Patient-Related Safety Events during Active Mobilization for Intubated Patients in Intensive Care Units-A Multi-Center Retrospective Observational Study.](https://pubmed.ncbi.nlm.nih.gov/34199207/) J Clin Med. 2021 Jun 13;10(12):2607
644. Ames SG, Alessi LJ, Chrisman M, Stanger M, Corboy D, Sinha A, Fink EL. [Development and Implementation of Pediatric ICU-based Mobility Guidelines: A Quality Improvement Initiative.](https://pubmed.ncbi.nlm.nih.gov/34046543/) Pediatr Qual Saf. 2021 May 19;6(3):e414
645. Sousa MLA, Coimbra VRM, Takei MT, Melo CCA, Feltrim MIZ, Nozawa E. [Physiological abnormalities and adverse events during physical therapy in the intensive care unit after cardiac surgery: A prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/34045123/) Braz J Phys Ther. 2021 May 13:S1413-3555(21)00027-7.
646. Semsar-Kazerooni K, Dima D, Valiquette J, Berube-Dufour J, Goldfarb M. [Early Mobilization in People With Acute Cardiovascular Disease.](https://pubmed.ncbi.nlm.nih.gov/32739452/) Can J Cardiol. 2021 Feb;37(2):232-240
647. Abrams D, Madahar P, Eckhardt CM, Short B, Yip NH, Parekh M, Serra A, Dubois RL, Saleem D, Agerstrand C, Scala P, Benvenuto L, Arcasoy SM, Sonett JR, Takeda K, Meier A, Beck J, Ryan P, Fan E, Hodgson CL, Bacchetta M, Brodie D. [Early Mobilization during ECMO for Cardiopulmonary Failure in Adults: Factors Associated with Intensity of Treatment.](https://pubmed.ncbi.nlm.nih.gov/34077700/) Ann Am Thorac Soc. 2021 Jun 2.
648. Newman ANL, Kho ME, Harris JE, Fox-Robichaud A, Solomon P. [The experiences of cardiac surgery critical care clinicians with in-bed cycling in adult patients undergoing complex cardiac surgery.](https://pubmed.ncbi.nlm.nih.gov/34027750/) Disabil Rehabil. 2021 May 23:1-8
649. Sosnowski K, Mitchell M, Cooke M, White H, Morrison L, Lin F. [Effectiveness of the ABCDEF bundle on delirium, functional outcomes and quality of life in intensive care patients: a study protocol for a randomised controlled trial with embedded process evaluation.](https://pubmed.ncbi.nlm.nih.gov/34266839/) BMJ Open. 2021 Jul 15;11(7):e044814
650. Nejkov S, Bokan-Mirković V, Đukić-Macut N, Vuković M. [EFFECT OF PREOPERATIVE RESPIRATORY REHABILITATION IN PATIENTS UNDERGOING CARDIAC SURGERY.](https://pubmed.ncbi.nlm.nih.gov/34285430/) Acta Clin Croat. 2020 Dec;59(4):597-604
651. Shpata V, Kreka M, Tani K. [Current Physiotherapy Practice in Intensive Care Units Needs Cultural and Organizational Changes: An Observational Cross-Sectional Study in Two Albanian University Hospitals.](https://pubmed.ncbi.nlm.nih.gov/34262288/) J Multidiscip Healthc. 2021 Jul 8;14:1769-1781.
652. Lago AF, Nicholson AJ, Sivasuthan J, Gastaldi AC, Bowen A, Stratton A, Tipping C, Campbell C, Pound G, McCleary K, Thomas L, Nickels M, Paykel M, Shealy M, Hodgson C. [The perceived barriers and facilitators to implementation of early mobilisation within a multicentre, phase 3 randomised controlled trial: A qualitative process evaluation study.](https://pubmed.ncbi.nlm.nih.gov/34321182/) Aust Crit Care. 2021 Jul 25:S1036-7314(21)00102-8
653. Akhtar PM, Deshmukh PK. [Knowledge, Attitudes, and Perceived Barriers of Healthcare Providers toward Early Mobilization of Adult Critically Ill Patients in Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/34177169/) Indian J Crit Care Med. 2021 May;25(5):512-518.
654. de Cássia Artuni Rossi M, Corrêa TQ, Blanco KC, Bagnato VS, Salvio AG. [Physiotherapy elastic band disinfection by UV-C irradiation in an intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/33771756/) Photodiagnosis Photodyn Ther. 2021 Jun;34:102262
655. Curtz J, Mazariegos J, Adeyemo J, Smith C, DiOrio A, Logan K, Russell H. [Responding to an Emerging Need: Implementing Telehealth in Acute Hospital Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/34089694/) Arch Phys Med Rehabil. 2021 Jun 4:S0003-9993(21)00432-9
656. Parke S, Hough CL, E Bunnell A. [The Feasibility and Acceptability of Virtual Therapy Environments for Early ICU Mobilization.](https://pubmed.ncbi.nlm.nih.gov/32107863/) PM R. 2020 Dec;12(12):1214-1221.
657. Ista E, Redivo J, Kananur P, Choong K, Colleti J Jr, Needham DM, Awojoodu R, Kudchadkar SR; International PARK-PICU Investigators. [Assessing Pain, Both Spontaneous Awakening and Breathing Trials, Choice of Sedation, Delirium Monitoring/Management, Early Exercise/Mobility, and Family Engagement/Empowerment Bundle Practices for Critically Ill Children: An International Survey of 161 PICUs in 18 Countries.](https://pubmed.ncbi.nlm.nih.gov/34259659/) Crit Care Med. 2021 Jul 13.
658. Otusanya OT, Hsieh SJ, Gong MN, Gershengorn HB. [Impact of ABCDE Bundle Implementation in the Intensive Care Unit on Specific Patient Costs.](https://pubmed.ncbi.nlm.nih.gov/34286609/) J Intensive Care Med. 2021
659. Pal C, Fu C, Carvalho CRR, Auler Júnior JOC, Yamauchi LY. [Association of the mobility level of critically ill adult patients with the success of extubation: protocol for a cohort study.](https://pubmed.ncbi.nlm.nih.gov/34266834/) BMJ Open. 2021 Jul 15;11(7):e040693
660. Hiser S, Chung CR, Toonstra A, Friedman LA, Colantuoni E, Hoyer E, Needham DM. [Inter-rater reliability of the Johns Hopkins Highest Level of Mobility Scale (JH-HLM) in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/32811787/) Braz J Phys Ther. 2021 May-Jun;25(3):352-355
661. Alcazar J, Alegre LM, Van Roie E, Magalhães JP, Nielsen BR, González-Gross M, Júdice PB, Casajús JA, Delecluse C, Sardinha LB, Suetta C, Ara I. [Relative sit-to-stand power: aging trajectories, functionally relevant cut-off points, and normative data in a large European cohort.](https://pubmed.ncbi.nlm.nih.gov/34216098/) J Cachexia Sarcopenia Muscle. 2021 Jul 3
662. Iwai K, Hisano T, Komada R, Miyai T, Sakai K, Torimoto M, Tsujita Y. [Effect of Early Rehabilitation in the Intensive Care Unit by a Dedicated Therapist Using a Rehabilitation Protocol: A Single-center Retrospective Study.](https://pubmed.ncbi.nlm.nih.gov/34395932/) Prog Rehabil Med. 2021 Aug 4;6:20210030
663. Igeño-Cano JC. [Benefits of walks in the outdoor gardens of the hospital in critically ill patients, relatives and professionals. #healingwalks.](https://pubmed.ncbi.nlm.nih.gov/31690465/) Med Intensiva (Engl Ed). 2020 Oct;44(7):446-448.
664. Rollinson TC, Connolly B, Berlowitz DJ, Berney S. [Physical activity of patients with critical illness undergoing rehabilitation in intensive care and on the acute ward: An observational cohort study.](https://pubmed.ncbi.nlm.nih.gov/34389239/) Aust Crit Care. 2021 Aug 10:S1036-7314(21)00096-5
665. Klein SR, Gulart AA, Venâncio RS, Munari AB, Gavenda SG, Martins ACB, Mayer AF. [Performance difference on the six-minute walk test on tracks of 20 and 30 meters for patients with chronic obstructive pulmonary disease: validity and reliability.](https://pubmed.ncbi.nlm.nih.gov/32007324/) Braz J Phys Ther. 2021 Jan-Feb;25(1):40-47
666. Riegler TF, Frei A, Haile SR, Radtke T. [Accompanied *versus* unaccompanied walking for continuous oxygen saturation measurement during 6-min walk test in COPD: a randomised crossover study.](https://pubmed.ncbi.nlm.nih.gov/34350276/) ERJ Open Res. 2021 Aug 2;7(3):00921-2020.
667. Tadyanemhandu C, van Aswegen H, Ntsiea V. [Barriers and facilitators to implementation of early mobilisation of critically ill patients in Zimbabwean and South African public sector hospitals: a qualitative study.](https://pubmed.ncbi.nlm.nih.gov/34461792/) Disabil Rehabil. 2021 Aug 30:1-11
668. Jacob P, Gupta P, Shiju S, Omar AS, Ansari S, Mathew G, Varghese M, Pulimoottil J, Varkey S, Mahinay M, Jesus D, Surendran P. [Multidisciplinary, early mobility approach to enhance functional independence in patients admitted to a cardiothoracic intensive care unit: a quality improvement programme.](https://pubmed.ncbi.nlm.nih.gov/34535456/) BMJ Open Qual. 2021 Sep;10(3):e001256
669. Watanabe S, Liu K, Morita Y, Kanaya T, Naito Y, Arakawa R, Suzuki S, Katsukawa H, Lefor AK, Hasegawa Y, Kotani T. Nagoya [Changes in barriers to implementing early mobilization in the intensive care unit: a single center retrospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/34552282/) J Med Sci. 2021 Aug;83(3):443-464
670. Hearn E, Gosselink R, Freene N, Boden I, Green M, Bissett B [Inspiratory muscle training in intensive care unit patients: An international cross-sectional survey of physiotherapist practice.](https://pubmed.ncbi.nlm.nih.gov/34507849/) Aust Crit Care. 2021 Sep 8:S1036-7314(21)00128-4
671. Jeffery AD, Werthman JA, Danesh V, Dietrich MS, Mion LC, Boehm LM. [Assess, Prevent, and Manage Pain; Both Spontaneous Awakening and Breathing Trials; Choice of Analgesia/Sedation; Delirium: Assess, Prevent, and Manage; Early Mobility; Family Engagement and Empowerment Bundle Implementation: Quantifying the Association of Access to Bundle-Enhancing Supplies and Equipment.](https://pubmed.ncbi.nlm.nih.gov/34549188/) Crit Care Explor. 2021 Sep 14;3(9):e0525
672. Supinski GS, Netzel PF, Westgate PM, Schroder EA, Wang L, Callahan LA. [A randomized controlled trial to determine whether beta-hydroxy-beta-methylbutyrate and/or eicosapentaenoic acid improves diaphragm and quadriceps strength in critically Ill mechanically ventilated patients.](https://pubmed.ncbi.nlm.nih.gov/34446067/) Crit Care. 2021 Aug 26;25(1):308
673. [Impact of β-hydroxy-β-methylbutyrate (HMB) on muscle loss and protein metabolism in Viana MV, Becce F, Pantet O, Schmidt S, Bagnoud G, Thaden JJ, Ten Have GAM, Engelen MPKJ, Voidey A, Deutz NEP, Berger MM. critically ill patients: A RCT.](https://pubmed.ncbi.nlm.nih.gov/34358832/) Clin Nutr. 2021 Aug;40(8):4878-4887
674. Dong Z, Liu Y, Gai Y, Meng P, Lin H, Zhao Y, Xing J. [Early rehabilitation relieves diaphragm dysfunction induced by prolonged mechanical ventilation: a randomised control study.](https://pubmed.ncbi.nlm.nih.gov/33781259/) BMC Pulm Med. 2021 Mar 29;21(1):106
675. Riberholt CG, Olsen MH, Søndergaard CB, Gluud C, Ovesen C, Jakobsen JC, Mehlsen J, Møller K. [Early Orthostatic Exercise by Head-Up Tilt With Stepping vs. Standard Care After Severe Traumatic Brain Injury Is Feasible.](https://pubmed.ncbi.nlm.nih.gov/33935935/) Front Neurol. 2021 Apr 14;12:626014
676. Vlake JH, Van Bommel J, Wils EJ, Korevaar TIM, Bienvenu OJ, Klijn E, Gommers D, van Genderen ME. [Virtual Reality to Improve Sequelae of the Postintensive Care Syndrome: A Multicenter, Randomized Controlled Feasibility Study.](https://pubmed.ncbi.nlm.nih.gov/34549192/) Crit Care Explor. 2021 Sep 14;3(9):e0538
677. Pengelly J, Royse C, Williams G, Bryant A, Clarke-Errey S, Royse A, El-Ansary D. [Effects of 12-Week Supervised Early Resistance Training (SEcReT) Versus Aerobic-Based Rehabilitation on Cognitive Recovery Following Cardiac Surgery via Median Sternotomy: A Pilot Randomised Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/34627672/) Heart Lung Circ. 2021 Oct 6:S1443-9506(21)01246-4
678. Köse S, Avşar G. [Impact of Early and Regular Mobilization on Vital Signs and Oxygen Saturation in Patients Undergoing Open-Heart Surgery.](https://pubmed.ncbi.nlm.nih.gov/33355786/) Braz J Cardiovasc Surg. 2021 Aug 6;36(4):506-514
679. Eimer C, Freier K, Weiler N, Frerichs I, Becher T. [The Effect of Physical Therapy on Regional Lung Function in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/34616313/) Front Physiol. 2021 Sep 20;12:749542
680. Cooper D, Gasperini M, Parkosewich JA. [Nurses' Perceptions of Barriers to Out-of-Bed Activities Among Patients Receiving Mechanical Ventilation.](https://pubmed.ncbi.nlm.nih.gov/34195779/) Am J Crit Care. 2021 Jul 1;30(4):266-274
681. Bright L, Van Der Lee L, Hince D, Wood FM, Edgar DW. [Quantification of the negative impact of sedation and inotropic support on achieving early mobility in burn patients in ICU: A single center observational study.](https://pubmed.ncbi.nlm.nih.gov/34629185/) Burns. 2021 Sep 24:S0305-4179(21)00262-X.
682. de Azevedo JRA, Lima HCM, Frota PHDB, Nogueira IROM, de Souza SC, Fernandes EAA, Cruz AM. [High-protein intake and early exercise in adult intensive care patients: a prospective, randomized controlled trial to evaluate the impact on functional outcomes.](https://pubmed.ncbi.nlm.nih.gov/34773985/)  BMC Anesthesiol. 2021 Nov 13;21(1):283
683. Liang Z, Yip H, Sena Moore K, Ferreira T, Ji M, Signorile JF, Munro C. [Self-Managed Music-Guided Exercise Intervention Improved Upper and Lower Extremity Muscle Strength for ICU Survivors-A Pilot Randomized Controlled Study.](https://pubmed.ncbi.nlm.nih.gov/34738474/) Biol Res Nurs. 2021 Nov 5:10998004211050297
684. McCarty CA, Renier CM, Conway PG, Vogel L, Woehrle TA, Anderson LA, Hanson EJ, Benrud LM, Gerchman-Smith M. [Development, Implementation, and Evaluation of an Early Mobility Protocol in a Regional Level II Trauma Center.](https://pubmed.ncbi.nlm.nih.gov/34818301/) Crit Care Nurs Q. 2022 Jan-Mar 01;45(1):83-87
685. Patrick K, Adams A. [Mobilization of Patients Receiving Extracorporeal Membrane Oxygenation Before Lung Transplant.](https://pubmed.ncbi.nlm.nih.gov/34333616/) Crit Care Nurse. 2021 Aug 1;41(4):39-45
686. Sharma S, Lupera MA, Chan A, Nurok M, Ansryan LZ, Coleman B. [Safety First: An Ambulation Protocol for Patients With Pulmonary Artery Catheters.](https://pubmed.ncbi.nlm.nih.gov/33560433/) Crit Care Nurse. 2021 Feb 1;41(1):45-52
687. Idris I, Awotidebe AW, Mukhtar NB, Ativie RN, Nuhu JM, Muhammad IC, Danbatta AS, Adedoyin RA, Mohammed [Expert consensus on the minimum clinical standards of practice for Nigerian physiotherapists working in intensive care units: A modified Delphi study.](https://pubmed.ncbi.nlm.nih.gov/34761211/) J. Afr J Thorac Crit Care Med. 2021 Oct 4;27(3):10.7196/AJTCCM.2021.v27i3.137.
688. Gustafson OD, Vollam S, Morgan L, Watkinson P. [A human factors analysis of missed mobilisation after discharge from intensive care: a competition for care?](https://pubmed.ncbi.nlm.nih.gov/34571285/) Physiotherapy. 2021 Dec;113:131-137
689. Morrow BM. [Building a culture of early mobilization in the pediatric intensive care unit-a nuts and bolts approach.](https://pubmed.ncbi.nlm.nih.gov/34765506/) Transl Pediatr. 2021 Oct;10(10):2845-2857
690. Luna ECW, Perme C, Gastaldi AC. [Relationship between potential barriers to early mobilization in adult patients during intensive care stay using the Perme ICU Mobility score.](https://pubmed.ncbi.nlm.nih.gov/34820503/) Can J Respir Ther. 2021 Nov 22;57:148-153
691. Salvitti S, Repossini E. Monaldi [Perception, experience and knowledge of early physiotherapy in intensive care units of Rome: a survey.](https://pubmed.ncbi.nlm.nih.gov/33377358/) Arch Chest Dis. 2020 Dec 30;90(4)
692. Rawal H, Cornelison SD, Flynn SM, Ohar JA. [Will Remotely Based Pulmonary Rehabilitation Water Down Its Effectiveness?](https://pubmed.ncbi.nlm.nih.gov/34833145/) Life (Basel). 2021 Nov 20;11(11):1270
693. de Campos Biazon TMP, Libardi CA, Junior JCB, Caruso FR, da Silva Destro TR, Molina NG, Borghi-Silva A, Mendes RG. [The effect of passive mobilization associated with blood flow restriction and combined with electrical stimulation on cardiorespiratory safety, neuromuscular adaptations, physical function, and quality of life in comatose patients in an ICU: a randomized controlled clinical trial.](https://pubmed.ncbi.nlm.nih.gov/34969405/) Trials. 2021 Dec 30;22(1):969
694. Nakano H, Naraba H, Hashimoto H, Mochizuki M, Takahashi Y, Sonoo T, Ogawa Y, Matsuishi Y, Shimojo N, Inoue Y, Nakamura K. [Novel protocol combining physical and nutrition therapies, Intensive Goal-directed REhabilitation with Electrical muscle stimulation and Nutrition (IGREEN) care bundle.](https://pubmed.ncbi.nlm.nih.gov/34863251/) Crit Care. 2021 Dec 4;25(1):415
695. Sun, J., Cui, N., Han, W., Li, Q., Wang, H., Li, Z., Cheng, W., Luo, H., & Zhao, M. (2021). [Implementation of Nurse-Led, Goal-Directed Lung Physiotherapy for Older Patients With Sepsis and Pneumonia in the ICU](https://pubmed.ncbi.nlm.nih.gov/34881259/). *Frontiers in medicine*, *8*, 753620
696. Thiolliere F, Allaouchiche B, Boyer H, Marie M, Friggeri A, Vacheron CH; AZUREA Study group. [Association between out-of-bed mobilization during the ICU stay of elderly patients and long-term autonomy: A cohort study.](https://pubmed.ncbi.nlm.nih.gov/34844035/) J Crit Care. 2021 Nov 26;68:10-15
697. Sasano N, Kato Y, Tanaka A, Kusama N. [Out-of-the-ICU Mobilization in Critically Ill Patients: The Safety of a New Model of Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/35018344/) Crit Care Explor. 2022 Jan 5;4(1):e0604.
698. Nakamura K, Ohbe H, Uda K, Fushimi K, Yasunaga H. [Early rehabilitation after acute myocardial infarction: A nationwide inpatient database study.](https://pubmed.ncbi.nlm.nih.gov/34229920/) J Cardiol. 2021 Nov;78(5):456-462
699. O'Neil AM, Rush C, Griffard L, Roggy D, Boyd A, Hartman B. [5 -Year Retrospective Analysis of a Vented Mobility Algorithm in the Burn ICU.](https://pubmed.ncbi.nlm.nih.gov/34978322/) J Burn Care Res. 2022 Jan 3:irab248
700. Smailes S, Spoors C, da Costa FM, Martin N, Barnes D. [Early tracheostomy and active exercise programmes in adult intensive care patients with severe burns.](https://pubmed.ncbi.nlm.nih.gov/34955297/) Burns. 2021 Oct 27:S0305-4179(21)00290-4
701. Mayer KP, Pastva AM, Du G, Hatchett SP, Chang M, Henning AN, Maher B, Morris PE, Zwischenberger JB. [Mobility Levels with Physical Rehabilitation Delivered during and after Extracorporeal Membrane Oxygenation (ECMO): A Marker of Illness Severity, or an Indication of Recovery?](https://pubmed.ncbi.nlm.nih.gov/34972871/) Phys Ther. 2021 Dec 23:pzab301
702. Tonna JE. [Is Active Mobility the Most Underdelivered Care Component for Patients on Extracorporeal Membrane Oxygenation?](https://pubmed.ncbi.nlm.nih.gov/34971354/) Ann Am Thorac Soc. 2022 Jan;19(1):9-11
703. Alaparthi GK, Raigangar V, Chakravarthy Bairapareddy K, Gatty A, Mohammad S, Alzarooni A, Atef M, Abdulrahman R, Redha S, Rashid A, Tamim M. [A national survey in United Arab Emirates on practice of passive range of motion by physiotherapists in intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/34415966/) PLoS One. 2021 Aug 20;16(8):e0256453
704. Ull C, Hamsen U, Weckwerth C, Schildhauer TA, Gaschler R, Jansen O, Waydhas C [The use of predefined scales and scores with eye-tracking devices for symptom identification in critically ill non-verbal patients.](https://pubmed.ncbi.nlm.nih.gov/34908025/) . J Trauma Acute Care Surg. 2021 Dec 14
705. Malcolm MP, Kinney AR, Graham JE. [Predicting Community Discharge for Occupational Therapy Recipients in the Neurological Critical Care Unit.](https://pubmed.ncbi.nlm.nih.gov/34935915/) Am J Occup Ther. 2022 Jan 1;76(1):7601345010
706. Cerqueira TCF, de Cerqueira Neto ML, Cacau LAP, de Araújo Filho AA, Oliveira GU, da Silva Júnior WM, Carvalho VO, de Mendonça JT, de Santana Filho VJ. [Effect of neuromuscular electrical stimulation on functional exercise capacity in patients undergoing cardiac surgery: A randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/34971331/) Clin Rehabil. 2021 Dec 31:2692155211070945
707. Mudge AM, McRae P, Banks M, Blackberry I, Barrimore S, Endacott J, Graves N, Green T, Harvey G, Hubbard R, Kurrle S, Lim WK, Lee-Steere K, Masel P, Pandy S, Young A, Barnett A, Inouye SK. [Effect of a Ward-Based Program on Hospital-Associated Complications and Length of Stay for Older Inpatients: The Cluster Randomized CHERISH Trial.](https://pubmed.ncbi.nlm.nih.gov/35006265/) JAMA Intern Med. 2022 Jan 10:e217556
708. Cuevas-Lara C, Sáez de Asteasu ML, Ramírez-Vélez R, Izquierdo M, Zambom-Ferraresi F, Antoñanzas-Valencia C, Galbete A, Zambom-Ferraresi F, Martínez-Velilla N. [Effects of game-based interventions on functional capacity in acutely hospitalised older adults: results of an open-label non-randomised clinical trial.](https://pubmed.ncbi.nlm.nih.gov/35077558/) Age Ageing. 2022 Jan 6;51(1):afab247
709. Saiphoklang N, Pugongchai A, Leelasittikul K. [Comparison between 20 and 30 meters in walkway length affecting the 6-minute walk test in patients with chronic obstructive pulmonary disease: A randomized crossover study.](https://pubmed.ncbi.nlm.nih.gov/34995334/) PLoS One. 2022 Jan 7;17(1):e0262238
710. LaPatra T, Baird GL, Goodman R, Pinder D, Gaffney M, Klinger JR, Palevsky HI, Fritz J, Mullin CJ, Mazurek JA, Kawut SM, **Ventetuolo CE.** [Remote Six-Minute Walk Testing in Patients with Pulmonary Hypertension: A Pilot Study.](https://pubmed.ncbi.nlm.nih.gov/35015981/) Am J Respir Crit Care Med. 2022 Jan 11.
711. Levin C, Zisberg A, Gil E, Rand D, Agmon M. ['Behind the scenes' of accelerometer use to quantify in-hospital mobility of older adults.](https://pubmed.ncbi.nlm.nih.gov/35085570/) Arch Phys Med Rehabil. 2022
712. Kwakman RCH, Voorn EL, Horn J, Nollet F, Engelbert RHH, Sommers J, van der Schaaf M. [Steps to recovery: Body weight-supported treadmill training for critically ill patients: A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35124345/) J Crit Care. 2022 Feb 3;69:154000.
713. Eggmann S, Irincheeva I, Luder G, Verra ML, Moser A, Bastiaenen CHG, Jakob SM. [Cardiorespiratory response to early rehabilitation in critically ill adults: A secondary analysis of a randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35113899/) PLoS One. 2022 Feb 3;17(2):e0262779
714. Reis NFD, Biscaro RRM, Figueiredo FCXS, Lunardelli ECB, Silva RMD. Rev [Early Rehabilitation Index: translation and cross-cultural adaptation to Brazilian Portuguese; and Early Rehabilitation Barthel Index: validation for use in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/35107546/) Bras Ter Intensiva. 2021 Oct 25;33(3):353-361
715. Simpson CEM, Esterman AJ, Ganu SS, Maki K, Keeley SR, Ward EJ, Tsiros MD. [Early mobilisation in critically ill children: Does routine patient screening reduce time to commencing mobilisation?](https://pubmed.ncbi.nlm.nih.gov/35135715/) Aust Crit Care. 2022 Feb 5:S1036-7314(21)00181-8
716. Adel TZD, van Dijk M, de Heer M, Hoekstra S, Steenhorst J, van Rosmalen J, Verbruggen S, Toussaint-Duyster L, Ista E. [Quality improvement intervention to stimulate early mobilization of critically ill children.](https://pubmed.ncbi.nlm.nih.gov/35191161/) Nurs Crit Care. 2022 Feb 21.
717. Tomonagaa Y, Menges D, Yebyo HG, Fumeaux T, Heise A, Wesch C, Schwenkglenks M, Puhan MA. [Early mobilisation and rehabilitation in Swiss intensive care units: a cross-sectional survey.](https://pubmed.ncbi.nlm.nih.gov/35096632/) Swiss Med Wkly. 2022 Jan 28;152:w30125
718. Han, P., Yu, H., Xie, F., Li, M., Chen, X., Yu, X., Li, J., Liu, X., Shao, B., Liu, J., Liu, Y., Liu, Z., Liu, X., & Guo, Q. (2022). [Effects of early rehabilitation on functional outcomes in patients after coronary artery bypass graft surgery: a randomized controlled trial](https://pubmed.ncbi.nlm.nih.gov/35301878/). *The Journal of international medical research*, *50*(3), 3000605221087031
719. Letzkus L, Conaway M, Miller-Davis C, Darring J, Keim-Malpass J, Zanelli [A feasibility randomized controlled trial of a NICU rehabilitation program for very low birth weight infants.](https://pubmed.ncbi.nlm.nih.gov/35110644/) S. Sci Rep. 2022 Feb 2;12(1):1729
720. Suzuki G, Kanayama H, Ichibayashi R, Arai Y, Iwanami Y, Masuyama Y, Yamamoto S, Serizawa H, Nakamichi Y, Watanabe M, Honda M, Ebihara S. [Early mobilisation using a mobile patient lift in the intensive care unit: protocol for a randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35264368/) BMJ Open. 2022 Mar 9;12(3):e057942
721. Riberholt CG, Olsen MH, Berg RMG, Møller K. [Mobilising patients with severe acquired brain injury in intensive care (MAWERIC) - Protocol for a randomised cross-over trial.](https://pubmed.ncbi.nlm.nih.gov/35331944/) Contemp Clin Trials. 2022 Mar 21;116:106738
722. Chaiwat O, et al. [The impact of physical medicine and rehabilitation consultation on clinical outcomes in the surgical intensive care unit: A prospective observational cohort study.](https://pubmed.ncbi.nlm.nih.gov/35244073/) Medicine (Baltimore). 2022
723. Betters KA, Tandon RS, Minchin KJ. [Caregiver perceptions of an early mobility and communication protocol in the pediatric ICU.](https://pubmed.ncbi.nlm.nih.gov/35253659/) J Pediatr Rehabil Med. 2022 Feb 28
724. Watanabe et al [Effects of Mobilization among Critically Ill Patients in the Intensive Care Unit: A Single-center Retrospective Study.](https://www.jstage.jst.go.jp/article/prm/7/0/7_20220013/_pdf/-char/en) Progress in Rehabilitation Medicine 2022; Vol. 7,
725. Johnson JK, Rothberg MB, Adams K, Lapin B, Keeney T, Stilphen M, Bethoux F, Freburger JK. [Association of Physical Therapy Treatment Frequency in the Acute Care Hospital With Improving Functional Status and Discharging Home.](https://pubmed.ncbi.nlm.nih.gov/35293885/) Med Care. 2022 Mar 16
726. Rapolthy-Beck A, Fleming J, Turpin M. [Occupational therapy service provision in adult intensive care units in Australia: A survey of workload practices, interventions and barriers.](https://pubmed.ncbi.nlm.nih.gov/35224739/) Aust Occup Ther J. 2022 Feb 27
727. Bui Q, Kaufman KJ, Pham V, Lenze EJ, Lee JM, Mohr DC, Fong MWM, Metts CL, Tomazin SE, Wong AWK. [Ecological Momentary Assessment of Real-World Functional Behaviors in Individuals with Stroke: A Longitudinal Observational Study.](https://pubmed.ncbi.nlm.nih.gov/35278467/) Arch Phys Med Rehabil. 2022 Mar 9:S0003-9993(22)00267-2
728. Campos DR, Bueno TBC, Anjos JSGG, Zoppi D, Dantas BG, Gosselink R, Guirro RRJ, Borges MC. [Early Neuromuscular Electrical Stimulation in Addition to Early Mobilization Improves Functional Status and Decreases Hospitalization Days of Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/35412472/) Crit Care Med. 2022 Apr 12
729. Péran L, Beaumont M, Le Ber C, Le Mevel P, Berriet AC, Nowak E, Consigny M, **Couturaud F.** [**Effect of neuromuscular electrical stimulation on exercise capacity in patients with severe chronic obstructive pulmonary disease: A randomised controlled trial.**](https://pubmed.ncbi.nlm.nih.gov/35404157/) **Clin Rehabil. 2022 Apr 11:2692155221091802**
730. Deng LX, Lan-Cao, Zhang LN, Dun-Tian, Yang-Sun, Qing-Yang, Yan-Huang; Chinese Critical Care Ultrasound Study Group CCUSG. [The effects of abdominal-based early progressive mobilisation on gastric motility in endotracheally intubated intensive care patients: A randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35397977/) Intensive Crit Care Nurs. 2022 Apr 6:103232
731. Koyuncu F, Iyigun E. [The effect of mobilization protocol on mobilization start time and patient care outcomes in patients undergoing abdominal surgery.](https://pubmed.ncbi.nlm.nih.gov/34346134/) J Clin Nurs. 2022 May;31(9-10):1298-1308
732. Wu, L., Li, J., Chen, L., Xue, M., Zheng, Y., Meng, F., Jiang, H., Shi, Z., Zhang, P., & Dai, C. (2022). [The Efficacy and Safety of Phase I Cardiac Rehabilitation in Patients Hospitalized in Cardiac Intensive Care Unit With Acute Decompensated Heart Failure: A Study Protocol for a Randomized, Controlled, Clinical Trial](https://doi.org/10.3389/fcvm.2022.788503). *Frontiers in cardiovascular medicine*, *9*, 788503.
733. Dolmage, T. E., & Goldstein, R. S. (2022). [Assisting Walking in Patients with Chronic Respiratory Disease Using a Powered Exoskeleton: A Series of N-of-1 Trials](https://doi.org/10.1513/AnnalsATS.202201-045RL). *Annals of the American Thoracic Society*, 10.1513/AnnalsATS.202201-045RL. Advance online publication.
734. Thiolliere F, Allaouchiche B, Boyer H, Marie M, Friggeri A, Vacheron CH; AZUREA Study group. [Association between out-of-bed mobilization during the ICU stay of elderly patients and long-term autonomy: A cohort study.](https://pubmed.ncbi.nlm.nih.gov/34844035/) J Crit Care. 2022 Apr;68:10-15
735. Alaparthi, G. K., Raigangar, V., Chakravarthy Bairapareddy, K., Gatty, A., Mohammad, S., Alzarooni, A., Atef, M., Abdulrahman, R., Redha, S., Rashid, A., & Tamim, M. (2021). [A national survey in United Arab Emirates on practice of passive range of motion by physiotherapists in intensive care unit](https://doi.org/10.1371/journal.pone.0256453). *PloS one*, *16*(8), e0256453.
736. LaRosa, J. M., Nelliot, A., Zaidi, M., Vaidya, D., Awojoodu, R., & Kudchadkar, S. R. (2022). [Mobilization Safety of Critically Ill Children](https://doi.org/10.1542/peds.2021-053432). *Pediatrics*, *149*(4), e2021053432.
737. Cho, J., Park, H., Kang, D., Park, E., Chung, C. R., Cho, J., & Kudchadkar, S. R. (2022). [Rehabilitation in critically ill children: Findings from the Korean National Health Insurance database](https://doi.org/10.1371/journal.pone.0266360). *PloS one*, *17*(3), e0266360.
738. LaRosa, J. M., & Kudchadkar, S. R. (2021). [Rehabilitation Utilization in the PICU: A Complicated Picture.](https://doi.org/10.1097/CCM.0000000000005067) *Critical care medicine*, *49*(9), 1582–1584.
739. Ustad, T., Fjørtoft, T., & Øberg, G. K. (2021). [General movement optimality score and general movements trajectories following early parent-administrated physiotherapy in the neonatal intensive care unit](https://doi.org/10.1016/j.earlhumdev.2021.105488). *Early human development*, *163*, 105488.
740. Kagan I, Cohen J, Bendavid I, Kramer S, Mesilati-Stahy R, Glass Y, Theilla M, Singer P. [Effect of Combined Protein-Enriched Enteral Nutrition and Early Cycle Ergometry in Mechanically Ventilated Critically Ill Patients-A Pilot Study.](https://pubmed.ncbi.nlm.nih.gov/35458151/) Nutrients. 2022 Apr 12;14(8):1589
741. Liang Z, Yip H, Sena Moore K, Ferreira T, Ji M, Signorile JF, Munro C. [Self-Managed Music-Guided Exercise Intervention Improved Upper and Lower Extremity Muscle Strength for ICU Survivors-A Pilot Randomized Controlled Study.](https://pubmed.ncbi.nlm.nih.gov/34738474/) Biol Res Nurs. 2022 Apr;24(2):145-151
742. Chao T, Parry I, Palackic A, Sen S, Spratt H, Mlcak RP, Lee JO, Herndon DN, Wolf SE, Branski LK, Suman OE. [The effects of short bouts of ergometric exercise for severely burned children in intensive care: A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35473409/) Clin Rehabil. 2022 Apr 27:2692155221095643
743. Joseph P, Pari R, Miller S, Warren A, Stovall MC, Squires J, Chang CJ, Xiao W, Waxman AB, Systrom DM. [Neurovascular Dysregulation and Acute Exercise Intolerance in ME/CFS: A Randomized, Placebo-Controlled Trial of Pyridostigmine.](https://pubmed.ncbi.nlm.nih.gov/35526605/) Chest. 2022 May 5:S0012-3692(22)00890-X
744. Watanabe S, Liu K, Nakamura K, Kozu R, Horibe T, Ishii K, Yasumura D, Takahashi Y, Nanba T, Morita Y, Kanaya T, Suzuki S, Lefor AK, Katsukawa H, Kotani T. [Association between Early Mobilization in the ICU and Psychiatric Symptoms after Surviving a Critical Illness: A Multi-Center Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/35566716/) J Clin Med. 2022 May 5;11(9):2587.
745. Liu K, Shibata J, Fukuchi K, Takahashi K, Sonoo T, Ogura T, Goto T. [Optimal timing of introducing mobilization therapy for ICU patients with sepsis.](https://pubmed.ncbi.nlm.nih.gov/35468868/) J Intensive Care. 2022 Apr 25;10(1):22
746. Jones J, Steeg L, Ohtake PM. [Promoting Mobility in the Intensive Care Unit: An Educational Interprofessional Initiative.](https://pubmed.ncbi.nlm.nih.gov/35533067/) J Nurs Educ. 2022 May 10:1-5
747. Goodson CM, Friedman LA, Mantheiy E, Heckle K, Lavezza A, Toonstra A, Parker AM, Seltzer J, Velaetis M, Glover M, Outten C, Schwartz K, Jones A, Coggins S, Hoyer EH, Chan KS, Needham DM. [Perceived Barriers to Mobility in a Medical ICU: The Patient Mobilization Attitudes & Beliefs Survey for the ICU.](https://pubmed.ncbi.nlm.nih.gov/30336716/)  J Intensive Care Med. 2020 Oct;35(10):1026-1031
748. Negrini S, Selb M, Kiekens C, Todhunter-Brown A, Arienti C, Stucki G, Meyer T; 3rd Cochrane Rehabilitation Methodology Meeting participants. [Rehabilitation Definition for Research Purposes. A Global Stakeholders' Initiative by Cochrane Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/35574944/)
749. Zhou W, Yu L, Fan Y, Shi B, Wang X, Chen T, Yu H, Liu J, Wang X, Liu C, Zheng H. [Effect of early mobilization combined with early nutrition on acquired weakness in critically ill patients (EMAS): A dual-center, randomized controlled trial](https://pubmed.ncbi.nlm.nih.gov/35617287/). PLoS One. 2022 May 26;17(5):e0268599. Neurorehabil Neural Repair. 2022 May 16:15459683221093587
750. Rahiminezhad E, Sadeghi M, Ahmadinejad M, Mirzadi Gohari SI, Dehghan M. [A randomized controlled clinical trial of the effects of range of motion exercises and massage on muscle strength in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/35619171/) BMC Sports Sci Med Rehabil. 2022 May 26;14(1):96
751. Riberholt CG, Olsen MH, Berg RMG, Møller K. [Mobilising patients with severe acquired brain injury in intensive care (MAWERIC) - Protocol for a randomised cross-over trial.](https://pubmed.ncbi.nlm.nih.gov/35331944/) Contemp Clin Trials. 2022 May;116:106738
752. Tymkew H, Sledge JA, Vyers K, Arroyo C, Schallom M. [One Year Post-Discharge Outcomes After Implementation of an ICU Early Mobility Protocol.](https://pubmed.ncbi.nlm.nih.gov/35617586/) Dimens Crit Care Nurs. 2022 Jul-Aug 01;41(4):209-215
753. Boehm LM, Mart MF, Dietrich MS, Work B, Wilson WT, Walker G, Piras SE. [Effects of social influence and implementation climate and leadership on nurse-led early mobility behaviours in critical care.](https://pubmed.ncbi.nlm.nih.gov/35697358/) BMJ Open Qual. 2022 Jun;11(2):e001885
754. Bakhru RN, Propert KJ, Kawut SM, Schweickert WD. [A Survey of Implementation of ABCDE Protocols.](https://pubmed.ncbi.nlm.nih.gov/35731642/) J Intensive Care Med. 2022 Jun 22:8850666221109157
755. Twose P et al [Therapy professionals in critical care: A UK wide workforce survey](https://journals.sagepub.com/doi/10.1177/17511437221100332). May 2022 Journal of the Intensive Care Society
756. Baron MV, Silva PE, Koepp J, Urbanetto JS, Santamaria AFM, Dos Santos MP, de Mello Pinto MV, Brandenburg C, Reinheimer IC, Carvalho S, Wagner MB, Miliou T, Poli-de-Figueiredo CE, Pinheiro da Costa BE. [Efficacy and safety of neuromuscular electrical stimulation in the prevention of pressure injuries in critically ill patients: a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35695996/) Ann Intensive Care. 2022 Jun 13;12(1):53
757. Yu T, Cai F, Jiang R. [Effects of Early Bedside Cycle Exercise on Gastrointestinal Function in Intensive Care Unit Patients Receiving Mechanical Ventilation](https://pubmed.ncbi.nlm.nih.gov/35755035/). Front Med (Lausanne). 2022 Jun 9;9:823067
758. Kinoshita T, Kamijo YI, Kouda K, Yasuoka Y, Nishimura Y, Umemoto Y, Ogawa T, Mikami Y, Kawanishi M, Tajima F. [Evaluation of severe adverse events during rehabilitation for acute-phase patients: A retrospective cohort study](https://pubmed.ncbi.nlm.nih.gov/35758395/). Medicine (Baltimore). 2022 Jun 24;101(25):e29516
759. Chaiyakulsil C, Thippanate P. [Nurse-driven early rehabilitation protocol for critically ill children.](https://pubmed.ncbi.nlm.nih.gov/34727576/) Pediatr Int. 2022 Jan;64(1):e15048
760. Ho L, Tsang JHC, Cheung E, Chan WY, Lee KW, Lui SR, Lee CY, Lee ALH, Lam PKN. [Improving mobility in the intensive care unit with a protocolized, early mobilization program: observations of a single center before-and-after the implementation of a multidisciplinary program.](https://pubmed.ncbi.nlm.nih.gov/35791658/) Acute Crit Care. 2022 Jun 29
761. Zhang F, Xia Q, Zhang L, Wang H, Bai Y, Wu W. [A bibliometric and visualized analysis of early mobilization in intensive care unit from 2000 to 2021](https://www.frontiersin.org/articles/10.3389/fneur.2022.848545/full). Front Neurol. 2022 Jul 18;13:848545
762. Liu ZB, Wang LY, Zhao L, Pang YT, Liu YS, Xu W, Li HL. [Clinical effect of pulmonary rehabilitation combined with diaphragm pacemaker therapy in the treatment of severely ill patients with mechanical ventilation.](https://pubmed.ncbi.nlm.nih.gov/35929569/) Int J Rehabil Res. 2022 Sep 1;45(3):195-200
763. Pittaway H, White L, Turner K, McGillivary A. [Asking the Question 'What Matters to You?' in a London Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/35935521/) J Patient Cent Res Rev. 2022 Jul 18;9(3):166-173
764. Bissett BM, Leditschke IA, Neeman T, Green M, Marzano V, Erwin K, van Haren FM, Boots R, Paratz J. [Does mechanical threshold inspiratory muscle training promote recovery and improve outcomes in patients who are ventilator-dependent in the intensive care unit? The IMPROVE randomised trial.](https://pubmed.ncbi.nlm.nih.gov/36041982/) Aust Crit Care. 2022 Aug 27:S1036-7314(22)00092-3.
765. Mart MF, Ely EW, Tolle JJ, Patel MB, Brummel NE. [Physiologic responses to exercise in survivors of critical illness: an exploratory pilot study.](https://pubmed.ncbi.nlm.nih.gov/36008625/) Intensive Care Med Exp. 2022 Aug 26;10(1):35
766. Benjamin H. et al. [Management of patient tubes and lines during early mobility in the intensive care unit](https://www.sciencedirect.com/science/article/pii/S2772501422000148). Human Factors in Healthcare, 2, December 2022, 100017.
767. Kinoshita T, Nishimura Y, Umemoto Y, Kawasaki S, Hori S, Yasuoka Y, Banno M, Tajima F. [Investigation of Adverse Events Occurring during Rehabilitation in Acute Care Hospital.](https://pubmed.ncbi.nlm.nih.gov/36012943/) J Clin Med. 2022 Aug 11;11(16):4706
768. Gautheret N, Bommier C, Mabrouki A, Souppart V, Bretaud AS, Ghrenassia E, Le Roy J, Lambert J, Azoulay E, Lemiale V. [Feasibility and Safety of Active Physiotherapy in the Intensive Care Unit for Intubated Patients with Malignancy.](https://pubmed.ncbi.nlm.nih.gov/36017667/) J Rehabil Med. 2022 Aug 26:jrm00299
769. Morimoto Y, Watanabe T, Oikawa M, Hanada M, Sekino M, Hara T, Kozu R. [Predictors of sedation period for critical illness patients focusing on early rehabilitation on the bed.](https://pubmed.ncbi.nlm.nih.gov/35982206/) Sci Rep. 2022 Aug 18;12(1):14092
770. Lang JK, Haines KJ, Hodgson CL. [Development of a performance standard for physiotherapists delivering exercise and mobilisation to the critically ill: A modified Delphi consensus study.](https://pubmed.ncbi.nlm.nih.gov/36096922/) Aust Crit Care. 2022 Sep 9:S1036-7314(22)00093-5
771. Hiser S et al. [Physiotherapists’ and Physiotherapy Assistants’ Perspectives on Using Three Physical Function Measures in the Intensive Care Unit: A Mixed-Methods Study](https://www.utpjournals.press/doi/abs/10.3138/ptc-2020-0096). Physiotherapy Canada, Vol. 74, No. 3, DOI: 10.3138/ptc-2020-0096
772. Boltzmann M, Schmidt SB, Gutenbrunner C, Krauss JK, Höglinger GU, Weimar C, Rollnik JD. [Validity of the Early Functional Ability scale (EFA) among critically ill patients undergoing early neurological rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/36068496/) BMC Neurol. 2022 Sep 6;22(1):333
773. Mahoney E, Rohlik GM, Butterfass ES, Friedrich C, Simpson DD, Kawai Y. [Improving Mobility Practices of Critically Ill Children.](https://pubmed.ncbi.nlm.nih.gov/35715284/) J Pediatr Health Care. 2022 Sep-Oct;36(5):406-415
774. Ali N, Tian H, Thabane L, Ma J, Wu H, Zhong Q, Gao Y, Sun C, Zhu Y, Wang T. [The Effects of Dual-Task Training on Cognitive and Physical Functions in Older Adults with Cognitive Impairment; A Systematic Review and Meta-Analysis](https://pubmed.ncbi.nlm.nih.gov/35543010/). J Prev Alzheimers Dis. 2022;9(2):359-370
775. Zhang et al. [Implementation of early rehabilitation for critically ill children in China: A survey and narrative review of the literature](https://pubmed.ncbi.nlm.nih.gov/36034576/). Front Pediatr. 2022 Aug 12;10:941669
776. Hauff T, Petosic A, Småstuen MC, Wøien H, Sunde K, Stafseth SK. [Patient mobilisation in the intensive care unit and evaluation of a multifaceted intervention including Facebook groups: A quasi-experimental study.](https://pubmed.ncbi.nlm.nih.gov/36192314/)

Intensive Crit Care Nurs. 2022 Sep 30:103315

1. de Souza PN, Kroth JB, Dos Santos Ligero A, Mendes JM, Maida ALV, Pastore L, Yamaguti WP. [Effectiveness of a quality improvement strategy with implementation of a specific visual tool to promote ICU early mobilization.](https://pubmed.ncbi.nlm.nih.gov/36229565/) Sci Rep. 2022 Oct 13;12(1):17206
2. Yen HC, Han YY, Hsiao WL, Hsu PM, Pan GS, Li MH, Chen WS, Chuang HJ. [Functional mobility effects of progressive early mobilization protocol on people with moderate-to-severe traumatic brain injury: A pre-post intervention study.](https://pubmed.ncbi.nlm.nih.gov/35723117/) NeuroRehabilitation. 2022;51(2):303-313
3. Shkurka E, Child H, Balls J, Melkhuln E, Carter L, Compton V, Marscheider R, McConnell R, Meenaghan S, Milburn N, Nugent G, Peabody G, Rimmer L. [Early rehabilitation and mobilisation of neonatal and paediatric extracorporeal membrane oxygenation patients: A UK and Ireland consensus document.](https://pubmed.ncbi.nlm.nih.gov/36240012/) Perfusion. 2022 Oct 14:2676591221132676
4. Polastri M, Eden A, Loforte A, Dell'Amore A, Antonini MV, Riera J, Barrett NA, Swol J. [Physiotherapy for patients on extracorporeal membrane oxygenation support: How, When, and Who. An international EuroELSO survey.](https://pubmed.ncbi.nlm.nih.gov/36239077/) Perfusion. 2022 Oct 14:2676591221133657
5. Krupp A, Steege L, Lee J, Lopez KD, King B. [Supporting Decision-Making About Patient Mobility in the Intensive Care Unit Nurse Work Environment: Work Domain Analysis.](https://pubmed.ncbi.nlm.nih.gov/36166282/) JMIR Nurs. 2022 Sep 27;5(1):e41051
6. Geven BM, Maaskant JM, van Woensel JBM, Verbruggen SCAT, Ista E. [Barriers and perceived benefits of early mobilisation programmes in Dutch paediatric intensive care units.](https://pubmed.ncbi.nlm.nih.gov/36151585/) Nurs Crit Care. 2022 Sep 23
7. Rose L, Istanboulian L, Amaral ACK, Burry L, Cox CE, Cuthbertson BH, Iwashyna TJ, Dale CM, Fraser I. [Co-designed and consensus based development of a quality improvement checklist of patient and family-centered actionable processes of care for adults with persistent critical illness.](https://pubmed.ncbi.nlm.nih.gov/36174432/) J Crit Care. 2022 Sep 26;72:154153
8. Dikkema Y, Mouton LJ, Cleffken B, de Jong E, van Baar ME, Pijpe A, Niemeijer AS, van der Schans CP, Scholten SMJH, van der Steen-Dieperink M, Nieuwenhuis MK. [Facilitators & barriers and practices of early mobilization in critically ill burn patients: A survey.](https://pubmed.ncbi.nlm.nih.gov/36202684/) Burns. 2022 Sep 6:S0305-4179(22)00235-2
9. TEAM Study Investigators and the ANZICS Clinical Trials Group, Hodgson CL, Bailey M, Bellomo R, Brickell K, Broadley T, Buhr H, Gabbe BJ, Gould DW, Harrold M, Higgins AM, Hurford S, Iwashyna TJ, Serpa Neto A, Nichol AD, Presneill JJ, Schaller SJ, Sivasuthan J, Tipping CJ, Webb S, Young PJ. [Early Active Mobilization during Mechanical Ventilation in the ICU.](https://pubmed.ncbi.nlm.nih.gov/36286256/) N Engl J Med. 2022 Nov 10;387(19):1747-1758
10. Zhou J, Zhang C, Zhou JD, Zhang CK. [Effect of early progressive mobilization on intensive care unit-acquired weakness in mechanically ventilated patients: An observational study](https://pubmed.ncbi.nlm.nih.gov/36343079/). Medicine (Baltimore). 2022 Nov 4;101(44):e31528
11. Øberg GK, Handegård BH, Campbell SK, Ustad T, Fjørtoft T, Kaaresen PI, Girolami GL. [Two-year motor outcomes associated with the dose of NICU based physical therapy: The Noppi RCT.](https://pubmed.ncbi.nlm.nih.gov/36183567/) Early Hum Dev. 2022 Nov;174:105680.
12. Qi W, Murphy TE, Doyle MM, Ferrante LE. [Association Between Daily Average of Mobility Achieved During Physical Therapy Sessions and Hospital-Acquired or Ventilator-Associated Pneumonia among Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/36278257/) J Intensive Care Med. 2022 Oct 22:8850666221133318
13. Warmbein A, Schroeder I, Mehler-Klamt A, Rathgeber I, Huber J, Scharf C, Hübner L, Gutmann M, Biebl J, Lorenz A, Kraft E, Zoller M, Eberl I, Fischer U. [Robot-assisted early mobilization of intensive care patients: a feasibility study protocol.](https://pubmed.ncbi.nlm.nih.gov/36333746/) Pilot Feasibility Stud. 2022 Nov 5;8(1):236
14. Perelló P, Gómez J, Mariné J, Cabas MT, Arasa A, Ramos Z, Moya D, Reynals I, Bodí M, Magret M. [Analysis of adherence to an early mobilization protocol in an intensive care unit: Data collected prospectively over a period of three years by the clinical information system.](https://pubmed.ncbi.nlm.nih.gov/36344338/) Med Intensiva (Engl Ed). 2022 Nov 4:S2173-5727(22)00315-0.
15. James D, Harrell S, Labbe V, Ray M. [Piloting a Mobility Tech Role at an Academic Medical Center.](https://pubmed.ncbi.nlm.nih.gov/36318296/) J Healthc Qual. 2022 Nov-Dec 01;44(6):363-372
16. Trang Dang, Dan Roberts, Angela Murray, Neal Wiggermann. [A return-on-investment model using clinical and economic data related to safe patient handling and mobility programs in the ICU](https://www.sciencedirect.com/science/article/pii/S0169814122001135), International Journal of Industrial Ergonomics, 92, 2022,
17. Naef AC, Erne K, Exl MT, Nef T, Jeitziner MM. [Visual and auditory stimulation for patients in the intensive care unit: A mixed-method study.](https://pubmed.ncbi.nlm.nih.gov/35931597/) Intensive Crit Care Nurs. 2022 Dec;73:10330
18. Siesage K, Joelsson-Alm E, Schandl A, Karlsson E. [Extended physiotherapy after Intensive Care Unit (ICU) stay: A prospective pilot study with a before and after design.](https://pubmed.ncbi.nlm.nih.gov/36369693/) Physiother Theory Pract. 2022 Nov 11:1-9
19. Winkler D, Rose N, Freytag A, Sauter W, Spoden M, Schettler A, Wedekind L, Storch J, Ditscheid B, Schlattmann P, Reinhart K, Günster C, Hartog CS, Fleischmann-Struzek C. [The Effect of Post-acute Rehabilitation on Mortality, Chronic Care Dependency, Health Care Use and Costs in Sepsis Survivors.](https://pubmed.ncbi.nlm.nih.gov/36251451/) Ann Am Thorac Soc. 2022 Oct 17.
20. Deemer K, Myhre B, Oviatt S, Parsons M, Watson M, Zjadewicz K, Soo A, Fiest K, Posadas-Calleja J. [Occupational therapist-guided cognitive interventions in critically ill patients: a feasibility randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36385466/) Can J Anaesth. 2022 Nov 16:1-12
21. Dong Q, Yang Y, Tang Q, Yang M, Lan A, Xiao H, Wei J, Cao X, Xian Y, Yang Q, Chen D, Zhao J, Li S. [Effects of early cognitive rehabilitation training on cognitive function and quality of life in critically ill patients with cognitive impairment: A randomised controlled trial](https://pubmed.ncbi.nlm.nih.gov/36470777/). Aust Crit Care. 2022 Dec 2:S1036-7314(22)00228-4
22. Verceles AC, Serra M, Davis D, Alon G, Wells CL, Parker E, Sorkin J, Bhatti W, Terrin ML. [Combining exercise, protein supplementation and electric stimulation to mitigate muscle wasting and improve outcomes for survivors of critical illness-The ExPrES study.](https://pubmed.ncbi.nlm.nih.gov/36473808/) Heart Lung. 2022 Dec 3:S0147-9563(22)00277-1.
23. Poltavskaya M, Sviridenko V, Giverts I, Patchenskaya I, Kozlovskaya I, Tomilovskaya E, Veliyev GO, Andreev D, Syrkin A, Saner H. [In-hospital electrical muscle stimulation for patients early after heart failure decompensation: results from a prospective randomised controlled pilot trial](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9274513/). Open Heart. 2022 Jul;9(2):e001965
24. Lindholz M, Schellenberg CM, Grunow JJ, Kagerbauer S, Milnik A, Zickler D, Angermair S, Reißhauer A, Witzenrath M, Menk M, Boie S, Balzer F, Schaller SJ. [Mobilisation of critically ill patients receiving norepinephrine: a retrospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/36434724/) Crit Care. 2022 Nov 25;26(1):362
25. Azevedo P, Gomes B, Macedo J, Ferreira S, Pereira J, Pires A. [Muscle weakness in critically ill patients: Effects of a systematized rehabilitation nursing program.](https://pubmed.ncbi.nlm.nih.gov/36400166/) Enferm Clin (Engl Ed). 2022 Nov 15:S2445-1479(22)00125-4
26. Hanssel et al. [Quantification of Changes in Lung Aeration Associated With Physiotherapy Using Lung Ultrasound in Mechanically Ventilated Patients: A Prospective Cohort Study](https://www.sciencedirect.com/science/article/pii/S0031940622001146). Physiotherapy 2022, <https://doi.org/10.1016/j.physio.2022.11.003>
27. Yuenyongchaiwat K, Akekawatchai C. [Beneficial effects of walking-based home program for improving cardio-respiratory performance and physical activity in sarcopenic older people: a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36416166/) Eur J Phys Rehabil Med. 2022 Nov 23
28. Fuest KE, Ulm B, Daum N, Lindholz M, Lorenz M, Blobner K, Langer N, Hodgson C, Herridge M, Blobner M, Schaller SJ. [Clustering of critically ill patients using an individualized learning approach enables dose optimization of mobilization in the ICU.](https://pubmed.ncbi.nlm.nih.gov/36597110/) Crit Care. 2023 Jan 3;27(1):1.
29. Borges LF, Fraga Righetti R, de Souza Francisco D, Pereira Yamaguti W, Barros CF. [Hemodynamic impact of early mobilization in critical patients receiving vasoactive drugs: A prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/36538515/) PLoS One. 2022 Dec 20;17(12):e0279269
30. Lehmkuhl L, Olsen HT, Brønd JC, Rothmann MJ, Dreyer P, Jespersen E. [Daily variation in physical activity during mechanical ventilation and stay in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/36636823/) Acta Anaesthesiol Scand. 2023 Jan 13
31. Twamley J, Hamer O, Hill J, Kenyon R, Twamley H, Casey R, Zhang J, Williams A, Clegg A. [Exploring the perceptions of former ICU patients and clinical staff on barriers and facilitators to the implementation of virtual reality exposure therapy: A qualitative study.](https://pubmed.ncbi.nlm.nih.gov/36458458/) Nurs Crit Care. 2022 Dec 2
32. Yang et al. [More is less: Effect of ICF-based early progressive mobilization on severe aneurysmal subarachnoid hemorrhage in the NICU](https://pubmed.ncbi.nlm.nih.gov/36588882/). Front Neurol. 2022 Dec 14;13:951071
33. Patel BK, Wolfe KS, Patel SB, Dugan KC, Esbrook CL, Pawlik AJ, Stulberg M, Kemple C, Teele M, Zeleny E, Hedeker D, Pohlman AS, Arora VM, Hall JB, Kress JP. [Effect of early mobilisation on long-term cognitive impairment in critical illness in the USA: a randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36693400/) Lancet Respir Med. 2023 Jan 20:S2213-2600(22)00489-1
34. Liang Z, Munro C, Yip H, Ji M, Moore KS, Ferreira T, Signorile JF, Pan Y. [Randomized Controlled Study of Self-Managed Music-Guided Exercise Intervention Following Intensive Care.](https://pubmed.ncbi.nlm.nih.gov/36638206/) Nurs Res. 2023 Jan 10. doi: 10.1097/NNR.0000000000000644
35. Mudge AM, McRae P, Banks M, Blackberry I, Barrimore S, Endacott J, Graves N, Green T, Harvey G, Hubbard R, Kurrle S, Lim WK, Lee-Steere K, Masel P, Pandy S, Young A, Barnett A, Inouye SK. [Effect of a Ward-Based Program on Hospital-Associated Complications and Length of Stay for Older Inpatients: The Cluster Randomized CHERISH Trial.](https://pubmed.ncbi.nlm.nih.gov/35006265/) JAMA Intern Med. 2022 Mar 1;182(3):274-282
36. Kho ME. [Critically appraised paper: In adults receiving intensive care, increased early active mobilisation did not improve clinical outcomes but increased adverse events [commentary].](https://pubmed.ncbi.nlm.nih.gov/36528505/) J Physiother. 2023 Jan;69(1):56
37. Gautheret N, Bommier C, Mabrouki A, Souppart V, Bretaud AS, Ghrenassia E, Le Roy J, Lambert J, Azoulay E, Lemiale V. [Feasibility and Safety of Active Physiotherapy in the Intensive Care Unit for Intubated Patients with Malignancy.](https://pubmed.ncbi.nlm.nih.gov/36017667/) J Rehabil Med. 2023 Feb 6;55:jrm00299
38. Gan XY, Zhang J, Xu P, Liu SJ, Guo ZL. [Early passive orthostatic training prevents diaphragm atrophy and dysfunction in intensive care unit patients on mechanical ventilation: A retrospective case‒control study.](https://pubmed.ncbi.nlm.nih.gov/36709529/) Heart Lung. 2023 Jan 27;59:37-43
39. Van Hollebeke M, Pleysier S, Poddighe D, Muelas Gómez L, Choudhary YQ, Clerckx B, Muller J, Hermans G, Gosselink R, Langer D. [Comparing two types of loading during inspiratory muscle training in patients with weaning difficulties: An exploratory study.](https://pubmed.ncbi.nlm.nih.gov/36041981/) Aust Crit Care. 2022 Aug 27:S1036-7314(22)00091-1
40. Johnson KR, Temeyer JP, Schulte PJ, Nydahl P, Philbrick KL, Karnatovskaia LV. [Aloud real- time reading of intensive care unit diaries: A feasibility study.](https://pubmed.ncbi.nlm.nih.gov/36706496/) Intensive Crit Care Nurs. 2023 Jan 25;76:103400.
41. McWilliams D, Gustafson O, King E. [Rehabilitation in the intensive care unit: Where are we and what are we aiming for?](https://pubmed.ncbi.nlm.nih.gov/36746679/) Intensive Crit Care Nurs. 2023 Feb 4:103404
42. Waldauf P, Urban T, Krajčová A, Jiroutková K, Blahutová B, Bakalář B, Řasová K, Grünerová-Lippertová M, Gojda J, Duška F. [Can functional electrical stimulation-assisted cycle ergometry replace insulin infusion in patients? A nested substudy in a randomized controlled trial with 6 months' follow-up.](https://pubmed.ncbi.nlm.nih.gov/34165818/) JPEN J Parenter Enteral Nutr. 2022 Jan;46(1):249-253
43. Azamfirei R, Mennie C, Dinglas VD, Fatima A, Colantuoni E, Gurses AP, Balas MC, Needham DM, Kudchadkar SR; on behalf of the PICU Up! ﻿Investigators. [Impact of a multifaceted early mobility intervention for critically ill children - the PICU Up! trial: study protocol for a multicenter stepped-wedge cluster randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36918956/) Trials. 2023 Mar 15;24(1):191
44. Bernhardt J, Churilov L, Dewey H, Donnan G, Ellery F, English C, Gao L, Hayward K, Horgan F, Indredavik B, Johns H, Langhorne P, Lindley R, Martins S, Ali Katijjahbe M, Middleton S, Moodie M, Pandian J, Parsons B, Robinson T, Srikanth V, Thijs V; AVERT DOSE Trialist Collaboration. [A phase III, multi-arm multi-stage covariate-adjusted response-adaptive randomized trial to determine optimal early mobility training after stroke (AVERT DOSE).](https://pubmed.ncbi.nlm.nih.gov/36398582/) Int J Stroke. 2023 Jan 6:17474930221142207.
45. McLaughlin KH, Friedman M, Hoyer EH, Kudchadkar S, Flanagan E, Klein L, Daley K, Lavezza A, Schechter N, Young D; JH-AMP Group. [The Johns Hopkins Activity and Mobility Promotion Program: A Framework to Increase Activity and Mobility Among Hospitalized Patients.](https://pubmed.ncbi.nlm.nih.gov/36729980/) J Nurs Care Qual. 2023 Apr-Jun 01;38(2):164-170
46. Ely EW. [Early Active Mobilization during Mechanical Ventilation in the ICU.](https://pubmed.ncbi.nlm.nih.gov/36780684/) N Engl J Med. 2023.
47. Marcarian T, Obreja V, Murray K, Meltzer JS, Miller PS. [Success in Supporting Early Mobility and Exercise in a Cardiothoracic Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/36821500/) J Nurs Adm. 2023 Mar 1;53(3):161-167
48. Watanabe S, Hirasawa J, Naito Y, Mizutani M, Uemura A, Nishimura S, Morita Y, Iida Y. [Association between the early mobilization of mechanically ventilated patients and independence in activities of daily living at hospital discharge.](https://pubmed.ncbi.nlm.nih.gov/36918635/) Sci Rep. 2023 Mar 14;13(1):4265
49. Destro TRDS, Biazon TMPC, Pott-Junior H, Caruso FCR, Andaku DK, Garcia NM, Bonjorno-Junior JC, Borghi-Silva A, Kawakami DMO, Castello-Simões V, Mendes RG. [Early passive mobilization increases vascular reactivity response in critical patients with sepsis: a quasi-experimental study.](https://pubmed.ncbi.nlm.nih.gov/36888826/) Rev Bras Ter Intensiva. 2022 Oct-Dec;34(4):461-468
50. Al-Dorzi HM, AlQahtani S, Al-Dawood A, Al-Hameed FM, Burns KEA, Mehta S, Jose J, Alsolamy SJ, Abdukahil SAI, Afesh LY, Alshahrani MS, Mandourah Y, Almekhlafi GA, Almaani M, Al Bshabshe A, Finfer S, Arshad Z, Khalid I, Mehta Y, Gaur A, Hawa H, Buscher H, Lababidi H, Al Aithan A, Arabi YM; Saudi Critical Care Trials Group. [Association of early mobility with the incidence of deep-vein thrombosis and mortality among critically ill patients: a post hoc analysis of PREVENT trial.](https://pubmed.ncbi.nlm.nih.gov/36869382/) Crit Care. 2023 Mar 3;27(1):83
51. Nickels MR, Blythe R, White N, Ali A, Aitken LM, Heyland DK, McPhail SM. [Predictors of acute muscle loss in the intensive care unit: A secondary analysis of an in-bed cycling trial for critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/36863951/) Aust Crit Care. 2023 Feb 28:S1036-7314(23)00001-2
52. Lim WC, Hill AM, Edgar DW, Elliott M, van der Lee LM. [Multidisciplinary staff perceived barriers and enablers to early mobilization of patients with burns in the ICU.](https://pubmed.ncbi.nlm.nih.gov/36878735/) Burns. 2023 Feb 23:S0305-4179(23)00028-1
53. Mukpradab S, Cussen J, Ranse K, Songwathana P, Marshall AP. [Healthcare professionals perspectives on feasibility and acceptability of family engagement in early mobilisation for adult critically ill patients: A descriptive qualitative study.](https://pubmed.ncbi.nlm.nih.gov/36924051/) J Clin Nurs. 2023 Mar 15
54. Schweickert WD, Jablonski J, Bayes B, Chowdhury M, Whitman C, Tian J, Blette B, Tran T, Halpern SD. [Structured Mobilization for Critically Ill Patients: A Pragmatic Cluster-Randomized Trial.](https://pubmed.ncbi.nlm.nih.gov/36996413/) Am J Respir Crit Care Med. 2023 Mar 30
55. Bao W, Yang J, Li M, Chen K, Ma Z, Bai Y, Xu Y. [Prevention of muscle atrophy in ICU patients without nerve injury by neuromuscular electrical stimulation: a randomized controlled study](https://pubmed.ncbi.nlm.nih.gov/35974369/). BMC Musculoskelet Disord. 2022 Aug 16;23(1):780
56. Palackic A, Rego A, Parry I, Sen S, Branski LK, Hallman TG, Spratt H, Lee JO, Herndon DN, Wolf SE, Suman OE. [Effects of Aerobic Exercise in the Intensive Care Unit on Patient-Reported Physical Function and Mental Health Outcomes in Severely Burned Children-A Multicenter Prospective Randomized Trial.](https://pubmed.ncbi.nlm.nih.gov/36983636/) J Pers Med. 2023 Feb 28;13(3):455
57. Spielmanns M, Gloeckl R, Jarosch I, Leitl D, Schneeberger T, Boeselt T, Huber S, Kaur-Bollinger P, Ulm B, Mueller C, Bjoerklund J, Spielmanns S, Windisch W, Pekacka-Egli AM, Koczulla AR. [Using a smartphone application maintains physical activity following pulmonary rehabilitation in patients with COPD: a randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/35450945/) Thorax. 2023 May;78(5):442-450
58. Zanaboni P, Dinesen B, Hoaas H, Wootton R, Burge AT, Philp R, Oliveira CC, Bondarenko J, Tranborg Jensen T, Miller BR, Holland AE. [Long-term Telerehabilitation or Unsupervised Training at Home for Patients with Chronic Obstructive Pulmonary Disease: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/36480957/) Am J Respir Crit Care Med. 2023 Apr 1;207(7):865-875
59. Murooka Y, Sasabuchi Y, Takazawa T, Matsui H, Yasunaga H, Saito S. [Long-Term Prognosis Following Early Rehabilitation in the ICU: A Retrospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/36988323/) Crit Care Med. 2023 Mar 29
60. Biagioni J, Easley T, DeAlmeida ML, Vova J, Fujimoto AB, Graessle S, Nelson J. [Early mobilization in a pediatric intensive care unit and WeeFIM scores at rehabilitation: A retrospective study.](https://pubmed.ncbi.nlm.nih.gov/37066924/) J Pediatr Rehabil Med. 2023 Apr 10
61. Decavèle M, Bureau C, Campion S, Nierat MC, Rivals I, Wattiez N, Faure M, Mayaux J, Morawiec E, Raux M, Similowski T, Demoule A. [Interventions Relieving Dyspnea in Intubated Patients Show Responsiveness of the Mechanical Ventilation - Respiratory Distress Observation Scale.](https://pubmed.ncbi.nlm.nih.gov/36973007/) Am J Respir Crit Care Med. 2023 Mar 27
62. Capo-Lugo CE, McLaughlin KH, Ye B, Daley K, Young D, Lavezza A, Friedman M, Hoyer EH. [Using nursing assessments of mobility and activity to prioritize patients most likely to need rehabilitation services.](https://pubmed.ncbi.nlm.nih.gov/37028697/) Arch Phys Med Rehabil. 2023 Apr 5:S0003-9993(23)00186-7.
63. Karachi F, Gosselink R, Hanekom S. [Public sector physiotherapists' organisation and profile: Implications for intensive care service.](https://pubmed.ncbi.nlm.nih.gov/37065455/) S Afr J Physiother. 2023 Mar 27;79(1):1803.
64. Liu H, Tian Y, Jiang B, Song Y, Du A, Ji S. [Early mobilization practice in intensive care units: A large-scale cross-sectional survey in China.](https://pubmed.ncbi.nlm.nih.gov/36929678/) Nurs Crit Care. 2023 Mar 16
65. Lin Y, Liang T, Zhang X, Peng Y, Li S, Huang X, Chen L. [Early goal-directed mobilization in patients with acute type A aortic dissection: A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/37070198/) Clin Rehabil. 2023 Apr 17:2692155231169822
66. Ahmad AM, Elshenawy AI, Abdelghany M, Elghaffar HAA. [Effects of early mobilisation program on functional capacity, daily living activities, and N-Terminal prohormone brain natriuretic peptide in patients hospitalised for acute heart failure. A randomised controlled trial.](https://www.worldscientific.com/doi/10.1142/S1013702523500014) Hong Kong Physiotherapy Journal 2022 Oct;43(1):1-13
67. Lehmkuhl L, Dreyer P, Laerkner E, Tanghus Olsen H, Jespersen E, Juel Rothmann M. [Getting the body back on track - Understanding the phenomenon of mobilisation when conscious and mechanically ventilated patients are mobilised in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/37172466/) Intensive Crit Care Nurs. 2023 May 10;78:103450
68. Watanabe S, Hirasawa J, Naito Y, Mizutani M, Uemura A, Nishimura S, Suzuki K, Morita Y, Iida Y. [Association Between Intensive Care Unit-Acquired Weakness and Early Nutrition and Rehabilitation Intensity in Mechanically Ventilated Patients: A Multicenter Retrospective Observational Study.](https://pubmed.ncbi.nlm.nih.gov/37182030/) Cureus. 2023 Apr 11;15(4):e37417
69. Dagnachew TK, Woldegerima Berhe Y, Yalew Mustofa S, Birlie Chekol W. [Clinicians' knowledge and attitude towards early mobilization in intensive care units in Ethiopian tertiary hospitals: A multi-centre study.](https://pubmed.ncbi.nlm.nih.gov/37205156/) SAGE Open Med. 2023 May 15;11:20503121231172348
70. Maca et al. [The effect of the addition of in-bed leg cycling using a MOTOmed device to standard rehabilitation on the length of mechanical ventilation: a randomized clinical trial](https://www.signavitae.com/articles/10.22514/sv.2022.024). MRE Press 2023
71. Wu X, Xie L, Lei J, Yao J, Li J, Ruan L, Hong J, Zheng G, Cheng Y, Long L, Wang J, Huang C, Xie Q, Zhang X, He J, Yu X, Lv S, Sun Z, Liu D, Li X, Zhu J, Yang X, Wang D, Bao Y, Maas AIR, Menon D, Xue Y, Jiang J, Feng J, Gao G; ACES Participants. [Acute traumatic coma awakening by right median nerve electrical stimulation: a randomised controlled trial](https://link.springer.com/article/10.1007/s00134-023-07072-1). Intensive Care Med. 2023 Jun;49(6):633-644
72. Rittel CM, Borg BA, Hanessian AV, Kuhar A, Fain MJ, Bime C. Dimens [Longitudinal Assessment of Mobility and Self-care Among Critically Ill Older Adults. An Age-Friendly Health Systems Initiative Quality Improvement Study.](https://pubmed.ncbi.nlm.nih.gov/37219478/) Crit Care Nurs. 2023 Jul-Aug 01;42(4):234-239
73. Nickels M, Erwin K, McMurray G, Talbot R, Strong M, Krishnan A, van Haren FMP, Bissett B. [Feasibility, safety, and patient acceptability of electronic inspiratory muscle training in patients who require prolonged mechanical ventilation in the intensive care unit: A dual-centre observational study.](https://pubmed.ncbi.nlm.nih.gov/37321882/) Aust Crit Care. 2023 Jun 13:S1036-7314(23)00062-0
74. Lang JK, Haines KJ, Hodgson CL. [Development of a performance standard for physiotherapists delivering exercise and mobilisation to the critically ill: A modified Delphi consensus study.](https://pubmed.ncbi.nlm.nih.gov/36096922/) Aust Crit Care. 2023 Jul;36(4):470-476
75. Battle C, Pelo C, Hsu J, Driscoll T, Whitbeck S, White T, Webb M. [Expert consensus guidance on respiratory physiotherapy and rehabilitation of patients with rib fractures: An international, multidisciplinary e-Delphi study.](https://pubmed.ncbi.nlm.nih.gov/36728349/) J Trauma Acute Care Surg. 2023 Apr 1;94(4):578-583
76. Black C, Sanger H, Battle C, Eden A, Corner E. [Feasibility of mobilisation in ICU: a multi-centre point prevalence study of mobility practices in the UK.](https://pubmed.ncbi.nlm.nih.gov/37264471/) Crit Care. 2023 Jun 1;27(1):217.
77. Sakuramoto H, Nakamura K, Ouchi A, Okamoto S, Watanabe S, Liu K, Morita Y, Katsukawa H, Kotani T. [Current Practice and Barriers to the Implementation of Mobilization in ICUs in Japan: A Multicenter Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/37373649/) J Clin Med. 2023 Jun 9;12(12):3955
78. Tonna JE, Bailey M, Abrams D, Brodie D, Hodgson CL. [Predictors of early mobilization in patients requiring VV ECMO for greater than 7 days: An international cohort study.](https://pubmed.ncbi.nlm.nih.gov/37311360/) Heart Lung. 2023 Jun 10;62:57-63
79. Watanabe S, Iida Y, Hirasawa J, Naito Y, Mizutani M, Uemura A, Nishimura S, Suzuki K, Morita Y. [Impact of Extra-Corporeal Membrane Oxygenation and Blood Purification Therapy on Early Mobilization in the Intensive Care Unit: Retrospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/37317793/) Ann Rehabil Med. 2023 Jun;47(3):173-181
80. Turan A, Khanna AK, Brooker J, Saha AK, Clark CJ, Samant A, Ozcimen E, Pu X, Ruetzler K, Sessler DI. [Association Between Mobilization and Composite Postoperative Complications Following Major Elective Surgery.](https://pubmed.ncbi.nlm.nih.gov/37256591/) JAMA Surg. 2023 May 31:e231122
81. de Paula MAS, Carvalho EV, de Souza Vieira R, Bastos-Netto C, de Jesus LADS, Stohler CG, Arantes GC, Colugnati FAB, Reboredo MM, Pinheiro BV. [Effect of a structured early mobilization protocol on the level of mobilization and muscle strength in critical care patients: A randomized clinical trial](https://pubmed.ncbi.nlm.nih.gov/37417694/). Physiother Theory Pract. 2023 Jul 7:1-10
82. Esmealy L, Allahbakhshian A, Gholizadeh L, Khalili AF, Sarbakhsh P. Appl [Effects of early mobilization on pulmonary parameters and complications post coronary artery bypass graft surgery.](https://pubmed.ncbi.nlm.nih.gov/36635009/) Nurs Res. 2023 Feb;69:151653
83. Kho ME, Reid J, Molloy AJ, et al CYCLE Investigators and the Canadian Critical Care Trials Group. [*C*ritical Care C*yc*ling to Improve *L*ower *E*xtremity Strength (CYCLE): protocol for an international, multicentre randomised clinical trial of early in-bed cycling for mechanically ventilated patients.](https://pubmed.ncbi.nlm.nih.gov/37355270/) BMJ Open. 2023 Jun 23;13(6):e075685
84. Liang S, Pak Chun Chau J, Hoi Shan Lo S, Chow Choi K, Bai L, Cai W. [The effects of a sensory stimulation intervention on psychosocial and clinical outcomes of critically ill patients and their families: A randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36528458/) Intensive Crit Care Nurs. 2023 Apr;75:103369
85. Liu H, Tian Y, Jiang B, Song Y, Du A, Ji S. [Early mobilisation practice in intensive care units: A large-scale cross-sectional survey in China.](https://pubmed.ncbi.nlm.nih.gov/36929678/) Nurs Crit Care. 2023 Jul;28(4):510-518
86. Hwang Y, Kwon JY, Cho J, Choi J. [Individualized Goal Setting for Pediatric Intensive Care Unit-Based Rehabilitation Using the Canadian Occupational Performance Measure.](https://pubmed.ncbi.nlm.nih.gov/37371217/) Children (Basel). 2023 May 31;10(6):985
87. González-Castro A, Ferrero-Franco R, Blanco-Uelga C. [Do we actively and early mobilize patients admitted to an intensive care unit during mechanical ventilation?](https://pubmed.ncbi.nlm.nih.gov/37438217/) Enferm Intensiva (Engl Ed). 2023 Jul 10:S2529-9840(23)00036-8
88. Ankuda CK, Covinsky K, Freedman VA, Langa K, Aldridge MD, Yee C, Kelley AS. [The devil's in the details: Variation in estimates of late-life activity limitations across national cohort studies.](https://pubmed.ncbi.nlm.nih.gov/36511646/) J Am Geriatr Soc. 2023 Mar;71(3):858-868
89. McWilliams DJ, King EB, Nydahl P, Darbyshire JL, Gallie L, Barghouthy D, Bassford C, Gustafson OD. [Mobilisation in the EveNing to prevent and TreAt deLirium (MENTAL): a mixed-methods, randomised controlled feasibility trial.](https://pubmed.ncbi.nlm.nih.gov/37533416/) EClinicalMedicine. 2023 Jul 19;62:102101.
90. Gutierrez-Arias R, Pieper D, Nydahl P, González-Seguel F, Jalil Y, Oliveros MJ, Torres-Castro R, Seron P. [Assessment of redundancy, methodological and reporting quality, and potential discrepancies of results of systematic reviews of early mobilisation of critically ill adults: a meta-research protocol.](https://pubmed.ncbi.nlm.nih.gov/37474166/) BMJ Open. 2023 Jul 20;13(7):e074615
91. Söderberg A, Karlsson V, Fagevik Olsén M, Thelandersson A, Johansson A. [Patient as active partner - clue to successful early mobilization in intensive care.](https://pubmed.ncbi.nlm.nih.gov/37489585/) Physiother Theory Pract. 2023 Jul 25:1-11
92. Tennant MFH, Perme C, Butcher A. [Cutting-Edge Physical Therapy in Mechanical Circulatory Support: Critical Care Physical Therapy Perspectives.](https://pubmed.ncbi.nlm.nih.gov/37470248/) Tex Heart Inst J. 2023 Jul 17;50(4):e238180
93. Grensemann J, Gilmour S, Tariparast PA, Petzoldt M, Kluge S. [Comparison of nasotracheal versus orotracheal intubation for sedation, assisted spontaneous breathing, mobilization, and outcome in critically ill patients: an exploratory retrospective analysis.](https://pubmed.ncbi.nlm.nih.gov/37537207/) Sci Rep. 2023 Aug 3;13(1):12616
94. Dionne A, Cavayas YA, Magnuson D, Richard-Denis A, Petit Y, Barthélémy D, Bernard F, Mac-Thiong JM. [Is it safe to initiate activity-based therapy within days following traumatic spinal cord injury? Preliminary results from the PROMPT-SCI trial.](https://pubmed.ncbi.nlm.nih.gov/37531608/) J Spinal Cord Med. 2023 Aug 2:1-6
95. Vieira L, Silva PE, de Melo PF, Maldaner V, Durigan JQ, Marqueti RC, Nobrega O, Mathur S, Burtin C, Barin F, Machado-Silva W, Ramalho S, Chiappa GR, Gomes NO, Carvalho CRF, Cipriano GFB, Cipriano G. [Early Neuromuscular Electrical Stimulation Preserves Muscle Size and Quality and Maintains Systemic Levels of Signaling Mediators of Muscle Growth and Inflammation in Patients with Traumatic Brain Injury: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/37547450/) Crit Care Res Pract. 2023 Jul 26;2023:9335379
96. Medrinal C, Machefert M, Lamia B, Bonnevie T, Gravier FE, Hilfiker R, Prieur G, Combret Y. [Transcutaneous electrical diaphragmatic stimulation in mechanically ventilated patients: a randomised study.](https://pubmed.ncbi.nlm.nih.gov/37649092/) Crit Care. 2023 Aug 30;27(1):338
97. Morris IS, Bassi T, Bellissimo CA, de Perrot M, Donahoe L, Brochard L, Mehta N, Thakkar V, Ferguson ND, Goligher EC. [Proof of Concept for Continuous On-Demand Phrenic Nerve Stimulation to Prevent Diaphragm Disuse during Mechanical Ventilation (STIMULUS): A Phase 1 Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/37642635/) Am J Respir Crit Care Med. 2023 Aug 29
98. Barra ME, Iracheta C, Tolland J, Jehle J, Minova L, Li K, Amatangelo M, Krause P, Batra A, Vaitkevicius H. [Multidisciplinary Approach to Sedation and Early Mobility of Intubated Critically Ill Neurologic Patients Improves Mobility at Discharge.](https://pubmed.ncbi.nlm.nih.gov/37701262/) Neurohospitalist. 2023 Oct;13(4):351-360
99. Hamazaki N, Kamiya K, Nozaki K, Koike T, Miida K, Yamashita M, Uchida S, Noda T, Maekawa E, Yamaoka-Tojo M, Matsunaga A, Arai M, Kitamura T, Ako J, Miyaji K. [Trends and Outcomes of Early Rehabilitation in the Intensive Care Unit for Patients With Cardiovascular Disease: A Cohort Study With Propensity Score-Matched Analysis.](https://pubmed.ncbi.nlm.nih.gov/37634967/) Heart Lung Circ. 2023 Aug 25:S1443-9506(23)04228-2
100. Watanabe S, Yamauchi K, Yasumura D, Suzuki K, Koike T, Katsukawa H, Morita Y, Scheffenbichler FT, Schaller SJ, Eikermann M. [Reliability and Effectiveness of the Japanese Version of the Mobilization Quantification Score.](https://pubmed.ncbi.nlm.nih.gov/37711928/) Cureus. 2023 Aug 13;15(8):e43440
101. Ashkenazy S, Ganz FD, Kuniavsky M, Jakobson L, Levy H, Avital IL, Kolpak O, Golan D, Rebecca ML, Itzhakov S, Suliman M, Lavy A, Biton C, Broyer C, Benbenishty J. [Patient mobilization in the intensive care unit: Assessing practice behavior - A multi-center point prevalence study.](https://pubmed.ncbi.nlm.nih.gov/37599127/) Intensive Crit Care Nurs. 2023 Aug 18:103510
102. Thomas P, Chaseling W, Marais L, Matheson C, Paton M, Swanepoel N. [Physiotherapy services in intensive care. A workforce survey of Australia and New Zealand.](https://pubmed.ncbi.nlm.nih.gov/36577615/) Aust Crit Care. 2023 Sep;36(5):806-812
103. Summers MJ, Chapple LS, Bellomo R, et al TARGET Protein Investigators and the Australian and New Zealand Intensive Care Society Clinical Trials Group. [Study protocol for TARGET protein: The effect of augmented administration of enteral protein to critically ill adults on clinical outcomes: A cluster randomised, cross-sectional, double cross-over, clinical trial.](https://pubmed.ncbi.nlm.nih.gov/37876373/) Crit Care Resusc. 2023 Sep 29;25(3):147-154
104. Grissom CK, Holubkov R, Carpenter L, Hanna B, Jacobs JR, Jones C, Knighton AJ, Leither L, Lisonbee D, Peltan ID, Winberg C, Wolfe D, Srivastava R. [Implementation of coordinated spontaneous awakening and breathing trials using telehealth-enabled, real-time audit and feedback for clinician adherence (TEACH): a type II hybrid effectiveness-implementation cluster-randomized trial.](https://pubmed.ncbi.nlm.nih.gov/37735443/) Implement Sci. 2023 Sep 21;18(1):45
105. Ishibashi T, Kaneko H, Ueno K, Morita K, Itoh H, Okada A, Kamiya K, Suzuki Y, Matsuoka S, Fujiu K, Michihata N, Jo T, Takeda N, Morita H, Ako J, Node K, Yasunaga H, Komuro I. [Association Between Early Initiation of Cardiac Rehabilitation and Short-Term Outcomes of Patients With Acute Heart Failure Admitted to the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/37717477/) Am J Cardiol. 2023 Nov 1;206:285-291
106. Biagioni J, Easley T, DeAlmeida ML, Vova J, Fujimoto AB, Graessle S, Nelson J. [Early mobilization in a pediatric intensive care unit and WeeFIM scores at rehabilitation: A retrospective study.](https://pubmed.ncbi.nlm.nih.gov/37066924/) J Pediatr Rehabil Med. 2023;16(3):507-515
107. Hansen H, Torre A, Kallemose T, Ulrik CS, Godtfredsen NS. [Pulmonary telerehabilitation vs. conventional pulmonary rehabilitation - a secondary responder analysis.](https://pubmed.ncbi.nlm.nih.gov/37451863/) Thorax. 2023 Oct;78(10):1039-1042
108. Souto-Miranda S, Saraiva I, Spruit MA, Marques A. [Core outcome set for pulmonary rehabilitation of patients with COPD: results of a modified Delphi survey.](https://pubmed.ncbi.nlm.nih.gov/37758457/) Thorax. 2023 Sep 27:thorax-2023-220522
109. Naya K, Sakuramoto H, Aikawa G, Hayashi K. [Implementation of a nurse-led multidisciplinary huddle meeting for improvement of early rehabilitation in ICU: a healthcare quality improvement project.](https://pubmed.ncbi.nlm.nih.gov/37758665/) BMJ Open Qual. 2023 Sep;12(3):e002215
110. Knutsen K, Solbakken R, Normann B. [The diverse invitations to participate in early rehabilitation - A qualitative study of nurse-patient interactions in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/37793317/) Intensive Crit Care Nurs. 2023 Oct 2;80:103556
111. Nydahl P, Fick LS, Eggmann S. [Break down barriers - Can point prevalence studies change mobilization practice in the intensive care unit?](https://pubmed.ncbi.nlm.nih.gov/37788523/) Intensive Crit Care Nurs. 2023 Oct 1;80:103537
112. Broadway K, Nuila CM. [Implementation of an Interprofessional Mobility Program in a Neurosurgical Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/37738106/) J Neurosci Nurs. 2023 Sep 20
113. Edelstein J, Messenger L, Kinney AR, Graham JE, Malcolm MP. [Predicting Receipt and Types of Occupational Therapy Services for Patients with Arousal Deficits in the Neuro Critical Care Unit.](https://pubmed.ncbi.nlm.nih.gov/35200095/) Occup Ther Health Care. 2023 Oct;37(4):445-460
114. Han PH, Shih CY, Wang AY, Chen YC, Yang CC, Fan YC, Hsiang HF, Chiu HY. [Effects of an interactive handgrip game on surgical patients requiring intensive care: An assessor-blinded randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/37354696/) Intensive Crit Care Nurs. 2023 Oct;78:103474
115. Mahran GSK, Mehany MM, Abbas MS, Shehata AE, AbdElhafeez AS, Obiedallah AA, Mohamed SA. [Short-Term Outcomes of Neuromuscular Electrical Stimulation in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/36823739/) Crit Care Nurs Q. 2023 Apr-Jun 01;46(2):126-135
116. Jameson TSO, Caldow MK, Stephens F, Denehy L, Lynch GS, Koopman R, Krajcova A, Urban T, Berney S, Duska F, Puthucheary Z. [Inflammation and altered metabolism impede efficacy of functional electrical stimulation in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/37932834/) Crit Care. 2023 Nov 6;27(1):428
117. Carruthers H, Derry D, Astin F. [Becoming partners in rehabilitation with patients in intensive care: physiotherapists' perspectives.](https://pubmed.ncbi.nlm.nih.gov/37818631/) Disabil Rehabil. 2023 Oct 11:1-11
118. Lewis M, Cumming L, Twose P. [Comparison of perceptions and barriers to mobilization in critical care: A comparison of nursing staff and physiotherapists-A single-site service evaluation.](https://pubmed.ncbi.nlm.nih.gov/33818896/) Nurs Crit Care. 2023 Nov;28(6):1196-1203
119. Woodbridge HR, Norton C, Jones M, Brett SJ, Alexander CM, Gordon AC. [Clinician and patient perspectives on the barriers and facilitators to physical rehabilitation in intensive care: a qualitative interview study.](https://pubmed.ncbi.nlm.nih.gov/37940149/) BMJ Open. 2023 Nov 8;13(11):e073061
120. Lim WC, Hill AM, Edgar DW, Elliott M, van der Lee LM. [Multidisciplinary staff perceived barriers and enablers to early mobilization of patients with burns in the ICU.](https://pubmed.ncbi.nlm.nih.gov/36878735/) Burns. 2023 Nov;49(7):1688-1697
121. Viloria MAD, Lee SD, Takahashi T, Cheng YJ. [Physical therapy in the intensive care unit: A cross-sectional study of three Asian countries.](https://pubmed.ncbi.nlm.nih.gov/37943762/) PLoS One. 2023 Nov 9;18(11):e0289876
122. Stoppe C, Patel JJ, Zarbock A, Lee ZY, Rice TW, Mafrici B, Wehner R, Chan MHM, Lai PCK, MacEachern K, Myrianthefs P, Tsigou E, Ortiz-Reyes L, Jiang X, Day AG, Hasan MS, Meybohm P, Ke L, Heyland DK. [The impact of higher protein dosing on outcomes in critically ill patients with acute kidney injury: a post hoc analysis of the EFFORT protein trial.](https://pubmed.ncbi.nlm.nih.gov/37853490/) Crit Care. 2023 Oct 18;27(1):399
123. Trivedi P, Patel S, Edwards G, Jenkins T, Man WD, Nolan CM. [Five-Repetition Sit-to-Stand Test: Responsiveness and Minimal Important Difference in Idiopathic Pulmonary Fibrosis.](https://pubmed.ncbi.nlm.nih.gov/37847730/) Ann Am Thorac Soc. 2023 Oct 17
124. Othman SY, Elbiaa MA, Mansour ER, El-Menshawy AM, Elsayed SM. [Effect of neuromuscular electrical stimulation and early physical activity on ICU-acquired weakness in mechanically ventilated patients: A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/37984373/) Nurs Crit Care. 2023 Nov 20
125. Olímpio Júnior H, Camilo GB, Marques JA, Xavier RS, Santos CE, Lopes AJ. Physiother [Effects of transcutaneous electrical diaphragmatic stimulation in critically ill elderly patients: a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38044840/) Theory Pract. 2023 Dec 4:1-10
126. Stiller KR, Dafoe S, Jesudason CS, McDonald TM, Callisto RJ. [Passive Movements Do not Appear to Prevent or Reduce Joint Stiffness in Medium to Long-Stay ICU Patients: A Randomized, Controlled, Within-Participant Trial.](https://pubmed.ncbi.nlm.nih.gov/38046936/) Crit Care Explor. 2023 Nov 29;5(12):e1006
127. Rapolthy-Beck A, Fleming J, Turpin M, Sosnowski K, Dullaway S, White H. [Efficacy of Early Enhanced Occupational Therapy in an Intensive Care Unit (EFFORT-ICU): A Single-Site Feasibility Trial.](https://pubmed.ncbi.nlm.nih.gov/38015492/) Am J Occup Ther. 2023 Nov 1;77(6):7706205110
128. Scholefield BR, Menzies JC, McAnuff J, Thompson JY, Manning JC, Feltbower RG, Geary M, Lockley S, Morris KP, Moore D, Pathan N, Kirkham F, Forsyth R, Rapley T. [Implementing early rehabilitation and mobilisation for children in UK paediatric intensive care units: the PERMIT feasibility study.](https://pubmed.ncbi.nlm.nih.gov/38063184/) Health Technol Assess. 2023 Nov;27(27):1-155
129. Fraga IB, Caballero LG, Lago PD, de Oliveira JLC, Scherer M, Haeffner MP, Rabelo-Silva ER. [Perceived dyspnea and experience of hospitalized patients with acute decompensated heart failure undergoing an early MObilization protocol with immersive Virtual rEality: MOVE study protocol for a parallel superiority randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/38001540/) Trials. 2023 Nov 24;24(1):751
130. Hayward KS, Dalton EJ, Barth J, Brady M, Cherney LR, Churilov L, Clarkson AN, Dawson J, Dukelow SP, Feys P, Hackett M, Zeiler SR, Lang CE. [Control intervention design for preclinical and clinical trials: Consensus-based core recommendations from the third Stroke Recovery and Rehabilitation Roundtable.](https://pubmed.ncbi.nlm.nih.gov/37837348/) Neurorehabil Neural Repair. 2023 Oct 14:15459683231209162
131. Bickenbach J, Fritsch S, Cosler S, Simon Y, Dreher M, Theisen S, Kao J, Hildebrand F, Marx G, Simon TP. [Effects of structured protocolized physical therapy on the duration of mechanical ventilation in patients with prolonged weaning.](https://pubmed.ncbi.nlm.nih.gov/38042000/) J Crit Care. 2023 Dec 1;80:154491
132. Jourdan C, Pradalier F, Chalard K, Ascher M, Miron Duran F, Pavillard F, Greco F, Mellouk M, Fournier S, Djanikian F, Laffont I, Gelis A, Perrigault PF. [Body-weight support gait training in neurological intensive care: safety, feasibility, and delays before walking with or without suspension.](https://pubmed.ncbi.nlm.nih.gov/38093374/) J Neuroeng Rehabil. 2023 Dec 13;20(1):167
133. Jenkins AS, Isha S, Hanson AJ, Kunze KL, Johnson PW, Sura L, Cornelius PJ, Hightower J, Heise KJ, Davis O, Satashia PH, Hasan MM, Esterov D, Worsowicz GM, Sanghavi DK. [Rehabilitation in the Intensive Care Unit: How Amount of Physical and Occupational Therapy Impacts Patients' Functionality and Length of Hospital Stay.](https://pubmed.ncbi.nlm.nih.gov/38037517/) PM R. 2023 Dec 1. doi: 10.1002/pmrj.13116
134. Watanabe S, Liu K, Kozu R, Yasumura D, Yamauchi K, Katsukawa H, Suzuki K, Koike T, Morita Y. [Association Between Mobilization Level And Activity of Daily Living Independence in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/37990499/) Ann Rehabil Med. 2023 Dec;47(6):519-527
135. Lorenz M, Fuest K, Ulm B, Grunow JJ, Warner L, Bald A, Arsene V, Verfuß M, Daum N, Blobner M, Schaller SJ. [The optimal dose of mobilisation therapy in the ICU: a prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/37986100/) J Intensive Care. 2023 Nov 20;11(1):56.
136. Vermeersch V, Léon K, Caillard A, Szczesnowski A, Albacete G, Marec N, Tissier F, Gilbert G, Droguet M, Marcorelles P, Giroux-Metges MA, Huet O. [Moderate Exercise Modulates Inflammatory Responses and Improves Survival in a Murine Model of Acute Pneumonia.](https://pubmed.ncbi.nlm.nih.gov/38193770/) Crit Care Med. 2024 Jan 9
137. Frazão M, Cipriano G Jr, Silva PE. [Does inflammation and altered metabolism impede efficacy of functional electrical stimulation in critically ill patients? Unleashing the potential of individualized functional electrical stimulation-cycling in critical illness.](https://pubmed.ncbi.nlm.nih.gov/38167053/) Crit Care. 2024 Jan 2;28(1):8
138. Wu TT, Chen QL, Lin XX, Xu ML, Chen XX, Luo CJ, Zhuang YN, Wei YQ, Wu JB, Xiong J, Chen LL, Li H. [Effects of a multilevel intervention of resistance training with or without beta-hydroxy-beta-methylbutyrate in medical ICU patients during entire hospitalisation: a four-arm multicentre randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38102705/) Crit Care. 2023 Dec 15;27(1):493
139. Shinohara A, Kagaya H, Komura H, Ozaki Y, Teranishi T, Nakamura T, Nishida O, Otaka Y. [The effect of in-bed leg cycling exercise on muscle strength on muscle strenghth in patient with intensive care unit acquiered weakness.](https://pubmed.ncbi.nlm.nih.gov/38188901/) J Rehabil Med Clin Commun. 2023 Dec 28;6:18434
140. Parfait M, Rohrs E, Joussellin V, Mayaux J, Decavèle M, Reynolds S, Similowski T, Demoule A, Dres M. [An Initial Investigation of Diaphragm Neurostimulation in Patients with Acute Respiratory Distress Syndrome.](https://pubmed.ncbi.nlm.nih.gov/38088791/) Anesthesiology. 2023 Dec 13
141. Foudhaili A, Vitiello D, Chousterman BG. [Early mobilization of patients with subarachnoid haemorrhage: a national survey of french intensive care units.](https://pubmed.ncbi.nlm.nih.gov/38192161/) J Rehabil Med. 2024 Jan 8;56:jrm17734
142. Mazwi N, Lissak I, Wongtangman K, Platzbecker K, Albrecht L, Teja B, Xu X, Morteo NM, Sparling T, Latronico N, Barbieri S, Blobner M, Schaller SJ, Eikermann M. PM R. [Effects of mobility dose on discharge disposition in critically ill stroke patients.](https://pubmed.ncbi.nlm.nih.gov/37448373/) 2023 Dec;15(12):1547-1556
143. Rogers T, Stram D, Fort V, Wang X, Weintraub MR, Wong V, Boshuizen V. [Pediatric Intensive Care Unit Early Mobility Program: Impact on Patient Functional Status.](https://pubmed.ncbi.nlm.nih.gov/37695848/) Perm J. 2023 Dec 15;27(4):25-35
144. Mayer KP, Silva S, Beaty A, Davenport A, Minniti M, Dorn SU, White LS, Sabol VK, Pastva AM. [Relationship of Age And Mobility Levels During Physical Rehabilitation With Clinical Outcomes in Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/38163032/) Arch Rehabil Res Clin Transl. 2023 Oct 10;5(4):100305
145. Yasaka T, Ohbe H, Igarashi A, Yamamoto-Mitani N, Yasunaga H. [Impact of the health policy for interdisciplinary collaborative rehabilitation practices in intensive care units: A difference-in-differences analysis in Japan.](https://pubmed.ncbi.nlm.nih.gov/38198928/) Intensive Crit Care Nurs. 2024 Jan 9;83:103625
146. Lehmkuhl L, Dreyer P, Laerkner E, Olsen HT, Jespersen E, Rothmann MJ. [Mobilisation during mechanical ventilation: A qualitative study exploring the practice of conscious patients, nurses and physiotherapists in intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/38151815/) J Clin Nurs. 2023 Dec 27.
147. Bruder AL, Gururaja A, Narayani N, Kleinpell R, Schlesinger JJ. [Patients' Perceptions of Virtual Live Music in the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/38161170/) Am J Crit Care. 2024 Jan 1;33(1):54-59
148. Suzuki G, Kanayama H, Arai Y, Iwanami Y, Kobori T, Masuyama Y, Yamamoto S, Serizawa H, Nakamichi Y, Watanabe M, Honda M, Okuni I. [Early Mobilization Using a Mobile Patient Lift in the ICU: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/38317369/) Crit Care Med. 2024 Feb 6
149. Neto RPM, Espósito LMB, da Rocha FC, Filho AAS, Silva JHG, de Sousa Santos EC, Sousa BLSC, Dos Santos Gonçalves KRR, Garcia-Araujo AS, Hamblin MR, Ferraresi C. [Photobiomodulation therapy (red/NIR LEDs) reduced the length of stay in intensive care unit and improved muscle function: A randomized, triple-blind, and sham-controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38262071/) J Biophotonics. 2024 Jan 23:e202300501.
150. Doi S, Nakanishi N, Kawahara Y, Nomura K, Shima M, Shiraishi M, Oto J. [Effects of Vibration Therapy on the Physical Function of Critically Ill Adults Trial: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/38277179/) Crit Care Med. 2024 Jan 26
151. Trivedi JR, Endo T, Sharma A, Fox MP, Slaughter MS, van Berkel VH. ASAIO [Ambulatory Extracorporeal Membrane Oxygenation Use in Patients Listed for Lung Transplant.](https://pubmed.ncbi.nlm.nih.gov/38300884/) J. 2024 Feb 2
152. Major ME, Sommers J, Horrevorts E, Buist CM, Dettling-Ihnenfeldt DS, van der Schaaf M. [Inspiratory muscle training for mechanically ventilated patients in the intensive care unit: Obstacles and facilitators for implementation. A mixed method quality improvement study.](https://pubmed.ncbi.nlm.nih.gov/38320925/) Aust Crit Care. 2024 Feb 6:S1036-7314(24)00021-3
153. Battaglini D, Ciaravolo E, Caiffa S, Delpiano L, Ball L, Vena A, Giacobbe DR, Bassetti M, Matta B, Pelosi P, Robba C; GECOVID Collaborators; GECOVID collaborators:. [Systemic and Cerebral Effects of Physiotherapy in Mechanically Ventilated Subjects.](https://pubmed.ncbi.nlm.nih.gov/36810363/) Respir Care. 2023 Apr;68(4):452-461.
154. Choong K, Fraser DD, Al-Farsi A, Awlad Thani S, Cameron S, Clark H, Cuello C, Debigaré S, Ewusie J, Kennedy K, Kho ME, Krasevich K, Martin CM, Thabane L, Nanji J, Watts C, Simpson A, Todt A, Wong J, Xie F, Vu M, Cupido C; Canadian Critical Care Trials Group. [Early Rehabilitation in Critically ill Children: A Two Center Implementation Study.](https://pubmed.ncbi.nlm.nih.gov/38240534/) Pediatr Crit Care Med. 2024 Feb 1;25(2):92-105.
155. Choong K, Fraser DD, Cameron S, Cuello C, Debigaré S, Ewusie J, Kho ME, Krasevich K, Martin CM, Thabane L, Todt A, Cupido C; Canadian Critical Care Trials Group. [Post-Intensive Care Sequelae in Pediatrics-Results of an Early Rehabilitation Implementation Study.](https://pubmed.ncbi.nlm.nih.gov/38305699/) Pediatr Crit Care Med. 2024 Feb 2
156. Wade CL, Robinson LJ, Baker K, Saxton JM, Wright SE, Adams N, Scott J. [A group concept mapping and ethnographic study of intensive care rehabilitation culture.](https://pubmed.ncbi.nlm.nih.gov/38288621/) Nurs Crit Care. 2024 Jan;29(1):226-233
157. Suzuki G, Kanayama H, Arai Y, Iwanami Y, Kobori T, Masuyama Y, Yamamoto S, Serizawa H, Nakamichi Y, Watanabe M, Honda M, Okuni I. [Early Mobilization Using a Mobile Patient Lift in the ICU: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/38317369/) Crit Care Med. 2024 Feb 6
158. Warmbein A, Hübner L, Rathgeber I, Mehler-Klamt AC, Huber J, Schroeder I, Scharf C, Gutmann M, Biebl J, Manz K, Kraft E, Eberl I, Zoller M, Fischer U. [Robot-assisted early mobilization for intensive care unit patients: Feasibility and first-time clinical use.](https://pubmed.ncbi.nlm.nih.gov/38350342/) Int J Nurs Stud. 2024 Apr;152:104702
159. Panelli A, Grimm AM, Krause S, Verfuß MA, Ulm B, Grunow JJ, Bartels HG, Carbon NM, Niederhauser T, Weber-Carstens S, Brochard L, Schaller SJ. [Noninvasive Electromagnetic Phrenic Nerve Stimulation in Critically Ill Patients: A Feasibility Study.](https://pubmed.ncbi.nlm.nih.gov/38403186/) Chest. 2024 Feb 24:S0012-3692(24)00271-X
160. van Galen DJM, Meinders Q, Halfwerk FR, Arens J. [ECMOve: A Mobilization Device for Extracorporeal Membrane Oxygenation Patients.](https://pubmed.ncbi.nlm.nih.gov/38324706/) ASAIO J. 2024 Feb 20.
161. da Silveira LTY, Politi MT, Ferreyro BL, de Souza AAL, Colombo AS, Fu C. [Predictive Factors for Physiotherapy Session Length at an Adult Intensive Care Unit: A Longitudinal Panel Study.](https://pubmed.ncbi.nlm.nih.gov/38369230/) Arch Phys Med Rehabil. 2024 Feb 16:S0003-9993(24)00809-8
162. Sui W, Gong X, Zhuang Y. [Impact of knowledge, attitudes and self-reported practices of nurses on early mobilization of mechanically ventilated patients in the ICU.](https://pubmed.ncbi.nlm.nih.gov/38410092/) Nurs Crit Care. 2024 Feb 27
163. Ünver S, Yildirim M, Akbal S, Sever S. [Challenges experienced by cardiac intensive care nurses during first out-of-bed patient mobilization after open-heart surgery: A descriptive phenomenological qualitative study.](https://pubmed.ncbi.nlm.nih.gov/38318643/) J Adv Nurs. 2024 Feb 6
164. Wozniak H, Kho ME, Fan E. [Early mobilisation in the intensive care unit: shifting from navigating risks to a patient-centred approach.](https://pubmed.ncbi.nlm.nih.gov/38513676/) Lancet Respir Med. 2024 Mar 18:S2213-2600(24)00039-0
165. Karachi F, van Nes MB, Gosselink R, Hanekom S. [Patient perceptions of ICU physiotherapy: 'Your body needs to go somewhere to be recharged … '.](https://pubmed.ncbi.nlm.nih.gov/38357692/) South Afr J Crit Care. 2023 Dec 13;39(3):e1092
166. Zhang C, Wang X, Mi J, Zhang Z, Luo X, Gan R, Mu S. [Effects of the High-Intensity Early Mobilization on Long-Term Functional Status of Patients with Mechanical Ventilation in the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/38560481/) Crit Care Res Pract. 2024 Mar 22;2024:4118896
167. Flores J, Ziegler B, Silvello D, Dalcin PTR. [Effects of an early rehabilitation program for adult cystic fibrosis patients during hospitalization: a randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/37585917/) Braz J Med Biol Res. 2023 Aug 14;56:e12752
168. Huebner L, Warmbein A, Scharf C, Schroeder I, Manz K, Rathgeber I, Gutmann M, Biebl J, Mehler-Klamt A, Huber J, Eberl I, Kraft E, Fischer U, Zoller M. [Effects of robotic-assisted early mobilization versus conventional mobilization in intensive care unit patients: prospective interventional cohort study with retrospective control group analysis.](https://pubmed.ncbi.nlm.nih.gov/38582934/) Crit Care. 2024 Apr 6;28(1):112
169. Dunn H, da Costa Ferreira Oberfrank N, Krupp A. [Preimplementation of Critical Care Early Mobility Clinical Decision Support: A Content Validation Study.](https://pubmed.ncbi.nlm.nih.gov/38512354/) Comput Inform Nurs. 2024 Mar 21
170. Zhang T, Duan XL, Chen YX, Feng Y, Huang QR, Tang X, Lin L, Xiao N. [The effectiveness and safety of centralized early rehabilitation care for critically ill children with severe acquired brain injury: A retrospective cohort and implementation study.](https://pubmed.ncbi.nlm.nih.gov/38614465/) Sci Prog. 2024 Apr-Jun;107(2):368504241236354.
171. Maiden MJ, Horton M, Power P, Knowles S, Hammond NE; George Institute for Global Health, the Australian, New Zealand Intensive Care Society Clinical Trials Group. [Critically ill patients having time outdoors: prevalence and resources in Australia and New Zealand.](https://pubmed.ncbi.nlm.nih.gov/38421385/) Intensive Care Med. 2024 Mar;50(3):475-477
172. Mirza FT, Saaudi N, Noor N. [Early mobilization of critically ill ICU patients: A survey of knowledge, perceptions, and practices of Malaysian physiotherapists.](https://pubmed.ncbi.nlm.nih.gov/38555884/) Med J Malaysia. 2024 Mar;79(Suppl 1):40-46
173. Wang X, Lv Y, Zhang C, Mi J, Zhao Q. [Status quo and influencing factors of multiprofessional and multidisciplinary teamwork for early mobilization in mechanically ventilated patients in ICUs: A multi-centre survey study.](https://pubmed.ncbi.nlm.nih.gov/38622988/) J Adv Nurs. 2024 Apr 15. doi: 10.1111/jan.16149
174. Wi S, Shin HI, Hyun SE, Sung KS, Lee WH. [Feasibility and safety of in-bed cycling/stepping in critically ill patients: A study protocol for a pilot randomized controlled clinical trial.](https://pubmed.ncbi.nlm.nih.gov/38728323/) PLoS One. 2024 May 10;19(5):e0301368
175. Bano A, Aftab A, Sahar W, Haider Z, Rashed MI, Shabbir HM. [Combined Effects of Continuous Positive Airway Pressure and Cycle Ergometer in Early Rehabilitation of Coronary Artery Bypass Surgery Patients.](https://pubmed.ncbi.nlm.nih.gov/37553924/) J Coll Physicians Surg Pak. 2023 Aug;33(8):866-871
176. Elizabeth NSH, Yanni T, May LS, Fen TH, Janice LX, Peijun K, Pheng OS, Jie TS, Will LNH. [Indirect calorimetry directed feeding and cycling in the older ICU population: a pilot randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38714926/) BMC Anesthesiol. 2024 May 7;24(1):171
177. Wai GJ, Lu Z, Gill S, Henderson I, Auais M. [Impact of the End PJ Paralysis interventions on patient health outcomes at the participating hospitals in Alberta, Canada.](https://pubmed.ncbi.nlm.nih.gov/38571404/) Disabil Rehabil. 2024 Apr 4:1-11
178. Fazio SA, Cortés-Puch I, Stocking JC, Doroy AL, Black H, Liu A, Taylor SL, Adams JY. [Early Mobility Index and Patient Outcomes: A Retrospective Study in Multiple Intensive Care Units.](https://pubmed.ncbi.nlm.nih.gov/38688854/) Am J Crit Care. 2024 May 1;33(3):171-179
179. Woodbridge HR, McCarthy CJ, Jones M, Willis M, Antcliffe DB, Alexander CM, Gordon AC. [Assessing the safety of physical rehabilitation in critically ill patients: a Delphi study.](https://pubmed.ncbi.nlm.nih.gov/38689372/) Crit Care. 2024 Apr 30;28(1):144
180. Jayachandran B, Venkatesan K, Tan SBC, Yeo LSH, Venkatacham J, Selvakumar MP, Tan BY. [Feasibility of Combining Functional Mobilisation with Resistance and Endurance Training for Mechanically Ventilated Patients in Intensive Care Unit Setting-A Pilot Study.](https://pubmed.ncbi.nlm.nih.gov/38673684/) J Clin Med. 2024 Apr 20;13(8):2412
181. Yasumura D, Katsukawa H, Matsuo R, Kawano R, Taito S, Liu K, Hodgson C. [Feasibility and Inter-rater Reliability of the Japanese Version of the Intensive Care Unit Mobility Scale.](https://pubmed.ncbi.nlm.nih.gov/38803745/) Cureus. 2024 Apr 27;16(4):e59135
182. Jain S, Murphy TE, Falvey JR, Leo-Summers L, O'Leary JR Jr, Zang E, Gill TM, Krumholz HM, Ferrante LE. [Social Determinants of Health and Delivery of Rehabilitation to Older Adults During ICU Hospitalization.](https://pubmed.ncbi.nlm.nih.gov/38728030/) JAMA Netw Open. 2024 May 1;7(5):e2410713
183. O'Neil AM, Boyd A, Rush C, Roggy D, Walroth T, Hartman B. [Mobilization with Femoral Catheters in the Burn ICU: A retrospective review following change in practice guidelines.](https://pubmed.ncbi.nlm.nih.gov/38742612/) J Burn Care Res. 2024 May 14
184. Kaufman BG, Hastings SN, Meyer C, Stechuchak KM, Choate A, Decosimo K, Sullivan C, Wang V, Allen KD, Van Houtven CH. [The business case for hospital mobility programs in the veterans health care system: Results from multi-hospital implementation of the STRIDE program.](https://pubmed.ncbi.nlm.nih.gov/38632179/) Health Serv Res. 2024 Apr 17
185. Jacobs JM, Rahamim A, Beil M, Guidet B, Vallet H, Flaatten H, Leaver SK, de Lange D, Szczeklik W, Jung C, Sviri S. [Critical care beyond organ support: the importance of geriatric rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/38727919/) Ann Intensive Care. 2024 May 10;14(1):71
186. Kho ME, Berney S, Pastva AM, Kelly L, Reid JC, Burns KEA, Seely AJ, D'Aragon F, Rochwerg B, Ball I, Fox-Robichaud AE, Karachi T, Lamontagne F, Archambault PM, Tsang JL, Duan EH, Muscedere J, Verceles AC, Serri K, English SW, Reeve BK, Mehta S, Rudkowski JC, Heels-Ansdell D, O'Grady HK, Strong G, Obrovac K, Ajami D, Camposilvan L, Tarride JE, Thabane L, Herridge MS, Cook DJ. [**Early** **In**-**Bed** **Cycle** **Ergometry** in **Mechanically** **Ventilated** **Patients**.](https://pubmed.ncbi.nlm.nih.gov/38865147/) NEJM Evid. 2024 Jul;3(7):EVIDoa2400137
187. Yen HC, Chuang HJ, Hsiao WL, Tsai YC, Hsu PM, Chen WS, Han YY. [Assessing the impact of early progressive mobilization on moderate-to-severe traumatic brain injury: a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38778416/) Crit Care. 2024 May 22;28(1):172
188. Connolly B, Milton-Cole R, Blackwood B, Pattison N. [Using patient and care partner experiences to confirm outcomes of relevance for inclusion in a core outcome set for trials of physical rehabilitation in critical illness: A qualitative interview study.](https://pubmed.ncbi.nlm.nih.gov/38845285/) Aust Crit Care. 2024 Jun 5:S1036-7314(24)00092-4
189. Brinkley M, Biard M, Masuoka I, Hagan J. [Evaluation of Occupational Therapy and Music Therapy Co-Treatment in the Neonatal Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/37670470/) Phys Occup Ther Pediatr. 2024;44(4):513-525
190. Kondo T, Tsuboi H, Nishiyama K, Takahashi G, Nishimura Y. [Effects of rehabilitation treatments jointly considered by physiatrists and rehabilitation therapists in patients with severe burn injury.](https://pubmed.ncbi.nlm.nih.gov/38604823/) Burns. 2024 Aug;50(6):1621-1631
191. Muñoz-Muñoz F, Leppe J, González-Seguel F, Castro-Ávila A. [Daily compliance of the ABCDEF liberation bundle for patients in the intensive care unit: A retrospective descriptive study.](https://pubmed.ncbi.nlm.nih.gov/38723209/) Medwave. 2024 May 9;24(4):e2795
192. Badi KR, Hajiesmaeili M, Mokhtari M, Goharani R, Amirdosara M, Zangi M. [The Interval between External Ventricular Drain (EVD) Implantation and Time to Mobilization in Patients at the Neurosurgery ICU.](https://pubmed.ncbi.nlm.nih.gov/38874234/) Turk Neurosurg. 2024 Sep 20
193. Serpa Neto A, Bailey M, Seller D, Agli A, Bellomo R, Brickell K, Broadley T, Buhr H, Gabbe BJ, Gould DW, Harrold M, Higgins AM, Hurford S, Iwashyna TJ, Nichol AD, Presneill JJ, Schaller SJ, Sivasuthan J, Tipping CJ, Poole A, Parke R, Bradley S, Webb S, Zoungas S, Young PJ, Hodgson CL. [Impact of High Dose Early Mobilization on Outcomes for Patients with Diabetes: A Secondary Analysis of the TEAM Trial.](https://pubmed.ncbi.nlm.nih.gov/38763167/) Am J Respir Crit Care Med. 2024 May 19
194. Mart MF, Ely EW. [Early Mobilization in the ICU and Diabetes: A Bittersweet Concoction?](https://pubmed.ncbi.nlm.nih.gov/38763507/) Am J Respir Crit Care Med. 2024 May 19
195. Nordon-Craft A, Moss M. [The Future for Early Mobilization Clinical Trials? Lessons From the Business World With Hype Curves and Shrinking the Change Strategies.](https://pubmed.ncbi.nlm.nih.gov/38752818/) Crit Care Med. 2024 Jun 1;52(6):987-989
196. Turan M, Cengiz Z. [The effect of abdominal massage and in-bed ROM exercise on gastrointestinal complications and comfort in intensive care unit patients receiving enteral nutrition: A randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38720481/) Jpn J Nurs Sci. 2024 Jul;21(3):e12602
197. Twose P, Peirce S, Maisey J, Jones L, Nunn J. [Ventilator-tube holder for mobilising patients with a tracheostomy: A pilot usability study (TrachVest).](https://pubmed.ncbi.nlm.nih.gov/38960743/) Aust Crit Care. 2024 Jul 3:S1036-7314(24)00113-9.
198. Freeman-Sanderson A, Brodsky MB, Dale C, Gupta A, Haines K, Happ MB, Hart N, Hemsley B, Istanboulian L, Spronk P, Sullivan R, Sutt AL, Rose L. [A Core Outcome Set for Research Evaluating Interventions to Enable Communication in Patients With an Artificial Airway: An International Delphi Consensus Study (Comm-COS).](https://pubmed.ncbi.nlm.nih.gov/38899947/) Crit Care Med. 2024 Jun 20
199. Hodgson CL, Paton M. [Cycling in ICU - Keep Peddling or Push the Brakes?](https://pubmed.ncbi.nlm.nih.gov/38916423/) NEJM Evid. 2024 Jul;3(7):EVIDe2400176
200. Gustafson OD, King EB, Schlussel MM, Arnold A, Wade C, Nicol PS, Rowland MJ, Dawes H, Williams MA. [The impact of musculoskeletal ill health on quality of life and function after critical care: a multicentre prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/38536762/) Anaesthesia. 2024 Aug;79(8):821-828.
201. Wu TT, Su QP, Xiong J, Hiser S, Needham DM, Li H. [Reliability and validity of the Chinese version of the functional status score for the ICU (FSS-ICU) after translation and cross-cultural adaptation.](https://pubmed.ncbi.nlm.nih.gov/38934539/) Disabil Rehabil. 2024 Jun 27:1-8
202. Perme CS, Damasceno MS, Chandrashekar R, Xu J, Ratnani I, Masud F, Wilches-Luna EC. [Perme ICU Physical Therapy Competency: Development of an ICU Knowledge and Skills Assessment Tool.](https://pubmed.ncbi.nlm.nih.gov/38924825/) Intensive Crit Care Nurs. 2024 Jun 25;85:103750
203. Réginault T, Martinez Alejos R, Coueron R, Burle JF, Boyer A, Frison E, Vargas F. [Impacts of three inspiratory muscle training programs on inspiratory muscles strength and endurance among intubated and mechanically ventilated patients with difficult weaning: a multicentre randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/39049092/) J Intensive Care. 2024 Jul 25;12(1):28
204. Haghedooren E, Haghedooren R, Langer D, Gosselink R. [Feasibility and safety of interactive virtual reality upper limb rehabilitation in patients with prolonged critical illness.](https://pubmed.ncbi.nlm.nih.gov/39054204/) Aust Crit Care. 2024 Jul 24:S1036-7314(24)00117-6
205. Mayer KP, Haezebrouck E, Ginoza LM, Martinez C, Jan M, Michener LA, Fresenko LE, Montgomery-Yates AA, Kalema AG, Pastva AM, Biehl M, Mart MF, Johnson JK. [Early **physical** **rehabilitation** dosage in the intensive **care** unit associates with hospital **outcomes** after **critical** COVID-19.](https://pubmed.ncbi.nlm.nih.gov/39026370/) Crit Care. 2024 Jul 18;28(1):248
206. **Albarrati A**, Aldhahi MI, Almuhaid T, Alnahdi A, Alanazi AS, Alqahtani AS, Nazer RI. [A Culture of Early Mobilization in Adult Intensive Care Units: Perspective and Competency of Physicians.](https://pubmed.ncbi.nlm.nih.gov/38998835/) Healthcare (Basel). 2024 Jun 28;12(13):1300
207. Castro LSR, Nogueira DSS, Fu C, Casarotto RA. [Work-related musculoskeletal complaints of physiotherapists working in intensive care units: Frequency analysis, risk factors, management and prevention strategies.](https://pubmed.ncbi.nlm.nih.gov/39031421/) Work. 2024 Jul 17.
208. Connolly BA, Barclay M, Davies C, Hart N, Pattison N, Sturmey G, Williamson PR, Needham DM, Denehy L, Blackwood B. [PRACTICE: Development of a Core Outcome Set for Trials of Physical Rehabilitation in Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/39189977/) Ann Am Thorac Soc. 2024 Aug 27
209. Jiang B, Liu H, Liu Y, Tian Y, Nie M, Jing W, Du A. [Development of an early mobilization practice for critically ill patients in intensive care units: a Delphi method study.](https://pubmed.ncbi.nlm.nih.gov/39262699/) Am J Transl Res. 2024 Aug 15;16(8):3875-3885
210. de Paula MAS, Carvalho EV, de Souza Vieira R, Bastos-Netto C, de Jesus LADS, Stohler CG, Arantes GC, Colugnati FAB, Reboredo MM, Pinheiro BV. [Effect of a structured early mobilization protocol on the level of mobilization and muscle strength in critical care patients: A randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/37417694/) Physiother Theory Pract. 2024 Sep;40(9):2004-2013
211. Zhang K, Liu Y, Du P, Ou Y, Wu Y, Liu G. [Impact of Adding Bedside Cycling to Intensive Care Unit Rehabilitation on Physical Function and Length of Stay After Liver Transplantation: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/39242315/) Transplant Proc. 2024 Oct;56(8):1766-1773
212. Liu Y, Xin C, Wei L, Guo X, Zhang Y, Zhang M, Xing J, Gai Y. [Effect of an evidence-based early rehabilitation program on adult patients with venovenous extracorporeal membrane oxygenation: A cohort study.](https://pubmed.ncbi.nlm.nih.gov/39089198/) Intensive Crit Care Nurs. 2024 Oct;84:103744
213. O'Neil AM, Boyd A, Rush C, Roggy D, Walroth T, Hartman B. [Mobilization With Femoral Catheters in the Burn ICU: A Retrospective Review Following Change in Practice Guidelines.](https://pubmed.ncbi.nlm.nih.gov/38742612/) J Burn Care Res. 2024 Sep 6;45(5):1124-1129
214. Mercier LJ, Langelier DM, Buchanan J, Robinson S, Plamondon S. [Development and integration of a music therapy program in the neurologic inpatient setting: a qualitative study.](https://pubmed.ncbi.nlm.nih.gov/39183697/) Disabil Rehabil. 2024 Aug 26:1-10
215. Mall A, Stokes J, Streisfeld G, Zychowicz M, Granger BB. [Virtual Reality Strategies for Promoting Mobility in the Intensive Care Unit: A Case Report.](https://pubmed.ncbi.nlm.nih.gov/39213631/) AACN Adv Crit Care. 2024 Sep 15;35(3):238-243
216. Honda Y, Shin JH, Kunisawa S, Fushimi K, Imanaka Y. [Impact of a financial incentive on early rehabilitation and outcomes in ICU patients: a retrospective database study in Japan.](https://pubmed.ncbi.nlm.nih.gov/39174335/) BMJ Qual Saf. 2024 Aug 22:bmjqs-2024-017081
217. Mehta S, Yarnell C, Pinto R, Amaral ACKB. [Sex-based Differences in the Use of Best Practices in Mechanically Ventilated Adults in the Intensive Care Unit: An Analysis of the Toronto Multi-center iCORE Database.](https://pubmed.ncbi.nlm.nih.gov/39163578/) Ann Am Thorac Soc. 2024 Aug 20
218. Krupp AE, Tan A, Vasilevskis EE, Mion LC, Pun BT, Brockman A, Hetland B, Ely EW, Balas MC. [Patient, Practice, and Organizational Factors Associated With Early Mobility Performance in Critically Ill Adults.](https://pubmed.ncbi.nlm.nih.gov/39217113/) Am J Crit Care. 2024 Sep 1;33(5):324-333.
219. Carruthers H, Derry D, Astin F. [Becoming partners in rehabilitation with patients in intensive care: physiotherapists' perspectives.](https://pubmed.ncbi.nlm.nih.gov/37818631/) Disabil Rehabil. 2024 Sep;46(18):4194-4204
220. Siesage K, Schandl A, Johansson M, Nygren-Bonnier M, Karlsson E, Joelsson-Alm E. [Mobilisation of post-ICU patients - a crucial teamwork between physiotherapists and nurses at surgical wards: a qualitative study.](https://pubmed.ncbi.nlm.nih.gov/39155773/) Disabil Rehabil. 2024 Aug 19:1-7
221. Thomas P, Chaseling W, Marais L, Matheson C, Paton M, Swanepoel N. [Defining minimum workforce standards for intensive care physiotherapy in Australia and New Zealand: A Dephi study.](https://pubmed.ncbi.nlm.nih.gov/39307655/) Aust Crit Care. 2024 Sep 21:S1036-7314(24)00245-5
222. Wang L, Lu JY, Ma XX, Ma LO. [Study of the intensive care unit activity scale in the early rehabilitation of patients after direct cardiac surgery.](https://pubmed.ncbi.nlm.nih.gov/39286377/) World J Clin Cases. 2024 Sep 16;12(26):5930-5936
223. Krupp A, Potter K, Wendt L, Dunn Lopez K, Dunn H. Intensive [Using electronic health records to classify risk for adverse safety events with ICU patient Mobility: A Cross-Sectional study.](https://pubmed.ncbi.nlm.nih.gov/39378525/) Crit Care Nurs. 2024 Oct 7;86:103845
224. O'Grady HK, Ball I, Berney S, Burns KEA, Cook DJ, Fox-Robichaud A, Herridge MS, Karachi T, Mathur S, Reid JC, Rochwerg B, Rollinson T, Rudkowski JC, Bosch J, Turkstra LS, Kho ME. [Characterizing usual-care physical rehabilitation in Canadian intensive care unit patients: a secondary analysis of the Canadian multicentre Critical Care Cycling to Improve Lower Extremity Strength pilot randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/39317833/) Can J Anaesth. 2024 Oct;71(10):1406-1416
225. Aljohani HY, Alammar S, Alnawmasi S, Alfawzan R, Alotaibi N, Mumenah N, Alruwaili A, Algrani SS, Alotaibi TF, Alqahtani MK, Alqahtani MM, Alanazi AM, Ismaeil T, Almalki S, Alotaibi J. [Perceived Barriers of Clinical Roles Towards Intensive Care Unit Mobility.](https://pubmed.ncbi.nlm.nih.gov/39286774/) Rehabil Res Pract. 2024 Sep 9;2024:5551184
226. Zhang Y, Zhang W, Ma J, Ding X. [Early Rehabilitation Activity and Rehabilitation in ICU Wards in Central China: A Cross-Sectional Survey.](https://pubmed.ncbi.nlm.nih.gov/39371936/) Risk Manag Healthc Policy. 2024 Oct 2;17:2359-2373
227. Saldaña-Ortiz V, Martínez-Miguel E, Navarro-García C, Font-Jimenez I, Mansilla-Domínguez JM. [Intensive care unit patients' experiences of receiving music therapy sessions during invasive procedures: A qualitative phenomenological study.](https://pubmed.ncbi.nlm.nih.gov/39307654/) Aust Crit Care. 2024 Sep 21:S1036-7314(24)00246-7
228. van Mol M, Mpouzika M. [Music as healing in ICU survivors: The road ahead in seeking the right tone.](https://pubmed.ncbi.nlm.nih.gov/39265412/) Intensive Crit Care Nurs. 2024 Sep 11;86:103828
229. Skočir A, Jevšnik A, Plaskan L, Podbregar M. [Functional Magnetic Neuromuscular Stimulation vs. Routine Physiotherapy in the Critically Ill for Prevention of ICU Acquired Muscle Loss: A Randomised Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/39459511/) Medicina (Kaunas). 2024 Oct 21;60(10):1724
230. Kim M, Kim S, Ju Y, Ahn S, Lee SI. [Evaluating Muscle Mass Changes in Critically Ill Patients: Rehabilitation Outcomes Measured by Ultrasound and Bioelectrical Impedance.](https://pubmed.ncbi.nlm.nih.gov/39517341/) Healthcare (Basel). 2024 Oct 25;12(21):2128
231. Küçük AO, Hatınoğlu N, Apaydin U, Altunalan T, Küçük MP. [The association of early passive mobilization with intracranial pressure in the adult intensive care unit: A prospective, cohort study.](https://pubmed.ncbi.nlm.nih.gov/39449552/) Nurs Crit Care. 2024 Oct 25
232. Ünver S, Yildirim M, Akbal S, Sever S. [Challenges experienced by cardiac intensive care nurses during first out-of-bed patient mobilization after open-heart surgery: A descriptive phenomenological qualitative study.](https://pubmed.ncbi.nlm.nih.gov/38318643/) J Adv Nurs. 2024 Nov;80(11):4616-4628
233. Wang X, Lv Y, Zhang C, Mi J, Zhao Q. [Status quo and influencing factors of multiprofessional and multidisciplinary teamwork for early mobilization in mechanically ventilated patients in ICUs: A multi-centre survey study.](https://pubmed.ncbi.nlm.nih.gov/38622988/) J Adv Nurs. 2024 Nov;80(11):4550-4559

## Reviews

1. Leijten FS, Harinck-de Weerd JE, Poortvliet DC, de Weerd AW. [The role of polyneuropathy in motor convalescence after prolonged mechanical ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/7563512) JAMA. 1995 Oct 18;274(15):1221-5
2. Stiller K. [Physiotherapy in intensive care: towards an evidence-based practice.](http://www.ncbi.nlm.nih.gov/pubmed/11115476) Chest. 2000 Dec;118(6):1801-13.
3. Maramattom BV, Wijdicks EF[. Acute neuromuscular weakness in the intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/16932235) Crit Care Med. 2006 Nov;34(11):2835-41
4. Stiller K. [Safety issues that should be considered when mobilizing critically ill patients.](http://www.ncbi.nlm.nih.gov/pubmed/17307115) Crit Care Clin. 2007 Jan;23(1):35-53.
5. Hough CL, Needham DM. [The role of future longitudinal studies in ICU survivors: understanding determinants and pathophysiology of weakness and neuromuscular dysfunction.](http://www.ncbi.nlm.nih.gov/pubmed/17762224) Curr Opin Crit Care. 2007 Oct;13(5):489-96
6. Choi J, Tasota FJ, Hoffman LA: [Mobility interventions to improve outcomes in patients undergoing prolonged mechanical ventilation: a review of the literature](http://www.ncbi.nlm.nih.gov/pubmed/18647758). Biol Res Nurs. 2008 10(1):21-33. Review. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2724770/?tool=pubmed)
7. Needham DM.: [Mobilizing patients in the intensive care unit: improving neuromuscular weakness and physical function](http://www.ncbi.nlm.nih.gov/pubmed/18840842). JAMA. 2008 Oct 8;300(14):1685-90
8. Kress JP: [Clinical trials of early mobilization of critically ill patients](http://www.ncbi.nlm.nih.gov/pubmed/20046133). Crit Care Med 2009; 37[Suppl.]:S442–S447
9. Chambers M, Moylan JS, Reid MB: [Physical inactivity and muscle weakness in the critically ill](http://www.ncbi.nlm.nih.gov/pubmed/20046119). Crit Care Med 2009 Vol. 37, No. 10 (Suppl.): S337-S346
10. Brower RG: [Consequences of bed rest](http://www.ncbi.nlm.nih.gov/pubmed/20046130). Crit Care Med 2009 Vol. 37, No. 10 (Suppl.): 422-428
11. Korupolu R, Gifford JM, Needham, DM. Early Mobilization of Critically Ill Patients: Reducing Neuromuscular Complications After Intensive Care. Contemporary Critical Care 2009, Vol 6 No 9: 1-10
12. Kho ME, Korupolu R, Needham DM. [Early mobilization of critically ill patients: feasebility and benefits](http://icu-management.org/sites/all/files/pdflibrary/ICU_V9_I4_web.pdf). ICU Mangemant 4 09/10: 31-33
13. Gosselink R, Clerckx B, Robbeets C, Vanhullebusch T, Vanpee G, J. Segers. [Physiotherapy in the Intensive Care Unit](http://www.nvic.nl/download.php?id=696). Neth J Crit Care 2011; 15(2):66-75
14. Lacomis D. [Neuromuscular disorders in critically ill patients: review and update.](http://www.ncbi.nlm.nih.gov/pubmed/22361518) J Clin Neuromuscul Dis. 2011 Jun;12(4):197-218
15. Adler J, Malone D. [Early Mobilization in the Intensive Care Unit: A Systematic Review](http://www.cpptjournal.org/pdfs/members/fulltext/2012/march/Early_Mobilization.pdf). Cardiopulmonary Physical Therapy Journal 2012, 23 (1): 5-13.
16. Berney S, Haines K, Denehy L. [Physiotherapy in Critical Care in Australia](http://www.cpptjournal.org/pdfs/members/fulltext/2012/march/Physiotherapy_Critical.pdf). Cardiopulmonary Physical Therapy Journal 2012, 23 (1): 19-25.
17. Connolly B, Denehy L, Brett S, Elliott D, Hart N. [Exercise rehabilitation following hospital discharge in survivors of critical illness: an integrative review.](http://www.ncbi.nlm.nih.gov/pubmed/22713336) Crit Care. 2012 Jun 20;16(3):226.
18. Elliott D, Denehy L, Berney S, Alison JA. [Assessing physical function and activity for survivors of a critical illness: a review of instruments.](http://www.ncbi.nlm.nih.gov/pubmed/21723143) Aust Crit Care. 2011 Aug;24(3):155-66
19. Li Z, Peng X, Zhu B, Zhang Y, Xi X. [Active Mobilization for Mechanically Ventilated Patients: A Systematic Review](http://www.archives-pmr.org/article/S0003-9993%2812%2901081-7/abstract). Archives of physical medicine and rehabilitation. in press
20. Kayambu G, Boots R, Paratz J. [Physical Therapy for the Critically Ill in the ICU: A Systematic Review and Meta-Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/23528802) Crit Care Med. 2013 Mar 29.
21. Batt J, dos Santos CC, Cameron JI, Herridge MS. [Intensive care unit-acquired weakness: clinical phenotypes and molecular mechanisms.](http://www.ncbi.nlm.nih.gov/pubmed/23204256) Am J Respir Crit Care Med. 2013 Feb 1;187(3):238-46
22. Stiller K. [Physiotherapy in Intensive Care. An Updated Systematic Review.](http://www.ncbi.nlm.nih.gov/pubmed/23722822) Chest. 2013 May 30. doi: 10.1378/chest.12-2930.
23. Engels PT, Beckett AN, Rubenfeld GD, Kreder H, Finkelstein JA, da Costa L, Papia G, Rizoli SB, Tien HC. [Physical Rehabilitation of the Critically Ill Trauma Patient in the ICU](http://www.ncbi.nlm.nih.gov/pubmed/23774338). Crit Care Med. 2013 Jul;41(7):1790-1801.
24. Weaver SJ, Lubomksi LH, Wilson RF, Pfoh ER, Martinez KA, Dy SM. [Promoting a culture of safety as a patient safety strategy: a systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/23460092) Ann Intern Med. 2013 Mar 5;158(5 Pt 2):369-74
25. Stiller K. [Physiotherapy in intensive care: an updated systematic review](http://www.ncbi.nlm.nih.gov/pubmed/23722822). Chest. 2013 Sep;144(3):825-47.
26. Kayambu G, Boots R, Paratz J: [Physical Therapy for the Critically Ill in the ICU: A Systematic Review and Meta-Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/23528802) Crit Care Med 2013, 41: 1543-54
27. Calvo-Ayala E, Khan BA, Farber MO, Ely EW, Boustani MA. [Interventions to improve the physical function of ICU survivors: a systematic review](http://www.ncbi.nlm.nih.gov/pubmed/23949645). Chest. 2013 Nov 1;144(5):1469-80.
28. Mehlhorn J, Freytag A, Schmidt K, Brunkhorst FM, Graf J, Troitzsch U, Schlattmann P, Wensing M, Gensichen J. [Rehabilitation interventions for postintensive care syndrome: a systematic review](http://www.ncbi.nlm.nih.gov/pubmed/24413580). Crit Care Med. 2014 May;42(5):1263-71.
29. Hakkennes S, Lindner C, Reid J. [Implementing an inpatient rehabilitation Saturday service is associated with improved patient outcomes and facilitates patient flow across the health care continuum](http://www.ncbi.nlm.nih.gov/pubmed/25052101). Disabil Rehabil. 2014 Jul 23:1-7.
30. Harkin A. [Muscling in on depression.](http://www.nejm.org/doi/pdf/10.1056/NEJMcibr1411568) N Engl J Med. 2014 Dec 11;371(24):2333-4.
31. Connolly B, MacBean V, Crowley C, Lunt A, Moxham J, Rafferty GF, Hart N. [Ultrasound for the Assessment of Peripheral Skeletal Muscle Architecture in Critical Illness: A Systematic Review.](http://www.ncbi.nlm.nih.gov/pubmed/25559437) Crit Care Med. 2014 Dec 31.
32. Verceles AC, Hager ER. [Use of Accelerometry to Monitor Physical Activity in Critically Ill Subjects: A Systematic Review.](http://www.ncbi.nlm.nih.gov/pubmed/25852167) Respir Care. 2015 Apr 7. pii: respcare.03677
33. Cameron S, Ball I, Cepinskas G, Choong K, Doherty TJ, Ellis CG, Martin CM, Mele TS, Sharpe M, Shoemaker JK, Fraser DD. [Early mobilization in the critical care unit: A review of adult and pediatric literature.](http://www.ncbi.nlm.nih.gov/pubmed/25987293) J Crit Care. 2015 Aug;30(4):664-672.
34. Connolly B, Salisbury L, O'Neill B, Geneen L, Douiri A, Grocott MP, Hart N, Walsh TS, Blackwood B; ERACIP Group. [Exercise rehabilitation following intensive care unit discharge for recovery from critical illness.](http://www.ncbi.nlm.nih.gov/pubmed/26098746) Cochrane Database Syst Rev. 2015 Jun 22;6:CD008632.
35. Blackwood B, Marshall J, Rose L. [Progress on core outcome sets for critical care research.](http://www.ncbi.nlm.nih.gov/pubmed/26263299) Curr Opin Crit Care. 2015 Aug 8.
36. Walsh CJ, Batt J, Herridge MS, Dos Santos CC. [Muscle wasting and early mobilization in acute respiratory distress syndrome.](http://www.ncbi.nlm.nih.gov/pubmed/25453427) Clin Chest Med. 2014 Dec;35(4):811-26.
37. Sosnowski K, Lin F, Mitchell ML, White H. [Early rehabilitation in the intensive care unit: An integrative literature review.](http://www.ncbi.nlm.nih.gov/pubmed/26142542) Aust Crit Care. 2015 Jul 1
38. Puthucheary ZA, Denehy L. [Exercise Interventions in Critical Illness Survivors: Understanding Inclusion and Stratification Criteria.](http://www.ncbi.nlm.nih.gov/pubmed/26075426) Am J Respir Crit Care Med. 2015 Jun 15;191(12):1464-7.
39. Liu Z, Tao X, Chen Y, Fan Z, Li Y. [Bed rest versus early ambulation with standard anticoagulation in the management of deep vein thrombosis: a meta-analysis.](http://www.ncbi.nlm.nih.gov/pubmed/25860350) PLoS One. 2015 Apr 10;10(4):e0121388.
40. Nyberg A, Saey D, Maltais F. [Why and How Limb Muscle Mass and Function Should Be Measured in Patients with Chronic Obstructive Pulmonary Disease.](http://www.ncbi.nlm.nih.gov/pubmed/26208090) Ann Am Thorac Soc. 2015 Sep;12(9):1269-77.
41. Jones CA, Roop SC, Pohar SL, Albrecht L, Scott SD. [Translating knowledge in rehabilitation: systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/24903114) Phys Ther. 2015 Apr;95(4):663-77.
42. Castro-Avila AC, Serón P, Fan E, Gaete M, Mickan S. [Effect of Early Rehabilitation during Intensive Care Unit Stay on Functional Status: Systematic Review and Meta-Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/26132803) PLoS One. 2015 Jul 1;10(7):e0130722.
43. Prince D Hsieh J. Early Rehabilitation in the Intensive Care Unit. [Current Physical Medicine and Rehabilitation Reports](http://link.springer.com/journal/40141). September 2015, Volume 3,[Issue 3,](http://link.springer.com/journal/40141/3/3/page/1) pp 214-221
44. Laurent H, Aubreton S, Richard R, Gorce Y, Caron E, Vallat A, Davin AM, Constantin JM, Coudeyre E. [Systematic review of early exercise in intensive care: a qualitative approach.](http://www.ncbi.nlm.nih.gov/pubmed/26655865) Anaesth Crit Care Pain Med. 2015 Dec 4.
45. Govindan S, Iwashyna TJ, Odden A, Flanders SA, Chopra V. [Mobilization in severe sepsis: an integrative review.](http://www.ncbi.nlm.nih.gov/pubmed/25393649) J Hosp Med. 2015 Jan;10(1):54-9
46. Dubb R, Nydahl P, Hermes C, Schwabbauer N, Toonstra A, Parker AM, Kaltwasser A, Needham DM. [Barriers and Strategies for Early Mobilization of Patients in Intensive Care Units.](http://www.ncbi.nlm.nih.gov/pubmed/26829589) Ann Am Thorac Soc. 2016 Feb 1
47. Warnock L, Gates A. [Chest physiotherapy compared to no chest physiotherapy for cystic fibrosis.](http://www.ncbi.nlm.nih.gov/pubmed/26688006) Cochrane Database Syst Rev. 2015 Dec 21;12:CD001401.
48. Castro-Avila AC, Serón P, Fan E, Gaete M, Mickan S. [Effect of Early Rehabilitation during Intensive Care Unit Stay on Functional Status: Systematic Review and Meta-Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/26132803) PLoS One. 2015 Jul 1;10(7):e0130722.
49. Yamato TP, Maher CG, Saragiotto BT, Hoffmann TC, Moseley AM. [How completely are physiotherapy interventions described in reports of randomised trials?](http://www.ncbi.nlm.nih.gov/pubmed/27033780) Physiotherapy. 2016 Mar 12.
50. Hashem MD, Nelliot A, Needham DM. [Early Mobilization and Rehabilitation in the ICU: Moving Back to the Future.](http://www.ncbi.nlm.nih.gov/pubmed/27094396) Respir Care. 2016 Apr 19. pii: respcare.04741.
51. Essery R, Geraghty AW, Kirby S, Yardley L. [Predictors of adherence to home-based physical therapies: a systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/27097761) Disabil Rehabil. 2016 Apr 21:1-16.
52. Green et al. [Mobilization of intensive care patients: a multidisciplinary practical guide for clinicians](https://www.dovepress.com/mobilization-of-intensive-care-patients-a-multidisciplinary-practical--peer-reviewed-article-JMDH). Dovo press
53. Callahan LA, Supinski GS. [Early Mobilization in the ICU: Help or Hype?](http://www.ncbi.nlm.nih.gov/pubmed/27182858) Crit Care Med. 2016 Jun;44(6):1239-40.
54. Hodgson CL, Iwashyna TJ, Schweickert WD. [All That Work and No Gain: What Should We Do to Restore Physical Function in Our Survivors?](http://www.ncbi.nlm.nih.gov/pubmed/27174472) Am J Respir Crit Care Med. 2016 May 15;193(10):1071-2.
55. Greysen SR. [Activating Hospitalized Older Patients to Confront the Epidemic of Low Mobility.](http://www.ncbi.nlm.nih.gov/pubmed/27243416) JAMA Intern Med. 2016 May 31
56. Hodgson CL, Fan E. [Better Measures, Better Trials, Better Outcomes in Survivors of Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/27182866) Crit Care Med. 2016 Jun;44(6):1254-5.
57. Brian M. Wong and Gail M. Sullivan (2016) [How to Write Up Your Quality Improvement Initiatives for Publication](http://www.jgme.org/doi/full/10.4300/JGME-D-16-00086.1). Journal of Graduate Medical Education: May 2016, Vol. 8, No. 2, pp. 128-133.
58. Armijo-Olivo S, Fuentes J, da Costa BR, Saltaji H, Ha C, Cummings GG. [Blinding in Physical Therapy Trials and Its Association with Treatment Effects: A Meta-epidemiological Study.](http://www.ncbi.nlm.nih.gov/pubmed/27149591) Am J Phys Med Rehabil. 2016 May 4.
59. Skinner EJ: [A randomised trial of an intensive physiotherapy program for patients in intensive care](http://www.journalofphysiotherapy.com/article/S1836-9553(16)00013-8/pdf). Journal of Physiotherapy, 2016
60. Connolly B, O'Neill B, Salisbury L, McDowell K, Blackwood B; Enhanced Recovery After Critical Illness Programme Group. [Physical rehabilitation interventions for adult patients with critical illness across the continuum of recovery: an overview of systematic reviews protocol.](http://www.ncbi.nlm.nih.gov/pubmed/26419458) Syst Rev. 2015 Sep 29;4:130
61. Portela MC, Pronovost PJ, Woodcock T, Carter P, Dixon-Woods M. [How to study improvement interventions: a brief overview of possible study types.](http://www.ncbi.nlm.nih.gov/pubmed/26045562) Postgrad Med J. 2015 Jun;91(1076):343-54.
62. Lee H, Ko YJ, Jung J, Choi AJ, Suh GY, Chung CR. [Monitoring of Potential Safety Events and Vital Signs during Active Mobilization of Patients Undergoing Continuous Renal Replacement Therapy in a Medical Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/27189339) Blood Purif. 2016;42(1):83-90.
63. Hashem MD, Nelliot A, Needham DM. [Early Mobilization and Rehabilitation in the ICU: Moving Back to the Future.](http://www.ncbi.nlm.nih.gov/pubmed/27094396) Respir Care. 2016 Jul;61(7):971-9
64. Hough CL. [The Science of Intensive Care Unit Mobility and Growing Reeds.](http://www.ncbi.nlm.nih.gov/pubmed/27295153) Ann Am Thorac Soc. 2016 Jun;13(6):775-6
65. Schmidt UH, Knecht L, MacIntyre NR. [Should Early Mobilization Be Routine in Mechanically Ventilated Patients?](http://www.ncbi.nlm.nih.gov/pubmed/27235319) Respir Care. 2016 Jun;61(6):867-75.
66. Dangayach NS, Smith M, Claassen J. [Electromyography and nerve conduction studies in critical care: step by step in the right direction.](http://www.ncbi.nlm.nih.gov/pubmed/26578173) Intensive Care Med. 2016 Jul;42(7):1168-71.
67. Jette AM. [Language Matters.](http://www.ncbi.nlm.nih.gov/pubmed/27251386) Phys Ther. 2016 Jun;96(6):754-5.
68. Taito S, Shime N, Ota K, Yasuda H. [Early mobilization of mechanically ventilated patients in the intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/27478617) J Intensive Care. 2016 Jul 29;4:50.
69. Happ MB. [The Power and Importance of Accommodation for Communication Impairment in the Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/27509150) Ann Am Thorac Soc. 2016 Aug;13(8):1215-6.
70. Denehy L, Lanphere J, Needham DM. [Ten reasons why ICU patients should be mobilized early.](http://www.ncbi.nlm.nih.gov/pubmed/27562244) Intensive Care Med. 2016 Aug 25
71. Daniel M, Puxty A, Miles B. [Making Quality Improvement Happen in the Real World: Building Capability and Improving Multiple Projects at the Same Time.](http://www.ncbi.nlm.nih.gov/pubmed/27158493) BMJ Qual Improv Rep. 2016 Apr 7;5(1).
72. Hashem MD, Parker AM, Needham DM. [Early Mobilization and Rehabilitation of Patients Who Are Critically Ill.](https://www.ncbi.nlm.nih.gov/pubmed/26997241) Chest. 2016 Sep;150(3):722-31
73. Tipping CJ, Harrold M, Holland A, Romero L, Nisbet T, Hodgson CL. [The effects of active mobilisation and rehabilitation in ICU on mortality and function: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/27864615) Intensive Care Med. 2016 Nov 18
74. Koopmans M, Vermei L, van Wieren A, Bruins N, de Jager CM, Christiaan Boerma E. [Improvement in functional abilities at ICU discharge is feasible without prolongation of the length of stay ICU.](https://www.ncbi.nlm.nih.gov/pubmed/27686351) Intensive Care Med. 2016 Sep 29.
75. Bonnechère B, Jansen B, Omelina L, Van Sint Jan S. [The use of commercial video games in rehabilitation: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/27508968) Int J Rehabil Res. 2016 Dec;39(4):277-290.
76. Quittan M. [Aspects of physical medicine and rehabilitation in the treatment of deconditioned patients in the acute care setting: the role of skeletal muscle.](https://www.ncbi.nlm.nih.gov/pubmed/26758982) Wien Med Wochenschr. 2016 Feb;166(1-2):28-38
77. Ramos Dos Santos PM, Aquaroni Ricci N, Aparecida Bordignon Suster É, de Moraes Paisani D, Dias Chiavegato L. [Effects of early mobilisation in patients after cardiac surgery: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/27931870) Physiotherapy. 2017 Mar;103(1):1-12.
78. Nydahl P, Sricharoenchai T, Chandra S, Kundt FS, Huang M, Fischill M, Needham DM. [Safety of Patient Mobilization and Rehabilitation in the ICU: Systematic Review with Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/28231030) Ann Am Thorac Soc. 2017 Feb 23. doi: 10.1513/AnnalsATS.201611-843SR.
79. Laurent H, Aubreton S, Richard R, Gorce Y, Caron E, Vallat A, Davin AM, Constantin JM, Coudeyre E. [Systematic review of early exercise in intensive care: A qualitative approach.](https://www.ncbi.nlm.nih.gov/pubmed/26655865) Anaesth Crit Care Pain Med. 2016 Apr;35(2):133-49
80. Parry SM, Knight LD, Connolly B, Baldwin C, Puthucheary Z, Morris P, Mortimore J, Hart N, Denehy L, Granger CL. [Factors influencing physical activity and rehabilitation in survivors of critical illness: a systematic review of quantitative and qualitative studies.](https://www.ncbi.nlm.nih.gov/pubmed/28210771) Intensive Care Med. 2017 Feb 16.
81. Nydahl P, Sricharoenchai T, Chandra S, Kundt FS, Huang M, Fischill M, Needham DM. [Safety of Patient Mobilization and Rehabilitation in the Intensive Care Unit. Systematic Review with Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/28231030) Ann Am Thorac Soc. 2017 May;14(5):766-777
82. Morris PE, Montgomery-Yates A. [Mastering the design for rehabilitation strategies in ICU survivors.](https://www.ncbi.nlm.nih.gov/pubmed/28381585) Thorax. 2017 Apr 5
83. Polastri M, Loforte A, Dell'Amore A, Nava S. [Physiotherapy for Patients on Awake Extracorporeal Membrane Oxygenation: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/26274362) Physiother Res Int. 2016 Dec;21(4):203-209.
84. Zink EK, Geocadin RG. [Progressive Mobility Program in a Neuro-ICU: What Makes It Different?](https://www.ncbi.nlm.nih.gov/pubmed/28509736) Crit Care Med. 2017 Jun;45(6):1101-1102.
85. Weijs PJM. [Protein nutrition and exercise survival kit for critically ill.](https://www.ncbi.nlm.nih.gov/pubmed/28548991) Curr Opin Crit Care. 2017 Aug;23(4):279-283
86. Krapfl LA, Langin J, Pike CA, Pezzella P. [Does Incremental Positioning (Weight Shifts) Reduce Pressure Injuries in Critical Care Patients?](https://www.ncbi.nlm.nih.gov/pubmed/28549053) J Wound Ostomy Continence Nurs. 2017 Jul/Aug;44(4):319-323
87. Dunn H, Quinn L, Corbridge SJ, Eldeirawi K, Kapella M, Collins EG. [Mobilization of prolonged mechanical ventilation patients: An integrative review.](https://www.ncbi.nlm.nih.gov/pubmed/28624337) Heart Lung. 2017 Jul - Aug;46(4):221-233.
88. Yoshimura Y, Wakabayashi H, Yamada M, Kim H, Harada A, Arai H. [Interventions for Treating Sarcopenia: A Systematic Review and Meta-Analysis of Randomized Controlled Studies.](https://www.ncbi.nlm.nih.gov/pubmed/28549707) J Am Med Dir Assoc. 2017 Jun 1;18(6):553.e1-553.e16.
89. Weinreich M, Herman J, Dickason S, Mayo H. [Occupational Therapy in the Intensive Care Unit: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/28692383) Occup Ther Health Care. 2017 Jul 10:1-9.
90. Muscedere J, Waters B, Varambally A, Bagshaw SM, Boyd JG, Maslove D, Sibley S, Rockwood K. [The impact of frailty on intensive care unit outcomes: a systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/28676896) Intensive Care Med. 2017 Aug;43(8):1105-1122.
91. Parry SM, Nydahl P, Needham DM. [Implementing early physical rehabilitation and mobilisation in the ICU: institutional, clinician, and patient considerations.](https://www.ncbi.nlm.nih.gov/pubmed/28842731) Intensive Care Med. 2017 Aug 25. doi: 10.1007/s00134-017-4908-8
92. Martínez-Velilla N, Cadore L, Casas-Herrero Á, Idoate-Saralegui F, Izquierdo M. [Physical Activity and Early Rehabilitation in Hospitalized Elderly Medical Patients: Systematic Review of Randomized Clinical Trials.](https://www.ncbi.nlm.nih.gov/pubmed/27499308) J Nutr Health Aging. 2016;20(7):738-51
93. Anderson JL, Green AJ, Yoward LS, Hall HK. [Validity and reliability of accelerometry in identification of lying, sitting, standing or purposeful activity in adult hospital inpatients recovering from acute or critical illness: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/28805075) Clin Rehabil. 2017 Aug 1:269215517724850.
94. Tsavourelou A, Stylianides N, Papadopoulos A, Dikaiakos MD, Nanas S, Kyprianoy T, Tokmakidis SP. [Telerehabilitation Solution Conceptual Paper for Community-Based Exercise Rehabilitation of Patients Discharged After Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/28775802) Int J Telerehabil. 2016 Dec 15;8(2):61-70.
95. Bear DE, Wandrag L, Merriweather JL, Connolly B, Hart N, Grocott MPW; Enhanced Recovery After Critical Illness Programme Group (ERACIP) investigators. [The role of nutritional support in the physical and functional recovery of critically ill patients: a narrative review.](https://www.ncbi.nlm.nih.gov/pubmed/28841893) Crit Care. 2017 Aug 26;21(1):226.
96. Frontera WR, Bean JF, Damiano D, Ehrlich-Jones L, Fried-Oken M, Jette A, Jung R, Lieber RL, Malec JF, Mueller MJ, Ottenbacher KJ, Tansey KE, Thompson A. [Rehabilitation Research at the National Institutes of Health: Moving the Field Forward (Executive Summary).](https://www.ncbi.nlm.nih.gov/pubmed/28301426) Am J Phys Med Rehabil. 2017 Apr;96(4):211-220
97. Hopkins RO, Suchyta MR, Kamdar BB, Darowski E, Jackson JC, Needham DM. [Instrumental Activities of Daily Living after Critical Illness: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/28463657) Ann Am Thorac Soc. 2017 Aug;14(8):1332-1343
98. Cuthbertson BH, Goddard S. [Benefits and harms of early rehabilitation.](https://www.ncbi.nlm.nih.gov/pubmed/28840265) Intensive Care Med. 2017 Aug 24. doi: 10.1007/s00134-017-4904-z.
99. McWilliams DJ. [Reading between the lines, the key to successfully implementing early rehabilitation in critical care.](https://www.ncbi.nlm.nih.gov/pubmed/29017705) Intensive Crit Care Nurs. 2017 Oct;42:5-7
100. Parry SM, Huang M, Needham DM. [Evaluating physical functioning in critical care: considerations for clinical practice and research.](https://www.ncbi.nlm.nih.gov/pubmed/28978333) Crit Care. 2017 Oct 4;21(1):249. doi: 10.1186/s13054-017-1827-6
101. Kondo Y, Fuke R, Hifumi T, Hatakeyama J, Takei T, Yamakawa K, Inoue S, Nishida O. [Early rehabilitation for the prevention of postintensive care syndrome in critically ill patients: a study protocol for a systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/28249850) BMJ Open. 2017 Mar 1;7(3):e013828. doi: 10.1136/bmjopen-2016-013828.
102. Roberson AR, Starkweather A, Grossman C, Acevedo E, Salyer J. [Influence of muscle strength on early mobility in critically ill adult patients: Systematic literature review.](https://www.ncbi.nlm.nih.gov/pubmed/29217105) Heart Lung. 2018 Jan - Feb;47(1):1-9.
103. Conceição TMAD, Gonzáles AI, Figueiredo FCXS, Vieira DSR, Bündchen DC. [Safety criteria to start early mobilization in intensive care units. Systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/29340541) Rev Bras Ter Intensiva. 2017 Oct-Dec;29(4):509-519
104. Fuest K, Schaller SJ. [Recent evidence on early mobilization in critical-Ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/29351145) Curr Opin Anaesthesiol. 2018 Jan 17
105. Pugh RJ, Ellison A, Pye K, Subbe CP, Thorpe CM, Lone NI, Clegg A. [Feasibility and reliability of frailty assessment in the critically ill: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/29478414) Crit Care. 2018 Feb 26;22(1):49
106. Feetham L. [The long road to recovery after the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/29508704) Lancet Respir Med. 2018 Mar;6(3):180-181.
107. Gittler M, Davis AM. [Guidelines for Adult Stroke Rehabilitation and Recovery.](https://www.ncbi.nlm.nih.gov/pubmed/29486016) JAMA. 2018 Feb 27;319(8):820-821
108. Doiron KA, Hoffmann TC, Beller EM. [Early intervention (mobilization or active exercise) for critically ill adults in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/29582429) Cochrane Database Syst Rev. 2018 Mar 27;3:CD010754.
109. Vorona S, Sabatini U, Al-Maqbali S, Bertoni M, Dres M, Bissett B, Van Haren F, Martin AD, Urrea C, Brace D, Parotto M, Herridge MS, Adhikari NK, Fan E, Melo LT, Reid WD, Brochard LJ, Ferguson ND, Goligher EC. [Inspiratory Muscle Rehabilitation in Critically Ill Adults: A Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29584447) Ann Am Thorac Soc. 2018 Mar 27
110. Hodgson CL, Capell E, Tipping CJ. [Early Mobilization of Patients in Intensive Care: Organization, Communication and Safety Factors that Influence Translation into Clinical Practice.](https://www.ncbi.nlm.nih.gov/pubmed/29558969) Crit Care. 2018 Mar 20;22(1):77.
111. Parry SM, Nydahl P, Needham DM. [Implementing early physical rehabilitation and mobilisation in the ICU: institutional, clinician, and patient considerations.](https://www.ncbi.nlm.nih.gov/pubmed/28842731) Intensive Care Med. 2018 Apr;44(4):470-473
112. Krupp A, Steege L, King B. [A systematic review evaluating the role of nurses and processes for delivering early mobility interventions in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/29681432) Intensive Crit Care Nurs. 2018 Apr 19.
113. Fuke R, Hifumi T, Kondo Y, Hatakeyama J, Takei T, Yamakawa K, Inoue S, Nishida O. [Early rehabilitation to prevent postintensive care syndrome in patients with critical illness: a systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29730622) BMJ Open. 2018 May 5;8(5):e019998
114. de Queiroz RS, Saquetto MB, Martinez BP, Andrade EA, da Silva PAMP, Gomes-Neto M. [Evaluation of the description of active mobilisation protocols for mechanically ventilated patients in the intensive care unit: A systematic review of randomized controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/29609834) Heart Lung. 2018 May - Jun;47(3):253-260
115. Koester K, Troeller H, Panter S, Winter E, Patel JJ. [Overview of Intensive Care Unit-Related Physical and Functional Impairments and Rehabilitation-Related Devices.](https://www.ncbi.nlm.nih.gov/pubmed/29658187) Nutr Clin Pract. 2018 Apr;33(2):177-184
116. Peterson M et al. Psychometric [Properties of Physical Function Measures Used in the Intensive Care Unit: A Systematic Review](https://journals.lww.com/jacpt/Abstract/2018/04000/Psychometric_Properties_of_Physical_Function.3.aspx) JACPT 2018.
117. Vorona S, Sabatini U, Al-Maqbali S, Bertoni M, Dres M, Bissett B, Van Haren F, Martin AD, Urrea C, Brace D, Parotto M, Herridge MS, Adhikari NKJ, Fan E, Melo LT, Reid WD, Brochard LJ, Ferguson ND, Goligher EC. [Inspiratory Muscle Rehabilitation in Critically Ill Adults. A Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29584447) Ann Am Thorac Soc. 2018 Jun;15(6):735-744
118. Rocha et al. [Early mobilization: Why, what for and how?](https://www.sciencedirect.com/science/article/pii/S2173572717301467) Medicina Intensiva Volume 41, Issue 7, October 2017, Pages 429-436
119. Sarkies MN, White J, Henderson K, Haas R, Bowles J; Evidence Translation in Allied Health (EviTAH) Group. [Additional weekend allied health services reduce length of stay in subacute rehabilitation wards but their effectiveness and cost-effectiveness are unclear in acute general medical and surgical hospital wards: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/29929739) J Physiother. 2018 Jul;64(3):142-158
120. Taito S, Taito M, Banno M, Tsujimoto H, Kataoka Y, Tsujimoto Y. [Rehabilitation for patients with sepsis: A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30048540) PLoS One. 2018 Jul 26;13(7):e0201292
121. Jesus TS, Papadimitriou C, Pinho CS, Hoenig H. [Key Characteristics of Rehabilitation Quality Improvement Publications: Scoping Review From 2010 to 2016.](https://www.ncbi.nlm.nih.gov/pubmed/28965737) Arch Phys Med Rehabil. 2018 Jun;99(6):1141-1148.e4
122. Bissett B, Leditschke IA, Green M, Marzano V, Collins S, Van Haren F. [Inspiratory muscle training for intensive care patients: A multidisciplinary practical guide for clinicians.](https://www.ncbi.nlm.nih.gov/pubmed/30007823) Aust Crit Care. 2018 Jul 11. pii: S1036-7314(17)30385-5
123. Cuello-Garcia CA, Mai SHC, Simpson R, Al-Harbi S, Choong K. [Early Mobilization in Critically Ill Children: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/30172429) J Pediatr. 2018 Aug 29.
124. Phelan S, Lin F, Mitchell M, Chaboyer W.[Implementing early mobilisation in the intensive care unit: An integrative review.](https://www.ncbi.nlm.nih.gov/pubmed/29073462) Int J Nurs Stud. 2018 Jan;77:91-105
125. Doiron KA, Hoffmann TC, Beller EM. [Early intervention (mobilization or active exercise) for critically ill adults in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/29582429) Cochrane Database Syst Rev. 2018 Mar 27;3:CD010754.
126. Dinglas VD, Faraone LN, Needham DM. [Understanding patient-important outcomes after critical illness: a synthesis of recent qualitative, empirical, and consensus-related studies.](https://www.ncbi.nlm.nih.gov/pubmed/30063492) Curr Opin Crit Care. 2018 Oct;24(5):401-409.
127. Iwashyna TJ, McPeake J. [Choosing outcomes for clinical trials: a pragmatic perspective.](https://www.ncbi.nlm.nih.gov/pubmed/30074502) Curr Opin Crit Care. 2018 Oct;24(5):428-433
128. Pozuelo-Carrascosa DP, Torres-Costoso A, Alvarez-Bueno C, Cavero-Redondo I, López Muñoz P, Martínez-Vizcaíno V. [Multimodality respiratory physiotherapy reduces mortality but may not prevent ventilator-associated pneumonia or reduce length of stay in the intensive care unit: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/30220625) J Physiother. 2018 Oct;64(4):222-228
129. Paton M, Lane R, Hodgson CL. [Early Mobilization in the Intensive Care Unit to Improve Long-Term Recovery.](https://www.ncbi.nlm.nih.gov/pubmed/30223994) Crit Care Clin. 2018 Oct;34(4):557-571
130. Arias-Fernández P, Romero-Martin M, Gómez-Salgado J, Fernández-García D. [Rehabilitation and early mobilization in the critical patient: systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/30214124) J Phys Ther Sci. 2018 Sep;30(9):1193-1201
131. Newman ANL, Gravesande J, Rotella S, Wu SS, Topp-Nguyen N, Kho ME, Harris JE, Fox-Robichaud A, Solomon P. [Physiotherapy in the neurotrauma intensive care unit: A scoping review.](https://www.ncbi.nlm.nih.gov/pubmed/30316038) J Crit Care. 2018 Dec;48:390-406.
132. Langhorne P, Collier JM, Bate PJ, Thuy MN, Bernhardt J. [Very early versus delayed mobilisation after stroke.](https://www.ncbi.nlm.nih.gov/pubmed/30321906) Cochrane Database Syst Rev. 2018 Oct 16;10:CD006187
133. Reid JC, Unger J, McCaskell D, Childerhose L, Zorko DJ, Kho ME.[Physical rehabilitation interventions in the intensive care unit: a scoping review of 117 studies.](https://www.ncbi.nlm.nih.gov/pubmed/30555705) J Intensive Care. 2018 Dec 7;6:80
134. Taylor A, Sarode V, Brewster DJ. [Functional assessment tools in the intensive care unit: are we comparing apples and oranges?](https://www.ncbi.nlm.nih.gov/pubmed/30447674) Anaesth Intensive Care. 2018 Nov;46(6):627-628
135. Walker TC, Kudchadkar SR. [Early mobilization in the pediatric intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/30460183) Transl Pediatr. 2018 Oct;7(4):308-313
136. González-Seguel F, Corner EJ, Merino-Osorio C. [International Classification of Functioning, Disability and Health Domains of 60 Physical Functioning Measurement Instruments Used During Adult Intensive Care Unit Stay: A Scoping Review.](https://www.ncbi.nlm.nih.gov/pubmed/30590839) Phys Ther. 2018 Dec 22
137. Clarissa C, Salisbury L, Rodgers S, Kean S. [Early mobilisation in mechanically ventilated patients: a systematic integrative review of definitions and activities.](https://www.ncbi.nlm.nih.gov/pubmed/30680218) J Intensive Care. 2019 Jan 17;7:3.
138. Trethewey SP, Brown N, Gao F, Turner AM. [Interventions for the management and prevention of sarcopenia in the critically ill: A systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/30673625) J Crit Care. 2019 Apr;50:287-295
139. Laterre PF, Hickmann C, Castanares-Zapatero D. [Passive leg cycling and electrical stimulation cannot preserve strength in sepsis.](https://www.ncbi.nlm.nih.gov/pubmed/30736839) Crit Care. 2019 Feb 8;23(1):37
140. Ding N, Yao L, Zhang Z, Yang L, Jiang L, Jiang B, Wu Y, Zhang C, Tian J.
141. Zhonghua Wei Zhong Bing Ji Jiu Yi Xue [[Safety criteria for early goal-oriented rehabilition exercise in patients undergoing mechanical ventilation in intensive care unit: a systematic review].](https://www.ncbi.nlm.nih.gov/pubmed/30707876). 2019 Jan;31(1):91-97
142. Schujmann DS, Lunardi AC, Fu C. [Progressive mobility program and technology to increase the level of physical activity and its benefits in respiratory, muscular system, and functionality of ICU patients: study protocol for a randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/29747662) Trials. 2018 May 10;19(1):274
143. Connolly B, Denehy L, Hart N, Pattison N, Williamson P, Blackwood B. [Physical Rehabilitation Core Outcomes In Critical illness (PRACTICE): protocol for development of a core outcome set.](https://www.ncbi.nlm.nih.gov/pubmed/29801508) Trials. 2018 May 25;19(1):294
144. Abrams D, Garan AR, Brodie D.[Awake and fully mobile patients on cardiac extracorporeal life support.](https://www.ncbi.nlm.nih.gov/pubmed/30854311) Ann Cardiothorac Surg. 2019 Jan;8(1):44-53
145. Ley L, Khaw D, Duke M, Botti M.[The dose of physical activity to minimise functional decline in older general medicine patients receiving 24-hour acute care: a systematic scoping review.](https://www.ncbi.nlm.nih.gov/pubmed/30938868) J Clin Nurs. 2019 Apr 2.
146. Gordon S, Grimmer KA, Barras S. [Assessment for incipient hospital-acquired deconditioning in acute hospital settings: A systematic literature review.](https://www.ncbi.nlm.nih.gov/pubmed/30873564) J Rehabil Med. 2019 Mar 15
147. Hu Y, Hu X, Xiao J, Li D. [[Effect of early mobilization on the physical function of patients in intensive care unit: a Meta-analysis].](https://www.ncbi.nlm.nih.gov/pubmed/31109421) Chinese. Zhonghua Wei Zhong Bing Ji Jiu Yi Xue. 2019 Apr;31(4):458-463
148. Zayed Y, Kheiri B, Barbarawi M, Chahine A, Rashdan L, Chintalapati S, Bachuwa G, Al-Sanouri I. [Effects of neuromuscular electrical stimulation in critically ill patients: A systematic review and meta-analysis of randomised controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/31160215) Aust Crit Care. 2019 May 31
149. Ferreira DDC, Marcolino MAZ, Macagnan FE, Plentz RDM, Kessler A. [Safety and potential benefits of physical therapy in adult patients on extracorporeal membrane oxygenation support: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/31090853) Rev Bras Ter Intensiva. 2019 May 13
150. Dirkes SM, Kozlowski C. [Early Mobility in the Intensive Care Unit: Evidence, Barriers, and Future Directions.](https://www.ncbi.nlm.nih.gov/pubmed/31154329) Crit Care Nurse. 2019 Jun;39(3):33-42
151. Smart DA, Dermody G, Coronado ME, Wilson M.[Mobility Programs for the Hospitalized Older Adult: A Scoping Review.](https://www.ncbi.nlm.nih.gov/pubmed/30450367) Gerontol Geriatr Med. 2018 Nov 1;4:2333721418808146.
152. Zang K, Chen B, Wang M, Chen D, Hui L, Guo S, Ji T, Shang F. [The effect of early mobilization in critically ill patients: A meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31219229) Nurs Crit Care. 2019 Jun 20
153. Taito S, Yamauchi K, Tsujimoto Y, Banno M, Tsujimoto H, Kataoka Y. [Does enhanced physical rehabilitation following intensive care unit discharge improve outcomes in patients who received mechanical ventilation? A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31182443) BMJ Open. 2019 Jun 9;9(6):e026075
154. Piva TC, Ferrari RS, Schaan CW.[Early mobilization protocols for critically ill pediatric patients: systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/31215603) Rev Bras Ter Intensiva. 2019 Jun 10;31(2):248-257
155. Schwab KE, To AQ, Chang J, Ronish B, Needham DM, Martin JL, Kamdar BB. [Actigraphy to Measure Physical Activity in the Intensive Care Unit: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/31331220) J Intensive Care Med. 2019 Jul 22
156. Herold F, Törpel A, Schega L, Müller NG. [Functional and/or structural brain changes in response to resistance exercises and resistance training lead to cognitive improvements - a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/31333805) Eur Rev Aging Phys Act. 2019 Jul 10;16:10
157. Connolly B. [Could "Big Brother" Be Joining the Early Mobilization Team?](https://www.ncbi.nlm.nih.gov/pubmed/31415314) Crit Care Med. 2019 Sep;47(9):1274-1276
158. Ding N, Zhang Z, Zhang C, Yao L, Yang L, Jiang B, Wu Y, Jiang L, Tian J. [What is the optimum time for initiation of early mobilization in mechanically ventilated patients? A network meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31589642) PLoS One. 2019 Oct 7;14(10):e0223151
159. Zhang L, Hu W, Cai Z, Liu J, Wu J, Deng Y, Yu K, Chen X, Zhu L, Ma J, Qin Y. [Early mobilization of critically ill patients in the intensive care unit: A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31581205) PLoS One. 2019 Oct 3;14(10):e0223185
160. Higgins SD, Erdogan M, Coles SJ, Green RS. [Early mobilization of trauma patients admitted to intensive care units: A systematic review and meta-analyses.](https://www.ncbi.nlm.nih.gov/pubmed/31526602) Injury. 2019 Sep 9.
161. Rice H, Harrold M, Fowler R, Watson C, Waterer G, Hill K. [Exercise training for adults hospitalized with an acute respiratory condition: a systematic scoping review.](https://www.ncbi.nlm.nih.gov/pubmed/31552759) Clin Rehabil. 2019 Sep 25:269215519877930
162. Zhang J, Zhao X, Wang A. [Early rehabilitation to prevent post-intensive care syndrome in critical illness patients: a Meta-analysis].](https://www.ncbi.nlm.nih.gov/pubmed/31537229) Zhonghua Wei Zhong Bing Ji Jiu Yi Xue. 2019 Aug;31(8):1008-1012
163. Veldema J, Jansen P. [Ergometer training in stroke rehabilitation: systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31689416) Arch Phys Med Rehabil. 2019 Nov 2
164. Weinel LM, Summers MJ, Chapple LA. [Ultrasonography to measure quadriceps muscle in critically ill patients: A literature review of reported methodologies.](https://www.ncbi.nlm.nih.gov/pubmed/31640395) Anaesth Intensive Care. 2019 Sep;47(5):423-434
165. Okada, Y., Unoki, T., Matsuishi, Y. *et al.* Early versus delayed mobilization for in-hospital mortality and health-related quality of life among critically ill patients: a systematic review and meta-analysis. *j intensive care* **7,** 57 (2019) <https://doi.org/10.1186/s40560-019-0413-1>
166. Thrane SE, Hsieh K, Donahue P, Tan A, Exline MC, Balas MC. [Could complementary health approaches improve the symptom experience and outcomes of critically ill adults? A systematic review of randomized controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/31780011) Complement Ther Med. 2019 Dec;47:102166
167. Loyd C, Markland AD, Zhang Y, Fowler M, Harper S, Wright NC, Carter CS, Buford TW, Smith CH, Kennedy R, Brown CJ. [Prevalence of Hospital-Associated Disability in Older Adults: A Meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31734122) J Am Med Dir Assoc. 2019 Nov 13
168. Anekwe et al 2019: Early Rehabilitation Reduces the Likelihood of Developing Intensive Care Unit-Acquired Weakness: A Systematic Review and Meta-Analysis. Physiotherapy. <https://doi.org/10.1016/j.physio.2019.12.004>
169. Maheswaran et al. Early Mobilization Interventions in the Intensive Care Unit: Ongoing and Unpublished Randomized Trials. Critical Care Research and Practice, <https://doi.org/10.1155/2020/3281394>
170. Woodcock T, Adeleke Y, Goeschel C, Pronovost P, Dixon-Woods M. [A modified Delphi study to identify the features of high quality measurement plans for healthcare improvement projects.](https://www.ncbi.nlm.nih.gov/pubmed/31937262) BMC Med Res Methodol. 2020 Jan 14;20(1):8
171. Malec JF, Ketchum JM. [A Standard Method for Determining the Minimal Clinically Important Difference for Rehabilitation Measures.](https://www.ncbi.nlm.nih.gov/pubmed/31953077) Arch Phys Med Rehabil. 2020 Jan 15
172. Armijo-Olivo S, Dennett L, Arienti C, Dahchi M, Arokoski J, Heinemann A, Malmivaara A. [Blinding in Rehabilitation Research: Empirical evidence on the association between blinding and treatment effect estimates.](https://www.ncbi.nlm.nih.gov/pubmed/31913147) Am J Phys Med Rehabil. 2020 Jan 6
173. Huang SW, Lin LF, Chang KH, Escorpizo R, Liou TH. [Development of a comprehensive core set from the international classification of functioning, disability and health for return to work among patients with stroke through delphi-based consensus.](https://www.ncbi.nlm.nih.gov/pubmed/31976638) Eur J Phys Rehabil Med. 2020 Jan 23
174. Zorko DJ, Reid JC, Unger J, McCaskell D, Saddik M, Choong K, Kho ME. [Measurement and reporting of physical rehabilitation interventions in pediatric critical care: a scoping review.](https://pubmed.ncbi.nlm.nih.gov/32180464/?from_term=Zorko+DJ&from_cauthor_id=32180464&from_pos=1) Disabil Rehabil. 2020 Mar 17:1-8.
175. Bissett B, Gosselink R, van Haren FMP. [Respiratory Muscle Rehabilitation in Patients with Prolonged Mechanical Ventilation: A Targeted Approach.](https://pubmed.ncbi.nlm.nih.gov/32204719/?from_term=Bissett+B&from_cauthor_id=32204719&from_pos=2) Crit Care. 2020 Mar 24;24(1):103.
176. Waldauf P, Jiroutková K, Krajčová A, Puthucheary Z, Duška F. [Effects of Rehabilitation Interventions on Clinical Outcomes in Critically Ill Patients: Systematic Review and Meta-Analysis of Randomized Controlled Trials.](https://pubmed.ncbi.nlm.nih.gov/32345834/?from_term=Waldauf+P&from_cauthor_id=32345834&from_pos=1) Crit Care Med. 2020 Apr 28
177. Jones JRA, Berney S, Berry MJ, Files DC, Griffith DM, McDonald LA, Morris PE, Moss M, Nordon-Craft A, Walsh T, Gordon I, Karahalios A, Puthucheary Z, Denehy L; CRITICALConnect Study Investigators. [Response to physical rehabilitation and recovery trajectories following critical illness: individual participant data meta-analysis protocol.](https://pubmed.ncbi.nlm.nih.gov/32371516/?from_sort=date&from_term=Jones+JRA&from_cauthor_id=32371516&from_pos=1) BMJ Open. 2020 May 4;10(5):e035613.
178. Wang MY, Pan L, Hu XJ. [Chest physiotherapy for the prevention of ventilator-associated pneumonia: A meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/30642672/?from_sort=date&from_term=Wang+MY&from_cauthor_id=30642672&from_pos=1)  Am J Infect Control. 2019 Jul;47(7):755-760
179. Valenzuela PL, Morales JS, Castillo-García A, Mayordomo-Cava J, García-Hermoso A, Izquierdo M, Serra-Rexach JA, Lucia A. [Effects of exercise interventions on the functional status of acutely hospitalised older adults: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32330558/) Ageing Res Rev. 2020 Aug;61:101076.
180. Takaoka A, Utgikar R, Rochwerg B, Cook DJ, Kho ME. [The Efficacy and Safety of in-ICU Leg Cycle Ergometry in Critically Ill Adults: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/32628501/) Ann Am Thorac Soc. 2020 Jul 6
181. Rethnam V, Langhorne P, Churilov L, Hayward KS, Herisson F, Poletto SR, Tong Y, Bernhardt J. [Early mobilisation post-stroke: a systematic review and meta-analysis of individual participant data.](https://pubmed.ncbi.nlm.nih.gov/32673130/) Disabil Rehabil. 2020 Jul 16:1-8.
182. Worraphan S, Thammata A, Chittawatanarat K, Saokaew S, Kengkla K, Prasannarong M. [Effects of inspiratory muscle training and early mobilisation on weaning of mechanical ventilation: a systematic review and network meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32750371/) Arch Phys Med Rehabil. 2020 Aug 1:S0003-9993(20)30456-1
183. Ho LYW, Ng SSM. [Non-pharmacological interventions for fatigue in older adults: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32101281/) Age Ageing. 2020 Apr 27;49(3):341-351
184. Mayer et al Safety and Feasibility of Physical Rehabilitation and Active Mobilization in Patients Requiring Continuous Renal Replacement Therapy. Critical Care Medicine <https://journals.lww.com/ccmjournal/Abstract/9000/Safety_and_Feasibility_of_Physical_Rehabilitation.95569.aspx>
185. Dikkema Y, Nieuwenhuis MK, van der Schans CP, Mouton LJ. [Questionnaires to Assess Facilitators and Barriers of Early Mobilization in Critically Ill Patients; Which One to Choose? A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/32808531/) Clin Nurs Res. 2020 Aug 18:1054773820948268
186. Riberholt CG, Wagner V, Lindschou J, Gluud C, Mehlsen J, Møller K. [Early head-up mobilisation versus standard care for patients with severe acquired brain injury: A systematic review with meta-analysis and Trial Sequential Analysis.](https://pubmed.ncbi.nlm.nih.gov/32790771/) PLoS One. 2020 Aug 13;15(8):e0237136.
187. Salna M, Abrams D, Brodie D. [Physical rehabilitation in the awake patient receiving extracorporeal circulatory or gas exchange support.](https://pubmed.ncbi.nlm.nih.gov/32793679/) Ann Transl Med. 2020 Jul;8(13):834
188. Yang R, Zheng Q, Zuo D, Zhang C, Gan X. [Safety Assessment Criteria for Early Active Mobilization in Mechanically Ventilated ICU Subjects.](https://pubmed.ncbi.nlm.nih.gov/32900917/) Respir Care. 2020 Sep 8:respcare.07888
189. Wischmeyer PE, Suman OE, Kozar R, Wolf SE, Molinger J, Pastva AM. [Role of anabolic testosterone agents and structured exercise to promote recovery in ICU survivors.](https://pubmed.ncbi.nlm.nih.gov/32773614/) Curr Opin Crit Care. 2020 Oct;26(5):508-515.
190. Lang JK, Paykel MS, Haines KJ, Hodgson CL. [Clinical Practice Guidelines for Early Mobilization in the ICU: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/32947470/) Crit Care Med. 2020 Nov;48(11):e1121-e1128
191. Jones JRA, Puthucheary Z, McDonald LA, Denehy L, Berney S. [Searching for the Responder, Unpacking the Physical Rehabilitation Needs of Critically Ill Adults: A REVIEW.](https://pubmed.ncbi.nlm.nih.gov/32956134/) J Cardiopulm Rehabil Prev. 2020 Sep 15
192. Nieto-García L, Carpio-Pérez A, Moreiro-Barroso MT, Alonso-Sardón M. [Can an early mobilisation programme prevent hospital-acquired pressure injures in an intensive care unit?: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33236855/) Int Wound J. 2020 Nov 25.
193. van Delft LMM, Valkenet K, Slooter AJC, Veenhof C. [Family participation in physiotherapy-related tasks of critically ill patients: A mixed methods systematic review.](https://pubmed.ncbi.nlm.nih.gov/33260011/) J Crit Care. 2020 Nov 24;62:49-57.
194. Bissett B, Gosselink R, van Haren FMP. [Respiratory Muscle Rehabilitation in Patients with Prolonged Mechanical Ventilation: A Targeted Approach.](https://pubmed.ncbi.nlm.nih.gov/32204719/) Crit Care. 2020 Mar 24;24(1):103
195. Nieto-García L, Carpio-Pérez A, Moreiro-Barroso MT, Alonso-Sardón M. [Can an early mobilisation programme prevent hospital-acquired pressure injures in an intensive care unit?: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33236855/) Int Wound J. 2020 Nov 25. doi: 10.1111/iwj.13516
196. Kanejima Y, Shimogai T, Kitamura M, Ishihara K, Izawa KP. [Effect of Early Mobilization on Physical Function in Patients after Cardiac Surgery: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/32998202/) Int J Environ Res Public Health. 2020 Sep 28;17(19):7091
197. Anekwe DE, Biswas S, Bussières A, Spahija J. [Early rehabilitation reduces the likelihood of developing intensive care unit-acquired weakness: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32135387/) Physiotherapy. 2020 Jun;107:1-10
198. Menges D, Seiler B, Tomonaga Y, Schwenkglenks M, Puhan MA, Yebyo HG. [Systematic early versus late mobilization or standard early mobilization in mechanically ventilated adult ICU patients: systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33407707/) Crit Care. 2021 Jan 6;25(1):16.
199. Prasobh et al Early Mobilization of Patients Receiving Vasoactive Drugs in Critical Care Units: A Systematic Review (protocol). Journal of Acute Care Physical Therapy: [January 2021 - Volume 12 - Issue 1 - p 37-48](https://journals.lww.com/jacpt/pages/currenttoc.aspx)
200. Reynolds CD, Brazier KV, Burgess EAA, Golla JA, Le J, Parks BA, O'Hoski S, Beauchamp MK. [Effects of Unstructured Mobility Programs in Older Hospitalized General Medicine Patients: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/33434569/) J Am Med Dir Assoc. 2021 Jan 10:S1525-8610(20)31057-4
201. Bonnevie T, Smondack P, Elkins M, Gouel B, Medrinal C, Combret Y, Muir JF, Cuvelier A, Prieur G, Gravier FE. [Advanced telehealth technology improves home-based exercise therapy for people with stable chronic obstructive pulmonary disease: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/33358547/) J Physiother. 2021 Jan;67(1):27-40
202. Hernandez S, Kittelty K, Hodgson CL. [Rehabilitating the neurological patient in the ICU: what is important?](https://pubmed.ncbi.nlm.nih.gov/33395083/) Curr Opin Crit Care. 2020 Dec 30
203. Zimmerman JJ, Harmon LA, Smithburger PL, Chaykosky D, Heffner AC, Hravnak M, Kane JM, Kayser JB, Lane-Fall MB, Matos RI, Mauricio RV, Murphy DJ, Nurok M, Reddy AJ, Ringle E, Seferian EG, Smalls-Mantey NM, To KB, Kaplan LJ. [Choosing Wisely For Critical Care: The Next Five.](https://pubmed.ncbi.nlm.nih.gov/33555779/) Crit Care Med. 2021 Mar 1;49(3):472-481.
204. Parry SM, Nalamalapu SR, Nunna K, Rabiee A, Friedman LA, Colantuoni E, Needham DM, Dinglas VD. J [Six-Minute Walk Distance After Critical Illness: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/31690160/) Intensive Care Med. 2021 Mar;36(3):343-351
205. Gutiérrez-Arias RE, Zapata-Quiroz CC, Prenafeta-Pedemonte BO, Nasar-Lillo NA, Gallardo-Zamorano DI. [Effect of Neuromuscular Electrical Stimulation on the Duration of Mechanical Ventilation.](https://pubmed.ncbi.nlm.nih.gov/33402382/) Respir Care. 2021 Apr;66(4):679-685
206. Smith TO, Sreekanta A, Walkeden S, Penhale B, Hanson S. [Interventions for reducing hospital-associated deconditioning: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32652367/) Arch Gerontol Geriatr. 2020 Sep-Oct;90:104176
207. Margetis JL, Wilcox J, Thompson C, Mannion N. [Occupational Therapy: Essential to Critical Care Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/33657342/) Am J Occup Ther. 2021 Mar-Apr;75(2):7502170010p1-7502170010p5
208. González-Seguel F, Camus-Molina A, Jasmén A, Molina J, Pérez-Araos R, Graf [Respiratory Support Adjustments and Monitoring of Mechanically Ventilated Patients Performing Early Mobilization: A Scoping Review.](https://pubmed.ncbi.nlm.nih.gov/33912837/) J. Crit Care Explor. 2021 Apr 26;3(4):e0407.
209. Armijo-Olivo S, Patrini M, de Oliveira-Souza AIS, Dennett L, Arienti C, Dahchi M, Negrini S. [Tools to assess the Risk of bias and Reporting Quality of Randomized Controlled Trials in Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/33989599/) Arch Phys Med Rehabil. 2021 May 11:S0003-9993(21)00364-6
210. Chen B, Xie G, Lin Y, Chen L, Lin Z, You X, Xie X, Dong D, Zheng X, Li D, Lin W. [A systematic review and meta-analysis of the effects of early mobilization therapy in patients after cardiac surgery.](https://pubmed.ncbi.nlm.nih.gov/33847630/) Medicine (Baltimore). 2021 Apr 16;100(15):e25314.
211. Colantuoni E, Li X, Hashem MD, Girard TD, Scharfstein DO, Needham DM. [A structured methodology review showed analyses of functional outcomes are frequently limited to "survivors only" in trials enrolling patients at high risk of death.](https://pubmed.ncbi.nlm.nih.gov/33838275/) J Clin Epidemiol. 2021 Apr 7;137:126-132.
212. Rose L, Burry L, Blackwood B; Del-COrS team. [Core outcome sets in intensive care-what are they and why do we need them? An example for delirium.](https://pubmed.ncbi.nlm.nih.gov/34009746/) Nurs Crit Care. 2021 May;26(3):144-146.
213. Arienti C, Armijo-Olivo S, Minozzi S, Tjosvold L, Lazzarini SG, Patrini M, Negrini S. [A methodological issues in rehabilitation research: a scoping review.](https://pubmed.ncbi.nlm.nih.gov/33989598/) Arch Phys Med Rehabil. 2021 May 11:S0003-9993(21)00363-4
214. Klem HE, Tveiten TS, Beitland S, Malerød S, Kristoffersen DT, Dalsnes T, Nupen-Stieng MB, Larun L. [Early activity in mechanically ventilated patients - a meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34047169/) Tidsskr Nor Laegeforen. 2021 May 12;141(8)
215. Wang YT, Lang JK, Haines KJ, Skinner EH, Haines TP. [Physical Rehabilitation in the ICU: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/34406169/) Crit Care Med. 2021 Aug 18
216. Raurell-Torredà M, Regaira-Martínez E, Planas-Pascual B, Ferrer-Roca R, Martí JD, Blazquez-Martínez E, Ballesteros-Reviriego G, Vinuesa-Suárez I, Zariquiey-Esteva G. [Early mobilisation algorithm for the critical patient. Expert recommendations.](https://pubmed.ncbi.nlm.nih.gov/34366295/) Enferm Intensiva (Engl Ed). 2021 Jul-Sep;32(3):153-163.
217. Larsen T, Lee A, Brooks D, Michieli S, Robson M, Veens J, Vokes O, Lucy SD. [Effect of Early Mobility as a Physiotherapy Treatment for Pneumonia: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/30787503/) Physiother Can. 2019 Winter;71(1):82-89
218. Malaguti C, Dal Corso S, Janjua S, Holland AE. [Supervised maintenance programmes following pulmonary rehabilitation compared to usual care for chronic obstructive pulmonary disease.](https://pubmed.ncbi.nlm.nih.gov/34404111/) Cochrane Database Syst Rev. 2021 Aug 17;8(8):CD013569
219. Vaikuntharajan P, Tobis M, Richardson J. [Telephone-delivered physiotherapy interventions improve physical function for adults with a chronic condition: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34416249/) Arch Phys Med Rehabil. 2021 Aug 17:S0003-9993(21)01346-0
220. Tapper CX, Curseen K. [Rehabilitation Concerns in the Geriatric Critically Ill and Injured - Part 1.](https://pubmed.ncbi.nlm.nih.gov/33190765/) Crit Care Clin. 2021 Jan;37(1):117-134.
221. Nowak B, Berry C. [Rehabilitation Concerns in the Geriatric Critically Ill and Injured - Part 2.](https://pubmed.ncbi.nlm.nih.gov/33190772/) Crit Care Clin. 2021 Jan;37(1):221-231
222. Hodgson CL, Schaller SJ, Nydahl P, Timenetsky KT, Needham DM. [Ten strategies to optimize early mobilization and rehabilitation in intensive care.](https://pubmed.ncbi.nlm.nih.gov/34479621/) Crit Care. 2021 Sep 3;25(1):324.
223. Gustafson OD, Williams MA, McKechnie S, Dawes H, Rowland MJ. [Musculoskeletal complications following critical illness: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/34454181/) J Crit Care. 2021 Aug 25;66:60-66.
224. Nascimento TS, de Queiroz RS, Ramos ACC, Martinez BP, Da Silva E Silva CM, Gomes-Neto M. Ultrasound [Ultrasound Protocols to Assess Skeletal and Diaphragmatic Muscle in People Who Are Critically Ill: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/34417065/) Med Biol. 2021 Nov;47(11):3041-3067
225. Huang, D., Zhao, W., Chen, Y., Shen, B., Wang, Y., Guan, H., & Luo, W. (2021). Effect of mechanical ventilation and pulmonary rehabilitation in patients with ICU-acquired weakness: a systematic review and meta-analysis. *Annals of palliative medicine*, *10*(9), 9594–9606. <https://doi.org/10.21037/apm-21-1928>
226. Hayes K, Hodgson CL, Webb MJ, Romero L, Holland AE. [Rehabilitation of adult patients on extracorporeal membrane oxygenation: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/34711492/) Aust Crit Care. 2021 Oct 25:S1036-7314(21)00136-3
227. Popoola M, Dingle M, MacLaren J, Dyson J. [What are the barriers to nurses mobilising adult patients in intensive care units? An integrative review.](https://pubmed.ncbi.nlm.nih.gov/34756801/) Aust Crit Care. 2021 Oct 29:S1036-7314(21)00138-7
228. Kim S, Xu Y, Dore K, Gewurtz R, Larivière N, Letts L. [Fatigue self-management led by occupational therapists and/or physiotherapists for chronic conditions: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34515530/) Chronic Illn. 2021 Sep 13:17423953211039783
229. Alves IGN, da Silva E Silva CM, Martinez BP, de Queiroz RS, Gomes-Neto M. [Effects of neuromuscular electrical stimulation on exercise capacity, muscle strength and quality of life in COPD patients: A Systematic Review with Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/35014892/) Clin Rehabil. 2022 Jan 11:2692155211067983
230. Barman et al [Respiratory rehabilitation in patients recovering from severe acute respiratory syndrome: A systematic review and meta-analysis](https://www.sciencedirect.com/science/article/pii/S0147956322000061). Heart & Lung 53, May–June 2022, Pages 11-24
231. Mendes Xavier D, Lanza Galvão E, Aliane Fonseca A, de Souza GM, Pereira Lima V. [Effects of Home-Based Pulmonary Rehabilitation on Dyspnea, Exercise Capacity, Quality of Life and Impact of the Disease in COPD Patients: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/35000507/) COPD. 2022 Jan 9:1-29
232. Lall A, Behan D. [Mobilizing Ventilated Neurosurgery Patients: An Integrative Literature Review.](https://pubmed.ncbi.nlm.nih.gov/34864793/) J Neurosci Nurs. 2022 Feb 1;54(1):13-18
233. Hansford HJ, Wewege MA, Cashin AG, Hagstrom AD, Clifford BK, McAuley JH, Jones MD. [If exercise is medicine, why don't we know the dose? An overview of systematic reviews assessing reporting quality of exercise interventions in health and disease.](https://pubmed.ncbi.nlm.nih.gov/35168956/) Br J Sports Med. 2022 Feb 15:bjsports-2021-104977.
234. Laghi F, Shaikh H. [Physical Rehabilitation in the ICU: Is It Worth the Effort?](https://pubmed.ncbi.nlm.nih.gov/35191870/) Crit Care Med. 2022 Mar 1;50(3):504-507.
235. Mariana de Aquino Miranda J, Mendes Borges V, Bazan R, José Luvizutto G, Sabrysna Morais Shinosaki J. [Early mobilization in acute stroke phase: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/34927568/) Top Stroke Rehabil. 2021 Dec 20:1-12
236. Lau BD, Murphy P, Nastasi AJ, Seal S, Kraus PS, Hobson DB, Shaffer DL, Holzmueller CG, Aboagye JK, Streiff MB, Haut ER. [Effectiveness of ambulation to prevent venous thromboembolism in patients admitted to hospital: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/33293333/) CMAJ Open. 2020 Dec 8;8(4):E832-E843
237. Barman A, Sinha MK, Sahoo J, Jena D, Patel V. [Respiratory rehabilitation in patients recovering from severe acute respiratory syndrome: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/35108624/) Heart Lung. 2022 May-Jun;53:11-24
238. Souto-Miranda, S., Rodrigues, G., Spruit, M. A., & Marques, A. (2021). [Pulmonary rehabilitation outcomes in individuals with chronic obstructive pulmonary disease: A systematic review.](https://doi.org/10.1016/j.rehab.2021.101564) *Annals of physical and rehabilitation medicine*, *65*(3), 101564. Advance online publication.
239. Negm, A. M., Lee, J., Hamidian, R., Jones, C. A., & Khadaroo, R. G. (2022). [Management of Sarcopenia: A Network Meta-Analysis of Randomized Controlled Trials.](https://doi.org/10.1016/j.jamda.2022.01.057) *Journal of the American Medical Directors Association*, *23*(5), 707–714.
240. Borges MGB, Borges DL, Ribeiro MO, Lima LSS, Macedo KCM, Nina VJDS. [Early Mobilization Prescription in Patients Undergoing Cardiac Surgery: Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/35244377/) Braz J Cardiovasc Surg. 2022 May 2;37(2):227-238
241. Vollenweider R, Manettas AI, Häni N, de Bruin ED, Knols RH. [Passive motion of the lower extremities in sedated and ventilated patients in the ICU - a systematic review of early effects and replicability of Interventions.](https://pubmed.ncbi.nlm.nih.gov/35552550/) PLoS One. 2022 May 12;17(5):e0267255
242. Johanna Josepha Op't Hoog SA, Eskes AM, Johanna van Mersbergen-de Bruin MP, Pelgrim T, van der Hoeven H, Vermeulen H, Maria Vloet LC. [The effects of intensive care unit-initiated transitional care interventions on elements of post-intensive care syndrome: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34120805/) Aust Crit Care. 2022 May;35(3):309-320
243. Aranha VP, Chahal A, Bhardwaj AK. [Neonatal aquatic physiotherapy in neonatal intensive care units: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/34719445/) J Neonatal Perinatal Med. 2022;15(2):229-235
244. Lippi L, de Sire A, D'Abrosca F, Polla B, Marotta N, Castello LM, Ammendolia A, Molinari C, Invernizzi M. [Efficacy of Physiotherapy Interventions on Weaning in Mechanically Ventilated Critically Ill Patients: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/35615094/) Front Med (Lausanne). 2022 May 9;9:889218
245. Monsees J, Moore Z, Patton D, Watson C, Nugent L, Avsar P, O'Connor T. [A systematic review of the effect of early mobilization on length of stay for adults in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/35649531/) Nurs Crit Care. 2022 Jun 1
246. Jarmann A et al. [Investigating the impact of physical activity interventions on delirium outcomes in intensive care unit patients: A systematic review and meta-analysis](https://journals.sagepub.com/doi/10.1177/17511437221103689). May 2022Journal of the Intensive Care Society
247. Aranha VP, Chahal A, Bhardwaj AK. [Neonatal aquatic physiotherapy in neonatal intensive care units: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/34719445/) J Neonatal Perinatal Med. 2022;15(2):229-235
248. Gazzato A, Scquizzato T, Franco A, Zangrillo A, Scandroglio AM. [Walking on ECMO support: An analysis of videos shared on social media.](https://pubmed.ncbi.nlm.nih.gov/35595606/) Intensive Crit Care Nurs. 2022 Oct;72:103253
249. Nydahl P, Eggmann S. [Walking on ECMO - Don't try this at home.](https://pubmed.ncbi.nlm.nih.gov/35599075/) Intensive Crit Care Nurs. 2022 Oct;72:103260
250. Moraes FDS, Marengo LL, Silva MT, Bergamaschi CC, Lopes LC, Moura MDG, Fiol FSD, Barberato-Filho S. [ABCDE and ABCDEF care bundles: A systematic review protocol of the implementation process in intensive care units.](https://pubmed.ncbi.nlm.nih.gov/30882653/) Medicine (Baltimore). 2019 Mar;98(11):e14792
251. Mani H, Möri C, Mattmann M, Liechti F, Inauen J, Aujesky D, Donzé J, Aubert CE. [Barriers and facilitators to mobility of patients hospitalised on an acute medical ward: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/35796134/) Age Ageing. 2022 Jul 1;51(7):afac159.
252. Schweickert WD, Patel BK, Kress JP. [Timing of early mobilization to optimize outcomes in mechanically ventilated ICU patients.](https://pubmed.ncbi.nlm.nih.gov/35925320/) Intensive Care Med. 2022 Aug 4. doi: 10.1007/s00134-022-06819-6
253. Lovell T, Ranse K. [Animal-assisted activities in the intensive care unit: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/35940955/) Intensive Crit Care Nurs. 2022 Aug 5:103304
254. Desselle et al. [Safety and usability of proning pillows in intensive care: A scoping review.](https://www.australiancriticalcare.com/article/S1036-7314(22)00191-6/fulltext) Aust Crit Care, 2022
255. García-Pérez-de-Sevilla G, Sánchez-Pinto Pinto B. [Effectiveness of physical exercise and neuromuscular electrical stimulation interventions for preventing and treating intensive care unit-acquired weakness: A systematic review of randomized controlled trials.](https://pubmed.ncbi.nlm.nih.gov/36283894/) Intensive Crit Care Nurs. 2022 Oct 22:103333
256. Bach C, Hetland B. [A Step Forward for Intensive Care Unit Patients: Early Mobility Interventions and Associated Outcome Measures.](https://pubmed.ncbi.nlm.nih.gov/36453068/) Crit Care Nurse. 2022 Dec 1;42(6):13-24
257. Chen X, Jiang J, Wang R, Fu H, Lu J, Yang M. [Chest physiotherapy for pneumonia in adults.](https://pubmed.ncbi.nlm.nih.gov/36066373/) Cochrane Database Syst Rev. 2022 Sep 6;9(9):CD006338
258. Paton et al. [The Effect of Mobilization at 6 Months after Critical Illness — Meta-Analysis](https://evidence.nejm.org/doi/10.1056/EVIDoa2200234). NEJM Evid 2022; 2 (2)
259. Nydahl P, Eggmann S, Katsukawa H, Osterbrink J, Parry SM, Schaller SJ, Needham DM. [Infection control practices and device management when mobilizing critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/36519583/) Eur J Phys Rehabil Med. 2022 Dec 15
260. Ammous O, Feki W, Lotfi T, Khamis AM, Gosselink R, Rebai A, Kammoun S. [Inspiratory muscle training, with or without concomitant pulmonary rehabilitation, for chronic obstructive pulmonary disease (COPD).](https://pubmed.ncbi.nlm.nih.gov/36606682/) Cochrane Database Syst Rev. 2023 Jan 6;1(1):CD013778
261. Cavalheri V. [Critically appraised paper: In adults receiving intensive care, increased early active mobilisation did not improve clinical outcomes but increased adverse events.](https://pubmed.ncbi.nlm.nih.gov/36526565/) J Physiother. 2023 Jan;69(1):56
262. Nydahl P, Eggmann S, Katsukawa H, Osterbrink J, Parry SM, Schaller SJ, Needham DM. [Infection control practices and device management when mobilizing critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/36519583/) Eur J Phys Rehabil Med. 2023 Feb;59(1):122-124
263. Haines KJ, Emery KL, Berney SC. [Physical therapy and nutrition therapy: synergistic, antagonistic, or independent interventions?](https://pubmed.ncbi.nlm.nih.gov/36892964/) Curr Opin Clin Nutr Metab Care. 2023 Mar 1;26(2):179-185.
264. Thakur B, Ayers GD, Atem F, DeClerq J, Jain NB. [Statistical and methodological considerations for randomized-controlled trial design in physical medicine and rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/36882301/) Am J Phys Med Rehabil. 2023
265. Gutierrez-Arias R, Nydahl P, Pieper D, González-Seguel F, Jalil Y, Oliveros MJ, Torres-Castro R, Seron P. [Effectiveness of physical rehabilitation interventions in critically ill patients-A protocol for an overview of systematic reviews.](https://pubmed.ncbi.nlm.nih.gov/37053257/) PLoS One. 2023 Apr 13;18(4):e0284417
266. Yang X, Zhang T, Cao L, Ye L, Song W. [Early Mobilization for Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/37041029/) Respir Care. 2023 Apr 11:respcare.10481
267. Rosa D, Negro A, Marcomini I, Pendoni R, Albabesi B, Pennino G, Terzoni S, Destrebecq A, Villa G. [The Effects of Early Mobilization on Acquired Weakness in Intensive Care Units: A Literature Review.](https://pubmed.ncbi.nlm.nih.gov/36996359/) Dimens Crit Care Nurs. 2023 May-Jun 01;42(3):146-152
268. Wu RY, Yeh HJ, Chang KJ, Tsai MW. [Effects of different types and frequencies of early rehabilitation on ventilator weaning among patients in intensive care units: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/37093879/) PLoS One. 2023 Apr 24;18(4):e0284923
269. O'Grady HK, Reid JC, Farley C, Hanna QEB, Unger J, Zorko DJ, Bosch J, Turkstra LS, Kho ME. [Comparator Groups in ICU-Based Studies of Physical Rehabilitation: A Scoping Review of 125 Studies.](https://pubmed.ncbi.nlm.nih.gov/37181539/) Crit Care Explor. 2023 May 9;5(5):e0917
270. Collet MO, Laerkner E, Jensen J, Egerod I, Christensen J, Jørgensen NK, Kjaergaard RS, Olausson S, Wøien H, Lange T, Nielsen AH, Kjaer MN, Bruun CRL, Perner A. [Functional and cognitive rehabilitation interventions during intensive care admission: A protocol for a systematic integrative review.](https://pubmed.ncbi.nlm.nih.gov/36764675/) Acta Anaesthesiol Scand. 2023 May;67(5):670-674
271. Cancio JM, Dewey WS. [Critical Care Rehabilitation of the Burn Patient.](https://pubmed.ncbi.nlm.nih.gov/37149384/) Surg Clin North Am. 2023 Jun;103(3):483-494
272. Hodgson CL, Kho ME, da Silva VM. [To mobilise or not to mobilise: is that the right question?](https://pubmed.ncbi.nlm.nih.gov/37160829/) Intensive Care Med. 2023 May 9
273. Cuthbertson BH. [The Faltering Evidence Base for Early Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/37159943/) Am J Respir Crit Care Med. 2023 May 9
274. Kho ME, Berney S, Connolly B. [Physical rehabilitation in the intensive care unit: past, present, and future.](https://pubmed.ncbi.nlm.nih.gov/37209121/) Intensive Care Med. 2023 May 20
275. McWilliams D, Gustafson O, King E. [Rehabilitation in the intensive care unit: Where are we and what are we aiming for?](https://pubmed.ncbi.nlm.nih.gov/36746679/) Intensive Crit Care Nurs. 2023 Aug;77:103404.
276. Etienne H, Morris IS, Hermans G, Heunks L, Goligher EC, Jaber S, Morelot-Panzini C, Assouad J, Gonzalez-Bermejo J, Papazian L, Similowski T, Demoule A, Dres M. [Diaphragm Neurostimulation Assisted Ventilation in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/36917765/) Am J Respir Crit Care Med. 2023 May 15;207(10):1275-1282
277. Nakanishi N, Yoshihiro S, Kawamura Y, Aikawa G, Shida H, Shimizu M, Fujinami Y, Matsuoka A, Watanabe S, Taito S, Inoue S. [Effect of Neuromuscular Electrical Stimulation in Patients With Critical Illness: An Updated Systematic Review and Meta-Analysis of Randomized Controlled Trials.](https://pubmed.ncbi.nlm.nih.gov/37232695/) Crit Care Med. 2023 May 26.
278. Jones JRA, Karahalios A, Puthucheary ZA, Berry MJ, Files DC, Griffith DM, McDonald LA, Morris PE, Moss M, Nordon-Craft A, Walsh T, Berney S, Denehy L. [Responsiveness of Critically Ill Adults With Multimorbidity to Rehabilitation Interventions: A Patient-Level Meta-Analysis Using Individual Pooled Data From Four Randomized Trials.](https://pubmed.ncbi.nlm.nih.gov/37246922/) Crit Care Med. 2023 May 29
279. Barth I, Beumeler LFE, Nahar-van Venrooij L, van Dijk O, Buter H, Boerma EC. [The effect of protein provision and exercise therapy on patient-reported and clinical outcomes in intensive care unit survivors: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/37211649/) J Hum Nutr Diet. 2023 May 21
280. Fiore M, Cortegiani A, Friolo G, Frigieri Covani F, Cardia L, Ferraro F, Alampi D. [Risks and benefits of animal-assisted interventions for critically ill patients admitted to intensive care units.](https://pubmed.ncbi.nlm.nih.gov/37386679/) J Anesth Analg Crit Care. 2023 May 31;3(1):15
281. Wang L, Hua Y, Wang L, Zou X, Zhang Y, Ou X. [The effects of early mobilization in mechanically ventilated adult ICU patients: systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/37448799/) Front Med (Lausanne). 2023 Jun 28;10:1202754
282. King E, Nydahl P, Manning JC. [Rehabilitation across the life course and critical care pathway: Much more than learning to walk again.](https://pubmed.ncbi.nlm.nih.gov/37379003/) Nurs Crit Care. 2023 Jul;28(4):475-477
283. Gallardo-Gómez D, Del Pozo-Cruz J, Pedder H, Alfonso-Rosa RM, Álvarez-Barbosa F, Noetel M, Jasper U, Chastin S, Ramos-Munell J, Del Pozo Cruz B. [Optimal dose and type of physical activity to improve functional capacity and minimise adverse events in acutely hospitalised older adults: a systematic review with dose-response network meta-analysis of randomised controlled trials.](https://pubmed.ncbi.nlm.nih.gov/37536984/) Br J Sports Med. 2023 Aug 3:bjsports-2022-106409
284. Belletti A et al. Extracorporeal Membrane Oxygenation [Without Invasive Ventilation for Respiratory Failure in Adults: A Systematic Review](https://journals.lww.com/ccmjournal/abstract/9900/extracorporeal_membrane_oxygenation_without.197.aspx). Critical Care Medicine ():10.1097/CCM.0000000000006027, August 28, 2023
285. Matsuoka A, Yoshihiro S, Shida H, Aikawa G, Fujinami Y, Kawamura Y, Nakanishi N, Shimizu M, Watanabe S, Sugimoto K, Taito S, Inoue S. [Effects of Mobilization within 72 h of ICU Admission in Critically Ill Patients: An Updated Systematic Review and Meta-Analysis of Randomized Controlled Trials.](https://pubmed.ncbi.nlm.nih.gov/37762829/) J Clin Med. 2023 Sep 11;12(18):5888
286. Barth I, Beumeler LFE, Nahar-van Venrooij L, van Dijk O, Buter H, Boerma EC. [The effect of protein provision and exercise therapy on patient-reported and clinical outcomes in intensive care unit survivors: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/37211649/) J Hum Nutr Diet. 2023 Oct;36(5):1727-1740
287. Daum N, Drewniok N, Bald A, Ulm B, Buyukli A, Grunow JJ, Schaller SJ. [Early mobilisation within 72 hours after admission of critically ill patients in the intensive care unit: A systematic review with network meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/37948898/) Intensive Crit Care Nurs. 2024 Feb;80:103573
288. Máté S, Sinan-Fornusek C, Dhopte P, Singh MF, Hackett D, Fornusek C. [Effects of Functional Electrical Stimulation Cycling Combined With Arm Cranking Exercise on Cardiorespiratory Fitness in People With Central Nervous System Disorders: A Systematic Review and Meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/37098358/) Arch Phys Med Rehabil. 2023 Nov;104(11):1928-1940
289. Ruo Yu L, Jia Jia W, Meng Tian W, Tian Cha H, Ji Yong J. [Optimal timing for early mobilization initiatives in intensive care unit patients: A systematic review and network meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38158250/) Intensive Crit Care Nurs. 2023 Dec 28:103607.
290. Lee ZY, Dresen E, Lew CCH, Bels J, Hill A, Hasan MS, Ke L, van Zanten A, van de Poll MCG, Heyland DK, Stoppe C. [The effects of higher versus lower protein delivery in critically ill patients: an updated systematic review and meta-analysis of randomized controlled trials with trial sequential analysis.](https://pubmed.ncbi.nlm.nih.gov/38184658/) Crit Care. 2024 Jan 6;28(1):15
291. Farley C, Newman ANL, Hoogenes J, Brooks D, Duffett M, Kho ME. [Treatment Fidelity in 94 Randomized Controlled Trials of Physical Rehabilitation in the ICU: A Scoping Review.](https://pubmed.ncbi.nlm.nih.gov/38265271/) Crit Care Med. 2024 Jan 24
292. Eggmann S, Nydahl P, Gosselink R, Bissett B. [We need to talk about adverse events during physical rehabilitation in critical care trials.](https://pubmed.ncbi.nlm.nih.gov/38328754/) EClinicalMedicine. 2024 Feb 1;68:102439
293. Zhu D, Zhao Q, Guo S, Bai L, Yang S, Zhao Y, Xu Y, Zhou X. [Efficacy of preventive interventions against ventilator-associated pneumonia in critically ill patients: an umbrella review of meta-analyses.](https://pubmed.ncbi.nlm.nih.gov/38295905/) J Hosp Infect. 2024 Mar;145:174-186
294. Paton M, Chan S, Tipping CJ, Stratton A, Serpa Neto A, Lane R, Young PJ, Romero L, Broadley T, Hodgson CL. [The Effect of Mobilization at 6 Months after Critical Illness - Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/38320036/) NEJM Evid. 2023 Feb;2(2):EVIDoa2200234
295. Panelli A, Grunow JJ, VERFUß MA, Bartels HG, Brass Z, Schaller SJ. [Outcomes in critically ill patients after diaphragmatic stimulation on ventilator-induced diaphragmatic dysfunction: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/38214045/) Eur J Phys Rehabil Med. 2023 Dec;59(6):772-781
296. Nydahl P, Heras-La Calle G, McWilliams D. [Personalized rehabilitation: A step towards humanizing critical care.](https://pubmed.ncbi.nlm.nih.gov/38325227/) Intensive Crit Care Nurs. 2024 Jun;82:103634.
297. Yang Y, Zhang RJ, Yuan XN, Gu YQ, Li YN, Wu SP, Cheng YS. [Clinical effect of pulmonary rehabilitation in patients with mechanical ventilation: A meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38186004/) Int J Artif Organs. 2024 Feb;47(2):96-106
298. Jiroutková K, Duška F, Waldauf P. [Should New Data on Rehabilitation Interventions in Critically Ill Patients Change Clinical Practice? Updated Meta-Analysis of Randomized Controlled Trials.](https://pubmed.ncbi.nlm.nih.gov/38501932/) Crit Care Med. 2024 Mar 19.
299. Paton M, Chan S, Serpa Neto A, Tipping CJ, Stratton A, Lane R, Romero L, Broadley T, Hodgson CL. [Association of active mobilisation variables with adverse events and mortality in patients requiring mechanical ventilation in the intensive care unit: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38513675/) Lancet Respir Med. 2024 Mar 18:S2213-2600(24)00011-0
300. Liu K, Tronstad O, Flaws D, Churchill L, Jones AYM, Nakamura K, Fraser JF. [From bedside to recovery: exercise therapy for prevention of post-intensive care syndrome.](https://pubmed.ncbi.nlm.nih.gov/38424645/) J Intensive Care. 2024 Feb 29;12(1):11
301. Bennion et al. [The barriers to and facilitators of implementing early mobilisation for patients with delirium on intensive care units: A systematic review](https://journals.sagepub.com/doi/full/10.1177/17511437231216610). Journal of the Intensive Care Society 2024, 03.
302. **González-Seguel F**, Letelier-Bernal R. [Early Mobilization Dose Reporting in Randomized Clinical Trials with Patients Who Were Mechanically Ventilated: A Scoping Review.](https://pubmed.ncbi.nlm.nih.gov/38519113/) Phys Ther. 2024 Mar 22:pzae048
303. Cazeta BBR, de Queiroz RS, Nacimento TS, Ferreira BR, Saquetto MB, Martinez BP, Carvalho VO, Gomes-Neto M. [Effects of exercise interventions on functioning and health-related quality of life following hospital discharge for recovery from critical illness: A systematic review and meta-analysis of randomized trials.](https://pubmed.ncbi.nlm.nih.gov/38556253/) Clin Rehabil. 2024 Mar 31:2692155241241665
304. Vanderlelie L, Bosich S, O'Grady H, Azizi K, Lally J, Micks S, Sandhu S, Whyte B, Kho ME. [Arm cycle ergometry in critically ill patients: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/38580486/) Aust Crit Care. 2024 Apr 4:S1036-7314(24)00024-9
305. McClintock C, McAuley DF, McIlmurray L, Alnajada AAR, Connolly B, Blackwood B. [Communication in critical care tracheostomy patients dependent upon cuff inflation: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/38627116/) Aust Crit Care. 2024 Apr 15:S1036-7314(24)00051-1
306. Eggmann S, Timenetsky KT, Hodgson C. [Promoting optimal physical rehabilitation in ICU.](https://pubmed.ncbi.nlm.nih.gov/38563898/) Intensive Care Med. 2024 Apr 2
307. Engel HJ, Brummel NE. [What Exactly Is Recommended for Patient Physical Activity During an ICU Stay?](https://pubmed.ncbi.nlm.nih.gov/38619342/) Crit Care Med. 2024 May 1;52(5):842-847
308. Alodan HA, Sutt AL, Hill R, Alsadhan J, Cross JL. [Effectiveness, experience, and usability of low-technology augmentative and alternative communication in intensive care: A mixed-methods systematic review.](https://pubmed.ncbi.nlm.nih.gov/38866691/) Aust Crit Care. 2024 Jun 11:S1036-7314(24)00085-7.
309. Rivera JD, Fox ES, Fernando SM, Tran A, Brodie D, Fan E, Fowles JA, Hodgson CL, Tonna JE, Rochwerg B. [Physical Rehabilitation and Mobilization in Patients Receiving Extracorporeal Life Support: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/38787294/) Crit Care Explor. 2024 May 24;6(6):e1095
310. Frazão M, Figueiredo TG, Cipriano G Jr. [Should We Use the Functional Electrical Stimulation-Cycling Exercise in Clinical Practice? Physiological and Clinical Effects Systematic Review With Meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38914190/) Arch Phys Med Rehabil. 2024 Jun 22:S0003-9993(24)01057-8
311. Xu C, Yang F, Wang Q, Gao W. [Effect of neuromuscular electrical stimulation in critically ill adults with mechanical ventilation: a systematic review and network meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38273243/) BMC Pulm Med. 2024 Jan 25;24(1):56
312. Innocenti T, Giagio S, Salvioli S, Feller D, Minnucci S, Brindisino F, IJzelenberg W, Ostelo R, Chiarotto A. [Completeness of Reporting Is Suboptimal in Randomized Controlled Trials Published in Rehabilitation Journals, With Trials With Low Risk of Bias Displaying Better Reporting: A Meta-research Study.](https://pubmed.ncbi.nlm.nih.gov/35192799/) Arch Phys Med Rehabil. 2022 Sep;103(9):1839-1847
313. O'Grady HK, Hasan H, Rochwerg B, Cook DJ, Takaoka A, Utgikar R, Reid JC, Kho ME. [Leg Cycle Ergometry in Critically Ill Patients - An Updated Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/39382351/) NEJM Evid. 2024 Oct 9:EVIDoa2400194
314. Dayton K, Lindroth H, Engel HJ, Fuchita M, Gonzales P, Nydahl P, Stollings JL, Boehm LM. [Creating a Culture of an Awake and Walking Intensive Care Unit](https://www.criticalcare.theclinics.com/article/S0749-0704(24)00074-5/abstract?dgcid=raven_jbs_aip_email). Crit Care Clin (2024).
315. Paton M, Hodgson CL. [Early Rehabilitation in Acute Respiratory Distress Syndrome.](https://pubmed.ncbi.nlm.nih.gov/39443006/) Clin Chest Med. 2024 Dec;45(4):895-904
316. Holm A, Thorn L, Alrø AB, Nedergaard HK, Jensen HI, Dreyer P. [Non-pharmacological interventions to support the cognitive rehabilitation of patients admitted to the intensive care unit: An umbrella review.](https://pubmed.ncbi.nlm.nih.gov/39503063/) Nurs Crit Care. 2024 Nov 6
317. Patsaki I, Kouvarakos A, Vasileiadis I, Koumantakis GA, Ischaki E, Grammatopoulou E, Kotanidou A, Magira EE. [Low-Medium and High-Intensity Inspiratory Muscle Training in Critically Ill Patients: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/38929486/) Medicina (Kaunas). 2024 May 26;60(6):869

## Guidelines, Protocols and Consensus Statements

1. Nici L, Donner C, Wouters E, Zuwallack R, Ambrosino N, Bourbeau J, Carone M, Celli B, Engelen M, Fahy B, Garvey C, Goldstein R, Gosselink R, Lareau S, MacIntyre N, Maltais F, Morgan M, O'Donnell D, Prefault C, Reardon J, Rochester C, Schols A, Singh S, Troosters T; ATS/ERS Pulmonary Rehabilitation Writing Committee. [American Thoracic Society/European Respiratory Society statement on pulmonary rehabilitation.](http://www.ncbi.nlm.nih.gov/pubmed/16760357) Am J Respir Crit Care Med. 2006
2. Gosselink R, Bott J, Johnson M et al. [Physiotherapy for adult patients with critical illness: Recommendations of the European Society of Intensive Care Medicine Task Force Physiotherapy for Critically Ill Patients](http://www.ncbi.nlm.nih.gov/pubmed/18283429). Intensive Care Med 2008; 34:1188-1199
3. Gosselink R, Bott J, Johnson M, Dean E, Nava S, Norrenberg M, Schönhofer B, Stiller K, van de Leur H, Vincent JL. [Physiotherapy for adult patients with critical illness: recommendations of the European Respiratory Society and European Society of Intensive Care Medicine Task Force on Physiotherapy for Critically Ill Patients.](http://www.ncbi.nlm.nih.gov/pubmed/18283429) Intensive Care Med. 2008 Jul;34(7):1188-99.
4. National Institute for Health and Clinical Excellence (NICE): Rehabilitation after critical illness. NICE Clinical Guideline No. 83, January 2009 <http://www.nice.org.uk/CG83>
5. Australien Guideline [Physical Activity and Movement: A Guideline for Critically Ill Adults](http://www.aci.health.nsw.gov.au/__data/assets/pdf_file/0005/239783/ACI14_PAM_1-2.pdf), Nov. 2014
6. Hodgson CL, Stiller K, Needham DM, Tipping CJ, Harrold M, Baldwin CE, Bradley S, Berney S, Caruana LR, Elliott D, Green M, Haines K, Higgins AM, Kaukonen KM, Leditschke I, Nickels MR, Paratz J, Patman S, Skinner EH, Young PJ, Zanni JM, Denehy L, Webb SA. [Expert consensus and recommendations on safety criteria for active mobilization of mechanically ventilated critically ill adults](http://ccforum.com/content/18/6/658/abstract). Crit Care. 2014 Dec 4;18(6):658
7. Hillegass E, Puthoff M, Frese EM, Thigpen M, Sobush DC, Auten B; Guideline Development Group. [Role of Physical Therapists in the Management of Individuals at Risk for or Diagnosed With Venous Thromboembolism: Evidence-Based Clinical Practice Guideline.](http://www.ncbi.nlm.nih.gov/pubmed/26515263) Phys Ther. 2015 Oct 29.
8. Slade SC, Dionne CE, Underwood M, Buchbinder R, Beck B, Bennell K, Brosseau L, Costa L, Cramp F, Cup E, Feehan L, Ferreira M, Forbes S, Glasziou P, Habets B, Harris S, Hay-Smith J, Hillier S, Hinman R, Holland A, Hondras M, Kelly G, Kent P, Lauret GJ, Long A, Maher C, Morso L, Osteras N, Peterson T, Quinlivan R, Rees K, Regnaux JP, Reitberg M, Saunders D, Skoetz N, Sogaard K, Takken T, van Tulder M, Voet N, Ward L, White C. [Consensus on Exercise Reporting Template (CERT): A Modified Delphi Study.](http://www.ncbi.nlm.nih.gov/pubmed/27149962) Phys Ther. 2016 May 5.
9. Bein T, Bischoff M, Brückner U, Gebhardt K, Henzler D, Hermes C, Lewandowski K, Max M, Nothacker M, Staudinger T, Tryba M, Weber-Carstens S, Wrigge H. [S2e guideline: positioning and early mobilisation in prophylaxis or therapy of pulmonary disorders : Revision 2015: S2e guideline of the German Society of Anaesthesiology and Intensive Care Medicine (DGAI).](https://www.ncbi.nlm.nih.gov/pubmed/26335630) Anaesthesist. 2015 Dec;64 Suppl 1:1-26.
10. Major ME, Kwakman R, Kho ME, Connolly B, McWilliams D, Denehy L, Hanekom S, Patman S, Gosselink R, Jones C, Nollet F, Needham DM, Engelbert RH, van der Schaaf M. [Surviving critical illness: what is next? An expert consensus statement on physical rehabilitation after hospital discharge.](https://www.ncbi.nlm.nih.gov/pubmed/27793165) Crit Care. 2016 Oct 29;20(1):354.
11. Allaina Eden, Claire Purkiss, Gabriella Cork, Adam Baddeley, Kelly Morris, Leah Carey, Mike Brown, Laura McGarrigle, Samantha Kennedy. [In-patient physiotherapy for adults on veno-venous extracorporeal membrane oxygenation – United Kingdom ECMO Physiotherapy Network: A consensus agreement for best practice.](http://journals.sagepub.com/doi/full/10.1177/1751143717705801#articleCitationDownloadContainer) Journal of the Intensive Care Society, June 2017
12. Aquim EE, Bernardo WM, Buzzini RF, Azeredo NSG, Cunha LSD, Damasceno MCP, Deucher RAO, Duarte ACM, Librelato JT, Melo-Silva CA, Nemer SN, Silva SDFD, Verona C. [Brazilian Guidelines for Early Mobilization in Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/31967216) Rev Bras Ter Intensiva. 2019 Oct-Dec;31(4):434-443
13. Cartotto R, Johnson L, Rood JM, Lorello D, Matherly A, Parry I, Romanowski K, Wiechman S, Bettencourt A, Carson JS, Lam HT, Nedelec B. [Clinical Practice Guideline: Early Mobilization and Rehabilitation of Critically Ill Burn Patients.](https://pubmed.ncbi.nlm.nih.gov/35639543/) J Burn Care Res. 2022 May 26:irac008
14. Renner C, Jeitziner MM, Albert M, Brinkmann S, Diserens K, Dzialowski I, Heidler MD, Lück M, Nusser-Müller-Busch R, Sandor PS, Schäfer A, Scheffler B, Wallesch C, Zimmermann G, Nydahl P. [Guideline on multimodal rehabilitation for patients with post-intensive care syndrome.](https://pubmed.ncbi.nlm.nih.gov/37525219/) Crit Care. 2023 Jul 31;27(1):301
15. Rochester CL, Alison JA, Carlin B, Jenkins AR, Cox NS, Bauldoff G, Bhatt SP, Bourbeau J, Burtin C, Camp PG, Cascino TM, Dorney Koppel GA, Garvey C, Goldstein R, Harris D, Houchen-Wolloff L, Limberg T, Lindenauer PK, Moy ML, Ryerson CJ, Singh SJ, Steiner M, Tappan RS, Yohannes AM, Holland AE. [Pulmonary Rehabilitation for Adults with Chronic Respiratory Disease: An Official American Thoracic Society Clinical Practice Guideline.](https://pubmed.ncbi.nlm.nih.gov/37581410/) Am J Respir Crit Care Med. 2023 Aug 15;208(4):e7-e26
16. Unoki T, Hayashida K, Kawai Y, et al; Committee for the Clinical Practice Guidelines of Early Mobilization and Rehabilitation in Intensive Care of the Japanese Society of Intensive Care Medicine. [Japanese Clinical Practice Guidelines for Rehabilitation in Critically Ill Patients 2023 (J-ReCIP 2023).](https://pubmed.ncbi.nlm.nih.gov/37932849/) J Intensive Care. 2023 Nov 7;11(1):47
17. Lee et al. [Development of a clinical practice guideline for physiotherapy management of adults invasively ventilated with community-acquired pneumonia](https://www.physiotherapyjournal.com/article/S0031-9406(23)00085-8/fulltext). Physiotherapy 2023, 12
18. Schaller SJ, Scheffenbichler FT, Bein T, Blobner M, Grunow JJ, Hamsen U, Hermes C, Kaltwasser A, Lewald H, Nydahl P, Reißhauer A, Renzewitz L, Siemon K, Staudinger T, Ullrich R, Weber-Carstens S, Wrigge H, Zergiebel D, Coldewey SM. [Guideline on positioning and early mobilisation in the critically ill by an expert panel.](https://pubmed.ncbi.nlm.nih.gov/39073582/) Intensive Care Med. 2024 Jul 29

# ICUAW - ICU Acquired Weakness

## Research studies

1. Ferrando AA, Lane HW, Stuart CA, Davis-Street J, Wolfe RR. [Prolonged bed rest decreases skeletal muscle and whole body protein synthesis.](http://www.ncbi.nlm.nih.gov/pubmed/8928769) Am J Physiol. 1996 Apr;270(4 Pt 1):E627-33
2. Berek K, Margreiter J, Willeit J, Berek A, Schmutzhard E, Mutz NJ[. Polyneuropathies in critically ill patients: a prospective evaluation. Intensive care medicine](http://www.ncbi.nlm.nih.gov/pubmed/8905416). 1996;22(9):849-55.
3. Hund E, Genzwurker H, Bohrer H, Jakob H, Thiele R, Hacke W. Predominant involvement of motor fibres in patients with critical illness polyneuropathy. British journal of anaesthesia. 1997;78(3):274-8.
4. Helliwell TR, Wilkinson A, Griffiths RD, McClelland P, Palmer TE, Bone JM. Muscle fibre atrophy in critically ill patients is associated with the loss of myosin filaments and the presence of lysosomal enzymes and ubiquitin. Neuropathology and applied neurobiology. 1998;24(6):507-17.
5. Zifko UA. [Long-term outcome of critical illness polyneuropathy.](http://www.ncbi.nlm.nih.gov/pubmed/11135284) Muscle Nerve Suppl. 2000;9:S49-52
6. Matsumoto N, Nakamura T, Yasui Y, Torii J. Analysis of muscle proteins in acute quadriplegic myopathy. Muscle & nerve. 2000;23(8):1270-6
7. de Letter MA, Schmitz PI, Visser LH, Verheul FA, Schellens RL, Op de Coul DA, van der Meché FG. Risk factors for the development of polyneuropathy and myopathy in critically ill patients. Crit Care Med. 2001 Dec;29(12):2281-6.
8. Sharma R, Anker SD. [Cytokines, apoptosis and cachexia: the potential for TNF antagonism.](http://www.ncbi.nlm.nih.gov/pu) Int J Cardiol. 2002 Sep;85(1):161-71.
9. De Jonghe B, Shanshar T, Lefaucheur JP et al. [Paresis acquired in the intensive care unit: A prospective multicenter study.](http://www.ncbi.nlm.nih.gov/pubmed/12472328)  JAMA 2002; 288:2859-2867 [free full text](http://jama.ama-assn.org/content/288/22/2859.long)
10. Fredriksson K, Hammarqvist F, Strigard K, Hultenby K, Ljungqvist O, Wernerman J, et al. Derangements in mitochondrial metabolism in intercostal and leg muscle of critically ill patients with sepsis-induced multiple organ failure. American journal of physiology Endocrinology and metabolism. 2006;291(5):E1044-50.
11. Schweickert WD, Hall J. [ICU-acquired weakness.](http://www.ncbi.nlm.nih.gov/pubmed/17494803) Chest. 2007 May;131(5):1541-9
12. Winkelman C. [Inactivity and inflammation in the critically ill patient.](http://www.ncbi.nlm.nih.gov/pubmed/17307114) Crit Care Clin. 2007 Jan;23(1):21-34.
13. Hamburg NM, McMackin CJ, Huang AL, Shenouda SM, Widlansky ME, Schulz E, Gokce N, Ruderman NB, Keaney JF Jr, Vita JA. [Physical inactivity rapidly induces insulin resistance and microvascular dysfunction in healthy volunteers.](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2596308/?tool=myncbi) Arterioscler Thromb Vasc Biol. 2007 Dec;27(12):2650-6.
14. Hermans G, Wilmer A, Meersseman W, Milants I, Wouters PJ, Bobbaers H, Bruyninckx F, Van den Berghe G. Impact of intensive insulin therapy on neuromuscular complications and ventilator dependency in the medical intensive care unit. Am J Respir Crit Care Med. 2007 Mar 1;175(5):480-9.
15. Klaude M, Fredriksson K, Tjader I, Hammarqvist F, Ahlman B, Rooyackers O, et al. Proteasome proteolytic activity in skeletal muscle is increased in patients with sepsis. Clinical science. 2007;112(9):499-506.
16. Fink H, Helming M, Unterbuchner C, Lenz A, Neff F, Martyn JA, Blobner M. [Systemic inflammatory response syndrome increases immobility-induced neuromuscular weakness. Crit](http://www.ncbi.nlm.nih.gov/pubmed/18431280) Care Med. 2008 Mar;36(3):910-6.
17. Fredriksson K, Tjader I, Keller P, Petrovic N, Ahlman B, Scheele C, et al. Dysregulation of mitochondrial dynamics and the muscle transcriptome in ICU patients suffering from sepsis induced multiple organ failure. PloS one. 2008;3(11):e3686
18. Ahlbeck K, Fredriksson K, Rooyackers O, Maback G, Remahl S, Ansved T, et al. Signs of critical illness polyneuropathy and myopathy can be seen early in the ICU course. Acta anaesthesiologica Scandinavica. 2009;53(6):717-23.
19. Constantin D, McCullough J, Mahajan RP, Greenhaff PL. Novel events in the molecular regulation of muscle mass in critically ill patients. The Journal of physiology. 2011;589(Pt 15):3883-95.
20. Jespersen JG, Nedergaard A, Reitelseder S, Mikkelsen UR, Dideriksen KJ, Agergaard J, et al. Activated protein synthesis and suppressed protein breakdown signaling in skeletal muscle of critically ill patients. PloS one. 2011;6(3):e18090.
21. Bierbrauer J, Koch S, Olbricht C, Hamati J, Lodka D, Schneider J, Luther-Schröder A, Kleber C, Faust K, Wiesener S, Spies CD, Spranger J, Spuler S, Fielitz J, Weber-Carstens S. [Early type II fiber atrophy in intensive care unit patients with nonexcitable muscle membrane.](http://www.ncbi.nlm.nih.gov/pubmed/21963579) Crit Care Med. 2012 Feb;40(2):647-50.
22. Llano-Diez M, Renaud G, Andersson M, Marrero HG, Cacciani N, Engquist H, et al. Mechanisms underlying ICU muscle wasting and effects of passive mechanical loading. Critical care. 2012;16(5):R209.
23. Derde S, Hermans G, Derese I, Guiza F, Hedstrom Y, Wouters PJ, et al. Muscle atrophy and preferential loss of myosin in prolonged critically ill patients. Critical care medicine. 2012;40(1):79-89.
24. Klaude M, Mori M, Tjader I, Gustafsson T, Wernerman J, Rooyackers O. Protein metabolism and gene expression in skeletal muscle of critically ill patients with sepsis. Clinical science. 2012;122(3):133-42.
25. Renaud G, Llano-Diez M, Ravara B, Gorza L, Feng HZ, Jin JP, Cacciani N, Gustafson AM, Ochala J, Corpeno R, Li M, Hedström Y, Ford GC, Nair KS, Larsson L. [Sparing of muscle mass and function by passive loading in an experimental intensive care unit model.](http://www.ncbi.nlm.nih.gov/pubmed/23266938) J Physiol. 2013 Mar 1;591(Pt 5):1385-402.
26. Hermans G, Casaer MP, Clerckx B, Guiza F, Vanhullebusch T, Derde S, Meersseman P, Derese I, Mesotten D, Wouters PJ, Van Cromphaut S, Debaveye Y, Gosselink R, Gunst J, Wilmer A, Van den Berghe G, Vanhorebeek I. (2013). Effect of tolerating macronutrient deficit on the development of intensive-care unit acquired weakness: a subanalysis of the EPaNIC trial. The Lancet Respiratory Medicine 2013, 1(8): 621-629
27. Casaer MP, Langouche L, Coudyzer W, Vanbeckevoort D, De Dobbelaer B, Güiza FG, Wouters PJ, Mesotten D, Van den Berghe G. [Impact of early parenteral nutrition on muscle and adipose tissue compartments during critical illness. Crit](http://www.ncbi.nlm.nih.gov/pubmed/23860247) Care Med. 2013 Oct;41(10):2298-309.
28. Weber-Carstens S, Schneider J, Wollersheim T, Assmann A, Bierbrauer J, Marg A, Al Hasani H, Chadt A, Wenzel K, Koch S, Fielitz J, Kleber C, Faust K, Mai K, Spies CD, Luft FC, Boschmann M, Spranger J, Spuler S. [Critical illness myopathy and GLUT4: significance of insulin and muscle contraction.](http://www.ncbi.nlm.nih.gov/pubmed/23239154) Am J Respir Crit Care Med. 2013 Feb 15;187(4):387-96.
29. Puthucheary ZA, Rawal J, McPhail M, Connolly B, Ratnayake G, Chan P, Hopkinson NS, Phadke R, Dew T, Sidhu PS, Velloso C, Seymour J, Agley CC, Selby A, Limb M, Edwards LM, Smith K, Rowlerson A, Rennie MJ, Moxham J, Harridge SD, Hart N, Montgomery HE. [Acute skeletal muscle wasting in critical illness.](http://www.ncbi.nlm.nih.gov/pubmed/24108501) JAMA. 2013 Oct 16;310(15):1591-600.
30. Ackermann KA, Bostock H, Brander L, Schröder R, Djafarzadeh S, Tuchscherer D, Jakob SM, Takala J, Z'Graggen WJ. [Early changes of muscle membrane properties in porcine faecal peritonitis.](http://www.ncbi.nlm.nih.gov/pubmed/25145497) Crit Care. 2014 Aug 22;18(4):484.
31. Hooijman PE, Beishuizen A, de Waard MC, de Man FS, Vermeijden JW, Steenvoorde P, Bouwman RA, Lommen W, van Hees HW, Heunks LM, Dickhoff C, van der Peet DL, Girbes AR, Jasper JR, Malik FI, Stienen GJ, Hartemink KJ, Paul MA, Ottenheijm CA. [Diaphragm fiber strength is reduced in critically ill patients and restored by a troponin activator.](http://www.ncbi.nlm.nih.gov/pubmed/24684359) Am J Respir Crit Care Med. 2014 Apr 1;189(7):863-5
32. Herridge MS, Batt J, Santos CD. [ICU-acquired weakness, morbidity, and death.](http://www.ncbi.nlm.nih.gov/pubmed/25127302) Am J Respir Crit Care Med. 2014 Aug 15;190(4):360-2.
33. Wollersheim T, Woehlecke J, Krebs M, Hamati J, Lodka D, Luther-Schroeder A, Langhans C, Haas K, Radtke T, Kleber C, Spies C, Labeit S, Schuelke M, Spuler S, Spranger J, Weber-Carstens S, Fielitz J. [Dynamics of myosin degradation in intensive care unit-acquired weakness during severe critical illness.](http://www.ncbi.nlm.nih.gov/pubmed/24531339) Intensive Care Med. 2014 Apr;40(4):528-38.
34. Bloch SA, Lee JY, Syburra T, Rosendahl U, Griffiths MJ, Kemp PR, Polkey MI. [Increased expression of GDF-15 may mediate ICU-acquired weakness by down-regulating muscle microRNAs.](http://www.ncbi.nlm.nih.gov/pubmed/25516419) Thorax. 2015 Mar;70(3):219-28.
35. Fan E. [Critical illness neuromyopathy and the role of physical therapy and rehabilitation in critically ill patients. Respir Care](http://www.ncbi.nlm.nih.gov/pubmed/22663968). 2012 Jun;57(6):933-44; discussion 944-6
36. Tillquist M, Kutsogiannis DJ, Wischmeyer PE, Kummerlen C, Leung R, Stollery D, Karvellas CJ, Preiser JC, Bird N, Kozar R, Heyland DK. [Bedside ultrasound is a practical and reliable measurement tool for assessing quadriceps muscle layer thickness.](http://www.ncbi.nlm.nih.gov/pubmed/23980134) JPEN J Parenter Enteral Nutr. 2014 Sep;38(7):886-90.
37. Connolly B, Thompson A, Douiri A, Moxham J, Hart N. [Exercise-based rehabilitation after hospital discharge for survivors of critical illness with intensive care unit-acquired weakness: A pilot feasibility trial.](http://www.ncbi.nlm.nih.gov/pubmed/25703957) J Crit Care. 2015 Jun;30(3):589-98.
38. Witteveen E, Hoogland IC, Wieske L, Weber NC, Verhamme C, Schultz MJ, van Schaik IN, Horn J. [Assessment of ICU-acquired weakness in young and old mice: an E. coli septic peritonitis model.](http://www.ncbi.nlm.nih.gov/pubmed/26015329) Muscle Nerve. 2015 May 26.
39. Wieske L, Dettling-Ihnenfeldt DS, Verhamme C, Nollet F, van Schaik IN, Schultz MJ, Horn J, van der Schaaf M. [Impact of ICU-acquired weakness on post-ICU physical functioning: a follow-up study.](http://www.ncbi.nlm.nih.gov/pubmed/25928709) Crit Care. 2015 Apr 27;19:196.
40. H Van Mechelen, G Hermans, F Bruyninckx, T Vanhullebusch, B Clerckx, P Meersseman, Y Debaveye, MP Casaer, A Wilmer, PJ Wouters, I Vanhorebeek, R Gosselink, G Van den Berghe [Predictive value for weakness and 1-year mortality of screening electrophysiology tests in the ICU](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4472684/) Crit Care. 2015; 19(Suppl 1): P474.
41. Parry SM, Puthucheary ZA. [The impact of extended bed rest on the musculoskeletal system in the critical care environment.](http://www.ncbi.nlm.nih.gov/pubmed/26457181) Extrem Physiol Med. 2015 Oct 9;4:16.
42. Yosef-Brauner O, Adi N, Ben Shahar T, Yehezkel E, Carmeli E. [Effect of physical therapy on muscle strength, respiratory muscles and functional parameters in patients with intensive care unit-acquired weakness.](http://www.ncbi.nlm.nih.gov/pubmed/24345055) Clin Respir J. 2015 Jan;9(1):1-6.
43. Fan E, Herridge MS. [Finally, a time and place for electrophysiological testing in critically ill patients?](http://www.ncbi.nlm.nih.gov/pubmed/26424681) Intensive Care Med. 2015 Dec;41(12):2221-3.
44. Field-Ridley A, Dharmar M, Steinhorn D, McDonald C, Marcin JP. [ICU-Acquired Weakness Is Associated With Differences in Clinical Outcomes in Critically Ill Children.](http://www.ncbi.nlm.nih.gov/pubmed/26492063) Pediatr Crit Care Med. 2015 Oct 21.
45. Jung B, Moury PH, Mahul M, de Jong A, Galia F, Prades A, Albaladejo P, Chanques G, Molinari N, Jaber S. [Diaphragmatic dysfunction in patients with ICU-acquired weakness and its impact on extubation failure.](http://www.ncbi.nlm.nih.gov/pubmed/26572511) Intensive Care Med. 2015 Nov 16.
46. Samosawala NR, Vaishali K, Kalyana BC. [Measurement of muscle strength with handheld dynamometer in Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/26955213) Indian J Crit Care Med. 2016 Jan;20(1):21-6.
47. Peñuelas O, Muriel A, Frutos-Vivar F, Fan E, Raymondos K, Rios F, Nin N, Thille AW, González M, Villagomez AJ, Davies AR, Du B, Maggiore SM, Matamis D, Abroug F, Moreno RP, Kuiper MA, Anzueto A, Ferguson ND, Esteban A. [Prediction and Outcome of Intensive Care Unit-Acquired Paresis.](http://www.ncbi.nlm.nih.gov/pubmed/27080128) J Intensive Care Med. 2016 Apr 13. pii: 0885066616643529.
48. Dos Santos C, Hussain SN, Mathur S, Picard M, Herridge M, Correa J, Bain A, Guo Y, Advani A, Advani SL, Tomlinson G, Katzberg H, Streutker CJ, Cameron JI, Schols A, Gosker H, Batt J; MEND ICU group, the RECOVER Program investigators and the Canadian Critical Care Translational Biology Group. [Mechanisms of Chronic Muscle Wasting and Dysfunction After an Intensive Care Unit Stay: A Pilot Study.](http://www.ncbi.nlm.nih.gov/pubmed/27058306) Am J Respir Crit Care Med. 2016 Apr 8.
49. Bagshaw M, Majumdar SR, Rolfson DB, Ibrahim Q, McDermid RC, Stelfox HT. [A prospective multicenter cohort study of frailty in younger critically ill patients.](http://www.ncbi.nlm.nih.gov/pubmed/27263535) Crit Care. 2016 Jun 6;20(1):175.
50. Kuchnia A, Earthman C, Teigen L, Cole A, Mourtzakis M, Paris M, Looijaard W, Weijs P, Oudemans-van Straaten H, Beilman G, Day A, Leung R, Compher C, Dhaliwal R, Peterson S, Roosevelt H, Heyland DK. [Evaluation of Bioelectrical Impedance Analysis in Critically Ill Patients: Results of a Multicenter Prospective Study.](http://www.ncbi.nlm.nih.gov/pubmed/27221673) JPEN J Parenter Enteral Nutr. 2016 May 24.
51. Dos Santos C, Hussain SN, Mathur S, Picard M, Herridge M, Correa J, Bain A, Guo Y, Advani A, Advani SL, Tomlinson G, Katzberg H, Streutker CJ, Cameron JI, Schols A, Gosker HR, Batt J; MEND ICU Group.; RECOVER Program Investigators.; Canadian Critical Care Translational Biology Group.. [Mechanisms of Chronic Muscle Wasting and Dysfunction after an Intensive Care Unit Stay. A Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/27058306) Am J Respir Crit Care Med. 2016 Oct 1;194(7):821-830.
52. Stäuble CG, Helming M, Martyn JA, Blobner M, Fink H. [Neuromuscular Recovery Is Prolonged After Immobilization or Superimposition of Inflammation With Immobilization Compared to Inflammation Alone: Data From a Preclinical Model.](https://www.ncbi.nlm.nih.gov/pubmed/27513355) Crit Care Med. 2016 Nov;44(11):e1097-e1110.
53. Turton P, Hay R, Taylor J, McPhee J, Welters I. [Human limb skeletal muscle wasting and architectural remodeling during five to ten days intubation and ventilation in critical care - an observational study using ultrasound.](https://www.ncbi.nlm.nih.gov/pubmed/27894277) BMC Anesthesiol. 2016 Nov 29;16(1):119.
54. Schmidt SB, Rollnik JD. [Critical illness polyneuropathy (CIP) in neurological early rehabilitation: clinical and neurophysiological features.](https://www.ncbi.nlm.nih.gov/pubmed/27978832) BMC Neurol. 2016 Dec 15;16(1):256.
55. Abdelmalik PA, Rakocevic G. [Propofol as a Risk Factor for ICU-Acquired Weakness in Septic Patients with Acute Respiratory Failure.](https://www.ncbi.nlm.nih.gov/pubmed/28091345) Can J Neurol Sci. 2017 Jan 16:1-9
56. Haeseler G, Störmer M, Bufler J, Dengler R, Hecker H, Piepenbrock S, Leuwer M. [Propofol blocks human skeletal muscle sodium channels in a voltage-dependent manner.](https://www.ncbi.nlm.nih.gov/pubmed/11323345) Anesth Analg. 2001 May;92(5):1192-8
57. Ten Haaf D, Hemmen B, van de Meent H, BovendʼEerdt TJ. [The Magnitude and Time Course of Muscle Cross-section Decrease in Intensive Care Unit Patients.](https://www.ncbi.nlm.nih.gov/pubmed/28151763) Am J Phys Med Rehabil. 2017 Feb 1.
58. Mikkelsen ME. [Triangulating Weakness, Morbidity, and Mortality Among Acute Respiratory Distress Syndrome Survivors: A Story Emerges.](https://www.ncbi.nlm.nih.gov/pubmed/28098638) Crit Care Med. 2017 Feb;45(2):370-371
59. Dinglas VD, Aronson Friedman L, Colantuoni E, Mendez-Tellez PA, Shanholtz CB, Ciesla ND, Pronovost PJ, Needham DM. [Muscle Weakness and 5-Year Survival in Acute Respiratory Distress Syndrome Survivors.](https://www.ncbi.nlm.nih.gov/pubmed/28067712) Crit Care Med. 2017 Mar;45(3):446-453.
60. Puthucheary Z, Prescott H. [Skeletal Muscle Weakness Is Associated With Both Early and Late Mortality After Acute Respiratory Distress Syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/28212226) Crit Care Med. 2017 Mar;45(3):563-565.
61. Medrinal C, Prieur G, Frenoy É, Combret Y, Gravier FE, Bonnevie T, Poncet A, Robledo Quesada A, Lamia B, Contal O. [Is overlap of respiratory and limb muscle weakness at weaning from mechanical ventilation associated with poorer outcomes?](https://www.ncbi.nlm.nih.gov/pubmed/27866213) Intensive Care Med. 2017 Feb;43(2):282-283
62. Witteveen E, Wieske L, van der Poll T, van der Schaaf M, van Schaik IN, Schultz MJ, Verhamme C, Horn J; Molecular Diagnosis and Risk Stratification of Sepsis (MARS) Consortium.. [Increased Early Systemic Inflammation in ICU-Acquired Weakness; A Prospective Observational Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/28350642) Crit Care Med. 2017 Jun;45(6):972-979
63. Balboa E, Saavedra F, Cea LA, Vargas AA, Ramírez V, Escamilla R, Sáez JC, Regueira T. [Sepsis-Induced Channelopathy in Skeletal Muscles is Associated with Expression of Non-Selective Channels.](https://www.ncbi.nlm.nih.gov/pubmed/28562477) Shock. 2017 May 30.
64. Harvey NR, Stanton MP. [Intensive Care Unit-Acquired Weakness: Implications for Case Management.](https://www.ncbi.nlm.nih.gov/pubmed/28141756) Prof Case Manag. 2017 Mar/Apr;22(2):72-78.
65. Gluck S, Summers MJ, Goddard TP, Andrawos A, Smith NC, Lange K, Iwashyna TJ, Deane AM. [Wide Disagreement Between Alternative Assessments of Premorbid Physical Activity: Subjective Patient and Surrogate Reports and Objective Smartphone Data.](https://www.ncbi.nlm.nih.gov/pubmed/28915184) Crit Care Med. 2017 Oct;45(10):e1036-e1042
66. Nakanishi N, Oto J, Tsutsumi R, Iuchi M, Onodera M, Nishimura M. [Upper and lower limb muscle atrophy in critically ill patients: an observational ultrasonography study.](https://www.ncbi.nlm.nih.gov/pubmed/29110031) Intensive Care Med. 2017 Nov 6. doi: 10.1007/s00134-017-4975-x
67. van Wagenberg L, Witteveen E, Wieske L, Horn J. [Causes of Mortality in ICU-Acquired Weakness.](https://www.ncbi.nlm.nih.gov/pubmed/29241382) J Intensive Care Med. 2017 Jan 1:885066617745818.
68. Gamrin-Gripenberg L, Sundström-Rehal M, Olsson D, Grip J, Wernerman J, Rooyackers O. [An attenuated rate of leg muscle protein depletion and leg free amino acid efflux over time is seen in ICU long-stayers.](https://www.ncbi.nlm.nih.gov/pubmed/29361961) Crit Care. 2018 Jan 23;22(1):13
69. Verceles AC, Wells CL, Sorkin JD, Terrin ML, Beans J, Jenkins T, Goldberg AP. [A multimodal rehabilitation program for patients with ICU acquired weakness improves ventilator weaning and discharge home.](https://www.ncbi.nlm.nih.gov/pubmed/30025227) J Crit Care. 2018 Jul 11;47:204-210
70. Thomas S, Mehrholz J. [Health-related quality of life, participation, and physical and cognitive function of patients with intensive care unit-acquired muscle weakness 1 year after rehabilitation in Germany: the GymNAST cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/30007926) BMJ Open. 2018 Jul 13;8(7):e020163
71. Palakshappa JA, Reilly JP, Schweickert WD, Anderson BJ, Khoury V, Shashaty MG, Fitzgerald D, Forker C, Butler K, Ittner CA, Feng R, Files DC, Bonk MP, Christie JD, Meyer NJ. [Quantitative peripheral muscle ultrasound in sepsis: Muscle area superior to thickness.](https://www.ncbi.nlm.nih.gov/pubmed/30224027) J Crit Care. 2018 Oct;47:324-330
72. Koutsioumpa E, Makris D, Theochari A, Bagka D, Stathakis S, Manoulakas E, Sgantzos M, Zakynthinos E. [Effect of Transcutaneous Electrical Neuromuscular Stimulation on Myopathy in Intensive Care Patients.](https://www.ncbi.nlm.nih.gov/pubmed/30385541) Am J Crit Care. 2018 Nov;27(6):495-503
73. Dos Santos FV, Cipriano G Jr, Vieira L, Güntzel Chiappa AM, Cipriano GBF, Vieira P, Zago JG, Castilhos M, da Silva ML, Chiappa GR. [Neuromuscular electrical stimulation combined with exercise decreases duration of mechanical ventilation in ICU patients: A randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/30321084) Physiother Theory Pract. 2018 Oct 15:1-9
74. Hadda V, Kumar R, Khilnani GC, Kalaivani M, Madan K, Tiwari P, Mittal S, Mohan A, Bhalla AS, Guleria R. [Trends of loss of peripheral muscle thickness on ultrasonography and its relationship with outcomes among patients with sepsis.](https://www.ncbi.nlm.nih.gov/pubmed/30564367) J Intensive Care. 2018 Dec 12;6:81.
75. Pardo E, El Behi H, Boizeau P, Verdonk F, Alberti C, Lescot T. [Reliability of ultrasound measurements of quadriceps muscle thickness in critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/30591032) BMC Anesthesiol. 2018 Dec 27;18(1):205
76. Kelmenson DA, Quan D, Moss M. [What is the diagnostic accuracy of single nerve conduction studies and muscle ultrasound to identify critical illness polyneuromyopathy: a prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/30558638) Crit Care. 2018 Dec 17;22(1):342
77. Polkey MI, Praestgaard J, Berwick A, Franssen FME, Singh D, Steiner MC, Casaburi R, Tillmann HC, Lach-Trifilieff E, Roubenoff R, Rooks DS. [Activin Type II Receptor Blockade for Treatment of Muscle Depletion in Chronic Obstructive Pulmonary Disease. A Randomized Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30095981) Am J Respir Crit Care Med. 2019 Feb 1;199(3):313-320
78. Nakamura K, Kihata A, Naraba H, Kanda N, Takahashi Y, Sonoo T, Hashimoto H, Morimura N. [β-Hydroxy-β-methylbutyrate, Arginine, and Glutamine Complex on Muscle Volume Loss in Critically Ill Patients: A Randomized Control Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31134640) JPEN J Parenter Enteral Nutr. 2019 May 27
79. Chen YH, Hsiao HF, Li LF, Chen NH, Huang CC.[Effects of Electrical Muscle Stimulation in Subjects Undergoing Prolonged Mechanical Ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/30723168) Respir Care. 2019 Mar;64(3):262-271
80. Baldwin CE, Fetterplace K, Beach L, Kayambu G, Paratz J, Earthman C, Parry SM. [Early Detection of Muscle Weakness and Functional Limitations in the Critically Ill: A Retrospective Evaluation of Bioimpedance Spectroscopy.](https://www.ncbi.nlm.nih.gov/pubmed/31583738) JPEN J Parenter Enteral Nutr. 2019 Oct 3
81. Bragança RD, Ravetti CG, Barreto L, Ataíde TBLS, Carneiro RM, Teixeira AL, Nobre V. [Use of handgrip dynamometry for diagnosis and prognosis assessment of intensive care unit acquired weakness: A prospective study.](https://www.ncbi.nlm.nih.gov/pubmed/31320179) Heart Lung. 2019 Nov - Dec;48(6):532-537
82. Dres M, Jung B, Molinari N, Manna F, Dubé BP, Chanques G, Similowski T, Jaber S, Demoule A. [Respective contribution of intensive care unit-acquired limb muscle and severe diaphragm weakness on weaning outcome and mortality: a post hoc analysis of two cohorts.](https://www.ncbi.nlm.nih.gov/pubmed/31752937) Crit Care. 2019 Nov 21;23(1):370
83. Wandrag L, Brett SJ, Frost GS, Bountziouka V, Hickson M. [Exploration of muscle loss and metabolic state during prolonged critical illness: Implications for intervention?](https://www.ncbi.nlm.nih.gov/pubmed/31725748) PLoS One. 2019 Nov 14;14(11):e0224565
84. Scheunemann LP, Leland NE, Perera S, Skidmore ER, Reynolds CF, Pandharipande PP, Jackson JC, Ely EW, Girard TD. [Sex Disparities and Functional Outcomes after Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/31751152) Am J Respir Crit Care Med. 2019 Nov 21
85. Baggerman MR, van Dijk DPJ, Winkens B, van Gassel RJJ, Bol ME, Schnabel RM, Bakers FC, Olde Damink SWM, van de Poll MCG. [Muscle wasting associated co-morbidities, rather than sarcopenia are risk factors for hospital mortality in critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/31805466) J Crit Care. 2019 Nov 26;56:31-36
86. Windmöller P, Bodnar ET, Casagrande J, Dallazen F, Schneider J, Berwanger SA, Borghi-Silva A, Winkelmann ER. [Physical Exercise Combined With CPAP in Subjects Who Underwent Surgical Myocardial Revascularization: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31988253) Respir Care. 2020 Feb;65(2):150-157
87. Van Aerde N, Meersseman P, Debaveye Y, Wilmer A, Gunst J, Casaer MP, Bruyninckx F, Wouters PJ, Gosselink R, Van den Berghe G, Hermans G. [Five-year impact of ICU-acquired neuromuscular complications: a prospective, observational study.](https://www.ncbi.nlm.nih.gov/pubmed/31970446) Intensive Care Med. 2020 Jan 22. doi: 10.1007/s00134-020-05927-5
88. Almeida VP, Ferreira AS, Guimarães FS, Papathanasiou J, Lopes AJ. [Predictive models for the six-minute walk test considering the walking course and physical activity level.](https://www.ncbi.nlm.nih.gov/pubmed/31189305) Eur J Phys Rehabil Med. 2019 Dec;55(6):824-833
89. Young DL, Colantuoni E, Friedman LA, Seltzer J, Daley K, Ye B, Brotman DJ, Hoyer EH. [Prediction of Disposition within 48-hours of Hospital Admission Using Patient Mobility Scores.](https://www.ncbi.nlm.nih.gov/pubmed/31869298) J Hosp Med. 2019 Dec 23;14:E1-E4
90. Thille AW, Boissier F, Muller M, Levrat A, Bourdin G, Rosselli S, Frat JP, Coudroy R, Vivier E. [Role of ICU-acquired weakness on extubation outcome among patients at high risk of reintubation.](https://pubmed.ncbi.nlm.nih.gov/32164739/?from_term=Thille+AW&from_cauthor_id=32164739&from_pos=1) Crit Care. 2020 Mar 12;24(1):86.
91. Grassi A, Ferlicca D, Lupieri E, Calcinati S, Francesconi S, Sala V, Ormas V, Chiodaroli E, Abbruzzese C, Curto F, Sanna A, Zambon M, Fumagalli R, Foti G, Bellani G. [Assisted mechanical ventilation promotes recovery of diaphragmatic thickness in critically ill patients: a prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/32164784/?from_term=Grassi+A&from_cauthor_id=32164784&from_pos=1) Crit Care. 2020 Mar 12;24(1):85.
92. McNelly AS, Bear DE, Connolly BA, Arbane G, Allum L, Tarbhai A, Cooper JA, Hopkins PA, Wise MP, Brealey D, Rooney K, Cupitt J, Carr B, Koelfat K, Damink SO, Atherton PJ, Hart N, Montgomery HE, Puthucheary ZA. [Effect of intermittent or continuous feed on muscle wasting in critical illness: A phase II clinical trial.](https://pubmed.ncbi.nlm.nih.gov/32247714/?from_term=McNelly+AS&from_cauthor_id=32247714&from_pos=1) Chest. 2020 Apr 2:S0012-3692(20)30584-5
93. Ridley EJ, Peake SL. [Intermittent Enteral Nutrition as a Sole Intervention Has No Impact on Muscle Wasting in Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/32416161/?from_sort=date&from_term=Ridley+EJ&from_cauthor_id=32416161&from_pos=1) Chest. 2020 May 13:S0012-3692(20)31403-3
94. Witteveen E, Wieske L, Sommers J, Spijkstra JJ, de Waard MC, Endeman H, Rijkenberg S, de Ruijter W, Sleeswijk M, Verhamme C, Schultz MJ, van Schaik IN, Horn J. [Early Prediction of Intensive Care Unit-Acquired Weakness: A Multicenter External Validation Study.](https://pubmed.ncbi.nlm.nih.gov/29716425/?from_sort=date&from_term=Witteveen+E&from_cauthor_id=29716425&from_pos=1) J Intensive Care Med. 2020 Jun;35(6):595-605
95. Van Aerde N, Meersseman P, Debaveye Y, Wilmer A, Gunst J, Casaer MP, Bruyninckx F, Wouters PJ, Gosselink R, Van den Berghe G, Hermans G. [Five-year impact of ICU-acquired neuromuscular complications: a prospective, observational study.](https://pubmed.ncbi.nlm.nih.gov/31970446/) Intensive Care Med. 2020 Jun;46(6):1184-1193.
96. Kilroe SP, Fulford J, Jackman SR, VAN Loon LJC, Wall BT. [Temporal Muscle-specific Disuse Atrophy during One Week of Leg Immobilization.](https://pubmed.ncbi.nlm.nih.gov/31688656/) Med Sci Sports Exerc. 2020 Apr;52(4):944-954
97. Dianti J, Angriman F, Ferreyro BL, Sklar MC, Brochard L, Ferguson ND, Goligher EC. [Association of Mortality with Neuromuscular Blockade Differs According to Baseline Diaphragm Thickness.](https://pubmed.ncbi.nlm.nih.gov/32717150/) Am J Respir Crit Care Med. 2020 Jul 27.
98. Skrzat JM, Carp SJ, Dai T, Lauer R, Hiremath SV, Gaeckle N, Tucker CA. [Use of Surface Electromyography to Measure Muscle Fatigue in Patients in an Acute Care Hospital.](https://pubmed.ncbi.nlm.nih.gov/32157308/) Phys Ther. 2020 Jun 23;100(6):897-906
99. Nakanishi N, Tsutsumi R, Hara K, Takashima T, Nakataki E, Itagaki T, Matsuo M, Oto J, Sakaue H. [Urinary Titin Is a Novel Biomarker for Muscle Atrophy in Nonsurgical Critically Ill Patients: A Two-Center, Prospective Observational Study.](https://pubmed.ncbi.nlm.nih.gov/32706557/)  Crit Care Med. 2020 Jul 16.
100. Meyer-Frießem CH, Malewicz NM, Rath S, Ebel M, Kaisler M, Tegenthoff M, Schildhauer TA, Pogatzki-Zahn EM, Maier C, Zahn PK. [Incidence, Time Course and Influence on Quality of Life of Intensive Care Unit-Acquired Weakness Symptoms in Long-Term Intensive Care Survivors.](https://pubmed.ncbi.nlm.nih.gov/32799703/) J Intensive Care Med. 2020 Aug 17:885066620949178.
101. Parry S et al Evaluating Physical Functioning in Survivors of Critical Illness. Critical Care Medicine. <https://journals.lww.com/ccmjournal/Abstract/9000/Evaluating_Physical_Functioning_in_Survivors_of.95560.aspx>
102. Lee ZY, Ong SP, Ng CC, Yap CSL, Engkasan JP, Barakatun-Nisak MY, Heyland DK, Hasan MS. [Association between ultrasound quadriceps muscle status with premorbid functional status and 60-day mortality in mechanically ventilated critically ill patient: A single-center prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/32919818/) Clin Nutr. 2020 Aug 28:S0261-5614(20)30438-6.
103. Mayer KP, Welle MM, Evans CG, Greenhill BG, Montgomery-Yates AA, Dupont-Versteegden EE, Morris PE, Parry SM. [Muscle Power is Related to Physical Function in Patients Surviving Acute Respiratory Failure: A Prospective Observational Study.](https://pubmed.ncbi.nlm.nih.gov/33189316/) Am J Med Sci. 2020 Oct 3:S0002-9629(20)30430-4
104. Fouré A, Gondin J. [Skeletal Muscle Damage Produced by Electrically Evoked Muscle Contractions.](https://pubmed.ncbi.nlm.nih.gov/33122596/) Exerc Sport Sci Rev. 2020 Oct 28
105. Scott JM, Downs M, Buxton R, Goetchius E, Crowell B, Ploutz-Snyder R, Hackney KJ, Ryder J, English K, Ploutz-Snyder LL. [Disuse-Induced Muscle Loss and Rehabilitation: The National Aeronautics and Space Administration Bed Rest Study.](https://pubmed.ncbi.nlm.nih.gov/33251515/) Crit Care Explor. 2020 Nov 24;2(12):e0269
106. Nedergaard HK, Jensen HI, Olsen HT, Strøm T, Lauridsen JT, Sjøgaard G, Toft P. [Effect of non-sedation on physical function in survivors of critical illness - A substudy of the NONSEDA randomized trial.](https://pubmed.ncbi.nlm.nih.gov/33276294/) J Crit Care. 2020 Nov 24;62:58-64
107. Mayer KP, Welle MM, Evans CG, Greenhill BG, Montgomery-Yates AA, Dupont-Versteegden EE, Morris PE, Parry SM. [Muscle Power is Related to Physical Function in Patients Surviving Acute Respiratory Failure: A Prospective Observational Study.](https://pubmed.ncbi.nlm.nih.gov/33189316/) Am J Med Sci. 2020 Oct 3:S0002-9629(20)30430-4
108. Nakanishi N, Oto J, Tsutsumi R, Akimoto Y, Nakano Y, Nishimura M. [Upper limb muscle atrophy associated with in-hospital mortality and physical function impairments in mechanically ventilated critically ill adults: a two-center prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/33292655/) J Intensive Care. 2020 Nov 23;8(1):87
109. Wu Y, Smits EJ, Window P, Beningfield A, Johnston V,McRae P. [Mobility levels of acute medical patients: Is behavioural mapping comparable to accelerometry?](https://pubmed.ncbi.nlm.nih.gov/33203223/) Clin Rehabil. 2020 Nov 18:269215520970341
110. Blanjean A, Kellens I, Misset B, Joris J, Croisier JL, Rousseau AF. [Quadriceps strength in intensive care unit survivors: Variability and influence of preadmission physical activity.](https://pubmed.ncbi.nlm.nih.gov/33243568/) Aust Crit Care. 2020 Nov 23:S1036-7314(20)30314-3
111. Baldwin CE, Phillips AC, Edney SM, Lewis LK. [Core domains for research on hospital inactivity in acutely ill older adults: a Delphi consensus study.](https://pubmed.ncbi.nlm.nih.gov/33253693/) Arch Phys Med Rehabil. 2020 Nov 27:S0003-9993(20)31258-2
112. Sauron et al Relationship between intensive care unit-acquired weakness, fatigability and fatigue: What role for the central nervous system? Journal of Critical Care
113. Volume 62, April 2021, Pages 101-110, <https://doi.org/10.1016/j.jcrc.2020.11.019>
114. Lambell KJ, Goh GS, Tierney AC, Forsyth A, Nanjayya V, Nyulasi I, King SJ. [Marked losses of computed tomography-derived skeletal muscle area and density over the first month of a critical illness are not associated with energy and protein delivery.](https://pubmed.ncbi.nlm.nih.gov/33341597/) Nutrition. 2020 Nov 19;82:111061
115. Jung C, Choi NJ, Kim WJ, Chun YM, Lee HJ, Kim TH, Pak SR, Lee JH, Hong SK, Kim W. Simplified Diagnosis of Critical Illness Polyneuropathy in Patients with Prolonged Mechanical Ventilation: A Prospective Observational Cohort Study. J Clin Med. 2020 Dec 13;9(12):4029 <https://pubmed.ncbi.nlm.nih.gov/33322090/>
116. Urner M, Mitsakakis N, Vorona S, Chen L, Sklar MC, Dres M, Rubenfeld GD, Brochard LJ, Ferguson ND, Fan E, Goligher EC. [Identifying Patients at Risk for Diaphragm Atrophy During Mechanical Ventilation Using Routinely Available Clinical Data.](https://pubmed.ncbi.nlm.nih.gov/33293364/)
117. Respir Care. 2020 Dec 8:respcare.08223
118. Mackney J, Harrold M, Jenkins S, Fehlberg R, Thomas L, Havill K, Jacques A, Hill K. [Survivors of Acute Lung Injury Have Greater Impairments in Strength and Exercise Capacity Than Survivors of Other Critical Illnesses as Measured Shortly After ICU Discharge.](https://pubmed.ncbi.nlm.nih.gov/33334223/) J Intensive Care Med. 2020 Dec 17:885066620981899
119. Young D, Kudchadkar SR, Friedman M, Lavezza A, Kumble S, Daley K, Flanagan E, Hoyer E. [Using Systematic Functional Measurements in the Acute Hospital Setting to Combat the Immobility Harm.](https://pubmed.ncbi.nlm.nih.gov/33373600/) Arch Phys Med Rehabil. 2020 Dec 26:S0003-9993(20)31340-X
120. Kirk AG, Behm KJ, Ksimmel LA, Ekegren CL. [Levels of physical activity and sedentary behaviour during and after hospitalisation: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/33347891/) Arch Phys Med Rehabil. 2020 Dec 18:S0003-9993(20)31320-4.
121. Özsoy İ, Özcan Kahraman B, Kahraman T, Tanriverdİ A, Acar S, Özpelİt E, ŞentÜrk B, Akdeniz B, Savci S. [Assessment of psychometric properties, cross-cultural adaptation, and translation of the Turkish version of ICU Mobility Scale.](https://pubmed.ncbi.nlm.nih.gov/33421968/) Turk J Med Sci. 2021 Jan 10.
122. Mendes RMG, Nunes ML, Sousa MCC, Gonçalves RBR, Fernandes PN, Gomes AJO. [Validation of the ICU Mobility Scale for Nursing Use: Portuguese Multicentric Observational Study.](https://pubmed.ncbi.nlm.nih.gov/33334844/) J Nurs Meas. 2020 Dec 17:JNM-D-19-00062
123. Bear DE, MacGowan L, Elstad M, Puthucheary Z, Connolly B, Wright R, Hart N, Harridge S, Whelan K, Barrett NA, Camporota L. [Relationship Between Skeletal Muscle Area and Density and Clinical Outcome in Adults Receiving Venovenous Extracorporeal Membrane Oxygenation.](https://pubmed.ncbi.nlm.nih.gov/33497166/) Crit Care Med. 2021 Jan 11
124. Wu et al Current practice and barriers to ICU-acquired weakness assessment: a cross-sectional survey. Physiotheray 2020 <https://doi.org/10.1016/j.physio.2021.01.002>
125. Raurell-Torredà M, Arias-Rivera S, Martí JD, Frade-Mera MJ, Zaragoza-García I, Gallart E, Velasco-Sanz TR, San José-Arribas A, Blazquez-Martínez E; MOviPre group. [Care and treatments related to intensive care unit-acquired muscle weakness: A cohort study.](https://pubmed.ncbi.nlm.nih.gov/33663950/) Aust Crit Care. 2021 Mar 1:S1036-7314(20)30353-2
126. Ong C, Lee JH, Wong JJM, Leow MKS, Puthucheary ZA. [Skeletal Muscle Changes, Function, and Health-Related Quality of Life in Survivors of Pediatric Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/33861558/) Crit Care Med. 2021 Apr 2.
127. Mörgeli R, Wollersheim T, Engelhardt LJ, Grunow JJ, Lachmann G, Carbon NM, Koch S, Spies C, Weber-Carstens S. [Critical illness myopathy precedes hyperglycaemia and high glucose variability.](https://pubmed.ncbi.nlm.nih.gov/33592497/) J Crit Care. 2021 Jun;63:32-39
128. Zhang Z, Wang G, Wu Y, Guo J, Ding N, Jiang B, Wei H, Li B, Yue W, Tian J. [Chinesisation, adaptation and validation of the Chelsea Critical Care Physical Assessment Tool in critically ill patients: a cross-sectional observational study.](https://pubmed.ncbi.nlm.nih.gov/33837104/) BMJ Open. 2021 Apr 9;11(4):e045550
129. Eggmann S, Verra ML, Stefanicki V, Kindler A, Seyler D, Hilfiker R, Schefold JC, Bastiaenen CHG, Zante B. [German version of the Chelsea Critical Care Physical Assessment Tool (CPAx-GE): translation, cross-cultural adaptation, validity, and reliability.](https://pubmed.ncbi.nlm.nih.gov/33874842/) Disabil Rehabil. 2021 Apr 19:1-10
130. Hiser S, Chung CR, Toonstra A, Friedman LA, Colantuoni E, Hoyer E, Needham DM. [Inter-rater reliability of the Johns Hopkins Highest Level of Mobility Scale (JH-HLM) in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/32811787/) Braz J Phys Ther. 2021 May-Jun;25(3):352-355.
131. Fazio S, Doroy A, Da Marto N, Taylor S, Anderson N, Young HM, Adams JY. [Quantifying Mobility in the ICU: Comparison of Electronic Health Record Documentation and Accelerometer-Based Sensors to Clinician-Annotated Video.](https://pubmed.ncbi.nlm.nih.gov/32426733/) Crit Care Explor. 2020 Apr 29;2(4):e0091
132. Moonen HPFX, Van Zanten ARH. [Bioelectric impedance analysis for body composition measurement and other potential clinical applications in critical illness.](https://pubmed.ncbi.nlm.nih.gov/33967207/) Curr Opin Crit Care. 2021 May 6. doi: 10.1097/MCC.0000000000000840
133. Iwakura M, Okura K, Kubota M, Sugawara K, Kawagoshi A, Takahashi H, Shioya T. [Estimation of minimal clinically important difference for quadriceps and inspiratory muscle strength in older outpatients with chronic obstructive pulmonary disease: a prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/33981526/) Phys Ther Res. 2020 Oct 12;24(1):35-42.
134. Fetterplace K, Corlette L, Abdelhamid YA, Presneill JJ, Paris MT, Stella D, Mourtzakis M, MacIsaac C, Deane AM. [Assessment of muscle mass using ultrasound with minimal versus maximal pressure compared with computed tomography in critically ill adult patients.](https://pubmed.ncbi.nlm.nih.gov/33246863/) Aust Crit Care. 2021 Jul;34(4):303-310
135. Cox MC, Booth M, Ghita G, Wang Z, Gardner A, Hawkins RB, Darden DB, Leeuwenburgh C, Moldawer LL, Moore FA, Efron PA, Anton S, Brakenridge SC. [The impact of sarcopenia and acute muscle mass loss on long-term outcomes in critically ill patients with intra-abdominal sepsis.](https://pubmed.ncbi.nlm.nih.gov/34196134/) J Cachexia Sarcopenia Muscle. 2021 Jun 30
136. Lee ZY, Yap CSL, Hasan MS, Engkasan JP, Barakatun-Nisak MY, Day AG, Patel JJ, Heyland DK. [The effect of higher versus lower protein delivery in critically ill patients: a systematic review and meta-analysis of randomized controlled trials.](https://pubmed.ncbi.nlm.nih.gov/34301303/) Crit Care. 2021 Jul 23;25(1):260.
137. Goossens C, Weckx R, Derde S, Vander Perre S, Derese I, Van Veldhoven PP, Ghesquière B, Van den Berghe G, Langouche L. [Altered cholesterol homeostasis in critical illness-induced muscle weakness: effect of exogenous 3-hydroxybutyrate.](https://pubmed.ncbi.nlm.nih.gov/34274000/) Crit Care. 2021 Jul 17;25(1):252
138. Page A, Flower L, Prowle J, Puthucheary Z. [Novel methods to identify and measure catabolism.](https://pubmed.ncbi.nlm.nih.gov/34184647/) Curr Opin Crit Care. 2021 Aug 1;27(4):361-366
139. Raurell-Torredà M, Arias-Rivera S, Martí JD, Frade-Mera MJ, Zaragoza-García I, Gallart E, Velasco-Sanz TR, San José-Arribas A, Blazquez-Martínez E; MOviPre group. [Care and treatments related to intensive care unit-acquired muscle weakness: A cohort study.](https://pubmed.ncbi.nlm.nih.gov/33663950/) Aust Crit Care. 2021 Sep;34(5):435-445
140. Cottereau G, Messika J, Megarbane B, Guérin L, da Silva D, Bornstain C, Santos M, Ricard JD, Sztrymf B. [Handgrip strength to predict extubation outcome: a prospective multicenter trial.](https://pubmed.ncbi.nlm.nih.gov/34601639/) Ann Intensive Care. 2021 Oct 2;11(1):144
141. González-Seguel F, Pinto-Concha JJ, Ríos-Castro F, Silva-Gutiérrez A, Camus-Molina A, Mayer KP, Parry SM. [Evaluating a Muscle Ultrasound Education Program: Theoretical Knowledge, Hands-on Skills, Reliability, and Satisfaction of Critical Care Physiotherapists.](https://pubmed.ncbi.nlm.nih.gov/34589692/) Arch Rehabil Res Clin Transl. 2021 Jul 13;3(3):100142
142. Fuest KE, Lorenz M, Grunow JJ, Weiss B, Mörgeli R, Finkenzeller S, Bogdanski R, Heim M, Kapfer B, Kriescher S, Lingg C, Martin J, Ulm B, Jungwirth B, Blobner M, Schaller SJ. [The Functional Trajectory in Frail Compared With Non-frail Critically Ill Patients During the Hospital Stay.](https://pubmed.ncbi.nlm.nih.gov/34805218/) Front Med (Lausanne). 2021 Nov 4;8:748812
143. Whitlock KC, Mandala M, Bishop KL, Moll V, Sharp JJ, Krishnan S. [Lower AM-PAC "6-Clicks" Basic Mobility Score Predicts Discharge to a Postacute Care Facility among Patients in Cardiac Intensive Care Units.](https://pubmed.ncbi.nlm.nih.gov/34723327/) Phys Ther. 2021 Oct 29:pzab252
144. Astrup K, Corner E, Van Tulder M, Sørensen L. [Reliability and responsiveness of the Danish version of The Chelsea Critical Care Physical Assessment tool (CPAx).](https://pubmed.ncbi.nlm.nih.gov/34784835/) Physiother Theory Pract. 2021 Nov 17:1-7.
145. Rousseau AF, Kellens I, Dardenne N, Misset B, Croisier JL. [Physical capacities assessment in critically ill patients: An exploratory study.](https://pubmed.ncbi.nlm.nih.gov/34903433/) Aust Crit Care. 2021 Dec 10:S1036-7314(21)00169-7.
146. Eggmann S, Verra ML, Stefanicki V, Kindler A, Schefold JC, Zante B, Bastiaenen CHG. [Predictive validity of the Chelsea Critical Care Physical Assessment tool (CPAx) in critically ill, mechanically ventilated adults: a prospective clinimetric study.](https://pubmed.ncbi.nlm.nih.gov/34994664/) Disabil Rehabil. 2022 Jan 7:1-6
147. Dos Reis NF, Figueiredo FCXS, Biscaro RRM, Lunardelli EB, Maurici R. [Psychometric Properties of the Barthel Index Used at Intensive Care Unit Discharge.](https://pubmed.ncbi.nlm.nih.gov/34972844/) Am J Crit Care. 2022 Jan 1;31(1):65-72
148. Wu G, Soo A, Ronksley P, Holroyd-Leduc J, Bagshaw SM, Wu Q, Quan H, Stelfox HT. [A Multicenter Cohort Study of Falls Among Patients Admitted to the ICU.](https://pubmed.ncbi.nlm.nih.gov/34995212/) Crit Care Med. 2022 Jan 7.
149. Ohbe, H., Goto, T., Nakamura, K., Matsui, H., & Yasunaga, H. (2022). [Development and validation of early prediction models for new-onset functional impairment at hospital discharge of ICU admission.](https://doi.org/10.1007/s00134-022-06688-z) *Intensive care medicine*, 10.1007/s00134-022-06688-z. Advance online publication.
150. Pearson, S. D., Lin, J., Stutz, M. R., Lecompte-Osorio, P., Pohlman, A. S., Wolfe, K. S., Hall, J. B., Kress, J. P., & Patel, B. K. (2022). [Immediate Effect of Mechanical Ventilation Mode and Sedative Infusion on Measured Diaphragm Thickness](https://doi.org/10.1513/AnnalsATS.202111-1280OC). *Annals of the American Thoracic Society*, 10.1513/AnnalsATS.202111-1280OC. Advance online publication.
151. Johnson, J. K., Lapin, B., Bethoux, F., Skolaris, A., Katzan, I., & Stilphen, M. (2022). [Patient Versus Clinician Proxy Reliability of the AM-PAC "6-Clicks" Basic Mobility and Daily Activity Short Forms](https://doi.org/10.1093/ptj/pzac035). *Physical therapy*, pzac035. Advance online publication.
152. Kangalgil M, Ulusoy H, Turan S, Oncu K. [Association between skeletal muscle changes, anthropometric measurements, and clinical outcomes in critically ill trauma and surgical patients: A prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/35594361/) Nutr Clin Pract. 2022 May 20
153. Chapple LS, Kouw IWK, Summers MJ, Weinel LM, Gluck S, Raith E, Slobodian P, Soenen S, Deane AM, van Loon LJC, Chapman MJ. [Muscle Protein Synthesis Following Protein Administration in Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/35584344/) Am J Respir Crit Care Med. 2022 May 18
154. Thrush A, Steenbergen E. [Clinical properties of the 6-clicks and Functional Status Score for the ICU in a hospital in the United Arab Emirates.](https://pubmed.ncbi.nlm.nih.gov/35613651/) Arch Phys Med Rehabil. 2022 May 22:S0003-9993(22)00362-8
155. González-Seguel F et al. [Uninterrupted Actigraphy Recording to Quantify Physical Activity and Sedentary Behaviors in Mechanically Ventilated Adults: A Feasibility Prospective Observational Study](https://journals.lww.com/jacpt/fulltext/9900/uninterrupted_actigraphy_recording_to_quantify.7.aspx). Journal of Acute Care Physical Therapy: May 18, 2022
156. Friedrich S, Teja B, Latronico N, Berger J, Muse S, Waak K, Fassbender P, Azimaraghi O, Eikermann M, Wongtangman K; SICU Optimal Mobilization Team (SOMT) Group. [Subjective Assessment of Motor Function by the Bedside Nurses in Mechanically Ventilated Surgical Intensive Care Unit Patients Predicts Tracheostomy.](https://pubmed.ncbi.nlm.nih.gov/35695208/) J Intensive Care Med. 2022 Jun 12:8850666221107839
157. Ohbe et al. [Development and validation of early prediction models for new-onset functional impairment at hospital discharge of ICU admission](https://link.springer.com/article/10.1007/s00134-022-06688-z). Intensive Care Medicine volume 48, pages 679–689 (2022)
158. Grunow JJ, Reiher K, Carbon NM, Engelhardt LJ, Mai K, Koch S, Schefold JC, Z'Graggen W, Schaller SJ, Fielitz J, Spranger J, Weber-Carstens S, Wollersheim T. [Muscular myostatin gene expression and plasma concentrations are decreased in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/35922829/) Crit Care. 2022 Aug 3;26(1):237
159. Klawitter F, Oppitz MC, Goettel N, Berger MM, Hodgson C, Weber-Carstens S, Schaller SJ, Ehler J. [A Global Survey on Diagnostic, Therapeutic and Preventive Strategies in Intensive Care Unit-Acquired Weakness.](https://pubmed.ncbi.nlm.nih.gov/36013535/) Medicina (Kaunas). 2022 Aug 8;58(8):1068
160. Forgiarini Júnior LA, Fontoura BLD, Kobylinski DR, Forgiarini SGI, Maldaner V. [Brazilian version of the Critical Care Functional Rehabilitation Outcome Measure: translation, cross-cultural adaptation and evaluation of clinimetric properties.](https://pubmed.ncbi.nlm.nih.gov/35946658/) Rev Bras Ter Intensiva. 2022 Apr-Jun;34(2):272-278
161. Paolo F, Valentina G, Silvia C, Tommaso P, Elena C, Martin D, Marini John J, Davide C. [The possible predictive value of muscle ultrasound in the diagnosis of ICUAW in long-term critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/35797827/) J Crit Care. 2022 Oct;71:154104.
162. Chapple LS, Summers MJ, Weinel LM, Lange K, Yang WH, Deane AM, Chapman MJ; TARGET Investigators for the Australia and New Zealand Intensive Care Society Clinical Trials Group. [Muscle size, strength, and physical function in response to augmented calorie delivery: A TARGET sub-study.](https://pubmed.ncbi.nlm.nih.gov/36058058/) J Crit Care. 2022 Sep 1;72:154140
163. Fuest KE, Lanz H, Schulz J, Ulm B, Bennett VA, Grunow JJ, Weiss B, Blobner M, Schaller SJ. [Comparison of Different Ultrasound Methods to Assess Changes in Muscle Mass in Critically ill Patients.](https://pubmed.ncbi.nlm.nih.gov/36227022/) J Intensive Care Med. 2022 Oct 13:8850666221132246
164. Hiser S, Urbanek J, Young DL, McLaughlin KH, Colantuoni E, Brotman DJ, Needham DM, Hoyer E. [Improving patient selection for use of consumer grade physical activity monitors in the hospital.](https://pubmed.ncbi.nlm.nih.gov/36183578/) Braz J Phys Ther. 2022 Sep 24;26(5):100447
165. Sato T, Tanaka S, Akazawa C, Tsuda Y, Teraguchi S, Kai S, Takeda C, Ohsumi A, Nakajima D, Date H. [Provider-Documented Dyspnea in Intensive Care Unit After Lung Transplantation.](https://pubmed.ncbi.nlm.nih.gov/36180255/) Transplant Proc. 2022 Sep 28:S0041-1345(22)00581-4
166. Naz İ, Turgut B, Ediboglu O, Kirakli C. [Clinimetric properties of the Turkish version of the De-Morton Mobility Index (DEMMI) in intensive care unit survivors - a cross-sectional observational study.](https://pubmed.ncbi.nlm.nih.gov/36263947/) Disabil Rehabil. 2022 Oct 20:1-7.
167. de Carvalho DA, [Upper limb function of individuals hospitalized in intensive care: A 6-month cohort study.](https://pubmed.ncbi.nlm.nih.gov/36332353/) Malaguti C, Cabral LF, Oliveira CC, Annoni R, José A. Heart Lung. 2022 Oct 29;57:283-289
168. Smuder AJ, Levine S, Powers SK. [Critical Illness Myopathy Alters Diaphragm Neuromuscular Junction Protein and Gene Expression.](https://pubmed.ncbi.nlm.nih.gov/36264747/) Am J Respir Crit Care Med. 2022 Oct 20
169. Nakanishi N, Ono Y, Miyazaki Y, Moriyama N, Fujioka K, Yamashita K, Inoue S, Kotani J. [Sepsis causes neutrophil infiltration in muscle leading to muscle atrophy and weakness in mice.](https://pubmed.ncbi.nlm.nih.gov/36389802/) Front Immunol. 2022 Oct 31;13:950646
170. Ribeiro EOS, Gosselink R, Moura LEDS, Correia RF, Leite WS, Araújo MDGR, Andrade AD, Brandão DC, Campos SL. [Agreement between two methods for assessment of maximal inspiratory pressure in patients weaning from mechanical ventilation.](https://pubmed.ncbi.nlm.nih.gov/36330731/) Acute Crit Care. 2022 Oct 27.
171. Nawata K, Nakanishi N, Inoue S, Liu K, Nozoe M, Ono Y, Yamada I, Katsukawa H, Kotani J. [Current practice and barriers in the implementation of ultrasound-based assessment of muscle mass in Japan: A nationwide, web-based cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/36327311/) PLoS One. 2022 Nov 3;17(11):e0276855
172. Heming N, Carlier R, Prigent H, Mekki A, Jousset C, Lofaso F, Ambrosi X, Bounab R, Maxime V, Mansart A, Crenn P, Moine P, Foltzer F, Cuenoud B, Konz T, Corthesy J, Beaumont M, Hartweg M, Roessle C, Preiser JC, Breuillé D, Annane D. [Effect of an enteral amino acid blend on muscle and gut functionality in critically ill patients: a proof-of-concept randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/36397118/) Crit Care. 2022 Nov 17;26(1):358
173. Thrush A, Steenbergen E. [Clinical Properties of the 6-Clicks and Functional Status Score for the ICU in a Hospital in the United Arab Emirates.](https://pubmed.ncbi.nlm.nih.gov/35613651/) Arch Phys Med Rehabil. 2022 Dec;103(12):2404-2409
174. Meys R, Janssen SMJ, Franssen FME, Vaes AW, Stoffels AAF, van Hees HWH, van den Borst B, Klijn PH, Burtin C, van 't Hul AJ, Spruit MA. [Test-retest reliability, construct validity and determinants of 6-minute walk test performance in adult patients with asthma.](https://pubmed.ncbi.nlm.nih.gov/36470816/)  Pulmonology. 2022 Dec 2:S2531-0437(22)00257-4
175. Wang YT, Harrison CA, Skinner EH, Haines KJ, Holdsworth C, Lang JK, Hibbert E, Scott D, Eynon N, Tiruvoipati R, French CJ, Stepto NK, Bates S, Walton KL, Crozier TM, Haines TP. [Activin A level is associated with physical function in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/36517331/) Aust Crit Care. 2022 Dec 12:S1036-7314(22)00235-1
176. Ozdemir M, Bomkamp MP, Hyatt HW, Smuder AJ, Powers SK. [Intensive Care Unit Acquired Weakness Is Associated with Rapid Changes to Skeletal Muscle Proteostasis.](https://pubmed.ncbi.nlm.nih.gov/36552769/) Cells. 2022 Dec 11;11(24):4005
177. Moutchia J, McClelland RL, Al-Naamani N, Appleby DH, Blank K, Grinnan D, Holmes JH, Mathai SC, Minhas J, Ventetuolo CE, Zamanian RT, Kawut SM. [Minimal Clinically Important Difference in the Six-Minute Walk Distance for Patients with Pulmonary Arterial Hypertension.](https://pubmed.ncbi.nlm.nih.gov/36629737/) Am J Respir Crit Care Med. 2023 Jan 11
178. Nickels MR, Blythe R, White N, Ali A, Aitken LM, Heyland DK, McPhail SM. [Predictors of acute muscle loss in the intensive care unit: A secondary analysis of an in-bed cycling trial for critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/36863951/) Aust Crit Care. 2023 Feb 28:S1036-7314(23)00001-2
179. Elmberg et al. [Reference equations for breathlessness during incremental cycle exercise testing](https://openres.ersjournals.com/content/early/2023/01/05/23120541.00566-2022). RJ Open Research 2023; DOI: 10.1183/23120541.00566-2022
180. O'Brien ME, Zou RH, Hyre N, Leader JK, Fuhrman CR, Sciurba FC, Nouraie M, Bon J. [CT pectoralis muscle area is associated with DXA lean mass and correlates with emphysema progression in a tobacco-exposed cohort.](https://pubmed.ncbi.nlm.nih.gov/34853157/) Thorax. 2023 Apr;78(4):394-401
181. Major M, van Egmond M, Dettling-Ihnenfeldt D, Ramaekers S, Engelbert R, van der Schaaf M. [Course of recovery of respiratory muscle strength and its associations with exercise capacity and handgrip strength: A prospective cohort study among survivors of critical illness.](https://pubmed.ncbi.nlm.nih.gov/37053226/) PLoS One. 2023 Apr 13;18(4):e0284097.
182. Kenji Nawa R, Daros Dos Santos T, Albiero Real A, Corrêa Matheus S, Tatsch Ximenes M, Machado Cardoso D, Martins de Albuquerque I. [Relationship between Perme ICU Mobility Score and length of stay in patients after cardiac surgery.](https://pubmed.ncbi.nlm.nih.gov/37152522/) Colomb Med (Cali). 2022 Jul 30;53(3):e2005179
183. Potter KM, Dunn H, Krupp A, Mueller M, Newman S, Girard TD, Miller S. [Identifying Comorbid Subtypes of Patients With Acute Respiratory Failure.](https://pubmed.ncbi.nlm.nih.gov/37391366/) Am J Crit Care. 2023 Jul 1;32(4):294-301
184. Valverde Montoro D, Rosa Camacho V, Artacho González L, Camacho Alonso JM. [Thigh ultrasound monitoring identifies muscle atrophy in mechanically ventilated pediatric patients.](https://pubmed.ncbi.nlm.nih.gov/37782351/) Eur J Pediatr. 2023 Oct 2
185. Lista-Paz A, Langer D, Barral-Fernández M, et al. [Maximal Respiratory Pressure Reference Equations in Healthy Adults and Cut-off Points for Defining Respiratory Muscle Weakness.](https://pubmed.ncbi.nlm.nih.gov/37839949/) Arch Bronconeumol. 2023 Sep 29:S0300-2896(23)00304-6
186. Bellissimo CA, Morris IS, Wong J, Goligher EC. [Measuring Diaphragm Thickness and Function Using Point-of-Care Ultrasound.](https://pubmed.ncbi.nlm.nih.gov/37982511/) J Vis Exp. 2023 Nov 3;(201).
187. Peper KK, Aasmann A, Jensen ER, Haddadin S. [Real-Time-Capable Muscle Force Estimation for Monitoring Robotic Rehabilitation Therapy in the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/38082800/) Annu Int Conf IEEE Eng Med Biol Soc. 2023 Jul;2023:1-6
188. Kenji Nawa R, Luiz Ferreira De Camillis M, Buttignol M, Machado Kutchak F, Chaves Pacheco E, Rodrigues Gonçalves LH, Correa Garcia LM, Tavares Timenetsky K, Forgiarini LA. [Clinimetric properties of the Perme Intensive Care Unit Mobility Score -a multicenter study for minimum important difference and responsiveness analysis.](https://pubmed.ncbi.nlm.nih.gov/38089826/) Colomb Med (Cali). 2023 Sep 25;54(3):e2005580
189. Wilkinson D, Gallagher IJ, McNelly A, Bear DE, Hart N, Montgomery HE, Le Guennec A, Conte MR, Francis T, Harridge SDR, Atherton PJ, Puthucheary ZA. [The metabolic effects of intermittent versus continuous feeding in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/37945671/) Sci Rep. 2023 Nov 9;13(1):19508
190. Haylett R, Grant J, Williams MA, Gustafson O. [Does the level of mobility on ICU discharge impact post-ICU outcomes? A retrospective analysis.](https://pubmed.ncbi.nlm.nih.gov/38293804/) Disabil Rehabil. 2024 Jan 31:1-6
191. Robertson L, Newman J, Clayton S, Ferguson M, Pepke-Zaba J, Cannon J, Sheares K, Taboada D, Bunclark K, Armstrong I, Ferrer Mallol E, Davies EH, Toshner M; National Cohort Study of Idiopathic and Heritable PAH Collaboration; UniPHy Clinical Trials Network. [The Digital 1-Minute Walk Test: A New Patient-centered Cardiorespiratory Endpoint.](https://pubmed.ncbi.nlm.nih.gov/38206760/) Am J Respir Crit Care Med. 2024 Jan 11
192. Vilarinho et al [Reference values for the 1-minute sit-to-stand and 5 times sit-to-stand tests to assess functional capacity: a cross-sectional study](https://doi.org/10.1016/j.physio.2024.01.004). Physiotherapy Jan 2024
193. Chandhanayingyong C, Adulkasem N, Asavamongkolkul A, Chotiyarnwong P, Vanitcharoenkul E, Laohaprasitiporn P, Soparat K, Unnanuntana A. [Establishing Normative Values for Performance-Based Tests in Older Thai Adults: A Nationwide Cross-Sectional Study.](https://pubmed.ncbi.nlm.nih.gov/38367833/) Arch Phys Med Rehabil. 2024 Feb 15:S0003-9993(24)00807-4.
194. Poddighe D, Van Hollebeke M, Choudhary YQ, Campos DR, Schaeffer MR, Verbakel JY, Hermans G, Gosselink R, Langer D. [Accuracy of respiratory muscle assessments to predict weaning outcomes: a systematic review and comparative meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38454487/) Crit Care. 2024 Mar 7;28(1):70.
195. Kirk B, Cawthon PM, Arai H, et al. & Global Leadership Initiative in Sarcopenia (GLIS) group. [The Conceptual Definition of Sarcopenia: Delphi Consensus from the Global Leadership Initiative in Sarcopenia (GLIS).](https://pubmed.ncbi.nlm.nih.gov/38520141/) Age Ageing. 2024 Mar 1;53(3):afae052
196. Trivedi P, Patel S, Edwards G, Jenkins T, Man WD, Nolan CM. [Five-Repetition Sit-to-Stand Test: Responsiveness and Minimal Important Difference in Idiopathic Pulmonary Fibrosis.](https://pubmed.ncbi.nlm.nih.gov/37847730/) Ann Am Thorac Soc. 2024 Apr;21(4):577-584
197. Rollinson TC, Connolly B, Denehy L, Hepworth G, Berlowitz DJ, Berney S. [Ultrasound-derived rates of muscle wasting in the intensive care unit and in the post-intensive care ward for patients with critical illness: Post hoc analysis of an international, multicentre randomised controlled trial of early rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/38834392/) Aust Crit Care. 2024 Jun 3:S1036-7314(24)00076-6
198. Palakshappa JA, Batt JAE, Bodine SC, Connolly BA, Doles J, Falvey JR, Ferrante LE, Files DC, Harhay MO, Harrell K, Hippensteel JA, Iwashyna TJ, Jackson JC, Lane-Fall MB, Monje M, Moss M, Needham DM, Semler MW, Lahiri S, Larsson L, Sevin CM, Sharshar T, Singer B, Stevens T, Taylor SP, Gomez CR, Zhou G, Girard TD, Hough CL. [Tackling Brain and Muscle Dysfunction in Acute Respiratory Distress Syndrome Survivors: NHLBI Workshop Report.](https://pubmed.ncbi.nlm.nih.gov/38477657/) Am J Respir Crit Care Med. 2024 Jun 1;209(11):1304-1313
199. Liu K, Hamagami T, Sugiyasu N, Fujizuka K, Kawauchi A, Yamada S, Ogura T, Hirata N, Tani T, Taito S, Ota K, McWilliams D, Katsukawa H, Kotani T. [Association between changes in disease severity and physical function after surviving a critical illness: A multicentre retrospective observational study.](https://pubmed.ncbi.nlm.nih.gov/38797581/) Aust Crit Care. 2024 May 25:S1036-7314(24)00081-X.
200. Yoshinaga R, Yamada N, Hanada M, Ishimatsu Y, Kozu R. [Pre-Admission Predictors of Walking Independence in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/38866416/) Respir Care. 2024 Jun 12:respcare.11777.
201. Mirsajadi A, Erickson D, Alias S, Froese L, Singh Sainbhi A, Gomez A, Majumdar R, Herath I, Wilson M, Zarychanski R, Zeiler FA, Mendelson AA; Microvasclar Monitoring in Circulatory Shock and Sepsis (MiMICSS) Investigators and the Canadian Critical Care Translational Biology Group. [Microvascular Autoregulation in Skeletal Muscle Using Near-Infrared Spectroscopy and Derivation of Optimal Mean Arterial Pressure in the ICU: Pilot Study and Comparison With Cerebral Near-Infrared Spectroscopy.](https://pubmed.ncbi.nlm.nih.gov/38904977/) Crit Care Explor. 2024 Jun 21;6(7):e1111
202. Siao SF, Wang TG, Ku SC, Wei YC, Chen CC. [Inability to Sit-to-Stand in Medical ICUs Survivors: When and Why We Should Care.](https://pubmed.ncbi.nlm.nih.gov/39258981/) Crit Care Med. 2024 Sep 11
203. Viner Smith E, Summers MJ, Asser I, Louis R, Lange K, Ridley EJ, Chapple LS. [Nutrition intake, muscle thickness, and recovery outcomes for critically ill patients requiring non-invasive forms of respiratory support: A prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/39174383/) Aust Crit Care. 2024 Aug 21:S1036-7314(24)00207-8
204. Schmidbauer ML, Putz T, Gehri L, Ratkovic L, Maskos A, Zibold J, Bauchmüller J, Imhof S, Weig T, Wuehr M, Dimitriadis K. [Accelerometer-derived movement features as predictive biomarkers for muscle atrophy in neurocritical care: a prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/39217360/) Crit Care. 2024 Aug 31;28(1):288
205. De Bruyn L, Téblick A, Van Oudenhove T, Vander Perre S, Derese I, Pauwels L, Derde S, De Vlieger G, Van den Berghe G, Langouche L. [Glucocorticoid treatment increases cholesterol availability during critical illness: effect on adrenal and muscle function.](https://pubmed.ncbi.nlm.nih.gov/39238038/) Crit Care. 2024 Sep 5;28(1):295
206. Lees et al. [Sceletal muscle](https://www.criticalcare.theclinics.com/article/S0749-0704(24)00084-8/abstract?dgcid=raven_jbs_aip_email). Critical Care Clinics (2024), in press
207. Samuel GS, Swee DS. [Use of testosterone replacement therapy in the rehabilitation of patients with intensive care unit-associated weakness and hospital-associated deconditioning: the Singapore General Hospital rehabilitation experience.](https://pubmed.ncbi.nlm.nih.gov/36751836/) Singapore Med J. 2024 Nov 1;65(11):607-613

## Reviews

1. Leijten FS, Harinck-de Weerd JE, Poortvliet DC, de Weerd AW. [The role of polyneuropathy in motor convalescence after prolonged mechanical ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/7563512) JAMA. 1995 Oct 18;274(15):1221-5
2. Maramattom BV, Wijdicks EF. Acute neuromuscular weakness in the intensive care unit. Crit Care Med. 2006 Nov;34(11):2835-41
3. Hough CL, Needham DM. [The role of future longitudinal studies in ICU survivors: understanding determinants and pathophysiology of weakness and neuromuscular dysfunction. C](http://www.ncbi.nlm.nih.gov/pubmed/17762224)urr Opin Crit Care. 2007 Oct;13(5):489-96
4. Stevens RD, Dowdy DW, Michaels RK et al. [Neuromuscular dysfunction acquired in critical illness: a systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/17639340)  Intensive Care Med 2007; 33:1876-1891
5. Brower RG: [Consequences of bed rest.](http://www.ncbi.nlm.nih.gov/pubmed/20046130) Crit Care Med 2009 Vol. 37, No. 10 (Suppl.): 422-428.
6. Stevens RD, Marshall SA, Cornblath DR, Hoke A, Needham DM, de Jonghe B, Ali NA, Sharshar T. [A framework for diagnosing and classifying intensive care unit-acquired weakness.](http://www.ncbi.nlm.nih.gov/pubmed/20046114) Crit Care Med. 2009 Oct;37(10 Suppl):S299-308.
7. Lacomis D. [Neuromuscular disorders in critically ill patients: review and update.](http://www.ncbi.nlm.nih.gov/pubmed/22361518) J Clin Neuromuscul Dis. 2011 Jun;12(4):197-218.
8. Judemann K, Lunz D, Zausig YA, Graf BM, Zink W. [Intensive care unit-acquired weakness in the critically ill : critical illness polyneuropathy and critical illness myopathy]. Der Anaesthesist. 2011;60(10):887-901.
9. Bloch S, Polkey MI, Griffiths M, Kemp P. Molecular mechanisms of intensive care unit-acquired weakness. The European respiratory journal. 2012;39(4):1000-11.
10. Lee CM, Fan E. ICU-acquired weakness: what is preventing its rehabilitation in critically ill patients? BMC medicine. 2012;10:115.
11. Dos Santos CC, Batt J. ICU-acquired weakness: mechanisms of disability. Current opinion in critical care. 2012;18(5):509-17.
12. Batt J, dos Santos CC, Cameron JI, Herridge MS. [Intensive care unit-acquired weakness: clinical phenotypes and molecular mechanisms.](http://www.ncbi.nlm.nih.gov/pubmed/23204256) Am J Respir Crit Care Med. 2013 Feb 1;187(3):238-46.
13. Mohamed A, Ryan MM. Neuromuscular complications of intensive care. Handbook of clinical neurology. 2013;113:1481-3.
14. Koshy K, Zochodne DW. Neuromuscular complications of critical illness. Handbook of clinical neurology. 2013;115:759-80.
15. Lacomis D. Electrophysiology of neuromuscular disorders in critical illness. Muscle & nerve. 2013;47(3):452-63.
16. Kress JP, Hall JB. [ICU-acquired weakness and recovery from critical illness.](http://www.ncbi.nlm.nih.gov/pubmed/24758618) N Engl J Med. 2014 Apr 24;370(17):1626-35.
17. Argov Z, Latronico N. Neuromuscular complications in intensive care patients. Handbook of clinical neurology. 2014;121:1673-85.
18. Appleton RTD, Kinsella J, Quasim T. [The incidence of intensive care unit-acquired weakness syndromes: A systematic review](http://inc.sagepub.com/content/early/2014/12/17/1751143714563016.abstract) Journal of the Intensive Care Society 1751143714563016, first published on December 18, 2014 doi:10.1177/1751143714563016
19. Mehrholz J, Pohl M, Kugler J, Burridge J, Mückel S, Elsner B. [Physical rehabilitation for critical illness myopathy and neuropathy.](http://www.ncbi.nlm.nih.gov/pubmed/25737049) Cochrane Database Syst Rev. 2015 Mar 4;3:CD010942.
20. Hermans G, Van den Berghe G. [Clinical review: intensive care unit acquired weakness.](http://www.ncbi.nlm.nih.gov/pubmed/26242743) Crit Care. 2015 Aug 5;19:274.
21. Mehrholz J, Pohl M, Kugler J, Burridge J, Mückel S, Elsner B. [Physical rehabilitation for critical illness myopathy and neuropathy. An abridged version of Cochrane Systematic Review.](http://www.ncbi.nlm.nih.gov/pubmed/26158919) Eur J Phys Rehabil Med. 2015 Jul 9
22. Falvey JR, Mangione KK, Stevens-Lapsley JE. [Rethinking Hospital-Associated Deconditioning: Proposed Paradigm Shift.](http://www.ncbi.nlm.nih.gov/pubmed/25908526) Phys Ther. 2015 Sep;95(9):1307-15.
23. Bunnell A, Ney J, Gellhorn A, Hough CL. [Quantitative neuromuscular ultrasound in intensive care unit-acquired weakness: A systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/26044880) Muscle Nerve. 2015 Nov;52(5):701-8.
24. Quittan M. [Aspects of physical medicine and rehabilitation in the treatment of deconditioned patients in the acute care setting: the role of skeletal muscle.](http://www.ncbi.nlm.nih.gov/pubmed/26758982) Wien Med Wochenschr. 2016 Feb;166(1-2):28-38.
25. Hodgson CL, Fan E. Intensive care unit acquired weakness. Anaest ICM 17 (1): 24-26. <http://dx.doi.org/10.1016/j.mpaic.2015.10.004>
26. Shepherd SJ, Newman R, Brett SJ, Griffith DM; Enhancing Rehabilitation After Critical Illness Programme Study Investigators. [Pharmacological Therapy for the Prevention and Treatment of Weakness After Critical Illness: A Systematic Review.](http://www.ncbi.nlm.nih.gov/pubmed/26958749) Crit Care Med. 2016 Mar 8.
27. Jolley SE, Bunnell A, Hough CL. [Intensive Care Unit Acquired Weakness.](http://www.ncbi.nlm.nih.gov/pubmed/27063347) Chest. 2016 Apr 7.
28. Ong C, Lee JH, Leow MK, Puthucheary ZA. [Functional Outcomes and Physical Impairments in Pediatric Critical Care Survivors: A Scoping Review.](http://www.ncbi.nlm.nih.gov/pubmed/27030932) Pediatr Crit Care Med. 2016 May;17(5):e247-59.
29. Price DR, Mikkelsen ME, Umscheid CA, Armstrong EJ. [Neuromuscular Blocking Agents and Neuromuscular Dysfunction Acquired in Critical Illness: A Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/27513545) Crit Care Med. 2016 Nov;44(11):2070-2078.
30. Hodgson CL, Tipping CJ. [Physiotherapy management of intensive care unit-acquired weakness.](https://www.ncbi.nlm.nih.gov/pubmed/27989729) J Physiother. 2017 Jan;63(1):4-10.
31. Wilcox SR. [Corticosteroids and neuromuscular blockers in development of critical illness neuromuscular abnormalities: A historical review.](https://www.ncbi.nlm.nih.gov/pubmed/27736708) J Crit Care. 2017 Feb;37:149-155.
32. Batt J, Mathur S, Katzberg HD. [Mechanism of ICU-acquired weakness: muscle contractility in critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/28255615) Intensive Care Med. 2017 Apr;43(4):584-586
33. Batt J, Herridge M, Dos Santos C. [Mechanism of ICU-acquired weakness: skeletal muscle loss in critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/28283700) Intensive Care Med. 2017 Mar 10
34. Stevens RD, Zink EK. [Inflammatory Signatures in ICU-Acquired Weakness.](https://www.ncbi.nlm.nih.gov/pubmed/28509734) Crit Care Med. 2017 Jun;45(6):1098-1100
35. Friedrich O, Reid MB, Van den Berghe G, Vanhorebeek I, Hermans G, Rich MM, Larsson L. [The Sick and the Weak: Neuropathies/Myopathies in the Critically Ill.](https://www.ncbi.nlm.nih.gov/pubmed/26133937) Physiol Rev. 2015 Jul;95(3):1025-109
36. Zorowitz RD. [ICU-Acquired Weakness: A Rehabilitation Perspective of Diagnosis, Treatment, and Functional Management.](https://www.ncbi.nlm.nih.gov/pubmed/27312737) Chest. 2016 Oct;150(4):966-971
37. Latronico N, Herridge M, Hopkins RO, Angus D, Hart N, Hermans G, Iwashyna T, Arabi Y, Citerio G, Wesley Ely E, Hall J, Mehta S, Puntillo K, Van den Hoeven J, Wunsch H, Cook D, Dos Santos C, Rubenfeld G, Vincent JL, Van den Berghe G, Azoulay E, Needham DM. [The ICM research agenda on intensive care unit-acquired weakness.](https://www.ncbi.nlm.nih.gov/pubmed/28289812) Intensive Care Med. 2017 Mar 13.
38. Horn J, Hermans G. [Intensive care unit-acquired weakness.](https://www.ncbi.nlm.nih.gov/pubmed/28190434) Handb Clin Neurol. 2017;141:531-543.
39. Meduri GU, Schwingshackl A, Hermans G. [Prolonged Glucocorticoid Treatment in ARDS: Impact on Intensive Care Unit-Acquired Weakness.](https://www.ncbi.nlm.nih.gov/pubmed/27532030) Front Pediatr. 2016 Aug 2;4:69.
40. Maestraggi Q, Lebas B, Clere-Jehl R, Ludes PO, Chamaraux-Tran TN, Schneider F, Diemunsch P, Geny B, Pottecher J. [Skeletal Muscle and Lymphocyte Mitochondrial Dysfunctions in Septic Shock Trigger ICU-Acquired Weakness and Sepsis-Induced Immunoparalysis.](https://www.ncbi.nlm.nih.gov/pubmed/28589148) Biomed Res Int. 2017;2017:7897325.
41. Sánchez Solana L, Goñi Bilbao I, Ruiz García P, Díaz Agea JL, Leal Costa C.[Acquired neuromuscular dysfunction in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/29958844) Enferm Intensiva. 2018 Jul - Sep;29(3):128-137
42. Yang T, Li Z, Jiang L, Xi X. [Corticosteroid use and intensive care unit-acquired weakness: a systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30075789) Crit Care. 2018 Aug 3;22(1):187
43. Dhar S, Oropello J, Morris PE. [Assessing skeletal muscle dysfunction in sepsis utilizing muscle ultrasound in search for pathways to improve ICU survivor's functional outcomes.](https://www.ncbi.nlm.nih.gov/pubmed/29983224) J Crit Care. 2018 Oct;47:322-323
44. Parotto M, Batt J, Herridge M. [The Pathophysiology of Neuromuscular Dysfunction in Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/30223993) Crit Care Clin. 2018 Oct;34(4):549-556
45. Latronico N, Friedrich O. [Electrophysiological investigations of peripheral nerves and muscles: a method for looking at cell dysfunction in the critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/30696473) Crit Care. 2019 Jan 29;23(1):33
46. Piva S, Fagoni N, Latronico N. [Intensive care unit-acquired weakness: unanswered questions and targets for future research.](https://www.ncbi.nlm.nih.gov/pubmed/31069055) F1000Res. 2019 Apr 17;8. pii: F1000 Faculty Rev-508
47. Yang T, Li Z, Jiang L, Wang Y, Xi X. [Risk factors for intensive care unit-acquired weakness: A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29845614) Acta Neurol Scand. 2018 Aug;138(2):104-114
48. van Wagenberg L, Witteveen E, Wieske L, Horn J. [Causes of Mortality in ICU-Acquired Weakness.](https://www.ncbi.nlm.nih.gov/pubmed/29241382) J Intensive Care Med. 2020 Mar;35(3):293-296
49. Liu M, Luo J, Zhou J, Zhu X. [Intervention effect of neuromuscular electrical stimulation on ICU acquired weakness: A meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32685621/) Int J Nurs Sci. 2020 Mar 10;7(2):228-237.
50. Schwab KE, To AQ, Chang J, Ronish B, Needham DM, Martin JL, Kamdar BB. [Actigraphy to Measure Physical Activity in the Intensive Care Unit: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/31331220/) J Intensive Care Med. 2020 Nov;35(11):1323-1331.
51. Davoudi A, Ozrazgat-Baslanti T, Tighe PJ, Bihorac A, Rashidi P. [Pain and Physical Activity Association in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/33019268/) Annu Int Conf IEEE Eng Med Biol Soc. 2020 Jul;2020:5696-5699
52. Takaoka, A., Heels-Ansdell, D., Cook, D.J. *et al.* The Association Between Frailty and Short-Term Outcomes in an Intensive Care Unit Rehabilitation Trial: An Exploratory Analysis. *J Frailty Aging* (2020). <https://doi.org/10.14283/jfa.2020.52>
53. Anekwe DE, Biswas S, Bussières A, Spahija J. [Early rehabilitation reduces the likelihood of developing intensive care unit-acquired weakness: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32135387/) Physiotherapy. 2020 Jun;107:1-10
54. Bobos P, Nazari G, Lu Z, MacDermid JC. [Measurement Properties of the Hand Grip Strength Assessment: A Systematic Review With Meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/31730754/) Arch Phys Med Rehabil. 2020 Mar;101(3):553-565
55. Files DC, Liu C, Pereyra A, Wang ZM, Aggarwal NR, D'Alessio FR, Garibaldi BT, Mock JR, Singer BD, Feng X, Yammani RR, Zhang T, Lee AL, Philpott S, Lussier S, Purcell L, Chou J, Seeds M, King LS, Morris PE, Delbono O. [Therapeutic exercise attenuates neutrophilic lung injury and skeletal muscle wasting.](https://pubmed.ncbi.nlm.nih.gov/25761888/) Sci Transl Med. 2015 Mar 11;7(278):278ra32.
56. Koo B. K. (2022). [Assessment of Muscle Quantity, Quality and Function](https://doi.org/10.7570/jomes22025). *Journal of obesity & metabolic syndrome*, *31*(1), 9–16.
57. Teixeira JP, Mayer KP, Griffin BR, George N, Jenkins N, Pal CA, González-Seguel F, Neyra JA. [Intensive Care Unit-Acquired Weakness in Patients With Acute Kidney Injury: A Contemporary Review.](https://pubmed.ncbi.nlm.nih.gov/36332719/) Am J Kidney Dis. 2022 Nov 1:S0272-6386(22)00998-2
58. Fazzini B, Märkl T, Costas C, Blobner M, Schaller SJ, Prowle J, Puthucheary Z, Wackerhage H. [The rate and assessment of muscle wasting during critical illness: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/36597123/) Crit Care. 2023 Jan 3;27(1):2
59. Bellaver P, Schaeffer AF, Leitao CB, Rech TH, Nedel WL. [Association between neuromuscular blocking agents and the development of intensive care unit-acquired weakness (ICU-AW): A systematic review with meta-analysis and trial sequential analysis.](https://pubmed.ncbi.nlm.nih.gov/36804373/) Anaesth Crit Care Pain Med. 2023 Feb 16;42(3):101202
60. Damluji AA, Alfaraidhy M, AlHajri N, Rohant NN, Kumar M, Al Malouf C, Bahrainy S, Ji Kwak M, Batchelor WB, Forman DE, Rich MW, Kirkpatrick J, Krishnaswami A, Alexander KP, Gerstenblith G, Cawthon P, deFilippi CR, Goyal P. [Sarcopenia and Cardiovascular Diseases.](https://pubmed.ncbi.nlm.nih.gov/37186680/) Circulation. 2023 May 16;147(20):1534-1553
61. Kellnar A, Strüven A, Franke D, Brunner S, Stremmel C. [Short-term effects of mechanical ventilation in critically ill patients on body composition.](https://pubmed.ncbi.nlm.nih.gov/36800811/) Minerva Anestesiol. 2023 Sep;89(9):836-837
62. Moumneh MB, Jamil Y, Kalra K, Ijaz N, Campbell G, Kochar A, Nanna MG, van Diepen S, Damluji AA. [Frailty in the Cardiac Intensive Care Unit: Assessment and Impact.](https://pubmed.ncbi.nlm.nih.gov/38525951/) Eur Heart J Acute Cardiovasc Care. 2024 Mar 25:zuae039
63. Formenti P, Sabbatini G, Brenna G, Galimberti A, Mattei L, Umbrello M, Iezzi M, Uldedaj E, Pezzi A, Gotti M. [Foot drop in critically ill patients: a narrative review of an elusive complication with intricate implications for recovery and rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/38551615/) Minerva Anestesiol. 2024 Jun;90(6):539-549
64. Fuentes-Aspe R, Gutierrez-Arias R, González-Seguel F, Marzuca-Nassr GN, Torres-Castro R, Najum-Flores J, Seron P. [Which factors are associated with acquired weakness in the ICU? An overview of systematic reviews and meta-analyses.](https://pubmed.ncbi.nlm.nih.gov/39232808/) J Intensive Care. 2024 Sep 5;12(1):33.
65. Binda F, Gambazza S, Marelli F, Rossi V, Lusignani M, Grasselli G. [Upper limb peripheral nerve injuries in patients with ARDS requiring prone positioning: A systematic review with proportion meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/39126976/) Intensive Crit Care Nurs. 2024 Dec;85:103766

## Guidelines

1. Fan E, Cheek F, Chlan L, Gosselink R, Hart N, Herridge MS, et al. An official American Thoracic Society Clinical Practice guideline: the diagnosis of intensive care unit-acquired weakness in adults. American journal of respiratory and critical care medicine. 2014;190(12):1437-46.

# Neuromuscular Electrical Stimulation

## Research Studies

1. Bouletreau P, Patricot MC, Saudin F, Guiraud M, Mathian B. [Effects of intermittent electrical stimulations on muscle catabolism in intensive care patients](http://www.ncbi.nlm.nih.gov/pubmed/3501482). JPEN J Parenter Enteral Nutr. 1987 Nov-Dec;11(6):552-5.
2. Zanotti E, Felicetti G, Maini M, Fracchia C. [Peripheral muscle strength training in bed-bound patients with COPD receiving mechanical ventilation: effect of electrical stimulation](http://www.ncbi.nlm.nih.gov/pubmed/12853536). Chest. 2003 Jul;124(1):292-6. [full free text](http://chestjournal.chestpubs.org/content/124/1/292.long)
3. Gerovasili V, Stefanidis K, Vitzilaios K, Karatzanos E, Politis P, Koroneos A, Chatzimichail A, Routsi C, Roussos C, Nanas S. [Electrical muscle stimulation preserves the muscle mass of critically ill patients: a randomized study](http://www.ncbi.nlm.nih.gov/pubmed/19814793). Crit Care. 2009;13(5):R161. Epub 2009 Oct 8. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784391/?tool=pubmed)
4. Gerovasili V, Tripodaki E, Karatzanos E, Pitsolis T, Markaki V, Zervakis D, Routsi C, Roussos C, Nanas S. [Short-term systemic effect of electrical muscle stimulation in critically ill patients](http://www.ncbi.nlm.nih.gov/pubmed/19710290). Chest. 2009 Nov;136(5):1249-56. Epub 2009 Aug 26. [free full text](http://chestjournal.chestpubs.org/content/136/5/1249.long)
5. Gruther W, Kainberger F, Fialka-Moser V, Paternostro-Sluga T, Quittan M, Spiss C, Crevenna R. [Effects of neuromuscular electrical stimulation on muscle layer thickness of knee extensor muscles in intensive care unit patients: a pilot study](http://www.ncbi.nlm.nih.gov/pubmed/20549166). J Rehabil Med. 2010 Jun;42(6):593-7. [free full text](http://www.medicaljournals.se/jrm/content/?doi=10.2340/16501977-0564&html=1)
6. Routsi C, Gerovasili V, Vasileiadis I, Karatzanos E, Pitsolis T, Tripodaki E, Markaki V, Zervakis D, Nanas S. [Electrical muscle stimulation prevents critical illness polyneuromyopathy: a randomized parallel intervention trial](http://www.ncbi.nlm.nih.gov/pubmed/20426834). Crit Care. 2010;14(2):R74. Epub 2010 Apr 28. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2887197/?tool=pubmed)
7. Poulsen JB, Møller K, Jensen CV, Weisdorf S, Kehlet H, Perner A. [Effect of transcutaneous electrical muscle stimulation on muscle volume in patients with septic shock](http://www.ncbi.nlm.nih.gov/pubmed/21150583). Crit Care Med. 2011 Mar;39(3):456-61.
8. Bierbrauer J, Koch S, Olbricht C, Hamati J, Lodka D, Schneider J, Luther-Schröder A, Kleber C, Faust K, Wiesener S, Spies CD, Spranger J, Spuler S, Fielitz J, Weber-Carstens S. [Early type II fiber atrophy in intensive care unit patients with nonexcitable muscle membrane.](http://www.ncbi.nlm.nih.gov/pubmed/21963579) Crit Care Med. 2012 Feb;40(2):647-50.
9. Fan E. [Critical illness neuromyopathy and the role of physical therapy and rehabilitation in critically ill patients.](http://www.ncbi.nlm.nih.gov/pubmed/22663968) Respir Care. 2012 Jun;57(6):933-44; discussion 944-6
10. Kho ME, Truong AD, Brower RG, Palmer JB, Fan E, Zanni JM, Ciesla ND, Feldman DR, Korupolu R, Needham DM. [Neuromuscular electrical stimulation for ICU-acquired weakness: Protocol and methodological implications for a randomized, sham-controlled phase II trial](http://www.ncbi.nlm.nih.gov/pubmed/22421734). Physical Therapy Journal. 2012. In press (epublished)
11. Parry SM, Berney S, Koopman R, Bryant A, El-Ansary D, Puthucheary Z, Hart N, Warrillow S, Denehy L. [Early rehabilitation in critical care (eRiCC): functional electrical stimulation with cycling protocol for a randomised controlled trial.](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3467594/?tool=myncbi) BMJ Open. 2012;2(5)
12. Weber-Carstens S, Schneider J, Wollersheim T, Assmann A, Bierbrauer J, Marg A, Al Hasani H, Chadt A, Wenzel K, Koch S, Fielitz J, Kleber C, Faust K, Mai K, Spies CD, Luft FC, Boschmann M, Spranger J, Spuler S. [Critical illness myopathy and GLUT4: significance of insulin and muscle contraction.](http://www.ncbi.nlm.nih.gov/pubmed/23239154) Am J Respir Crit Care Med. 2013 Feb 15;187(4):387-96.
13. J Segers, G Hermans, F Bruyninckx, G Meyfroidt, D Langer, and R Gosselink [Feasibility of neuromuscular electrical stimulation in critically ill patients](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3643226/). Crit Care. 2013; 17(Suppl 2): P535.
14. Martin AD, Joseph AM, Beaver TM, Smith BK, Martin TD, Berg K, Hess PJ, Deoghare HV, Leeuwenburgh C. [Effect of intermittent phrenic nerve stimulation during cardiothoracic surgery on mitochondrial respiration in the human diaphragm](http://www.ncbi.nlm.nih.gov/pubmed/24126442). Crit Care Med. 2014 Feb;42(2):e152-6.
15. Kho ME, Truong AD, Zanni JM, Ciesla ND, Brower RG, Palmer JB, Needham DM. [Neuromuscular electrical stimulation in mechanically ventilated patients: A randomized, sham-controlled pilot trial with blinded outcome assessment.](http://www.ncbi.nlm.nih.gov/pubmed/25307979) J Crit Care. 2014 Sep 22.
16. Dirks ML, Hansen D, Van Assche A, Dendale P, Van Loon LJ. [Neuromuscular electrical stimulation prevents muscle wasting in critically ill comatose patients.](http://www.ncbi.nlm.nih.gov/pubmed/25296344) Clin Sci (Lond). 2015 Mar;128(6):357-65.
17. Iwatsu K, Yamada S, Iida Y, Sampei H, Kobayashi K, Kainuma M, Usui A. [Feasibility of neuromuscular electrical stimulation immediately after cardiovascular surgery.](http://www.ncbi.nlm.nih.gov/pubmed/25218214) Arch Phys Med Rehabil. 2015 Jan;96(1):63-8.
18. Parry SM, El-Ansary D, Cartwright MS, Sarwal A, Berney S, Koopman R, Annoni R, Puthucheary Z, Gordon IR, Morris PE, Denehy L. [Ultrasonography in the intensive care setting can be used to detect changes in the quality and quantity of muscle and is related to muscle strength and function.](http://www.ncbi.nlm.nih.gov/pubmed/26211979) J Crit Care. 2015 Jun 3.
19. Truong AD, Kho ME, Brower RG, Feldman DR, Colantuoni E, Needham DM. [Effects of neuromuscular electrical stimulation on cytokines in peripheral blood for healthy participants: a prospective, single-blinded Study.](http://www.ncbi.nlm.nih.gov/pubmed/26475418) Clin Physiol Funct Imaging. 2015 Oct 16.
20. Maddocks M, Nolan CM, Man WD, Polkey MI, Hart N, Gao W, Rafferty GF, Moxham J, Higginson IJ. [Neuromuscular electrical stimulation to improve exercise capacity in patients with severe COPD: a randomised double-blind, placebo-controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/26701362) Lancet Respir Med. 2016 Jan;4(1):27-36.
21. Fischer A, Spiegl M, Altmann K, Winkler A, Salamon A, Themessl-Huber M, Mouhieddine M, Strasser EM, Schiferer A, Paternostro-Sluga T, Hiesmayr M. [Muscle mass, strength and functional outcomes in critically ill patients after cardiothoracic surgery: does neuromuscular electrical stimulation help? The Catastim 2 randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/26825278) Crit Care. 2016 Jan 29;20(1):30.
22. Stefanou C, Karatzanos E, Mitsiou G, Psarra K, Angelopoulos E, Dimopoulos S, Gerovasili V, Boviatsis E, Routsi C, Nanas S. [Neuromuscular electrical stimulation acutely mobilizes endothelial progenitor cells in critically ill patients with sepsis.](http://www.ncbi.nlm.nih.gov/pubmed/26969168) Ann Intensive Care. 2016 Dec;6(1):21.
23. Silva PE, Babault N, Mazullo JB, de Oliveira TP, Lemos BL, Carvalho VO, Durigan JL. [Safety and feasibility of a neuromuscular electrical stimulation chronaxie-based protocol in critical ill patients: A prospective observational study.](https://www.ncbi.nlm.nih.gov/pubmed/27732921) J Crit Care. 2017 Feb;37:141-148.
24. Dall' Acqua AM, Sachetti A, Santos LJ, Lemos FA, Bianchi T, Naue WS, Dias AS, Sbruzzi G, Vieira SR; MoVe- ICU Group.. [Use of neuromuscular electrical stimulation to preserve the thickness of abdominal and chest muscles of critically ill patients: A randomized clinical trial.](https://www.ncbi.nlm.nih.gov/pubmed/28101565) J Rehabil Med. 2017 Jan 19;49(1):40-48
25. Patsaki I, Gerovasili V, Sidiras G, Karatzanos E, Mitsiou G, Papadopoulos E, Christakou A, Routsi C, Kotanidou A, Nanas S. [Effect of neuromuscular stimulation and individualized rehabilitation on muscle strength in Intensive Care Unit survivors: A randomized trial.](https://www.ncbi.nlm.nih.gov/pubmed/28364678) J Crit Care. 2017 Mar 22;40:76-82.
26. Akar O, Günay E, Sarinc Ulasli S, Ulasli AM, Kacar E, Sariaydin M, Solak Ö, Celik S, Ünlü M. [Efficacy of neuromuscular electrical stimulation in patients with COPD followed in intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/26597394) Clin Respir J. 2017 Nov;11(6):743-750.
27. Lago AF, de Oliveira AS, de Souza HCD, da Silva JS, Basile-Filho A, Gastaldi AC. [The effects of physical therapy with neuromuscular electrical stimulation in patients with septic shock: Study protocol for a randomized cross-over design.](https://www.ncbi.nlm.nih.gov/pubmed/29419665) Medicine (Baltimore). 2018 Feb;97(6):e9736
28. Leite et al. Effects of Neuromuscular Electrical Stimulation of the Quadriceps and Diaphragm in Critically Ill Patients: A Pilot Study. Critical Care Research and Practice
29. Volume 2018, <https://doi.org/10.1155/2018/4298583>
30. Grunow JJ, Goll M, Carbon NM, Liebl ME, Weber-Carstens S, Wollersheim T. [Differential contractile response of critically ill patients to neuromuscular electrical stimulation.](https://www.ncbi.nlm.nih.gov/pubmed/31506074) Crit Care. 2019 Sep 10;23(1):308.
31. Segers J, Vanhorebeek I, Langer D, Charususin N, Wei W, Frickx B, Demeyere I, Clerckx B, Casaer M, Derese I, Derde S, Pauwels L, Van den Berghe G, Hermans G, Gosselink R. [Early neuromuscular electrical stimulation reduces the loss of muscle mass in critically ill patients - A within subject randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/33285371/) J Crit Care. 2020 Nov 28;62:65-71
32. Lago AF, Basile-Filho A, de Oliveira AS, de Souza HCD, Dos Santos DO, Gastaldi AC. [Effects of physical therapy with neuromuscular electrical stimulation in acute and late septic shock patients: A randomised crossover clinical trial.](https://pubmed.ncbi.nlm.nih.gov/35176099/) PLoS One. 2022 Feb 17;17(2):e026406
33. Young DL, Fritz JM, Kean J, Thackeray A, Johnson JK, Dummer D, Passek S, Stilphen M, Beck D, Havrilla S, Hoyer EH, Friedman M, Daley K, Marcus RL. [Key Data Elements for Longitudinal Tracking of Physical Function: A Modified Delphi Consensus Study.](https://pubmed.ncbi.nlm.nih.gov/35079819/) Phys Ther. 2022 Jan 5:pzab279
34. Schujmann DS, Gomes TT, Lunardi AC, Fu C. [Factors associated with functional decline in an intensive care unit: a prospective study on the level of physical activity and clinical factors.](https://pubmed.ncbi.nlm.nih.gov/35081241/) Rev Bras Ter Intensiva. 2022 Jan 24;33(4):565-571
35. **Takino K**, Kameshima M, Asai C, Kawamura I, Tomita S, Sato H, Hirakawa A, Yamada S. [Neuromuscular electrical stimulation after cardiovascular surgery mitigates muscle weakness in older individuals with diabetes.](https://pubmed.ncbi.nlm.nih.gov/35272065/) Ann Phys Rehabil Med. 2022 Mar 7:101659.

## Reviews

1. Maffiuletti NA, Roig M, Karatzanos E, Nanas S. Neuromuscular electrical stimulation for preventing skeletal-muscle weakness and wasting in critically ill patients: a systematic review. BMC Med. 2013 May 23;11:137
2. Parry SM, Berney S, Granger CL, Koopman R, El-Ansary D, Denehy L. [Electrical muscle stimulation in the intensive care setting: a systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/23921276) Crit Care Med. 2013 Oct;41(10):2406-18.
3. Williams N, Flynn M. [A review of the efficacy of neuromuscular electrical stimulation in critically ill patients.](http://www.ncbi.nlm.nih.gov/pubmed/23855510) Physiother Theory Pract. 2014 Jan;30(1):6-11
4. Burke D, Gorman E, Stokes D, Lennon O. [An evaluation of neuromuscular electrical stimulation in critical care using the ICF framework: a systematic review and meta-analysis.](http://www.ncbi.nlm.nih.gov/pubmed/25353646) Clin Respir J. 2016 Jul;10(4):407-20
5. Jones S, Man WD, Gao W, Higginson IJ, Wilcock A, Maddocks M. [Neuromuscular electrical stimulation for muscle weakness in adults with advanced disease.](https://www.ncbi.nlm.nih.gov/pubmed/27748503) Cochrane Database Syst Rev. 2016 Oct 17
6. Zayed Y, Kheiri B, Barbarawi M, Chahine A, Rashdan L, Chintalapati S, Bachuwa G, Al-Sanouri I. [Effects of neuromuscular electrical stimulation in critically ill patients: A systematic review and meta-analysis of randomised controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/31160215) Aust Crit Care. 2020 Mar;33(2):203-210

## Guidelines

1. Nici L, Donner C, Wouters E, Zuwallack R, Ambrosino N, Bourbeau J, Carone M, Celli B, Engelen M, Fahy B, Garvey C, Goldstein R, Gosselink R, Lareau S, MacIntyre N, Maltais F, Morgan M, O'Donnell D, Prefault C, Reardon J, Rochester C, Schols A, Singh S, Troosters T; ATS/ERS Pulmonary Rehabilitation Writing Committee. [American Thoracic Society/European Respiratory Society statement on pulmonary rehabilitation.](http://www.ncbi.nlm.nih.gov/pubmed/16760357) Am J Respir Crit Care Med. 2006
2. Gosselink R, Bott J, Johnson M et al. [Physiotherapy for adult patients with critical illness: Recommendations of the European Society of Intensive Care Medicine Task Force Physiotherapy for Critically Ill Patients](http://www.ncbi.nlm.nih.gov/pubmed/18283429). Intensive Care Med 2008; 34:1188-1199

# Communication, Dysphagia & Nutrition

## Research studies

1. Neumeier AT, Moss M. [We Need an Additional Seat at the Critical Care Multidisciplinary Team Table for our Speech-Language Pathologists](http://www.ncbi.nlm.nih.gov/pubmed/25549027). Ann Am Thorac Soc. 2014 Dec;11(10):1610-1.
2. Brodsky MB, González-Fernández M, Mendez-Tellez PA, Shanholtz C, Palmer JB, Needham DM. [Factors associated with swallowing assessment after oral endotracheal intubation and mechanical ventilation for acute lung injury.](http://www.ncbi.nlm.nih.gov/pubmed/25387319) Ann Am Thorac Soc. 2014 Dec;11(10):1545-52.
3. Suntrup S, Marian T, Schröder JB, Suttrup I, Muhle P, Oelenberg S, Hamacher C, Minnerup J, Warnecke T, Dziewas R. [Electrical pharyngeal stimulation for dysphagia treatment in tracheotomized stroke patients: a randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/26077087) Intensive Care Med. 2015 Sep;41(9):1629-37.
4. Schepens T, Verbrugghe W, Dams K, Corthouts B, Parizel PM, Jorens PG. [The course of diaphragm atrophy in ventilated patients assessed with ultrasound: a longitudinal cohort study.](http://www.ncbi.nlm.nih.gov/pubmed/26639081) Crit Care. 2015 Dec 7;19:422.
5. Scheel R, Pisegna JM, McNally E, Noordzij JP, Langmore SE. [Endoscopic Assessment of Swallowing After Prolonged Intubation in the ICU Setting.](http://www.ncbi.nlm.nih.gov/pubmed/26215724) Ann Otol Rhinol Laryngol. 2016 Jan;125(1):43-52.
6. Deutz NE, Matheson EM, Matarese LE, Luo M, Baggs GE, Nelson JL, Hegazi RA, Tappenden KA, Ziegler TR; NOURISH Study Group. [Readmission and mortality in malnourished, older, hospitalized adults treated with a specialized oral nutritional supplement: A randomized clinical trial.](http://www.ncbi.nlm.nih.gov/pubmed/26797412) Clin Nutr. 2016 Feb;35(1):18-26.
7. Morris LL, Bedon AM, McIntosh E, Whitmer A. [Restoring Speech to Tracheostomy Patients.](http://www.ncbi.nlm.nih.gov/pubmed/26628542) Crit Care Nurse. 2015 Dec;35(6):13-27
8. Malandraki GA, Markaki V, Georgopoulos VC, Psychogios L, Nanas S. [Postextubation Dysphagia in Critical Patients: A First Report From the Largest Step-Down Intensive Care Unit in Greece.](http://www.ncbi.nlm.nih.gov/pubmed/27115679) Am J Speech Lang Pathol. 2016 Apr 26:1-7.
9. See KC, Peng SY, Phua J, Sum CL, Concepcion J. [Nurse-performed screening for postextubation dysphagia: a retrospective cohort study in critically ill medical patients.](https://www.ncbi.nlm.nih.gov/pubmed/27733188) Crit Care. 2016 Oct 12;20(1):326.
10. Ferrie S, Allman-Farinelli M, Daley M, Smith K. [Protein Requirements in the Critically Ill: A Randomized Controlled Trial Using Parenteral Nutrition.](https://www.ncbi.nlm.nih.gov/pubmed/26635305) JPEN J Parenter Enteral Nutr. 2016 Aug;40(6):795-805.
11. Brodsky MB, Huang M, Shanholtz C, Mendez-Tellez PA, Palmer JB, Colantuoni E, Needham DM. [Recovery from Dysphagia Symptoms after Oral Endotracheal Intubation in Acute Respiratory Distress Syndrome Survivors. A 5-Year Longitudinal Study.](https://www.ncbi.nlm.nih.gov/pubmed/27983872) Ann Am Thorac Soc. 2017 Mar;14(3):376-383
12. Thomas S, Sauter W, Starrost U, Pohl M, Mehrholz J. [Regaining water swallowing function in the rehabilitation of critically ill patients with intensive-care-unit acquired muscle weakness.](https://www.ncbi.nlm.nih.gov/pubmed/28325097) Disabil Rehabil. 2017 Mar 21:1-7.
13. Lynch YT, Clark BJ, Macht M, White SD, Taylor H, Wimbish T, Moss M. [The accuracy of the bedside swallowing evaluation for detecting aspiration in survivors of acute respiratory failure.](https://www.ncbi.nlm.nih.gov/pubmed/28259057) J Crit Care. 2017 Feb 15;39:143-148.
14. Allingstrup MJ, Kondrup J, Wiis J, Claudius C, Pedersen UG, Hein-Rasmussen R, Bjerregaard MR, Steensen M, Jensen TH, Lange T, Madsen MB, Møller MH, Perner A. [Early goal-directed nutrition versus standard of care in adult intensive care patients: the single-centre, randomised, outcome assessor-blinded EAT-ICU trial.](https://www.ncbi.nlm.nih.gov/pubmed/28936712) Intensive Care Med. 2017 Sep 22. doi: 10.1007/s00134-017-4880-3.
15. Schefold JC, Berger D, Zürcher P, Lensch M, Perren A, Jakob SM, Parviainen I, Takala J. [Dysphagia in Mechanically Ventilated ICU Patients (DYnAMICS): A Prospective Observational Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29023260) Crit Care Med. 2017 Dec;45(12):2061-2069
16. Martin Sundström Rehal, Felix Liebau, Inga Tjäder, Åke Norberg, Olav Rooyackers, Jan Wernerman [A supplemental intravenous amino acid infusion sustains a positive protein balance for 24 hours in critically ill patients](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5719794/) Crit Care. 2017; 21: 298. Published online 2017 Dec 6.
17. Park HS, Koo JH, Song SH. [Association of Post-extubation Dysphagia With Tongue Weakness and Somatosensory Disturbance in Non-neurologic Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/29354572) Ann Rehabil Med. 2017 Dec;41(6):961-968
18. Johnson KL, Speirs L, Mitchell A, Przybyl H, Anderson D, Manos B, Schaenzer AT, Winchester K. [Validation of a Postextubation Dysphagia Screening Tool for Patients After Prolonged Endotracheal Intubation.](https://www.ncbi.nlm.nih.gov/pubmed/29496764) Am J Crit Care. 2018 Mar;27(2):89-96
19. Brodsky MB, De I, Chilukuri K, Huang M, Palmer JB, Needham DM. [Coordination of Pharyngeal and Laryngeal Swallowing Events During Single Liquid Swallows After Oral Endotracheal Intubation for Patients with Acute Respiratory Distress Syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/29713897) Dysphagia. 2018 Apr 30.
20. Miles A, McLellan N, Machan R, Vokes D, Hunting A, McFarlane M, Holmes J, Lynn K. [Dysphagia and laryngeal pathology in post-surgical cardiothoracic patients.](https://www.ncbi.nlm.nih.gov/pubmed/29454226) J Crit Care. 2018 Jun;45:121-127
21. Marian T, Dünser M, Citerio G, Koköfer A, Dziewas R.[Are intensive care physicians aware of dysphagia? The MADICU survey results.](https://www.ncbi.nlm.nih.gov/pubmed/29737377) Intensive Care Med. 2018 Jun;44(6):973-975
22. Koga Y, Fujita M, Yagi T, Todani M, Nakahara T, Kawamura Y, Kaneda K, Oda Y, Tsuruta R. [Early enteral nutrition is associated with reduced in-hospital mortality from sepsis in patients with sarcopenia.](https://www.ncbi.nlm.nih.gov/pubmed/29990793) J Crit Care. 2018 Oct;47:153-158
23. TARGET Investigators, for the ANZICS Clinical Trials Group, Chapman M, Peake SL, Bellomo R, Davies A, Deane A, Horowitz M, Hurford S, Lange K, Little L, Mackle D, O’Connor S, Presneill J, Ridley E, Williams P, Young P. [Energy-Dense versus Routine Enteral Nutrition in the Critically Ill.](https://www.ncbi.nlm.nih.gov/pubmed/30346225) N Engl J Med. 2018 Nov 8;379(19):1823-1834
24. Jaitovich A, Khan MMHS, Itty R, Chieng H, Dumas C, Nadendla P, Fantauzzi J, Yucel R, Feustel PJ, Judson MA. [ICU Admission Muscle and Fat Mass, Survival, and Disability at Discharge: A Prospective Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/30392790) Chest. 2018 Oct 28. pii: S0012-3692(18)32645-X
25. Thomas S, Sauter W, Starrost U, Pohl M, Mehrholz J. [Regaining water swallowing function in the rehabilitation of critically ill patients with intensive-care-unit acquired muscle weakness.](https://www.ncbi.nlm.nih.gov/pubmed/28325097) Disabil Rehabil. 2018 Jun;40(13):1494-1500
26. Yatabe T, Egi M, Sakaguchi M, Ito T, Inagaki N, Kato H, Kaminohara J, Konishi A, Takahashi M, Tatsumi H, Tobe M, Nakashima I, Nakamoto N, Nishimura T, Nitta M, Nishimura M. [Influence of Nutritional Management and Rehabilitation on Physical Outcome in Japanese Intensive Care Unit Patients: A Multicenter Observational Study.](https://www.ncbi.nlm.nih.gov/pubmed/30541003) Ann Nutr Metab. 2019;74(1):35-43
27. Pandian V, Cole T, Kilonsky D, Holden K, Feller-Kopman DJ, Brower R, Mirski M. [Voice-Related Quality of Life Increases With a Talking Tracheostomy Tube: A Randomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31385620) Laryngoscope. 2019 Aug 6
28. Feng YM, Wan D, Guo R. [The consequence of endotracheal intubation in a 95-years old man for 839 days: A case report.](https://www.ncbi.nlm.nih.gov/pubmed/31374047) Medicine (Baltimore). 2019 Aug;98(31):e16678
29. Deane AM, Little L, Bellomo R, Chapman MJ, Davies AR, Ferrie S, Horowitz M, Hurford S, Lange K, Litton E, Mackle D, O'Connor S, Parker J, Peake SL, Presneill JJ, Ridley EJ, Singh V, van Haren F, Williams P, Young P, Iwashyna TJ; TARGET Investigators and the Australian and New Zealand **Intensive** **Care** Society Clinical Trials Group.
30. [Outcomes Six-Months After 100% or 70% of Enteral Calorie Requirements During Critical Illness (TARGET): A Randomized Controlled Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31904995) Am J Respir Crit **Care** Med. 2020 Jan 6
31. Houzé MH, Deye N, Mateo J, Mégarbane B, Bizouard F, Baud FJ, Payen de la Garanderie D, Vicaut E, Yelnik AP; EVAKIN Study Group. [Predictors of Extubation Failure Related to Aspiration and/or Excessive Upper Airway Secretions.](https://www.ncbi.nlm.nih.gov/pubmed/31744867) Respir Care. 2019 Nov 19
32. Brodsky MB, Nollet JL, Spronk PE, González-Fernández M. [Prevalence, Pathophysiology, Diagnostic Modalities and Treatment Options for Dysphagia in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/32304381/?from_sort=date&from_term=Brodsky+MB&from_cauthor_id=32304381&from_pos=1) Am J Phys Med Rehabil. 2020 Apr 16.
33. Duncan S, Gaughey JM, Fallis R, McAuley DF, Walshe M, Blackwood B. [Interventions for oropharyngeal dysphagia in acute and critical care: a protocol for a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/31747971/) Syst Rev. 2019 Nov 20;8(1):283
34. Zuercher P, Schenk NV, Moret C, Berger D, Abegglen R, Schefold JC. [Risk factors for dysphagia in ICU patients following invasive mechanical ventilation.](https://pubmed.ncbi.nlm.nih.gov/32525018/) Chest. 2020 Jun 7:S0012-3692(20)31646-9
35. Moss M, White SD, Warner H, Dvorkin D, Fink D, Gomez-Taborda S, Higgins C, Krisciunas GP, Levitt JE, McKeehan J, McNally E, Rubio A, Scheel R, Siner JM, Vojnik R, Langmore SE. [Development of an accurate bedside swallowing evaluation decision tree algorithm for detecting aspiration in acute respiratory failure survivors.](https://pubmed.ncbi.nlm.nih.gov/32721404/) Chest. 2020 Jul 25:S0012-3692(20)32076-6.
36. Krisciunas GP, Langmore SE, Gomez-Taborda S, Fink D, Levitt JE, McKeehan J, McNally E, Scheel R, Rubio AC, Siner JM, Vojnik R, Warner H, White SD, Moss M. [The Association Between Endotracheal Tube Size and Aspiration (During Flexible Endoscopic Evaluation of Swallowing) in Acute Respiratory Failure Survivors.](https://pubmed.ncbi.nlm.nih.gov/32804785/)
37. Crit Care Med. 2020 Aug 14
38. Parker F, Brodsky MB, Akst LM, Ali H. [Machine Learning in Laryngoscopy Analysis: A Proof of Concept Observational Study for the Identification of Post-Extubation Ulcerations and Granulomas.](https://pubmed.ncbi.nlm.nih.gov/32795159/) Ann Otol Rhinol Laryngol. 2020 Aug 14:3489420950364
39. Lowery AS, Malenke JA, Bolduan AJ, Shinn J, Wootten CT, Gelbard A. [Early Intervention for the Treatment of Acute Laryngeal Injury After Intubation.](https://pubmed.ncbi.nlm.nih.gov/33507221/) JAMA Otolaryngol Head Neck Surg. 2021 Mar 1;147(3):232-237
40. Plowman EK, Anderson A, York JD, DiBiase L, Vasilopoulos T, Arnaoutakis G, Beaver T, Martin T, Jeng EI. [Dysphagia after cardiac surgery: Prevalence, risk factors, and associated outcomes.](https://pubmed.ncbi.nlm.nih.gov/33814177/) J Thorac Cardiovasc Surg. 2021 Mar 3:S0022-5223(21)00405-0
41. Goldman AR, Pahade JK, Langton-Frost NA, Hodges CA, Taylor AM, Bova G, Azadi JR. [Adapting the modified barium swallow: modifications to improve safety in the setting of airborne respiratory illnesses like COVID-19.](https://pubmed.ncbi.nlm.nih.gov/33772613/) Abdom Radiol (NY). 2021 Mar 27:1-8
42. McInytre M, Doeltgen S, Shao C, Chimunda T. [The incidence and clinical outcomes of postextubation dysphagia in a regional critical care setting.](https://pubmed.ncbi.nlm.nih.gov/34034939/) Aust Crit Care. 2021 May 22:S1036-7314(21)00059-X
43. Zhang W, Gu Q, Gu Y, Zhao Y, Zhu L. [Symptom management to alleviate thirst and dry mouth in critically ill patients: A randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/34119409/) Aust Crit Care. 2021 Jun 9:S1036-7314(21)00057-6
44. O'Connor LR, Morris N, Paratz J. [The safety and efficacy of prolonged use of one-way speaking valves.](https://pubmed.ncbi.nlm.nih.gov/33191118/) Aust Crit Care. 2021 Jul;34(4):319-326.
45. Boggino et al Multidisciplinary management of laryngeal pathology identified in patients with COVID-19 following trans-laryngeal intubation and tracheostomy. 2021. <https://doi.org/10.1177/17511437211034699>
46. Rattanajiajaroen P, Kongpolprom N. [Effects of high flow nasal cannula on the coordination between swallowing and breathing in postextubation patients, a randomized crossover study.](https://pubmed.ncbi.nlm.nih.gov/34666808/) Crit Care. 2021 Oct 19;25(1):365
47. Carbon NM, Engelhardt LJ, Wollersheim T, Grunow JJ, Spies CD, Märdian S, Mai K, Spranger J, Weber-Carstens S. [Impact of protocol-based physiotherapy on insulin sensitivity and peripheral glucose metabolism in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/35075782/) J Cachexia Sarcopenia Muscle. 2022 Jan 24
48. Spronk PE, Spronk LEJ, Egerod I, McGaughey J, McRae J, Rose L, Brodsky MB; DICE study investigators. [Dysphagia in Intensive Care Evaluation (DICE): An International Cross-Sectional Survey.](https://pubmed.ncbi.nlm.nih.gov/35092486/) Dysphagia. 2022 Jan 29
49. Hongo, T., Yamamoto, R., Liu, K., Yaguchi, T., Dote, H., Saito, R., Masuyama, T., Nakatsuka, K., Watanabe, S., Kanaya, T., Yamaguchi, T., Yumoto, T., Naito, H., & Nakao, A. (2022). [Association between timing of speech and language therapy initiation and outcomes among post-extubation dysphagia patients: a multicenter retrospective cohort study](https://doi.org/10.1186/s13054-022-03974-6). *Critical care (London, England)*, *26*(1), 98.
50. Wang J, Chang E, Jiang Y. [Effects of vitamin C stimulation on rehabilitation of dysphagia after stroke: a randomized trial](https://pubmed.ncbi.nlm.nih.gov/35362717/). Eur J Phys Rehabil Med. 2022 Apr 1. doi: 10.23736/S1973-9087.22.07337-3
51. Sugiya R, Higashimoto Y, Shiraishi M, Tamura T, Kimura T, Chiba Y, Nishiyama O, Arizono S, Fukuda K, Tohda Y. [Decreased Tongue Strength is Related to Skeletal Muscle Mass in COPD Patients.](https://pubmed.ncbi.nlm.nih.gov/34036401/) Dysphagia. 2022 Jun;37(3):636-643
52. Zuercher P, Moser M, Waskowski J, Pfortmueller CA, Schefold JC. [Dysphagia Post-Extubation Affects Long-Term Mortality in Mixed Adult ICU Patients-Data From a Large Prospective Observational Study With Systematic Dysphagia Screening.](https://pubmed.ncbi.nlm.nih.gov/35765374/) Crit Care Explor. 2022 Jun 8;4(6):e0714
53. Nielsen AH, Kaldan G, Nielsen BH, Kristensen GJ, Shiv L, Egerod I. [Intensive care professionals' perspectives on dysphagia management: A focus group study.](https://pubmed.ncbi.nlm.nih.gov/35610091/) Aust Crit Care. 2022 May 21
54. Hongo T, Yumoto T, Naito H, Fujiwara T, Kondo J, Nozaki S, Nakao A. [Frequency, associated factors, and associated outcomes of dysphagia following sepsis.](https://pubmed.ncbi.nlm.nih.gov/35851194/) Aust Crit Care. 2022 Jul 15:S1036-7314(22)00089-3
55. Moisey LL, Merriweather JL, Drover JW. [The role of nutrition rehabilitation in the recovery of survivors of critical illness: underrecognized and underappreciated.](https://pubmed.ncbi.nlm.nih.gov/36076215/) Crit Care. 2022 Sep 8;26(1):270
56. Lyons GCE, Summers MJ, Schultz TJ, Lambell K, Ridley EJ, Fetterplace K, Yandell R, Chapple LS. [Protein prescription and delivery practices in critically ill adults: A survey of Australian and New Zealand intensive care dietitians.](https://pubmed.ncbi.nlm.nih.gov/34556388/) Aust Crit Care. 2022 Sep;35(5):543-549
57. Esianor BI, Campbell BR, Casey JD, Du L, Wright A, Steitz B, Semler MW, Gelbard A. [Endotracheal Tube Size in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/35900743/) JAMA Otolaryngol Head Neck Surg. 2022 Sep 1;148(9):849-853
58. Sutt AL, Cornwell PL, Hay K, Fraser JF, Rose L. [Communication Success and Speaking Valve Use in Intensive Care Patients Receiving Mechanical Ventilation.](https://pubmed.ncbi.nlm.nih.gov/36045040/) Am J Crit Care. 2022 Sep 1;31(5):411-415
59. Kuruppu NR, Chaboyer W, Abayadeera A, Ranse K. [Augmentative and alternative communication tools for mechanically ventilated patients in intensive care units: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/36774294/) Aust Crit Care. 2023 Feb 9:S1036-7314(22)00255-7
60. Pisani MA. [Exercise and nutrition in critically ill patients-What is the correct formula?](https://pubmed.ncbi.nlm.nih.gov/36702716/) Heart Lung. 2023 Jan 24:S0147-9563(22)00302-8
61. Freeman-Sanderson A, Hemsley B, Thompson K, Rogers KD, Knowles S, Hammond NE; George Institute for Global Health and the Australian and New Zealand Intensive Care Society Clinical Trials Group. [Dysphagia in adult intensive care patients: Results of a prospective, multicentre binational point prevalence study.](https://pubmed.ncbi.nlm.nih.gov/36868933/) Aust Crit Care. 2023 Mar 1:S1036-7314(23)00008-5
62. Freeman-Sanderson A, Hemsley B, Thompson K, Rogers KD, Knowles S, Hammond NE; George Institute for Global Health and the Australian and New Zealand Intensive Care Society Clinical Trials Group. [Communication functions of adult patients admitted to intensive care: A multicentre, binational point prevalence study.](https://pubmed.ncbi.nlm.nih.gov/37198003/) Aust Crit Care. 2023 May 15:S1036-7314(23)00024-3
63. Troll C, Trapl-Grundschober M, Teuschl Y, Cerrito A, Compte MG, Siegemund M. [A bedside swallowing screen for the identification of post-extubation dysphagia on the intensive care unit - validation of the Gugging Swallowing Screen (GUSS)-ICU.](https://pubmed.ncbi.nlm.nih.gov/37055724/) BMC Anesthesiol. 2023 Apr 13;23(1):122
64. Siao SF, Ku SC, Tseng WH, Wei YC, Chang YC, Hsiao TY, Wang TG, Chen CC. [Effects of a swallowing and oral-care program on resuming oral feeding and reducing pneumonia in patients following endotracheal extubation: a randomized, open-label, controlled trial.](https://pubmed.ncbi.nlm.nih.gov/37438759/) Crit Care. 2023 Jul 12;27(1):283
65. Itai Bendavid I, Assi S, Sasson N, Statlender L, Hellerman M, Fishman G, Singer P, Kagan I. [The EyeControl-Med device, an alternative tool for communication in ventilated critically ill patients: A pilot study examining communication capabilities and delirium.](https://pubmed.ncbi.nlm.nih.gov/37348187/) J Crit Care. 2023 Jun 20;78:154351
66. Egbers PH, Sutt AL, Petersson JE, Bergström L, Sundman E. [High-flow via a tracheostomy tube and speaking valve during weaning from mechanical ventilation and tracheostomy.](https://pubmed.ncbi.nlm.nih.gov/37437910/) Acta Anaesthesiol Scand. 2023 Jul 12
67. Clayton NA, Ward EC, Norman E, Ryan H, Kol MR. [Speech pathology assessment of dysphagia post endotracheal extubation: A service-model evaluation.](https://pubmed.ncbi.nlm.nih.gov/37709658/) Aust Crit Care. 2023 Sep 12:S1036-7314(23)00147-9
68. Suntrup-Krueger S, Labeit B, Marian T, Schröder J, Claus I, Ahring S, Warnecke T, Dziewas R, Muhle P. [Pharyngeal electrical stimulation for postextubation dysphagia in acute stroke: a randomized controlled pilot trial.](https://pubmed.ncbi.nlm.nih.gov/37789340/) Crit Care. 2023 Oct 3;27(1):383
69. Zaga CJ, Papasavva CS, Hepworth G, Freeman-Sanderson A, Happ MB, Hoit JD, McGrath BA, Pandian V, Rose L, Sutt AL, Tuinman PR, Wallace S, Bellomo R, Vogel AP, Berney S. [Development, feasibility testing, and preliminary evaluation of the Communication with an Artificial airway Tool (CAT): Results of the Crit-CAT pilot study.](https://pubmed.ncbi.nlm.nih.gov/37880059/) Aust Crit Care. 2023 Oct 23:S1036-7314(23)00161-3
70. Likar R, Aroyo I, Bangert K, Degen B, Dziewas R, Galvan O, Grundschober MT, Köstenberger M, Muhle P, Schefold JC, Zuercher P. [Management of swallowing disorders in ICU patients - A multinational expert opinion.](https://pubmed.ncbi.nlm.nih.gov/37924574/) J Crit Care. 2024 Feb;79:154447
71. Freeman-Sanderson A, Crisp J, Hodgson CL, Holland AE, Harrold M, Chan T, Tipping CJ. [Prevalence, recovery, and factors associated with dysphagia in an older critically ill trauma cohort: A cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/38097426/) Aust Crit Care. 2023 Dec 13:S1036-7314(23)00185-6
72. Brodsky MB, Friedman LA, Colantuoni E, Pandian V, Vertigan AE, Needham DM, Chan KS. [Instrument adaptation and preliminary validation study of the Laryngeal Hypersensitivity Questionnaire used for assessment of laryngeal symptoms in patients with artificial airways.](https://pubmed.ncbi.nlm.nih.gov/38135588/) Aust Crit Care. 2024 Jan;37(1):138-143
73. Ferguson CE, Hayes K, Tatucu-Babet OA, Lambell KJ, Paul E, Hodgson CL, Ridley EJ. [Nutrition delivery and the relationship with changes in muscle mass in adult patients receiving extracorporeal membrane oxygenation: A retrospective observational study.](https://pubmed.ncbi.nlm.nih.gov/38637220/) Aust Crit Care. 2024 Apr 17:S1036-7314(24)00050-X
74. Elsayed SM, Eltaybani S, Elbiaa MA. [Factors associated with the readiness for oral intake in post-extubated critically ill adult patients: A prospective observational study.](https://pubmed.ncbi.nlm.nih.gov/38895878/) Nurs Crit Care. 2024 Jun 1
75. Freeman-Sanderson A, Brodsky MB, Dale C, Gupta A, Haines K, Happ MB, Hart N, Hemsley B, Istanboulian L, Spronk P, Sullivan R, Sutt AL, Rose L. [A Core Outcome Set for Research Evaluating Interventions to Enable Communication in Patients With an Artificial Airway: An International Delphi Consensus Study (Comm-COS).](https://pubmed.ncbi.nlm.nih.gov/38899947/) Crit Care Med. 2024 Jun 20.
76. Nielsen AH, Winding R, Busk BH, Noe L, Husted B, Kristensen GJ, Svenningsen H, Ovesen T. [Nurse-led dysphagia screening in the intensive care unit - An implementation study.](https://pubmed.ncbi.nlm.nih.gov/39209581/) Aust Crit Care. 2024 Aug 28:S1036-7314(24)00210-8
77. Freeman-Sanderson A, Crisp J, Hodgson CL, Holland AE, Harrold M, Chan T, Tipping CJ. [Prevalence, recovery, and factors associated with dysphagia in an older critically ill trauma cohort: A cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/38097426/) Aust Crit Care. 2024 Nov;37(6):957-963
78. Bach JR, Nair A. [Comparison of the Consequences of Short vs. Long-Term Intubation on Speech and Swallowing.](https://pubmed.ncbi.nlm.nih.gov/39477224/) Am J Phys Med Rehabil. 2024 Oct 31

## Reviews

1. Brodsky MB, Suiter DM, González-Fernández M, Michtalik HJ, Frymark TB, Venediktov R, Schooling T. [Screening accuracy for aspiration using bedside water swallow tests: A systematic review and meta-analysis.](http://www.ncbi.nlm.nih.gov/pubmed/27102184) Chest. 2016 Apr 18.
2. van Zanten AR. [Should We Increase Protein Delivery During Critical Illness?](http://www.ncbi.nlm.nih.gov/pubmed/26838528) JPEN J Parenter Enteral Nutr. 2016 Aug;40(6):756-62
3. Kruser JM, Prescott HC. [Dysphagia after Acute Respiratory Distress Syndrome. Another Lasting Legacy of Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/28248578) Ann Am Thorac Soc. 2017 Mar;14(3):307-308.
4. Brooks M, McLaughlin E, Shields N. [Expiratory muscle strength training improves swallowing and respiratory outcomes in people with dysphagia: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/29090601) Int J Speech Lang Pathol. 2017 Nov 1:1-12
5. Arabi YM, Casaer MP, Chapman M, Heyland DK, Ichai C, Marik PE, Martindale RG, McClave SA, Preiser JC, Reignier J, Rice TW, Van den Berghe G, van Zanten AR, Weijs PJ. [The intensive care medicine research agenda in nutrition and metabolism.](https://www.ncbi.nlm.nih.gov/pubmed/28374096) Intensive Care Med. 2017 Apr 3.
6. Phillips SM, Dickerson RN, Moore FA, Paddon-Jones D, Weijs PJ. [Protein Turnover and Metabolism in the Elderly Intensive Care Unit Patient.](https://www.ncbi.nlm.nih.gov/pubmed/28388378) Nutr Clin Pract. 2017 Apr;32(1\_suppl):112S-120S.
7. Van Dyck L, Casaer MP. [Nutrition in the ICU: sometimes route does matter.](https://www.ncbi.nlm.nih.gov/pubmed/29128299) Lancet. 2017 Nov 8. pii: S0140-6736(17)32815-5.
8. Di Girolamo FG, Situlin R, Biolo G. [What factors influence protein synthesis and degradation in critical illness?](https://www.ncbi.nlm.nih.gov/pubmed/28002075) Curr Opin Clin Nutr Metab Care. 2017 Mar;20(2):124-130
9. Brodsky MB, Levy MJ, Jedlanek E, Pandian V, Blackford B, Price C, Cole G, Hillel AT, Best SR, Akst LM. [Laryngeal Injury and Upper Airway Symptoms After Oral Endotracheal Intubation With Mechanical Ventilation During Critical Care: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/30096101) Crit Care Med. 2018 Aug 9
10. Gunst J, Van den Berghe G. [Intensive Care **Nutrition** and Post-Intensive Care Recovery.](https://www.ncbi.nlm.nih.gov/pubmed/30223995) Crit Care Clin. 2018 Oct;34(4):573-583
11. Parry SM, Chapple LS, Mourtzakis M. [Exploring the Potential Effectiveness of Combining Optimal Nutrition With Electrical Stimulation to Maintain Muscle Health in Critical Illness: A Narrative Review.](https://www.ncbi.nlm.nih.gov/pubmed/30358183) Nutr Clin Pract. 2018 Dec;33(6):772-789
12. Zuercher P, Moret CS, Dziewas R, Schefold JC. [Dysphagia in the intensive care unit: epidemiology, mechanisms, and clinical management.](https://www.ncbi.nlm.nih.gov/pubmed/30922363) Crit Care. 2019 Mar 28;23(1):103
13. Kou K, Momosaki R, Miyazaki S, Wakabayashi H, Shamoto H. [Impact of Nutrition Therapy and Rehabilitation on Acute and Critical Illness: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/31548485) J UOEH. 2019;41(3):303-315
14. Liao CD, Chen HC, Huang SW, Liou TH. [The Role of Muscle Mass Gain Following Protein Supplementation Plus Exercise Therapy in Older Adults with Sarcopenia and Frailty Risks: A Systematic Review and Meta-Regression Analysis of Randomized Trials.](https://www.ncbi.nlm.nih.gov/pubmed/31349606) Nutrients. 2019 Jul 25;11(8)
15. McRae, J., Montgomery, E., Garstang, Z., & Cleary, E. (2019). The role of speech and language therapists in the intensive care unit. *Journal of the Intensive Care Society*. <https://doi.org/10.1177/1751143719875687>
16. Brodsky MB, Pandian V, Needham DM. [Post-extubation dysphagia: a problem needing multidisciplinary efforts.](https://www.ncbi.nlm.nih.gov/pubmed/31768568) Intensive Care Med. 2019 Nov 25
17. Arabi YM, Al-Dorzi HM, Sadat M. [Protein intake and outcome in critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/31743123) Curr Opin Clin Nutr Metab Care. 2020 Jan;23(1):51-58
18. Morrissette KM, Stapleton RD. [Mounting Clarity on Enteral Feeding in Critically Ill Patients.](https://www.ncbi.nlm.nih.gov/pubmed/32011904) Am J Respir Crit Care Med. 2020 Feb 3
19. Zuercher P, Dziewas R, Schefold JC. [Dysphagia in the intensive care unit: a (multidisciplinary) call to action.](https://www.ncbi.nlm.nih.gov/pubmed/31996956) Intensive Care Med. 2020 Jan 29
20. Istanboulian L, Rose L, Gorospe F, Yunusova Y, Dale CM. [Barriers to and facilitators for the use of augmentative and alternative communication and voice restorative strategies for adults with an advanced airway in the intensive care unit: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/32163752/?from_term=Barriers+to+and+facilitators+for+the+use+of+augmentative+and+alternative+communication+and+voice+restorative+strategies+for+adults+with+an+advanced+airway+in+the+intensive+care+unit%3A+A+scoping+review&from_pos=1) J Crit Care. 2020 Feb 24;57:168-176.
21. McIntyre M, Doeltgen S, Dalton N, Koppa M, Chimunda T. [Post-extubation dysphagia incidence in critically ill patients: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32739246/) Aust Crit Care. 2020 Jul 29:S1036-7314(20)30232-0
22. Zaga CJ, Cigognini B, Vogel AP, Berney S. Outcome measurement tools for communication, voice and speech intelligibility in the ICU and their clinimetric properties: A systematic review. *Journal of the Intensive Care Society*. November 2020. doi:[10.1177/1751143720963757](https://doi.org/10.1177/1751143720963757)
23. Choi J, Tate JA. [Evidence-Based Communication with Critically Ill Older Adults.](https://pubmed.ncbi.nlm.nih.gov/33190773/)  Crit Care Clin. 2021 Jan;37(1):233-249
24. Skoretz SA, Anger N, Wellman L, Takai O, Empey A. [A Systematic Review of Tracheostomy Modifications and Swallowing in Adults.](https://pubmed.ncbi.nlm.nih.gov/32377977/) Dysphagia. 2020 Dec;35(6):935-947
25. Brodsky MB, Akst LM, Jedlanek E, Pandian V, Blackford B, Price C, Cole G, Mendez-Tellez PA, Hillel AT, Best SR, Levy MJ. [Laryngeal Injury and Upper Airway Symptoms After Endotracheal Intubation During Surgery: A Systematic Review and Meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33196479/) Anesth Analg. 2020 Nov 11
26. McIntyre M, Chimunda T, Koppa M, Dalton N, Reinders H, Doeltgen S. [Risk Factors for Postextubation Dysphagia: A Systematic Review and Meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33320371/) Laryngoscope. 2020 Dec 15
27. Huston MN, Naunheim MR. [Acute Laryngeal Injury After Intubation-Does Wait and See Mean Wait and Scar?](https://pubmed.ncbi.nlm.nih.gov/33507231/) JAMA Otolaryngol Head Neck Surg. 2021 Mar 1;147(3):237-238
28. Mills CS, Michou E, King N, Bellamy MC, Siddle HJ, Brennan CA, Bojke C. [Evidence for Above Cuff Vocalization in Patients With a Tracheostomy: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/33932229/) Laryngoscope. 2021 May 1.
29. Mills CS, Michou M, Bellamy MC, Siddle HJ, Brennan CA, Bojke C. [Determining the prevalence, implementation approaches and opinions of Above Cuff Vocalisation: a survey of healthcare professionals.](https://pubmed.ncbi.nlm.nih.gov/34562433/) Arch Phys Med Rehabil. 2021 Sep 22:S0003-9993(21)01426-X
30. Rose L, Sutt AL, Amaral AC, Fergusson DA, Smith OM, Dale CM. [Interventions to enable communication for adult patients requiring an artificial airway with or without mechanical ventilator support.](https://pubmed.ncbi.nlm.nih.gov/34637143/) Cochrane Database Syst Rev. 2021 Oct 12;10(10):CD013379
31. Zaga et al. [Outcome measurement tools for communication, voice and speech intelligibility in the ICU and their clinimetric properties: A systematic review](https://journals.sagepub.com/doi/full/10.1177/1751143720963757). J of Intensive Care Society, 2022
32. Hou L, Li Y, Wang J, Wang Y, Wang J, Hu G, Ding XR. [Risk factors for post-extubation dysphagia in ICU: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/36897733/) Medicine (Baltimore). 2023 Mar 10;102(10):e33153
33. Zaga CJ, Chao C, Cameron T, Ross J, Rautela L, Rollinson TC, Marchingo E, Gregson PA, Warrillow S, Atkins NE, Howard ME. [A Multidisciplinary Approach to Verbal Communication Interventions for Mechanically Ventilated Adults With a Tracheostomy.](https://pubmed.ncbi.nlm.nih.gov/37076435/) Respir Care. 2023 May;68(5):680-691
34. Mills CS, Cuthbertson BH, Michou E. [What's new in reducing the impact of tracheostomy on communication and swallowing in the ICU.](https://pubmed.ncbi.nlm.nih.gov/37079084/) Intensive Care Med. 2023 Apr 20
35. Kuriyama A, Watanabe S, Katayama Y, Yasaka T, Ouchi A, Iida Y, Kasai F. [Dysphagia Rehabilitation in Dysphagic Patients with Acute or Critical Illness: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/38662217/) Dysphagia. 2024 Apr 25
36. **Yu W**, Dan L, Cai J, Wang Y, Wang Q, Zhang Y, Wang X. [Incidence of post-extubation dysphagia among critical care patients undergoing orotracheal intubation: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/39217392/) Eur J Med Res. 2024 Aug 31;29(1):444

## Guideline

1. ESPEN Guidelines & Consensus Papers:
2. https://www.espen.org/guidelines-home/espen-guidelines

# Team Work

## Research studies

1. Hopkins RO, Spuhler VJ, Thomsen GE: [Transforming ICU culture to facilitate early mobility](http://www.ncbi.nlm.nih.gov/pubmed/17307118). Crit Care Clin. 2007 Jan;23 (1): 81-96
2. Thomsen GE, Snow GL, Rodriguez L, [Hopkins RO: Patients with respiratory failure increase ambulation after transfer to an intensive care unit where early activity is a priority](http://www.ncbi.nlm.nih.gov/pubmed/18379236). Crit Care Med Vol. 2008 36, No. 4: 1119-24
3. Winkelman C, Peereboom K (2010): [Staff-Perceived Barriers and Facilitators](http://ccn.aacnjournals.org/content/30/2/S13.long). Crit Care Nurse 30: 13-16
4. Bassett RD, Vollman KM, Brandwene L, Murray T. [Integrating a multidisciplinary mobility programme into intensive care practice (IMMPTP): a multicentre collaborative](http://www.ncbi.nlm.nih.gov/pubmed/22227355?dopt=Abstract). Intensive Crit Care Nurs. 2012 Apr;28(2):88-97
5. Karnatovskaia LV, Gajic O, Bienvenu OJ, Stevenson JE, Needham DM. [A holistic approach to the critically ill and Maslow's hierarchy. J](http://www.ncbi.nlm.nih.gov/pubmed/25277078) Crit Care. 2015 Feb;30(1):210-1.
6. Laerkner E, Egerod I, Hansen HP. [Nurses' experiences of caring for critically ill, non-sedated, mechanically ventilated patients in the Intensive Care Unit: A qualitative study. I](http://www.ncbi.nlm.nih.gov/pubmed/25743598)ntensive Crit Care Nurs. 2015 Mar 2
7. Henry T. Stelfox, Daniel J. Niven, Fiona M. Clement, Sean M. Bagshaw, Deborah J. Cook, Emily McKenzie, Melissa L. Potestio, Christopher J. Doig, Barbara O’Neill, David Zygun, Critical Care Strategic Clinical Network, Alberta Health Services [Stakeholder Engagement to Identify Priorities for Improving the Quality and Value of Critical Care](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4619641/). PLoS One. 2015; 10(10): e0140141.
8. Trogrlić Z, Ista E, Ponssen HH, Schoonderbeek JF, Schreiner F, Verbrugge SJ, Dijkstra A, Bakker J, van der Jagt M. [Attitudes, knowledge and practices concerning delirium: a survey among intensive care unit professionals.](http://www.ncbi.nlm.nih.gov/pubmed/26996876) Nurs Crit Care. 2016 Mar 20.
9. Hickmann CE, Castanares-Zapatero D, Bialais E, Dugernier J, Tordeur A, Colmant L, Wittebole X, Tirone G, Roeseler J, Laterre PF. [Teamwork enables high level of early mobilization in critically ill patients.](http://www.ncbi.nlm.nih.gov/pubmed/27553652) Ann Intensive Care. 2016 Dec;6(1):80
10. McPeake J, Quasim T. [The role of peer support in ICU rehabilitation.](http://www.ncbi.nlm.nih.gov/pubmed/27554607) Intensive Crit Care Nurs. 2016 Aug 20
11. Boehm LM, Dietrich MS, Vasilevskis EE, Wells N, Pandharipande P, Ely EW, Mion LC. [Perceptions of Workload Burden and Adherence to ABCDE Bundle Among Intensive Care Providers.](https://www.ncbi.nlm.nih.gov/pubmed/28668925) Am J Crit Care. 2017 Jul;26(4):e38-e47
12. van Aswegen H, Patman S, Plani N, Hanekom S. [Developing minimum clinical standards for physiotherapy in South African ICUs: A qualitative study.](https://www.ncbi.nlm.nih.gov/pubmed/28548368) J Eval Clin Pract. 2017 May 26.
13. Bassett R, Adams KM, Danesh V, Groat PM, Haugen A, Kiewel A, Small C, Van-Leuven M, Venus S, Ely EW. [Rethinking critical **care**: decreasing sedation, increasing delirium monitoring, and increasing patient mobility.](https://www.ncbi.nlm.nih.gov/pubmed/25976892) Jt Comm J Qual Patient Saf. 2015 Feb;41(2):62-74.
14. Haines TP, Bowles KA, Mitchell D, O'Brien L, Markham D, Plumb S, May K, Philip K, Haas R, Sarkies MN, Ghaly M, Shackell M, Chiu T, McPhail S, McDermott F, Skinner EH. [Impact of disinvestment from weekend allied health services across acute medical and surgical wards: 2 stepped-wedge cluster randomised controlled trials.](https://www.ncbi.nlm.nih.gov/pubmed/29088237) PLoS Med. 2017 Oct 31;14(10):e1002412.
15. Nickels M, Aitken LM, Walsham J, Watson L, McPhail S. [Clinicians' perceptions of rationales for rehabilitative exercise in a critical care setting: A cross-sectional study.](https://www.ncbi.nlm.nih.gov/pubmed/27105830) Aust Crit Care. 2017 Mar;30(2):79-84
16. Tunpattu S, Newey V, Sigera C, De Silva P, Goonarathna A, Aluthge I, Thambavita P, Perera R, Meegahawatte A, Isaam I, Dondorp AM, Haniffa R. [A short, structured skills training course for critical care physiotherapists in a lower-middle income country.](https://www.ncbi.nlm.nih.gov/pubmed/29319380) Physiother Theory Pract. 2018 Jan 10:1-9.
17. Pottenger BC, Pronovost PJ, Kreif J, Klein L, Hobson D, Young D, Hoyer EH. [Towards improving hospital workflows: An evaluation of resources to mobilize patients.](https://www.ncbi.nlm.nih.gov/pubmed/30117210) J Nurs Manag. 2018 Aug 16.
18. Joyce CL, Taipe C, Sobin B, Spadaro M, Gutwirth B, Elgin L, Silver G, Greenwald BM, Traube C. [Provider Beliefs Regarding Early Mobilization in the Pediatric Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/29167075) J Pediatr Nurs. 2018 Jan - Feb;38:15-19
19. Anderson RJ, Sparbel K, Barr RN, Doerschug K, Corbridge S. [Electronic Health Record Tool to Promote Team Communication and Early Patient Mobility in the Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/30504495) Crit Care Nurse. 2018 Dec;38(6):23-34
20. Aranis N, Molina J, Leppe J, Castro-Ávila AC, Fu C, Merino-Osorio C.[Characteristics of physiotherapy staffing levels and caseload: a cross-sectional survey of Chilean adult Intensive Care Units.](https://www.ncbi.nlm.nih.gov/pubmed/30816878) Medwave. 2019 Feb 26;19(1):e7578
21. Rotta BP, Silva JMD, Fu C, Goulardins JB, Pires-Neto RC, Tanaka C. [Relationship between availability of physiotherapy services and ICU costs.](https://www.ncbi.nlm.nih.gov/pubmed/30043883) J Bras Pneumol. 2018 May-Jun;44(3):184-189
22. Borges Nery P, Snider L, Camelo JS Junior, Zachary B, Fatima K, Jessica G, Annette M. [The Role of Rehabilitation Specialists in Canadian NICUs: A 21st Century Perspective.](https://www.ncbi.nlm.nih.gov/pubmed/30265831) Phys Occup Ther Pediatr. 2019;39(1):33-47
23. Prohaska CC, Sottile PD, Nordon-Craft A, Gallagher MD, Burnham EL, Clark BJ, Ho M, Kiser TH, Vandivier RW, Liu W, Schenkman M, Moss M. [Patterns of utilization and effects of hospital-specific factors on physical, occupational, and speech therapy for critically ill patients with acute respiratory failure in the USA: results of a 5-year sample.](https://www.ncbi.nlm.nih.gov/pubmed/31097017) Crit Care. 2019 May 16;23(1):175.
24. Krupp AE, Ehlenbach WJ, King B. [Factors Nurses in the Intensive Care Unit Consider When Making Decisions About Patient Mobility.](https://www.ncbi.nlm.nih.gov/pubmed/31263011) Am J Crit Care. 2019 Jul;28(4):281-289
25. Al-Nassan S, Alshammari F, Al-Bostanji S, Modhi Mansour Z, Hawamdeh M. [Physical therapy practice in intensive care units in Jordanian hospitals: A national survey.](https://www.ncbi.nlm.nih.gov/pubmed/30230143) Physiother Res Int. 2019 Jan;24(1):e1749
26. Chaplin T, McLuskey J. [What influences the nurses' decision to mobilise the critically ill patient?](https://www.ncbi.nlm.nih.gov/pubmed/31318134) Nurs Crit Care. 2019 Jul 18
27. Hediger K, Petignat M, Marti R, Hund-Georgiadis M. [Animal-assisted therapy for patients in a minimally conscious state: A randomized two treatment multi-period crossover trial.](https://www.ncbi.nlm.nih.gov/pubmed/31574106) PLoS One. 2019 Oct 1;14(10):e0222846
28. Wade et al. Delivery of a psychological intervention to assess and reduce workplace stress among intensive care staff. Journal of Intensive Care Society 2020 [https://doi.org/10.1177/1751143719884855](https://doi.org/10.1177%2F1751143719884855)
29. Parsons Leigh J, Brundin-Mather R, Zjadewicz K, Soo A, Stelfox HT.[Improving transitions in care from intensive care units: Development and pilot testing of an electronic communication tool for healthcare providers.](https://www.ncbi.nlm.nih.gov/pubmed/31986370) J Crit Care. 2020 Jan 18;56:265-272
30. Anekwe DE, Milner SC, Bussières A, de Marchie M, Spahija J. [Intensive care unit clinicians identify many barriers to, and facilitators of, early mobilisation: a qualitative study using the Theoretical Domains Framework.](https://pubmed.ncbi.nlm.nih.gov/32307308/) J Physiother. 2020 Apr;66(2):120-127
31. Cuthbertson BH, Goddard SL, Lorencatto F, Koo E, Rose L, Fan E, Kho ME, Needham DM, Rubenfeld GD, Francis JJ. [Barriers and Facilitators to Early Rehabilitation in the ICU: A Theory Driven Delphi Study.](https://pubmed.ncbi.nlm.nih.gov/33003076/) Crit Care Med. 2020 Sep 30. doi: 10.1097/CCM.0000000000004580.
32. Boehm LM, Lauderdale J, Garrett AN, Piras SE. [A multisite study of multidisciplinary ICU team member beliefs toward early mobility.](https://pubmed.ncbi.nlm.nih.gov/33069455/) Heart Lung. 2020 Oct 14:S0147-9563(20)30392-7.
33. Hermes C, Nydahl P, Blobner M, Dubb R, Filipovic S, Kaltwasser A, Ulm B, Schaller SJ. [Assessment of mobilization capacity in 10 different ICU scenarios by different professions.](https://pubmed.ncbi.nlm.nih.gov/33057435/) PLoS One. 2020 Oct 15;15(10):e0239853.
34. Jiang, J., Zhao, S., Han, P., Wu, Q., Shi, Y., Duan, X., & Yan, S. (2022). [Knowledge, Attitude, and Perceived Barriers of Newly Graduated Registered Nurses Undergoing Standardized Training in Intensive Care Unit Toward Early Mobilization of Mechanically Ventilated Patients: A Qualitative Study in Shanghai](https://doi.org/10.3389/fpubh.2021.802524). *Frontiers in public health*, *9*, 802524.
35. Newman ANL, Kho ME, Harris JE, Fox-Robichaud A, Solomon P. [Survey of Physiotherapy Practice in Ontario Cardiac Surgery Intensive Care Units.](https://pubmed.ncbi.nlm.nih.gov/35185244/) Physiother Can. 2022 Jan 1;74(1):25-32
36. Zhang, H., Liu, H., Li, Z., Li, Q., Chu, X., Zhou, X., Wang, B., Lyu, Y., & Lin, F. (2021). [Early mobilization implementation for critical ill patients: A cross-sectional multi-center survey about knowledge, attitudes, and perceptions of critical care nurses](https://doi.org/10.1016/j.ijnss.2021.10.001). *International journal of nursing sciences*, *9*(1), 49–55.
37. Clarissa C, Salisbury L, Rodgers S, Kean S. [A Constructivist Grounded Theory of Staff Experiences Relating to Early Mobilisation of Mechanically Ventilated Patients in Intensive Care.](https://pubmed.ncbi.nlm.nih.gov/35224137/) Glob Qual Nurs Res. 2022 Feb 23;9:23333936221074990
38. Hiser et al. [Physiotherapists’ and Physiotherapy Assistants’ Perspectives on Using Three Physical Function Measures in the Intensive Care Unit: A Mixed-Methods Study](https://doi.org/10.3138/ptc-2020-0096). UTP Journals <https://doi.org/10.3138/ptc-2020-0096>
39. Anderson R. (2022). [Effects of an Electronic Health Record Tool on Team Communication and Patient Mobility: A 2-Year Follow-up Study](https://doi.org/10.4037/ccn2022385). *Critical care nurse*, *42*(2), 23–31.
40. Vegh, L. A., Blunt, A. M., Wishart, L. R., Gane, E. M., & Paratz, J. D. (2022). [Managing deteriorating patients with a physiotherapy critical care outreach service: A mixed-methods study](https://doi.org/10.1016/j.aucc.2022.01.005). *Australian critical care : official journal of the Confederation of Australian Critical Care Nurses*, S1036-7314(22)00006-6.
41. Zhang X, Jiang C, Chen F, Wu H, Yang L, Jiang Z, Zhou J. [ICU quasi-speciality nurses' knowledge, attitudes and practices regarding early mobilization: A cross-sectional survey.](https://pubmed.ncbi.nlm.nih.gov/36101973/) Nurs Open. 2023 Feb;10(2):977-987
42. Wang J, Shi C, Xiao Q, Jia Y. [ICU nurses' practice and intention to implement early mobilization: A multi-centre cross-sectional survey.](https://pubmed.ncbi.nlm.nih.gov/39207037/) Nurs Crit Care. 2024 Sep;29(5):1067-1077.

## Reviews

1. Rose L. [Interprofessional collaboration in the ICU: how to define?](http://www.ncbi.nlm.nih.gov/pubmed/21199549) Nursing in Criticial Care 2011, Vol 16 1: 5-10
2. Hempel S, Shekelle PG, Liu JL, Sherwood Danz M, Foy R, Lim YW, Motala A, Rubenstein LV. [Development of the Quality Improvement Minimum Quality Criteria Set (QI-MQCS): a tool for critical appraisal of quality improvement intervention publications.](http://www.ncbi.nlm.nih.gov/pubmed/26311020) BMJ Qual Saf. 2015 Dec;24(12):796-804.
3. Vincent JL, Hall JB, Slutsky AS. [Ten big mistakes in intensive care medicine.](http://www.ncbi.nlm.nih.gov/pubmed/25502093) Intensive Care Med. 2015 Mar;41(3):505-7.
4. Epstein NE. [Multidisciplinary in-hospital teams improve patient outcomes: A review.](https://www.ncbi.nlm.nih.gov/pubmed/25289149) Surg Neurol Int. 2014 Aug 28;5(Suppl 7):S295-303.
5. Hosey MM, Jaskulski J, Wegener ST, Chlan LL, Needham DM. [Animal-assisted intervention in the ICU: a tool for humanization.](https://www.ncbi.nlm.nih.gov/pubmed/29429412) Crit Care. 2018 Feb 12;22(1):22
6. Ratcliffe J, Williams B. [Impact of a Mobility Team on Intensive Care Unit Patient Outcomes.](https://www.ncbi.nlm.nih.gov/pubmed/31047089) Crit Care Nurs Clin North Am. 2019 Jun;31(2):141-151
7. Mukpradab, S., Mitchell, M., & Marshall, A. P. (2022). [An interprofessional team approach to early mobilisation of critically Ill adults: An integrative review](https://doi.org/10.1016/j.ijnurstu.2022.104210). *International journal of nursing studies*, *129*, 104210.

## Guidelines & recommendations

1. National Institute for Health and Clinical Excellence (NICE): How to change practice. http:// [www.nice.org.uk/media/D33/8D/Howtochangepractice1.pdf](http://www.nice.org.uk/media/D33/8D/Howtochangepractice1.pdf)

# Environment and Equipment

## Research studies

1. Egbers PH, Bultsma R, Middelkamp H, Boerma EC. [Enabling speech in ICU patients during mechanical ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/24802666) Intensive Care Med. 2014 Jul;40(7):1057-8
2. Elliott R, McKinley S. [The development of a clinical practice guideline to improve sleep in intensive care patients: a solution focused approach.](http://www.ncbi.nlm.nih.gov/pubmed/24857414) Intensive Crit Care Nurs. 2014 Oct;30(5):246-56
3. Sutt AL, Caruana LR, Dunster KR, Cornwell PL, Anstey CM, Fraser JF. [Speaking valves in tracheostomised ICU patients weaning off mechanical ventilation - do they facilitate lung recruitment?](http://www.ncbi.nlm.nih.gov/pubmed/27038617) Crit Care. 2016 Apr 1;20(1):91.
4. Ernecoff NC, Witteman HO, Chon K, Chen YI, Buddadhumaruk P, Chiarchiaro J, Shotsberger KJ, Shields AM, Myers BA, Hough CL, Carson SS, Lo B, Matthay MA, Anderson WG, Peterson MW, Steingrub JS, Arnold RM, White DB. [Key stakeholders' perceptions of the acceptability and usefulness of a tablet-based tool to improve communication and shared decision making in ICUs.](http://www.ncbi.nlm.nih.gov/pubmed/27037049) J Crit Care. 2016 Jun;33:19-25.
5. Luetz A, Weiss B, Penzel T, Fietze I, Glos M, Wernecke KD, Bluemke B, Dehn AM, Willemeit T, Finke A, Spies C. [Feasibility of noise reduction by a modification in ICU environment.](http://www.ncbi.nlm.nih.gov/pubmed/27243942) Physiol Meas. 2016 May 31;37(7):1041-1055
6. Steunenberg B, van der Mast R, Strijbos MJ, Inouye SK, Schuurmans MJ. [How trained volunteers can improve the quality of hospital care for older patients. A qualitative evaluation within the Hospital Elder Life Program (HELP).](https://www.ncbi.nlm.nih.gov/pubmed/27471215) Geriatr Nurs. 2016 Nov - Dec;37(6):458-463.
7. Holland AE, Mahal A, Hill CJ, Lee AL, Burge AT, Cox NS, Moore R, Nicolson C, O'Halloran P, Lahham A, Gillies R, McDonald CF. [Home-based rehabilitation for COPD using minimal resources: a randomised, controlled equivalence trial.](https://www.ncbi.nlm.nih.gov/pubmed/27672116) Thorax. 2017 Jan;72(1):57-65.
8. Litton E, Elliott R, Thompson K, Watts N, Seppelt I, Webb SAR; ANZICS Clinical Trials Group and The George Institute for Global Health.. [Using Clinically Accessible Tools to Measure Sound Levels and Sleep Disruption in the ICU: A Prospective Multicenter Observational Study.](https://www.ncbi.nlm.nih.gov/pubmed/28362644) Crit Care Med. 2017 Jun;45(6):966-971
9. Wen-Chun Chiu, Po-Shuo Chang, Cheng-Fang Hsieh, Chien-Ming Chao, Chih-Cheng Lai, The impact of windows on the outcomes of medical intensive care unit patients, International Journal of Gerontology, 2017, ISSN 1873-9598, <http://dx.doi.org/10.1016/j.ijge.2017.06.002>.
10. Ding Q, Redeker NS, Pisani MA, Yaggi HK, Knauert MP. [Factors Influencing Patients' Sleep in the Intensive Care Unit: Perceptions of Patients and Clinical Staff.](https://www.ncbi.nlm.nih.gov/pubmed/28668912) Am J Crit Care. 2017 Jul;26(4):278-286
11. Fan EP, Abbott SM, Reid KJ, Zee PC, Maas MB. [Abnormal environmental light exposure in the intensive care environment.](https://www.ncbi.nlm.nih.gov/pubmed/28292665) J Crit Care. 2017 Aug;40:11-14
12. Delaney LJ, Currie MJ, Huang HC, Lopez V, Litton E, Van Haren F. [The nocturnal acoustical intensity of the intensive care environment: an observational study.](https://www.ncbi.nlm.nih.gov/pubmed/28702196) J Intensive Care. 2017 Jul 11;5:41
13. Litton E, Elliott R, Ferrier J, Webb SAR. [Quality sleep using earplugs in the intensive care unit: the QUIET pilot randomised controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28651508) Crit Care Resusc. 2017 Jun;19(2):128-133.
14. Locihová H, Axmann K, Padyšáková H, Fejfar J. [Effect of the use of earplugs and eye mask on the quality of sleep in intensive care patients: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/28944590) J Sleep Res. 2017 Sep 25. doi: 10.1111/jsr.12607
15. Jaiswal SJ, Garcia S, Owens RL. [Sound and Light Levels Are Similarly Disruptive in ICU and non-ICU Wards.](https://www.ncbi.nlm.nih.gov/pubmed/28991944) J Hosp Med. 2017 Oct;12(10):798-804
16. Demoule A, Carreira S, Lavault S, Pallanca O, Morawiec E, Mayaux J, Arnulf I, Similowski T. [Impact of earplugs and eye mask on sleep in critically ill patients: a prospective randomized study.](https://www.ncbi.nlm.nih.gov/pubmed/29157258) Crit Care. 2017 Nov 21;21(1):284.
17. Gehlbach BK, Patel SB, Van Cauter E, Pohlman AS, Hall JB, Zabner J. [The Effects of Timed Light Exposure in Critically Ill Patients: A Randomized Controlled Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/29529381) Am J Respir Crit Care Med. 2018 Mar 12
18. Rose, Louise et al. Feasibility of the electrolarynx for enabling communication in the chronically critically ill: The EECCHO study Journal of Critical Care , 2018 https://www.jccjournal.org/article/S0883-9441(18)30147-3/fulltext
19. Rose L, Istanboulian L, Smith OM, Silencieux S, Cuthbertson BH, Amaral ACK, Fraser I, Grey J, Dale C. [Feasibility of the electrolarynx for enabling communication in the chronically critically ill: The EECCHO study.](https://www.ncbi.nlm.nih.gov/pubmed/29945066) J Crit Care. 2018 Jun 12;47:109-113
20. Turon M, Fernandez-Gonzalo S, Jodar M, Gomà G, Montanya J, Hernando D, Bailón R, de Haro C, Gomez-Simon V, Lopez-Aguilar J, Magrans R, Martinez-Perez M, Oliva JC, Blanch L. [Feasibility and safety of virtual-reality-based early neurocognitive stimulation in critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/28770543) Ann Intensive Care. 2017 Dec;7(1):81. doi: 10.1186/s13613-017-0303-4
21. Sweity S, Finlay A, Lees C, Monk A, Sherpa T, Wade D. [SleepSure: a pilot randomized-controlled trial to assess the effects of eye masks and earplugs on the quality of sleep for patients in hospital.](https://www.ncbi.nlm.nih.gov/pubmed/30322272) Clin Rehabil. 2018 Oct 15:269215518806041
22. Simons KS, Verweij E, Lemmens PMC, Jelfs S, Park M, Spronk PE, Sonneveld JPC, Feijen HM, van der Steen MS, Kohlrausch AG, van den Boogaard M, de Jager CPC. [Noise in the intensive care unit and its influence on sleep quality: a multicenter observational study in Dutch intensive care units.](https://www.ncbi.nlm.nih.gov/pubmed/30290829) Crit Care. 2018 Oct 5;22(1):250.
23. Kline JA, Fisher MA, Pettit KL, Linville CT, Beck AM. [Controlled clinical trial of canine therapy versus usual care to reduce patient anxiety in the emergency department.](https://www.ncbi.nlm.nih.gov/pubmed/30625184) PLoS One. 2019 Jan 9;14(1):e0209232
24. Golino AJ, Leone R, Gollenberg A, Christopher C, Stanger D, Davis TM, Meadows A, Zhang Z, Friesen MA. [Impact of an Active Music Therapy Intervention on Intensive Care Patients.](https://www.ncbi.nlm.nih.gov/pubmed/30600227) Am J Crit Care. 2019 Jan;28(1):48-55
25. Hendriks MMC, Buise MP. [Interactive video games for rehabilitation in the intensive care unit: A pilot study.](https://www.ncbi.nlm.nih.gov/pubmed/30690431) J Crit Care. 2019 Jan 22;51:24-25
26. Ceron C, Otto D, Signorini AV, Beck MC, Camilis M, Sganzerla D, Rosa RG, Teixeira C. [The Effect of Speaking Valves on ICU Mobility of Individuals With Tracheostomy.](https://www.ncbi.nlm.nih.gov/pubmed/31615923) Respir Care. 2019 Oct 15
27. Darbyshire JL, Müller-Trapet M, Cheer J, Fazi FM, Young JD. [Mapping sources of noise in an intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/31066046) Anaesthesia. 2019 Aug;74(8):1018-1025
28. Via-Clavero G, Guàrdia-Olmos J, Falcó-Pegueroles A, Gil-Castillejos D, Lobo-Cívico A, De La Cueva-Ariza L, Romero-García M, Delgado-Hito P. [Factors influencing critical care nurses' intentions to use physical restraints adopting the theory of planned behaviour: A cross-sectional multicentre study.](https://pubmed.ncbi.nlm.nih.gov/32331708/?from_term=Via-Clavero+G&from_cauthor_id=32331708&from_pos=1) Aust Crit Care. 2020 Apr 21:S1036-7314(19)30120-1.
29. Jawed YT, Golovyan D, Lopez D, Khan SH, Wang S, Freund C, Imran S, Hameed UB, Smith JP, Kok L, Khan BA. [Feasibility of a virtual reality intervention in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/34217986/) Heart Lung. 2021 Jul 1;50(6):748-753
30. Kakar E, Ottens T, Stads S, Wesselius S, Gommers DAMPJ, Jeekel J, van der Jagt M. [Effect of a music intervention on anxiety in adult critically ill patients: a multicenter randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/37592358/) J Intensive Care. 2023 Aug 17;11(1):36
31. Cavaleri et al. [The Influence of Stress on Student Performance during Simulation-based Learning: A Pilot Randomized Trial](https://www.atsjournals.org/doi/full/10.34197/ats-scholar.2022-0042OC). ATSScholar 2023, Oct

## Reviews

1. Stiller K.: [Safety issues that should be considered when mobilizing critically ill patients](http://www.ncbi.nlm.nih.gov/pubmed/17307115). Crit Care Clin. 2007Jan;23(1):35-53
2. Korupolu R, Chandolu S, Needham DM. [Part one: screening and safety issues – series on early mobilization of critically ill patients](http://icu-management.org/sites/all/files/pdflibrary/ICU_V9_I3.pdf). ICU-Management 2009 Vol 9, 3: 27-30 (link free full text)
3. Korupolu R, Susai I, Needham DM. [Required ressources – series on early mobilization of critically ill patients](http://icu-management.org/sites/all/files/pdflibrary/ICU_V10_I1_web.pdf). ICU-Management 2010 Vol 10, 1: 36-37 (link free full text)
4. Cherniack EP, Cherniack AR. [The benefit of pets and animal-assisted therapy to the health of older individuals.](http://www.ncbi.nlm.nih.gov/pubmed/25477957) Curr Gerontol Geriatr Res. 2014;2014:623203.
5. Stewart JA, Green C, Stewart J, Tiruvoipati R. [Factors influencing quality of sleep among non-mechanically ventilated patients in the Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/26970918) Aust Crit Care. 2016 Mar 9.
6. Shiber J, Thomas A, Northcutt A. [Communicating While Receiving Mechanical Ventilation: Texting With a Smartphone.](http://www.ncbi.nlm.nih.gov/pubmed/26932926) Am J Crit Care. 2016 Mar;25(2):e38-9.
7. Beg M, Scruth E, Liu V. [Developing a framework for implementing intensive care unit diaries: a focused review of the literature.](http://www.ncbi.nlm.nih.gov/pubmed/27240937) Aust Crit Care. 2016 May 27.
8. Weiss B, Spies C, Piazena H, Penzel T, Fietze I, Luetz A. [Exposure to light and darkness and its influence on physiological measures of intensive care unit patients-a systematic literature review.](http://www.ncbi.nlm.nih.gov/pubmed/27510570) Physiol Meas. 2016 Sep;37(9):R73-87
9. Mofredj A, Alaya S, Tassaioust K, Bahloul H, Mrabet A. [Music therapy, a review of the potential therapeutic benefits for the critically ill.](http://www.ncbi.nlm.nih.gov/pubmed/27481759) J Crit Care. 2016 Oct;35:195-9.
10. Jeffs EL, Darbyshire JL. [Measuring Sleep in the Intensive Care Unit: A Critical Appraisal of the Use of Subjective Methods.](https://www.ncbi.nlm.nih.gov/pubmed/28631532) J Intensive Care Med. 2017 Jan 1:885066617712197
11. [Victoria Bion](http://journals.sagepub.com/author/Bion%2C+Victoria), [Alex SW Lowe](http://journals.sagepub.com/author/Lowe%2C+Alex+SW), [Zudin Puthucheary](http://journals.sagepub.com/author/Puthucheary%2C+Zudin), [Hugh Montgomery](http://journals.sagepub.com/author/Montgomery%2C+Hugh) Reducing sound and light exposure to improve sleep on the adult intensive care unit: An inclusive narrative review. Journal of Intensive Care Society
12. Hetland, B; Bailey, T; Prince-Paul, M. Animal-Assisted Interactions to Alleviate Psychological Symptoms in Patients Receiving Mechanical Ventilation. Journal of Hospice & Palliative Nursing: [December 2017 - Volume 19 - Issue 6 - p 516–523](http://journals.lww.com/jhpn/pages/currenttoc.aspx)
13. Gabor JY, Cooper AB, Hanly PJ. [Sleep disruption in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/11373507) Curr Opin Crit Care. 2001 Feb;7(1):21-7
14. Delaney LJ, Currie MJ, Huang HC, Litton E, Wibrow B, Lopez V, Haren FV. [Investigating the application of motion accelerometers as a sleep monitoring technique and the clinical burden of the intensive care environment on sleep quality: study protocol for a prospective observational study in Australia.](https://www.ncbi.nlm.nih.gov/pubmed/29358448) BMJ Open. 2018 Jan 21;8(1):e019704
15. Petrucci N. [Beyond bleeps and alarms: live music by the bedside in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/29943087) Intensive Care Med. 2018 Dec;44(12):2282-2283
16. Niven AS, Herasevich S, Pickering BW, Gajic O. [The Future of Critical Care Lies in Quality Improvement and Education.](https://www.ncbi.nlm.nih.gov/pubmed/30917286) Ann Am Thorac Soc. 2019 Mar 27
17. Umbrello M, Sorrenti T, Mistraletti G, Formenti P, Chiumello D, Terzoni S. [Music therapy reduces stress and anxiety in critically ill patients: a systematic review of randomized clinical trials.](https://www.ncbi.nlm.nih.gov/pubmed/30947484) Minerva Anestesiol. 2019 Apr 3.
18. Rood P, Frenzel T, Verhage R, Bonn M, van der Hoeven H, Pickkers P, van den Boogaard M. [Development and daily use of a numeric rating score to assess sleep quality in ICU patients.](https://www.ncbi.nlm.nih.gov/pubmed/30981928) J Crit Care. 2019 Apr 6;52:68-74
19. Zaga CJ, Berney S, Vogel AP. [The Feasibility, Utility, and Safety of Communication Interventions With Mechanically Ventilated Intensive Care Unit Patients: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/31296037) Am J Speech Lang Pathol. 2019 Jul 11:1-21

## Guidelines

# Patient Outcomes

## Research studies

1. de Letter MA, Schmitz PI, Visser LH, Verheul FA, Schellens RL, Op de Coul DA, van der Meché FG. Risk factors for the development of polyneuropathy and myopathy in critically ill patients. Crit Care Med. 2001 Dec;29(12):2281-6
2. De Jonghe B, Shanshar T, Lefaucheur JP et al. [Paresis acquired in the intensive care unit: A prospective multicenter study](http://www.ncbi.nlm.nih.gov/pubmed/12472328). JAMA 2002; 288:2859-2867 [free full text](http://jama.ama-assn.org/content/288/22/2859.long)
3. Fletcher SN, Kennedy DD, Ghosh IR et al. [Persistent neuromuscular and neurophysiologic abnormalities in long-term survivors of prolonged critical illness](http://www.ncbi.nlm.nih.gov/pubmed/12682465). Crit Care Med 2003; 31:1012-1016
4. Herridge MS, Cheung AM, Tansey CM et al. [One-year outcomes in survivors of the acute respiratory distress syndrome](http://www.ncbi.nlm.nih.gov/pubmed/12594312). N Engl J Med 2003; 348:683-693 [free full text](http://www.nejm.org/doi/full/10.1056/NEJMoa022450)
5. Hopkins RO, Weaver LK, Collingridge D et al. [Two year neurocognitive, emotional, and quality of life outcomes in survivors of acute respiratory distress syndrome](http://www.ncbi.nlm.nih.gov/pubmed/15542793). AJRCCM 2005; 171:340-347 [free full text](http://ajrccm.atsjournals.org/cgi/content/full/171/4/340)
6. Needham DM, Bronskill SE, Calinawan JR et al. [Projected incidence of mechanical ventilation in Ontario to 2026: Preparing for the aging baby boomers](http://www.ncbi.nlm.nih.gov/pubmed/15753749). Crit Care Med 2005; 33:574-579
7. Hough CL. Neuromuscular sequelae in survivors of acute lung injury. Clin Chest Med. 2006 Dec;27(4):691-703
8. De Jonghe B, Bashuji-Garin S, Durand MC et al: [Respiratory weakness is associated with limb weakness and delayed weaning in critical illness](http://www.ncbi.nlm.nih.gov/pubmed/17855814). Crit Care Med 2007; 35:2007-2015
9. Jones C, Bäckman C, Capuzzo M et al. [Precipitants of post-traumatic stress disorder following intensive care: a hypothesis generating study of diversity in care](http://www.ncbi.nlm.nih.gov/pubmed/17384929). Intensive Care Med 2007; 33:978-985
10. Ali NA, O”Brien JM, Hoffman SP et al. [Acquired weakness, handgrip strength, and mortality in critically ill patients](http://www.ncbi.nlm.nih.gov/pubmed/18511703). AJRCCM 2008; 178:261-268 [free full text](http://ajrccm.atsjournals.org/cgi/content/full/178/3/261)
11. Cox CE et al. Expectations and outcomes of prolonged mechanical ventilation. Crit Care Med 2009;37:2888-2894 [free text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2766420/)
12. Cuthbertson, BH, Rattray J, Campbell MK et al. [The PRaCTRiCaL study of nurse led, intensive care follow-up programmes fro improving long term outcomes from critical illness: A pragmatic randomised controlled trial](http://www.ncbi.nlm.nih.gov/pubmed/19837741). BMJ 2009; 339:b3921 [free text online](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2763078/?tool=pubmed)
13. Hauer D, Weis F, Krauseneck T et al. [Traumatic memories, post-traumatic stress disorder and serum cortisol levels in long-term survivors of the acute respiratory distress syndrome.](http://www.ncbi.nlm.nih.gov/pubmed/19376097) Brain Res 2009; 1293:114-20. Epub 2009 Apr 17
14. Sharshar T et al. [Presence and severity of intensive care unit-acquired paresis at time of awakening are associated with increased intensive care unit and hospital mortality](http://www.ncbi.nlm.nih.gov/pubmed/19770751). Crit Care Med 2009;37:3047-3053
15. Poulsen JB, Moller K, Kelet H, Perner A. [Long-term physical outcome in patients with septic shock](http://www.ncbi.nlm.nih.gov/pubmed/19388891). Acta Anaesthsiol Scand 2009;53:724-730
16. Ehlenbach WJ, Hough CL, Crane PK et al. [Association between acute care and critical illness hospitalization and cognitive function in older adults](http://www.ncbi.nlm.nih.gov/pubmed/20179286). JAMA. 2010; 303:763-70 [free full text](http://jama.ama-assn.org/content/303/8/763.long)
17. Wunsch H, Guerra C, Barnato AE et al. [Three-year outcomes for Medicare beneficiaries who survive intensive care](http://www.ncbi.nlm.nih.gov/pubmed/20197531). JAMA 2010; 303:849-856 [free full text](http://jama.ama-assn.org/content/303/9/849.long)
18. Girard TD, Jackson JC, Pandharipande PP et al. [Delirium as a predictor of long-term cognitive impairments in survivors of critical illness](http://www.ncbi.nlm.nih.gov/pubmed/20473145). Crit Care Med 2010; 38:1513-1520
19. Hopkins RO, Suchyta MR, Snow GL et al. [Blood glucose dysregulation and cognitive outcome in ARDS survivors](http://www.ncbi.nlm.nih.gov/pubmed/20858026). Brain Injury 2010; 24; 1478-1484
20. Hopkins RO, Key CW, Suchyta MR et al. [Risk factors for depression and anxiety in survivors of acute respiratory distress syndrome](http://www.ncbi.nlm.nih.gov/pubmed/20302988). General Hospital Psychiatry 2010 ; 32;147-155
21. Iwashyna TJ, Ely EW et al. [Long-term cognitive impairment and functional disability among survivors of severe sepsis](http://www.ncbi.nlm.nih.gov/pubmed/20978258). JAMA 2010; 304:1787-1794 [free full text](http://jama.ama-assn.org/content/304/16/1787.long)
22. Jones C, Bäckman C, Capuzzo M et al. [Intensive care diaries reduce new onset post traumatic stress disorder following critical illness: a randomized, controlled trial](http://www.ncbi.nlm.nih.gov/pubmed/20843344). Crit Care 2010; 14:R168 [free full text](http://ccforum.com/content/14/5/R168)
23. Jackson JC, Girard TD, Gordon SM et al. [Long-term cognitive and psychological outcomes in the Awakening and Breathing controlled Trial](http://www.ncbi.nlm.nih.gov/pubmed/20299535). AJRCCM 2010; 182:183-191
24. Myhren H, Ekeberg O, Tøien K et al. [Posttraumatic stress, anxiety and depression symptoms in patients during the first year post intensive care unit discharge](http://www.ncbi.nlm.nih.gov/pubmed/20144193). Crit Care 2010; 14:R14. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2875529/?tool=pubmed)
25. Herridge MS, Tansey CM, Matté A, Tomlinson G, Diaz-Granados N, Cooper A, Guest CB, Mazer CD, Mehta S, Stewart TE, Kudlow P, Cook D, Slutsky AS, Cheung AM; Canadian Critical Care Trials Group. [Functional disability 5 years after acute respiratory distress syndrome.](http://www.ncbi.nlm.nih.gov/pubmed/21470008) N Engl J Med. 2011 Apr 7;364(14):1293-304.
26. Morris PE, Griffin L, Berry M, Thompson C, Hite RD, Winkelman C, Hopkins RO, Ross A, Dixon L, Leach S, Haponik E. [Receiving early mobility during an intensive care unit admission is a predictor of improved outcomes in acute respiratory failure.](http://www.ncbi.nlm.nih.gov/pubmed/21358312) Am J Med Sci. 2011 May;341(5):373-7.
27. Davidson JE, Jones C & Bienvenue OJ. [Family response to critical illness: Postintensive care syndrome–family](http://www.ncbi.nlm.nih.gov/pubmed/22080636). Crit Care Med 2012 Vol. 40, No. 2, 618-24
28. Desai, Law & Needham. [Long-term complications of critical care](http://www.ncbi.nlm.nih.gov/pubmed/20959786). Crit Care Med 2011 (39) 2: 371-379
29. Needham et al. [Improving long-term outcomes after discharge from intensive care unit: Report from a stakeholders’ conference](http://www.ncbi.nlm.nih.gov/pubmed/21946660). Crit Care Med 2012 Vol. 40, No. 2. 502-509
30. Herridge M, Cox C. [Linking ICU Practice to Long-Term Outcome: Fostering a Longitudinal Vision for ICU-acquired Morbidity.](http://www.ncbi.nlm.nih.gov/pubmed/22896589) Am J Respir Crit Care Med. 2012 Aug 15;186(4):299-300
31. Bienvenu OJ, Williams J, Yang A, Hopkins R, Needham DM. Posttraumatic stress disorder in acute lung injury survivors: evaluating the Impact of Event Scale-Revised. Chest.  In press.
32. Hopkins RO, Suchyta MR, Farrer TJ, Needham DM.  [Improving post-ICU neuropsychiatric outcomes: understanding cognitive effects of physical activity](http://www.ncbi.nlm.nih.gov/pubmed/23065013). American Journal of Respiratory and Critical Care Medicine.  In press (epublished)
33. Woon FL, Dunn CB, Hopkins RO. [Predicting cognitive sequelae in survivors of critical illness with cognitive screening tests.](http://www.ncbi.nlm.nih.gov/pubmed/22700858) Am J Respir Crit Care Med. 2012 Aug 15;186(4):333-40.
34. Denehy L, Berney S, Whitburn L, Edbrooke L. [Quantifying Physical Activity Levels of Survivors of Intensive Care: A Prospective Observational Study.](http://www.ncbi.nlm.nih.gov/pubmed/22577066) Phys Ther. 2012, 92:1507-1517.
35. Needham DM, Dinglas VD, Bienvenu OJ, Colantuoni E, Wozniak AW, Rice TW, Hopkins RO (2013). [One year outcomes in patients with acute lung injury randomised to initial trophic or full enteral feeding: prospective follow-up of EDEN randomised trial](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3601941/). BMJ 2013;346:f1532 doi: 10.1136/bmj.f1532.
36. Fan E, Dowdy DW, Colantuoni E, Mendez-Tellez PA, Sevransky JE, Shanholtz C, Himmelfarb CR, Desai SV, Ciesla N, Herridge MS, Pronovost PJ, Needham DM. [Physical Complications in Acute Lung Injury Survivors: A 2-Year Longitudinal Prospective Study](http://www.ncbi.nlm.nih.gov/pubmed/24247473). Crit Care Med. 2013, in press
37. Hermans G, Casaer MP, Clerckx B, Guiza F, Vanhullebusch T, Derde S, Meersseman P, Derese I, Mesotten D, Wouters PJ, Van Cromphaut S, Debaveye Y, Gosselink R, Gunst J, Wilmer A, Van den Berghe G, Vanhorebeek I. (2013). Effect of tolerating macronutrient deficit on the development of intensive-care unit acquired weakness: a subanalysis of the EPaNIC trial. The Lancet Respiratory Medicine 2013, 1(8): 621-629
38. Casaer MP, Langouche L, Coudyzer W, Vanbeckevoort D, De Dobbelaer B, Güiza FG, Wouters PJ, Mesotten D, Van den Berghe G. [Impact of early parenteral nutrition on muscle and adipose tissue compartments during critical illness](http://www.ncbi.nlm.nih.gov/pubmed/23860247). Crit Care Med. 2013 Oct;41(10):2298-309.
39. Hoyer EH, Needham DM, Miller J, Deutschendorf A, Friedman M, Brotman DJ. [Functional status impairment is associated with unplanned readmissions.](http://www.ncbi.nlm.nih.gov/pubmed/23810355) Arch Phys Med Rehabil. 2013 Oct;94(10):1951-8
40. Davydow DS, Hough CL, Langa KM, Iwashyna TJ. [Symptoms of depression in survivors of severe sepsis: a prospective cohort study of older Americans.](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3462893/?tool=myncbi) Am J Geriatr Psychiatry. 2013 Sep;21(9):887-97
41. Parsons EC, Kross EK, Ali NA, Vandevusse LK, Caldwell ES, Watkins TR, Heckbert SR, Hough CL. [Red blood cell transfusion is associated with decreased in-hospital muscle strength among critically ill patients requiring mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/23937968). J Crit Care. 2013 Dec;28(6):1079-85.
42. Pandharipande PP, Girard TD, Jackson JC, Morandi A, Thompson JL, Pun BT, Brummel NE, Hughes CG, Vasilevskis EE, Shintani AK, Moons KG, Geevarghese SK, Canonico A, Hopkins RO, Bernard GR, Dittus RS, Ely EW; the BRAIN-ICU Study Investigators. [Long-Term Cognitive Impairment after Critical Illness](http://www.ncbi.nlm.nih.gov/pubmed/24088092). N Engl J Med. 2013 Oct 3;369(14):1306-1316.
43. Wollersheim T, Woehlecke J, Krebs M, Hamati J, Lodka D, Luther-Schroeder A, Langhans C, Haas K, Radtke T, Kleber C, Spies C, Labeit S, Schuelke M, Spuler S, Spranger J, Weber-Carstens S, Fielitz J. [Dynamics of myosin degradation in intensive care unit-acquired weakness during severe critical illness](http://www.ncbi.nlm.nih.gov/pubmed/24531339). Intensive Care Med. 2014 Apr;40(4):528-38.
44. Bagshaw SM, Stelfox HT, McDermid RC, Rolfson DB, Tsuyuki RT, Baig N, Artiuch B, Ibrahim Q, Stollery DE, Rokosh E, Majumdar SR. [Association between frailty and short- and long-term outcomes among critically ill patients: a multicentre prospective cohort study](http://www.ncbi.nlm.nih.gov/pubmed/24277703). CMAJ. 2014 Feb 4;186(2):E95-102.
45. Brodsky MB, Gellar JE, Dinglas VD, Colantuoni E, Mendez-Tellez PA, Shanholtz C, Palmer JB, Needham DM. [Duration of oral endotracheal intubation is associated with dysphagia symptoms in acute lung injury patients](http://www.ncbi.nlm.nih.gov/pubmed/24631168). J Crit Care. 2014 Aug;29(4):574-9.
46. Needham DM1, Wozniak AW, Hough CL, Morris PE, Dinglas VD, Jackson JC, Mendez-Tellez PA, Shanholtz C, Ely EW, Colantuoni E, Hopkins RO; National Institutes of Health NHLBI ARDS Network. [Risk factors for physical impairment after acute lung injury in a national, multicenter study](http://www.ncbi.nlm.nih.gov/pubmed/24716641). Am J Respir Crit Care Med. 2014 May 15;189(10):1214-24.
47. Man WD, Kon SS, Maddocks M. [Rehabilitation after an exacerbation of chronic respiratory disease](http://www.ncbi.nlm.nih.gov/pubmed/25005041). BMJ. 2014 Jul 8;349:g4370.
48. Hermans G, Van Mechelen H, Clerckx B, Vanhullebusch T, Mesotten D, Wilmer A, Casaer MP, Meersseman P, Debaveye Y, Van Cromphaut S, Wouters PJ, Gosselink R, Van den Berghe G. [Acute outcomes and 1-year mortality of intensive care unit-acquired weakness. A cohort study and propensity-matched analysis](http://www.ncbi.nlm.nih.gov/pubmed/24825371). Am J Respir Crit Care Med. 2014 Aug 15;190(4):410-20.
49. Hoyer EH, Needham DM, Atanelov L, Knox B, Friedman M, Brotman DJ. [Association of impaired functional status at hospital discharge and subsequent rehospitalization](http://www.ncbi). J Hosp Med. 2014 May;9(5):277-82.
50. Corner EJ, Wood H, Englebretsen C, Thomas A, Grant RL, Nikoletou D, Soni N. [The Chelsea critical care physical assessment tool (CPAx): validation of an innovative new tool to measure physical morbidity in the general adult critical care population; an observational proof-of-concept pilot study](http://www.ncbi.nlm.nih.gov/pubmed/23219649). Physiotherapy. 2013 Mar;99(1):33-41.
51. Corner EJ, Soni N, Handy JM, Brett SJ. [Construct validity of the Chelsea critical care physical assessment tool: an observational study of recovery from critical illness](http://www.ncbi.nlm.nih.gov/pubmed/24669784). Crit Care. 2014 Mar 27;18(2):R55.
52. Greysen SR, Covinsky KE. [Functional status--an important but overlooked variable in the readmissions equation](http://www.ncbi.nlm.nih.gov/pubmed/24616273). J Hosp Med. 2014 May;9(5):330-1.
53. Agård AS, Lomborg K, Tønnesen E, Egerod I. [Rehabilitation activities, out-patient visits and employment in patients and partners the first year after ICU: a descriptive study](http://www.ncbi.nlm.nih.gov/pubmed/24332212). Intensive Crit Care Nurs. 2014 Apr;30(2):101-10.
54. Herridge MS, Batt J, Santos CD. [ICU-acquired weakness, morbidity, and death](http://www.ncbi.nlm.nih.gov/pubmed/25127302). Am J Respir Crit Care Med. 2014 Aug 15;190(4):360-2.
55. Adler D, Dupuis-Lozeron E, Richard JC, Janssens JP, Brochard L. [Does inspiratory muscle dysfunction predict readmission after intensive care unit discharge?](http://www.ncbi.nlm.nih.gov/pubmed/25084264) Am J Respir Crit Care Med. 2014 Aug 1;190(3):347-50.
56. Legrand D, Vaes B, Matheï C, Adriaensen W, Van Pottelbergh G, Degryse JM. [Muscle strength and physical performance as predictors of mortality, hospitalization, and disability in the oldest old](http://www.ncbi.nlm.nih.gov/pubmed/24802886). J Am Geriatr Soc. 2014 Jun;62(6):1030-8.
57. Nordon-Craft A, Schenkman M, Edbrooke L, Malone DJ, Moss M, Denehy L. [The physical function intensive care test: implementation in survivors of critical illness](http://www.ncbi.nlm.nih.gov/pubmed/24810863). Phys Ther. 2014 Oct;94(10):1499-507.
58. Elliott D, Davidson JE, Harvey MA, Bemis-Dougherty A, Hopkins RO, Iwashyna TJ, Wagner J, Weinert C, Wunsch H, Bienvenu OJ, Black G, Brady S, Brodsky MB, Deutschman C, Doepp D, Flatley C, Fosnight S, Gittler M, Gomez BT, Hyzy R, Louis D, Mandel R, Maxwell C, Muldoon SR, Perme CS, Reilly C, Robinson MR, Rubin E, Schmidt DM, Schuller J, Scruth E, Siegal E, Spill GR, Sprenger S, Straumanis JP, Sutton P, Swoboda SM, Twaddle ML, Needham DM. [Exploring the Scope of Post-Intensive Care Syndrome Therapy and Care: Engagement of Non-Critical Care Providers and Survivors in a Second Stakeholders Meeting](http://www.ncbi.nlm.nih.gov/pubmed/25083984). Crit Care Med. 2014 Dec;42(12):2518-2526.
59. Sharma R, Anker SD. [Cytokines, apoptosis and cachexia: the potential for TNF antagonism](http://www.ncbi.nlm.nih.gov/pu). Int J Cardiol. 2002 Sep;85(1):161-71.
60. Hooijman PE, Beishuizen A, de Waard MC, de Man FS, Vermeijden JW, Steenvoorde P, Bouwman RA, Lommen W, van Hees HW, Heunks LM, Dickhoff C, van der Peet DL, Girbes AR, Jasper JR, Malik FI, Stienen GJ, Hartemink KJ, Paul MA, Ottenheijm CA. [Diaphragm fiber strength is reduced in critically ill patients and restored by a troponin activator](http://www.ncbi.nlm.nih.gov/pubmed/24684359). Am J Respir Crit Care Med. 2014 Apr 1;189(7):863-5
61. Ackermann KA, Bostock H, Brander L, Schröder R, Djafarzadeh S, Tuchscherer D, Jakob SM, Takala J, Z'Graggen WJ. [Early changes of muscle membrane properties in porcine faecal peritonitis](http://www.ncbi.nlm.nih.gov/pubmed/25145497). Crit Care. 2014 Aug 22;18(4):484.
62. Chao PW, Shih CJ, Lee YJ, Tseng CM, Kuo SC, Shih YN, Chou KT, Tarng DC, Li SY, Ou SM, Chen YT. [Association of postdischarge rehabilitation with mortality in intensive care unit survivors of sepsis](http://www.ncbi.nlm.nih.gov/pubmed/25210792). Am J Respir Crit Care Med. 2014 Nov 1;190(9):1003-11.
63. Renaud G, Llano-Diez M, Ravara B, Gorza L, Feng HZ, Jin JP, Cacciani N, Gustafson AM, Ochala J, Corpeno R, Li M, Hedström Y, Ford GC, Nair KS, Larsson L. [Sparing of muscle mass and function by passive loading in an experimental intensive care unit model](http://www.ncbi.nlm.nih.gov/pubmed/23266938). J Physiol. 2013 Mar 1;591(Pt 5):1385-402.
64. Wade DM, Hankins M, Smyth DA, Rhone EE, Mythen MG, Howell D, Weinman JA. [Detecting acute distress and risk of future psychological morbidity in critically ill patients: Validation of the Intensive care psychological assessment tool](http://www.ncbi.nlm.nih.gov/pubmed/25248614). Crit Care. 2014 Sep 24;18(5):519.
65. Koch S, Wollersheim T, Bierbrauer J, Haas K, Mörgeli R, Deja M, Spies CD, Spuler S, Krebs M, Weber-Carstens S. [Long-term recovery In critical illness myopathy is complete, contrary to polyneuropathy.](http://www.ncbi.nlm.nih.gov/pubmed/24415656) Muscle Nerve. 2014 Sep;50(3):431-6.
66. Han JH, Vasilevskis EE, Shintani A, Graves AJ, Schnelle JF, Dittus RS, Powers JS, Wilson A, Storrow AB, Ely EW. [Impaired arousal at initial presentation predicts 6-month mortality: An analysis of 1084 acutely ill older patients.](http://www.ncbi.nlm.nih.gov/pubmed/25352356) J Hosp Med. 2014 Oct 29.
67. Brown CH , Neufeld KJ, Needham DM. [Delirium, steroids, and cardiac surgery](http://www.ncbi.nlm.nih.gov/pubmed/25329015). Anesth Analg. 2014 Nov;119(5):1011-3.
68. Ahasic AM, Van Ness PH, Murphy TE, Araujo KL, Pisani MA. [Functional status after critical illness: agreement between patient and proxy assessments](http://www.ncbi.nlm.nih.gov/pubmed/25324334). Age Ageing. 2014 Oct 16.
69. Gay PC. [Sleep and sleep-disordered breathing in the hospitalized patient](http://www.ncbi.nlm.nih.gov/pubmed/20800004). Respir Care. 2010 Sep;55(9):1240-54
70. Aitken LM, Burmeister E, McKinley S, Alison J, King M, Leslie G, Elliott D. [Physical recovery in intensive care unit survivors: a cohort analysis.](http://www.ncbi.nlm.nih.gov/pubmed/25554552) Am J Crit Care. 2015 Jan;24(1):33-40.
71. Ferrante LE, Pisani MA, Murphy TE, Gahbauer EA, Leo-Summers LS, Gill TM. [Functional Trajectories Among Older Persons Before and After Critical Illness](http://www.ncbi.nlm.nih.gov/pubmed/25665067). JAMA Intern Med. 2015 Feb 9.
72. Zisberg A, Shadmi E, Gur-Yaish N, Tonkikh O, Sinoff G. [Hospital-associated functional decline: the role of hospitalization processes beyond individual risk factors.](http://www.ncbi.nlm.nih.gov/pubmed/25597557) J Am Geriatr Soc. 2015 Jan;63(1):55-62.
73. Naidech AM, Beaumont JL, Berman M, Liotta E, Maas MB, Prabhakaran S, Kording K, Holl J, Cella D. [Web-Based Assessment of Outcomes After Subarachnoid and Intracerebral Hemorrhage: A New Patient Centered Option for Outcomes Assessment.](http://www.ncbi.nlm.nih.gov/pubmed/25510897) Neurocrit Care. 2014 Dec 16
74. Bienvenu OJ, Colantuoni E, Mendez-Tellez PA, Shanholtz C, Dennison-Himmelfarb CR, Pronovost PJ, Needham DM. [Co-occurrence of and Remission From General Anxiety, Depression, and Posttraumatic Stress Disorder Symptoms After Acute Lung Injury: A 2-Year Longitudinal Study.](http://www.ncbi.nlm.nih.gov/pubmed/25513784) Crit Care Med. 2014 Dec 15.
75. Magnette C, De Saint Hubert M, Swine C, Bouhon S, Jamart J, Dive A, Michaux I. Functional status and medium-term prognosis of very elderly patients after an ICU stay: a prospective observational study. Minerva Anestesiol. 2015 Jan 30.
76. Corner EJ, Hichens LV, Attrill KM, Vizcaychipi MP, Brett SJ, Handy JM. [The **responsiveness** of the **Chelsea** **Critical** Care Physical Assessment tool in measuring functional recovery in the burns **critical** care population: an observational study.](http://www.ncbi.nlm.nih.gov/pubmed/25554262) Burns. 2015 Mar;41(2):241-7.
77. Pape TL, Rosenow JM, Steiner M, Parrish T, Guernon A, Harton B, Patil V, Bhaumik DK, McNamee S, Walker M, Froehlich K, Burress C, Odle C, Wang X, Herrold AA, Zhao W, Reda D, Mallinson T, Conneely M, Nemeth AJ. [Placebo-Controlled Trial of Familiar Auditory Sensory Training for Acute Severe Traumatic Brain Injury: A Preliminary Report.](http://www.ncbi.nlm.nih.gov/pubmed/25613986) Neurorehabil Neural Repair. 2015 Jan 22.
78. Ruhl AP, Lord RK, Panek JA, Colantuoni E, Sepulveda KA, Chong A, Dinglas VD, Shanholtz CB, Pronovost PJ, Steinwachs DM, Needham DM. [Health care resource use and costs of two-year survivors of acute lung injury. An observational cohort study.](http://www.ncbi.nlm.nih.gov/pubmed/25594116) Ann Am Thorac Soc. 2015 Mar;12(3):392-401.
79. Lone NI. [Counting the cost of intensive care unit survivorship after acute lung injury.](http://www.ncbi.nlm.nih.gov/pubmed/25786147) Ann Am Thorac Soc. 2015 Mar;12(3):295-6.
80. Quasim T, Brown J, Kinsella J. [Employment, social dependency and return to work after intensive care](http://inc.sagepub.com/content/early/2014/11/25/1751143714556238.full.pdf+html). JICS 2014.
81. Brummel NE, Balas MC, Morandi A, Ferrante LE, Gill TM, Ely EW. [Understanding and Reducing Disability in Older Adults Following Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/25756418) Crit Care Med. 2015 Mar 9.
82. Kutner NG, Zhang R, Huang Y, Painter P. [Gait Speed and Mortality, Hospitalization, and Functional Status Change Among Hemodialysis Patients: A US Renal Data System Special Study.](http://www.ncbi.nlm.nih.gov/pubmed/25824124) Am J Kidney Dis. 2015 Mar 27.
83. Wintermann GB, Brunkhorst FM, Petrowski K, Strauss B, Oehmichen F, Pohl M, Rosendahl J. [Stress Disorders Following Prolonged Critical Illness in Survivors of Severe Sepsis.](http://www.ncbi.nlm.nih.gov/pubmed/25760659) Crit Care Med. 2015 Mar 10.
84. Walsh TS, Salisbury LG, Merriweather JL, Boyd JA, Griffith DM, Huby G, Kean S, Mackenzie SJ, Krishan A, Lewis SC, Murray GD, Forbes JF, Smith J, Rattray JE, Hull AM, Ramsay P; RECOVER Investigators. [Increased Hospital-Based Physical Rehabilitation and Information Provision After Intensive Care Unit Discharge: The RECOVER Randomized Clinical Trial.](http://www.ncbi.nlm.nih.gov/pubmed/25867659) JAMA Intern Med. 2015 Apr 13.
85. Cox CE, Hough CL. [Improving Functional Recovery After Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/25867081) (Editorial) JAMA Intern Med. 2015 Apr 13.
86. Jones C, Eddleston J, McCairn A, Dowling S, McWilliams D, Coughlan E, Griffiths RD. [Improving rehabilitation after critical illness through outpatient physiotherapy classes and essential amino acid supplement: A randomized controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/26004031) J Crit Care. 2015 May 9. pii: S0883-9441(15)00264-6.
87. Chan KS, Pfoh ER, Denehy L, Elliott D, Holland AE, Dinglas VD, Needham DM. [Construct validity and minimal important difference of 6-minute walk distance in survivors of acute respiratory failure.](http://www.ncbi.nlm.nih.gov/pubmed/25742048) Chest. 2015 May 1;147(5):1316-26.
88. Pfoh ER, Chan KS, Dinglas VD, Girard TD, Jackson JC, Morris PE, Hough CL, Mendez-Tellez PA, Ely EW, Huang M, Needham DM, Hopkins RO; with the NIH NHLBI ARDS Network. [Cognitive screening among acute respiratory failure survivors: a cross-sectional evaluation of the Mini Mental State Examination.](http://www.ncbi.nlm.nih.gov/pubmed/25939482) Crit Care. 2015 May 5;19(1):220.
89. Honselmann KC, Buthut F, Heuwer B, Karadag S, Sayk F, Kurowski V, Thiele H, Droemann D, Wolfrum S. [Long-term mortality and quality of life in intensive care patients treated for pneumonia and/or sepsis: Predictors of mortality and quality of life in patients with sepsis/pneumonia.](http://www.ncbi.nlm.nih.gov/pubmed/25818842) J Crit Care. 2015 Aug;30(4):721-6.
90. Jutte JE, Needham DM, Pfoh ER, Bienvenu OJ. [Psychometric evaluation of the Hospital Anxiety and Depression Scale 3 months after acute lung injury.](http://www.ncbi.nlm.nih.gov/pubmed/25981443) J Crit Care. 2015 Aug;30(4):793-8.
91. Borges RC, Carvalho CR, Colombo AS, da Silva Borges MP, Soriano FG. [Physical activity, muscle strength, and exercise capacity 3 months after severe sepsis and septic shock.](http://www.ncbi.nlm.nih.gov/pubmed/26109398) Intensive Care Med. 2015 Aug;41(8):1433-44
92. Bocci MG, Grieco DL, Lochi S, Minguell Del Lungo L, Pintaudi G, Caricato A, Murri R, Calabrese C, De Belvis AG, Avolio M, Sandroni C, Antonelli M. [Defining needs and goals of post-ICU care for trauma patients: preliminary study.](http://www.ncbi.nlm.nih.gov/pubmed/25875924) Minerva Anestesiol. 2015 Apr 15.
93. Hope AA, Gong MN, Guerra C, Wunsch H. [Frailty Before Critical Illness and Mortality for Elderly Medicare Beneficiaries.](http://www.ncbi.nlm.nih.gov/pubmed/26096386) J Am Geriatr Soc. 2015 Jun;63(6):1121-8.
94. Heyland DK, Garland A, Bagshaw SM, Cook D, Rockwood K, Stelfox HT, Dodek P, Fowler RA, Turgeon AF, Burns K, Muscedere J, Kutsogiannis J, Albert M, Mehta S, Jiang X, Day AG. [Recovery after critical illness in patients aged 80 years or older: a multi-center prospective observational cohort study.](http://www.ncbi.nlm.nih.gov/pubmed/26306719) Intensive Care Med. 2015 Aug 26.
95. Davies H, McKenzie N, Williams TA, Leslie GD, McConigley R, Dobb GJ, Aoun SM. [Challenges during long-term follow-up of ICU patients with and without chronic disease.](http://www.ncbi.nlm.nih.gov/pubmed/25939546) Aust Crit Care. 2015 May 1
96. Ehlenbach WJ, Larson EB, Curtis JR, Hough CL. [Physical Function and Disability After Acute Care and Critical Illness Hospitalizations in a Prospective Cohort of Older Adults.](http://www.ncbi.nlm.nih.gov/pubmed/26415711) J Am Geriatr Soc. 2015 Oct;63(10):2061-9.
97. Biehl M, Kashyap R, Ahmed AH, Reriani MK, Ofoma UR, Wilson GA, Li G, Malinchoc M, Sloan JA, Gajic O. [Six-month quality-of-life and functional status of acute respiratory distress syndrome survivors compared to patients at risk: a population-based study.](http://www.ncbi.nlm.nih.gov/pubmed/26428615) Crit Care. 2015 Oct 2;19:356.
98. Karnatovskaia LV, Johnson MM, Benzo RP, Gajic O. [The spectrum of psychocognitive morbidity in the critically ill: a review of the literature and call for improvement.](http://www.ncbi.nlm.nih.gov/pubmed/25449881) J Crit Care. 2015 Feb;30(1):130-7.
99. Castillo MI, Cooke ML, Macfarlane B, Aitken LM. [Trait Anxiety But Not State Anxiety During Critical Illness Was Associated With Anxiety and Depression Over 6 Months After ICU.](http://www.ncbi.nlm.nih.gov/pubmed/26509321) Crit Care Med. 2015 Oct 27
100. Helle Svenningsen, Ingrid Egerod, Doris Christensen, Else Kirstine Tønnesen, Morten Frydenberg, Poul Videbech [Symptoms of Posttraumatic Stress after Intensive Care Delirium](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4628708/). Biomed Res Int. 2015; 2015: 876947.
101. Ohmori T, Shiota N, Haramo A, Masuda T, Maruyama F, Wakabayashi K, Adachi YU, Nakazawa K. [Post-operative cardiac arrest induced by co-administration of amiodarone and dexmedetomidine: a case report.](http://www.ncbi.nlm.nih.gov/pubmed/26500779) J Intensive Care. 2015 Oct 21;3:43.
102. Orford NR, Lane SE, Bailey M, Pasco JA, Cattigan C, Elderkin T, Brennan-Olsen SL, Bellomo R, Cooper DJ, Kotowicz MA. [Changes in Bone Mineral Density in the Year After Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/26559667) Am J Respir Crit Care Med. 2015 Nov 11
103. Haines K, Berney S, Warrillow S, Denehy L (2014) [Predicting Physical Function and Health Related Quality of Life Following Intensive Care](http://www.omicsonline.org/open-access/predicting-physical-function-and-health-related-quality-of-life-following-intensive-care-2329-9096.1000180.php?aid=23959). Int J Phys Med Rehabil 2:180. doi: 10.4172/2329-9096.1000180
104. Lim et al. [Conceptualizing and measuring health-related quality of life in critical care](http://www.jccjournal.org/article/S0883-9441%2815%2900550-X/abstract). J. Crit Care Volume 31, Issue 1, Pages 183–193
105. Bench S, Day T, Heelas K, Hopkins P, White C, Griffiths P. [Evaluating the feasibility and effectiveness of a critical care discharge information pack for patients and their families: a pilot cluster randomised controlled trial.](http://www.ncbi.nlm.nih.gov/pubmed/26614615) BMJ Open. 2015 Nov 27;5(11):e006852.
106. Aitken LM, Macfarlane B, Chaboyer W, Schuetz M, Joyce C, Barnett AG. [Physical Function and Mental Health in Trauma Intensive Care Patients: A 2-Year Cohort Study.](http://www.ncbi.nlm.nih.gov/pubmed/26646456) Crit Care Med. 2015 Dec 9
107. Mitchell KH, Carlbom D, Caldwell E, Leary PJ, Himmelfarb J, Hough CL. [Volume Overload: Prevalence, Risk Factors, and Functional Outcome in Survivors of Septic Shock.](http://www.ncbi.nlm.nih.gov/pubmed/26394090) Ann Am Thorac Soc. 2015 Dec;12(12):1837-44.
108. Huang M, Parker AM, Bienvenu OJ, Dinglas VD, Colantuoni E, Hopkins RO, Needham DM; with the National Institutes of Health, National Heart, Lung, and Blood Institute Acute Respiratory Distress Syndrome Network. [Psychiatric Symptoms in Acute Respiratory Distress Syndrome Survivors: A 1-Year National Multicenter Study.](http://www.ncbi.nlm.nih.gov/pubmed/26807686) Crit Care Med. 2016 Jan 20.
109. Vitacca M, Barbano L, Vanoglio F, Luisa A, Bernocchi P, Giordano A, Paneroni M. [Does 6-Month Home Caregiver-Supervised Physiotherapy Improve Post-Critical Care Outcomes?: A Randomized Controlled Trial.](http://www.ncbi.nlm.nih.gov/pubmed/26829083) Am J Phys Med Rehabil. 2016 Jan 29.
110. Lone NI, Gillies MA, Haddow C, Dobbie R, Rowan KM, Wild SH, Murray GD, Walsh TS. [Five Year Mortality and Hospital Costs Associated With Surviving Intensive Care.](http://www.ncbi.nlm.nih.gov/pubmed/26815887) Am J Respir Crit Care Med. 2016 Jan 27.
111. Ferrante LE, Pisani MA, Murphy TE, Gahbauer EA, Leo-Summers LS, Gill TM. [Factors Associated with Functional Recovery Among Older ICU Survivors.](http://www.ncbi.nlm.nih.gov/pubmed/26840348) Am J Respir Crit Care Med. 2016 Feb 3
112. Pratt CM, Hirshberg EL, Jones JP, Kuttler KG, Lanspa MJ, Wilson EL, Hopkins RO, Brown SM. [Long-term outcomes after severe shock.](http://www.ncbi.nlm.nih.gov/pubmed/25394248) Shock. 2015 Feb;43(2):128-32
113. Rydingsward JE, Horkan CM, Mogensen KM, Quraishi SA, Amrein K, Christopher KB. [Functional Status in ICU Survivors and Out of Hospital Outcomes: A Cohort Study.](http://www.ncbi.nlm.nih.gov/pubmed/26929191) Crit Care Med. 2016 Feb 26.
114. McNelly AS, Rawal J, Shrikrishna D, Hopkinson NS, Moxham J, Harridge SD, Hart N, Montgomery HE, Puthucheary ZA. [An Exploratory Study of Long-Term Outcome Measures in Critical Illness Survivors: Construct Validity of Physical Activity, Frailty, and Health-Related Quality of Life Measures.](http://www.ncbi.nlm.nih.gov/pubmed/26974547) Crit Care Med. 2016 Mar 11
115. Francis CA, Hoffer JA, Reynolds S. [Ultrasonographic Evaluation of Diaphragm Thickness During Mechanical Ventilation in Intensive Care Patients.](http://www.ncbi.nlm.nih.gov/pubmed/26724302) Am J Crit Care. 2016 Jan;25(1):e1-8.
116. Theodore J Iwashyna, Andrew J Odden [Sepsis after Scotland: enough with the averages, show us the effect modifiers](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3706923/). Crit Care. 2013; 17(3): 148
117. Hill AD, Fowler RA, Pinto R, Herridge MS, Cuthbertson BH, Scales DC. [Long-term outcomes and healthcare utilization following critical illness - a population-based study.](http://www.ncbi.nlm.nih.gov/pubmed/27037030) Crit Care. 2016 Mar 31;20(1):76.
118. Chan KS, Aronson Friedman L, Dinglas VD, Hough CL, Morris PE, Mendez-Tellez PA, Jackson JC, Ely EW, Hopkins RO, Needham DM. [Evaluating Physical Outcomes in Acute Respiratory Distress Syndrome Survivors: Validity, Responsiveness, and Minimal Important Difference of 4-Meter Gait Speed Test.](http://www.ncbi.nlm.nih.gov/pubmed/26963329) Crit Care Med. 2016 May;44(5):859-68.
119. Tipping CJ, Bailey MJ, Bellomo R, Berney S, Buhr H, Denehy L, Harrold M, Holland A, Higgins AM, Iwashyna TJ, Needham D, Presneill J, Saxena M, Skinner EH, Webb S, Young P, Zanni J, Hodgson CL. [The ICU Mobility Scale has Construct and Predictive Validity and is Responsive: A Multicenter Observational Study.](http://www.ncbi.nlm.nih.gov/pubmed/27015233) Ann Am Thorac Soc. 2016 Mar 25.
120. Corner EJ, Handy JM, Brett SJ. [eLearning to facilitate the education and implementation of the Chelsea Critical Care Physical Assessment: a novel measure of function in critical illness.](http://www.ncbi.nlm.nih.gov/pubmed/27067895) BMJ Open. 2016 Apr 11;6(4):e010614.
121. Supinski GS, Westgate P, Callahan LA. [Correlation of maximal inspiratory pressure to transdiaphragmatic twitch pressure in intensive care unit patients.](http://www.ncbi.nlm.nih.gov/pubmed/27036885) Crit Care. 2016 Mar 23;20(1):77.
122. Schellekens WJ, van Hees HW, Doorduin J, Roesthuis LH, Scheffer GJ, van der Hoeven JG, Heunks LM. [Strategies to optimize respiratory muscle function in ICU patients.](http://www.ncbi.nlm.nih.gov/pubmed/27091359) Crit Care. 2016 Apr 19;20(1):103.
123. Huang M, Parker AM, Bienvenu OJ, Dinglas VD, Colantuoni E, Hopkins RO, Needham DM; National Institutes of Health, National Heart, Lung, and Blood Institute Acute Respiratory Distress Syndrome Network. [Psychiatric Symptoms in Acute Respiratory Distress Syndrome Survivors: A 1-Year National Multicenter Study.](http://www.ncbi.nlm.nih.gov/pubmed/26807686) Crit Care Med. 2016 May;44(5):954-65.
124. Hopkins RO, Suchyta MR, Beene K, Jackson JC. [Critical illness acquired brain injury: Neuroimaging and implications for rehabilitation.](http://www.ncbi.nlm.nih.gov/pubmed/27196858) Rehabil Psychol. 2016 May;61(2):151-64.
125. Locke M, Eccleston S, Ryan CN, Byrnes TJ, Mount C, McCarthy MS. [Developing a Diary Program to Minimize Patient and Family Post-Intensive Care Syndrome.](http://www.ncbi.nlm.nih.gov/pubmed/27153310) AACN Adv Crit Care. 2016 Apr-Jun;27(2):212-20
126. Boezeman EJ, Hofhuis JG, Hovingh A, Cox CE, de Vries RE, Spronk PE. [Measuring Adaptive Coping of Hospitalized Patients With a Severe Medical Condition: The Sickness Insight in Coping Questionnaire.](http://www.ncbi.nlm.nih.gov/pubmed/27088158) Crit Care Med. 2016 Apr 15
127. Norman BC, Jackson JC, Graves JA, Girard TD, Pandharipande PP, Brummel NE, Wang L, Thompson JL, Chandrasekhar R, Ely EW. [Employment Outcomes After Critical Illness: An Analysis of the Bringing to Light the Risk Factors and Incidence of Neuropsychological Dysfunction in ICU Survivors Cohort.](http://www.ncbi.nlm.nih.gov/pubmed/27171492) Crit Care Med. 2016 May 11
128. Stucky, Kirk; Jutte, Jennifer E.; Warren, Ann Marie; Jackson, James C.; Merbitz, Nancy A survey of psychology practice in critical-care settings. Rehabilitation Psychology, Vol 61(2), May 2016, 201-209
129. Cox CE, Wysham NG, Kamal AH, Jones DM, Cass B, Tobin M, White DB, Kahn JM, Hough CL, Carson SS. [Usability Testing of an Electronic Patient-Reported Outcome System for Survivors of Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/27369033) Am J Crit Care. 2016 Jul;25(4):340-9.
130. Farley KJ, Eastwood GM, Bellomo R. [A feasibility study of functional status and follow-up clinic preferences of patients at high risk of post intensive care syndrome.](http://www.ncbi.nlm.nih.gov/pubmed/27246943) Anaesth Intensive Care. 2016 May;44(3):413-9.
131. Stucky K, Jutte JE, Warren AM, Jackson JC, Merbitz N. [A survey of psychology practice in critical-care settings.](http://www.ncbi.nlm.nih.gov/pubmed/27196862) Rehabil Psychol. 2016 May;61(2):201-9.
132. Schmidt K, Worrack S, Von Korff M, Davydow D, Brunkhorst F, Ehlert U, Pausch C, Mehlhorn J, Schneider N, Scherag A, Freytag A, Reinhart K, Wensing M, Gensichen J; SMOOTH Study Group. [Effect of a Primary Care Management Intervention on Mental Health-Related Quality of Life Among Survivors of Sepsis: A Randomized Clinical Trial.](http://www.ncbi.nlm.nih.gov/pubmed/27367877) JAMA. 2016 Jun 28;315(24):2703-11
133. Patel MB, Jackson JC, Morandi A, Girard TD, Hughes CG, Thompson JL, Kiehl AL, Elstad MR, Wasserstein ML, Goodman RB, Beckham JC, Chandrasekhar R, Dittus RS, Ely EW, Pandharipande PP. [Incidence and Risk Factors for Intensive Care Unit-related Post-traumatic Stress Disorder in Veterans and Civilians.](http://www.ncbi.nlm.nih.gov/pubmed/26735627) Am J Respir Crit Care Med. 2016 Jun 15;193(12):1373-81
134. Ghorabi S, Ardehali H, Amiri Z, Vahdat Shariatpanahi Z. [Association of the Adductor Pollicis Muscle Thickness With Clinical Outcomes in Intensive Care Unit Patients.](http://www.ncbi.nlm.nih.gov/pubmed/26869610) Nutr Clin Pract. 2016 Aug;31(4):523-6.
135. Maley JH, Brewster I, Mayoral I, Siruckova R, Adams S, McGraw KA, Piech AA, Detsky M, Mikkelsen ME. [Resilience in Survivors of Critical Illness in the Context of the Survivors' Experience and Recovery.](http://www.ncbi.nlm.nih.gov/pubmed/27159794) Ann Am Thorac Soc. 2016 Aug;13(8):1351-60.
136. Pfoh ER, Chan KS, Dinglas VD, Cuthbertson BH, Elliott D, Porter R, Bienvenu OJ, Hopkins RO, Needham DM. [The SF-36 Offers a Strong Measure of Mental Health Symptoms in Survivors of Acute Respiratory Failure. A Tri-National Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/27111262) Ann Am Thorac Soc. 2016 Aug;13(8):1343-50.
137. Wolters AE, Peelen LM, Welling MC, Kok L, de Lange DW, Cremer OL, van Dijk D, Slooter AJ, Veldhuijzen DS. [Long-Term Mental Health Problems After Delirium in the ICU.](http://www.ncbi.nlm.nih.gov/pubmed/27513540) Crit Care Med. 2016 Aug 2.
138. Hshieh TT, Saczynski J, Gou RY, Marcantonio E, Jones RN, Schmitt E, Cooper Z, Ayres D, Wright J, Travison TG, Inouye SK; SAGES Study Group. [Trajectory of Functional Recovery After Postoperative Delirium in Elective Surgery.](http://www.ncbi.nlm.nih.gov/pubmed/27501176) Ann Surg. 2016 Aug 5.
139. Pfoh ER, Wozniak AW, Colantuoni E, Dinglas VD, Mendez-Tellez PA, Shanholtz C, Ciesla ND, Pronovost PJ, Needham DM. [Physical declines occurring after hospital discharge in ARDS survivors: a 5-year longitudinal study.](http://www.ncbi.nlm.nih.gov/pubmed/27637716) Intensive Care Med. 2016 Sep 16
140. Haas B, Wunsch H. [How does prior health status (age, comorbidities and frailty) determine critical illness and outcome?](http://www.ncbi.nlm.nih.gov/pubmed/27478965) Curr Opin Crit Care. 2016 Oct;22(5):500-5
141. Kelmenson DA, Quan D, Nordon-Craft A, Malone D, Schenkman M, Moss M. [Electrophysiological abnormalities can differentiate pre-hospital discharge functional status in critically ill patients with normal strength.](http://www.ncbi.nlm.nih.gov/pubmed/27334267) Intensive Care Med. 2016 Sep;42(9):1504-5
142. Chan KS, Aronson Friedman L, Bienvenu OJ, Dinglas VD, Cuthbertson BH, Porter R, Jones C, Hopkins RO, Needham DM. [Distribution-based estimates of minimal important difference for hospital anxiety and depression scale and impact of event scale-revised in survivors of acute respiratory failure.](http://www.ncbi.nlm.nih.gov/pubmed/27638969) Gen Hosp Psychiatry. 2016 Sep-Oct;42:32-5
143. Swinton M, Giacomini M, Toledo F, Rose T, Hand-Breckenridge T, Boyle A, Woods A, Clarke F, Shears M, Sheppard R, Cook D. [Experiences and Expressions of Spirituality At the End of Life in the Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/27525361) Am J Respir Crit Care Med. 2016 Aug 15
144. Solverson KJ, Grant C, Doig CJ. [Assessment and predictors of physical functioning post-hospital discharge in survivors of critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/27646108) Ann Intensive Care. 2016 Dec;6(1):92.
145. Ruhl AP, Huang M, Colantuoni E, Lord RK, Dinglas VD, Chong A, Sepulveda KA, Mendez-Tellez PA, Shanholtz CB, Steinwachs DM, Pronovost PJ, Needham DM. [Healthcare Resource Use and Costs in Long-Term Survivors of Acute Respiratory Distress Syndrome: A 5-Year Longitudinal Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/27748659) Crit Care Med. 2016 Sep 29.
146. Duggan MC, Wang L, Wilson JE, Dittus RS, Ely EW, Jackson JC. [The relationship between executive dysfunction, depression, and mental health-related quality of life in survivors of critical illness: Results from the BRAIN-ICU investigation.](https://www.ncbi.nlm.nih.gov/pubmed/27652496) J Crit Care. 2016 Aug 31;37:72-79.
147. Jensen JF, Egerod I, Bestle MH, Christensen DF, Elklit A, Hansen RL, Knudsen H, Grode LB, Overgaard D. [A recovery program to improve quality of life, sense of coherence and psychological health in ICU survivors: a multicenter randomized controlled trial, the RAPIT study.](https://www.ncbi.nlm.nih.gov/pubmed/27695894) Intensive Care Med. 2016 Nov;42(11):1733-1743.
148. Herridge MS, Chu LM, Matte A, Tomlinson G, Chan L, Thomas C, Friedrich JO, Mehta S, Lamontagne F, Levasseur M, Ferguson ND, Adhikari NK, Rudkowski JC, Meggison H, Skrobik Y, Flannery J, Bayley M, Batt J, Santos CD, Abbey SE, Tan A, Lo V, Mathur S, Parotto M, Morris D, Flockhart L, Fan E, Lee CM, Wilcox ME, Ayas N, Choong K, Fowler R, Scales DC, Sinuff T, Cuthbertson BH, Rose L, Robles P, Burns S, Cypel M, Singer L, Chaparro C, Chow CW, Keshavjee S, Brochard L, Hebert P, Slutsky AS, Marshall JC, Cook D, Cameron JI; RECOVER Program Investigators (Phase 1: towards RECOVER).; Canadian Critical Care Trials Group.. [The RECOVER Program: Disability Risk Groups and 1-Year Outcome after 7 or More Days of Mechanical Ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/26974173) Am J Respir Crit Care Med. 2016 Oct 1;194(7):831-844.
149. Brummel NE, Bell SP, Girard TD, Pandharipande PP, Jackson JC, Morandi A, Thompson JL, Chandrasekhar R, Bernard GR, Dittus RS, Gill TM, Ely EW. [Frailty and Subsequent Disability and Mortality Among Patients With Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/27922747) Am J Respir Crit Care Med. 2016 Dec 6.
150. Zampieri FG, Bozza FA, Moralez GM, Mazza DD, Scotti AV, Santino MS, Ribeiro RA, Rodrigues Filho EM, Cabral MM, Maia MO, D'Alessandro PS, Oliveira SV, Menezes MA, Caser EB, Lannes RS, Alencar Neto MS, Machado MM, Sousa MF, Salluh JI, Soares M. [The effects of performance status one week before hospital admission on the outcomes of critically ill patients.](https://www.ncbi.nlm.nih.gov/pubmed/27686352) Intensive Care Med. 2017 Jan;43(1):39-47.
151. Hill AD, Fowler RA, Burns KE, Rose L, Pinto RL, Scales DC. [Long-term Outcomes and Health Care Utilization Following Prolonged Mechanical Ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/28033033) Ann Am Thorac Soc. 2016 Dec 29.
152. Pérez-Zepeda MU, Sgaravatti A, Dent E. [Sarcopenia and post-hospital outcomes in older adults: A longitudinal study.](https://www.ncbi.nlm.nih.gov/pubmed/27914295) Arch Gerontol Geriatr. 2017 Mar - Apr;69:105-109
153. de Azevedo JR, Montenegro WS, Rodrigues DP, de C Souza SC, Araujo VF, de Paula MP, Prazeres PH, da Luz Leitão A, Mendonça AV. [Long-term cognitive outcomes among unselected ventilated and non-ventilated ICU patients.](https://www.ncbi.nlm.nih.gov/pubmed/28239475) J Intensive Care. 2017 Feb 17;5:18. doi: 10.1186/s40560-017-0213-4.
154. Gawlytta R, Niemeyer H, Böttche M, Scherag A, Knaevelsrud C, Rosendahl J. [Internet-based cognitive-behavioural writing therapy for reducing post-traumatic stress after intensive care for sepsis in patients and their spouses (REPAIR): study protocol for a randomised-controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28232467) BMJ Open. 2017 Feb 22;7(2):e014363.
155. Shelly AG, Prabhu NS, Jirange P, Kamath A, Vaishali K. [Quality of Life Improves with Individualized Home-based Exercises in Critical Care Survivors.](https://www.ncbi.nlm.nih.gov/pubmed/28250604) Indian J Crit Care Med. 2017 Feb;21(2):89-93
156. Brown SM, Wilson E, Presson AP, Zhang C, Dinglas VD, Greene T, Hopkins RO, Needham DM; with the National Institutes of Health NHLBI ARDS Network.. [Predictors of 6-month health utility outcomes in survivors of acute respiratory distress syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/27440140) Thorax. 2017 Apr;72(4):311-317
157. Lamas DJ, Owens RL, Nace RN, Massaro AF, Pertsch NJ, Gass J, Bernacki RE, Block SD. [Opening the Door: The Experience of Chronic Critical Illness in a Long-Term Acute Care Hospital.](https://www.ncbi.nlm.nih.gov/pubmed/27632675) Crit Care Med. 2017 Apr;45(4):e357-e362.
158. Pollack LR, Goldstein NE, Gonzalez WC, Blinderman CD, Maurer MS, Lederer DJ, Baldwin MR. [The Frailty Phenotype and Palliative Care Needs of Older Survivors of Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/28263377) J Am Geriatr Soc. 2017 Mar 6.
159. Chapple LS, Deane AM, Williams LT, Strickland R, Schultz C, Lange K, Heyland DK, Chapman MJ. [Longitudinal changes in anthropometrics and impact on self-reported physical function after traumatic brain injury.](https://www.ncbi.nlm.nih.gov/pubmed/28215129) Crit Care Resusc. 2017 Mar;19(1):29-36.
160. Orford NR, Bailey M, Bellomo R, Pasco JA, Cattigan C, Elderkin T, Brennan-Olsen SL, Cooper DJ, Kotowicz MA. [The association of time and medications with changes in bone mineral density in the 2 years after critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/28327171) Crit Care. 2017 Mar 21;21(1):69.
161. Erbs GC, Mastroeni MF, Pinho MS, Koenig Á, Sperotto G, Ekwaru JP, Westphal GA. [Comorbidities Might Condition the Recovery of Quality of Life in Survivors of Sepsis.](https://www.ncbi.nlm.nih.gov/pubmed/28359215) J Intensive Care Med. 2017 Jan 1
162. Spencer-Segal JL, Hyzy RC, Iwashyna TJ, Standiford TJ. [Psychiatric Symptoms in Survivors of the Acute Respiratory Distress Syndrome: Effects of Age, Sex, and Immune Modulation.](https://www.ncbi.nlm.nih.gov/pubmed/28358594) Ann Am Thorac Soc. 2017 Mar 30.
163. Hodgson CL, Udy AA, Bailey M, Barrett J, Bellomo R, Bucknall T, Gabbe BJ, Higgins AM, Iwashyna TJ, Hunt-Smith J, Murray LJ, Myles PS, Ponsford J, Pilcher D, Walker C, Young M, Cooper DJ. [The impact of disability in survivors of critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/28534110) Intensive Care Med. 2017 May 22.
164. Ahasic AM, Van Ness PH, Murphy TE, Araujo KL, Pisani MA. [Functional status after critical illness: agreement between patient and proxy assessments.](https://www.ncbi.nlm.nih.gov/pubmed/25324334) Age Ageing. 2015 May;44(3):506-10.
165. Parker Ruhl A, Huang M, Colantuoni E, Karmarkar T, Dinglas VD, Hopkins RO, Needham DM; With the National Institutes of Health, National Heart, Lung, and Blood Institute Acute Respiratory Distress Syndrome Network. [Healthcare utilization and costs in ARDS survivors: a 1-year longitudinal national US multicenter study.](https://www.ncbi.nlm.nih.gov/pubmed/28550403) Intensive Care Med. 2017 May 26.
166. Kamdar BB, Huang M, Dinglas VD, Colantuoni E, von Wachter TM, Hopkins RO, Needham DM; National Heart, Lung, and Blood Institute Acute Respiratory Distress Syndrome Network.. [Joblessness and Lost Earnings After ARDS in a 1-Year National Multicenter Study.](https://www.ncbi.nlm.nih.gov/pubmed/28448162) Am J Respir Crit Care Med. 2017 Apr 27.
167. Paneroni M, D' Abrosca F, Fokom G, Comini L, Vitacca M. [Volitional rehabilitative assessments in patients admitted in a post-intensive care step down unit. A feasibility study.](https://www.ncbi.nlm.nih.gov/pubmed/28635194) Monaldi Arch Chest Dis. 2017 May 18;87(1):764
168. Chung CR, Yoo HJ, Park J, Ryu S. [Cognitive Impairment and Psychological Distress at Discharge from Intensive Care Unit.](https://www.ncbi.nlm.nih.gov/pubmed/28539958) Psychiatry Investig. 2017 May;14(3):376-379.
169. Dinglas VD, Chessare CM, Davis WE, Parker A, Friedman LA, Colantuoni E, Bingham CO, Turnbull AE, Needham DM. [Perspectives of survivors, families and researchers on key outcomes for research in acute respiratory failure.](https://www.ncbi.nlm.nih.gov/pubmed/28756400) Thorax. 2017 Jul 29. pii: thoraxjnl-2017-210234
170. Yaffe PB, Green RS, Butler MB, Witter T. [Is Admission to the Intensive Care Unit Associated With Chronic Opioid Use? A 4-Year Follow-Up of Intensive Care Unit Survivors.](https://www.ncbi.nlm.nih.gov/pubmed/26609023) J Intensive Care Med. 2017 Aug;32(7):429-435.
171. Ceri E Battle, Karen James, Tom Bromfield, Paul Temblett Predictors of post-traumatic stress disorder following critical illness: A mixed methods study. <https://doi.org/10.1177/1751143717713853>
172. Tramm R, Ilic D, Sheldrake J, Pellegrino V, Hodgson C. [Recovery, Risks, and Adverse Health Outcomes in Year 1 After Extracorporeal Membrane Oxygenation.](https://www.ncbi.nlm.nih.gov/pubmed/28668917) Am J Crit Care. 2017 Jul;26(4):311-319
173. Neumeier A, Nordon-Craft A, Malone D, Schenkman M, Clark B, Moss M. [Prolonged acute care and post-acute care admission and recovery of physical function in survivors of acute respiratory failure: a secondary analysis of a randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28732512) Crit Care. 2017 Jul 21;21(1):190
174. Dykes PC, Rozenblum R, Dalal A, Massaro A, Chang F, Clements M, Collins S, Donze J, Fagan M, Gazarian P, Hanna J, Lehmann L, Leone K, Lipsitz S, McNally K, Morrison C, Samal L, Mlaver E, Schnock K, Stade D, Williams D, Yoon C, Bates DW. [Prospective Evaluation of a Multifaceted Intervention to Improve Outcomes in Intensive Care: The Promoting Respect and Ongoing Safety Through Patient Engagement Communication and Technology Study.](https://www.ncbi.nlm.nih.gov/pubmed/28471886) Crit Care Med. 2017 Aug;45(8):e806-e813
175. Jónasdóttir RJ, Jónsdóttir H, Gudmundsdottir B, Sigurdsson GH. [Psychological recovery after intensive care: Outcomes of a long-term quasi-experimental study of structured nurse-led follow-up.](https://www.ncbi.nlm.nih.gov/pubmed/28739293) Intensive Crit Care Nurs. 2017 Jul 21. pii: S0964-3397(17)30080-0.
176. Prescott HC, Sjoding MW, Langa KM, Iwashyna TJ, McAuley DF. [Late mortality after acute hypoxic respiratory failure.](https://www.ncbi.nlm.nih.gov/pubmed/28780503) Thorax. 2017 Aug 5. pii: thoraxjnl-2017-210109
177. Dziadzko V, Dziadzko MA, Johnson MM, Gajic O, Karnatovskaia LV. [Acute psychological trauma in the critically ill: Patient and family perspectives.](https://www.ncbi.nlm.nih.gov/pubmed/28807140) Gen Hosp Psychiatry. 2017 Jul;47:68-74.
178. La MK, Thompson Bastin ML, Gisewhite JT, Johnson CA, Flannery AH. [Impact of restarting home neuropsychiatric medications on sedation outcomes in medical intensive care unit patients.](https://www.ncbi.nlm.nih.gov/pubmed/28865338) J Crit Care. 2017 Jul 29;43:102-107
179. Kelmenson DA, Held N, Allen RR, Quan D, Burnham EL, Clark BJ, Ho PM, Kiser TH, Vandivier RW, Moss M. [Outcomes of ICU Patients With a Discharge Diagnosis of Critical Illness Polyneuromyopathy: A Propensity-Matched Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29019851) Crit Care Med. 2017 Dec;45(12):2055-2060
180. Abdulai RM, Jellesmark Jensen T, Patel NR, Polkey MI, Jansson P, Celli BR, Rennard SI. [Deterioration of Limb Muscle Function During Acute Exacerbation of Chronic Obstructive Pulmonary Disease.](https://www.ncbi.nlm.nih.gov/pubmed/29064260) Am J Respir Crit Care Med. 2017 Oct 24. doi: 10.1164/rccm.201703-0615CI
181. Brown SM, Wilson EL, Presson AP, Dinglas VD, Greene T, Hopkins RO, Needham DM; with the National Institutes of Health NHLBI ARDS Network. [Understanding patient outcomes after acute respiratory distress syndrome: identifying subtypes of physical, cognitive and mental health outcomes.](https://www.ncbi.nlm.nih.gov/pubmed/28778920) Thorax. 2017 Dec;72(12):1094-1103
182. Ehlenbach WJ, Gilmore-Bykovskyi A, Repplinger MD, Westergaard RP, Jacobs EA, Kind AJH, Smith M. [Sepsis Survivors Admitted to Skilled Nursing Facilities: Cognitive Impairment, Activities of Daily Living Dependence, and Survival.](https://www.ncbi.nlm.nih.gov/pubmed/28991827) Crit Care Med. 2017 Oct 6. doi: 10.1097/CCM.0000000000002755.
183. Jónasdóttir RJ, Jones C, Sigurdsson GH, Jonsdottir H. [Structured nurse-led follow-up for patients after discharge from the intensive care unit: prospective quasi-experimental study.](https://www.ncbi.nlm.nih.gov/pubmed/29047153) J Adv Nurs. 2017 Oct 19. doi: 10.1111/jan.13485.
184. Laxton, L. (2017). I[mplementing the ICU diary in the medical intensive care unit](http://www.otacco.org/assets/docs/Implementing%20the%20ICU%20Diary%20in%20the%20Medical%20Intensive%20Care%20Unit.pdf). SIS Quarterly Practice Connections,2(2), 19–20.
185. Dziadzko V, Dziadzko MA, Johnson MM, Gajic O, Karnatovskaia LV. [Acute psychological trauma in the critically ill: Patient and family perspectives.](https://www.ncbi.nlm.nih.gov/pubmed/28807140) Gen Hosp Psychiatry. 2017 Jul;47:68-74
186. van Beusekom I, Bakhshi-Raiez F, de Keizer NF, van der Schaaf M, Busschers WB, Dongelmans DA. [Healthcare costs of ICU survivors are higher before and after ICU admission compared to a population based control group: A descriptive study combining healthcare insurance data and data from a Dutch national quality registry.](https://www.ncbi.nlm.nih.gov/pubmed/29274597) J Crit Care. 2017 Dec 14;44:345-351
187. Milton A, Brück E, Schandl A, Bottai M, Sackey P. [Early psychological screening of intensive care unit survivors: a prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/29121983) Crit Care. 2017 Nov 9;21(1):273.
188. Brown SM, Wilson EL, Presson AP, Dinglas VD, Greene T, Hopkins RO, Needham DM; with the National Institutes of Health NHLBI ARDS Network. [Understanding patient outcomes after acute respiratory distress syndrome: identifying subtypes of physical, cognitive and mental health outcomes.](https://www.ncbi.nlm.nih.gov/pubmed/28778920) Thorax. 2017 Dec;72(12):1094-1103
189. Griffith DM, Salisbury LG, Lee RJ, Lone N, Merriweather JL, Walsh TS; RECOVER Investigators. [Determinants of Health-Related Quality of Life After ICU: Importance of Patient Demographics, Previous Comorbidity, and Severity of Illness.](https://www.ncbi.nlm.nih.gov/pubmed/29293149) Crit Care Med. 2018 Jan 2. doi: 10.1097/CCM.0000000000002952
190. Geense W, Zegers M, Vermeulen H, van den Boogaard M, van der Hoeven J. [MONITOR-IC study, a mixed methods prospective multicentre controlled cohort study assessing 5-year outcomes of ICU survivors and related healthcare costs: a study protocol.](https://www.ncbi.nlm.nih.gov/pubmed/29138206) BMJ Open. 2017 Nov 14;7(11):e018006. doi: 10.1136/bmjopen-2017-018006.
191. Milton A, Brück E, Schandl A, Bottai M, Sackey P. [Early psychological screening of intensive care unit survivors: a prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/29121983) Crit Care. 2017 Nov 9;21(1):273.
192. Bashar FR, Vahedian-Azimi A, Hajiesmaeili M, Salesi M, Farzanegan B, Shojaei S, Goharani R, Madani SJ, Moghaddam KG, Hatamian S, Moghaddam HJ, Mosavinasab SMM, Elamin EM, Miller AC; MORZAK Collaborative. [Post-ICU psychological morbidity in very long ICU stay patients with ARDS and delirium.](https://www.ncbi.nlm.nih.gov/pubmed/28854401) J Crit Care. 2018 Feb;43:88-94
193. Schoeman T, Sundararajan K, Micik S, Sarada P, Edwards S, Poole A, Chapman M. [The impact on new-onset stress and PTSD in relatives of critically ill patients explored by diaries study (The "INSPIRED" study).](https://www.ncbi.nlm.nih.gov/pubmed/29254812) Aust Crit Care. 2017 Dec 15. pii: S1036-7314(17)30263-1
194. Garrouste-Orgeas M, Flahault C, Fasse L, Ruckly S, Amdjar-Badidi N, Argaud L, Badie J, Bazire A, Bige N, Boulet E, Bouadma L, Bretonnière C, Floccard B, Gaffinel A, de Forceville X, Grand H, Halidfar R, Hamzaoui O, Jourdain M, Jost PH, Kipnis E, Large A, Lautrette A, Lesieur O, Maxime V, Mercier E, Mira JP, Monseau Y, Parmentier-Decrucq E, Rigaud JP, Rouget A, Santoli F, Simon G, Tamion F, Thieulot-Rolin N, Thirion M, Valade S, Vinatier I, Vioulac C, Bailly S, Timsit JF. [The ICU-Diary study: prospective, multicenter comparative study of the impact of an ICU diary on the wellbeing of patients and families in French ICUs.](https://www.ncbi.nlm.nih.gov/pubmed/29141694) Trials. 2017 Nov 15;18(1):542.
195. Bunker L, Hshieh TT, Wong B, Schmitt EM, Travison T, Yee J, Palihnich K, Metzger E, Fong TG, Inouye SK. [The SAGES telephone neuropsychological battery: correlation with in-person measures.](https://www.ncbi.nlm.nih.gov/pubmed/27507320) Int J Geriatr Psychiatry. 2017 Sep;32(9):991-999
196. Hughes CG, Patel MB, Jackson JC, Girard TD, Geevarghese SK, Norman BC, Thompson JL, Chandrasekhar R, Brummel NE, May AK, Elstad MR, Wasserstein ML, Goodman RB, Moons KG, Dittus RS, Ely EW, Pandharipande PP; MIND-ICU, BRAIN-ICU investigators. [Surgery and Anesthesia Exposure Is Not a Risk Factor for Cognitive Impairment After Major Noncardiac Surgery and Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/27433893) Ann Surg. 2017 Jun;265(6):1126-1133
197. Kamdar BB, Sepulveda KA, Chong A, Lord RK, Dinglas VD, Mendez-Tellez PA, Shanholtz C, Colantuoni E, von Wachter TM, Pronovost PJ, Needham DM. [Return to work and lost earnings after acute respiratory distress syndrome: a 5-year prospective, longitudinal study of long-term survivors.](https://www.ncbi.nlm.nih.gov/pubmed/28918401) Thorax. 2018 Feb;73(2):125-133
198. Haines KJ, Berney S, Warrillow S, Denehy L. [Long-term recovery following critical illness in an Australian cohort.](https://www.ncbi.nlm.nih.gov/pubmed/29445502) J Intensive Care. 2018 Feb 5;6:8
199. Wilson ME, Barwise A, Heise KJ, Loftsgard TO, Dziadzko M, Cheville A, Majzoub A, Novotny PJ, Gajic O, Biehl M. [Long-Term Return to Functional Baseline After Mechanical Ventilation in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/29261564) Crit Care Med. 2017 Dec 19.
200. Files DC, Neiberg R, Rushing J, Morris PE, Young MP, Ayonayon H, Harris T, Newman A, Rubin S, Shiroma E, Houston D, Miller ME, Kritchevsky SB. [Influence of Prehospital Function and Strength on Outcomes of Critically Ill Older Adults.](https://www.ncbi.nlm.nih.gov/pubmed/29322491) J Am Geriatr Soc. 2018 Jan 11
201. Nedergaard HK, Haberlandt T, Reichmann PD, Toft P, Jensen HI. [Patients' opinions on outcomes following critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/29315454) Acta Anaesthesiol Scand. 2018 Jan 7.
202. Gayat E, Cariou A, Deye N, Vieillard-Baron A, Jaber S, Damoisel C, Lu Q, Monnet X, Rennuit I, Azoulay E, Léone M, Oueslati H, Guidet B, Friedman D, Tesnière A, Sonneville R, Montravers P, Pili-Floury S, Lefrant JY, Duranteau J, Laterre PF, Brechot N, Chevreul K, Michel M, Cholley B, Legrand M, Launay JM, Vicaut E, Singer M, Resche-Rigon M, Mebazaa A. [Determinants of long-term outcome in ICU survivors: results from the FROG-ICU study.](https://www.ncbi.nlm.nih.gov/pubmed/29347987) Crit Care. 2018 Jan 18;22(1):8
203. Kjaer MN, Mortensen CB, Hjortrup PB, Rygård SL, Andersen I, Perner A. [Factors associated with non-response at health-related quality of life follow-up in a septic shock trial.](https://www.ncbi.nlm.nih.gov/pubmed/29282713) Acta Anaesthesiol Scand. 2018 Mar;62(3):357-366
204. Zhao J, Yao L, Wang C, Sun Y, Sun Z. [The effects of cognitive intervention on cognitive impairments after intensive care unit admission.](https://www.ncbi.nlm.nih.gov/pubmed/26313129) Neuropsychol Rehabil. 2017 Apr;27(3):301-317
205. Lee CH, Lai CL, Sung YH, Lai MY, Lin CY, Lin LY. [Comparing effects between music intervention and aromatherapy on anxiety of patients undergoing mechanical ventilation in the intensive care unit: a randomized controlled trial.](https://www.ncbi.nlm.nih.gov/pubmed/28236262) Qual Life Res. 2017 Jul;26(7):1819-1829
206. Chan KS, Mourtzakis M, Aronson Friedman L, Dinglas VD, Hough CL, Ely EW, Morris PE, Hopkins RO, Needham DM; National Institutes of Health National Heart, Lung, and Blood Institute (NHLBI) Acute Respiratory Distress Syndrome (ARDS) Network. [Evaluating Muscle Mass in Survivors of Acute Respiratory Distress Syndrome: A 1-Year Multicenter Longitudinal Study.](https://www.ncbi.nlm.nih.gov/pubmed/29727365) Crit Care Med. 2018 May 4
207. Marra A, Pandharipande PP, Girard TD, Patel MB, Hughes CG, Jackson JC, Thompson JL, Chandrasekhar R, Ely EW, Brummel NE. [Cooccurrence of Post-Intensive Care Syndrome Problems Among 406 Survivors of Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/29787415) Crit Care Med. 2018 May 21. doi: 10.1097/CCM.0000000000003218
208. Ferrand N, Zaouter C, Chastel B, Faye K, Fleureau C, Roze H, Dewitte A, Ouattara A. [Health related quality of life and predictive factors six months after intensive **care** unit discharge.](https://www.ncbi.nlm.nih.gov/pubmed/29864552) Anaesth Crit **Care** Pain Med. 2018 Jun 1. pii: S2352-5568(17)30219-9
209. Cox CE, Hough CL, Jones DM, Ungar A, Reagan W, Key MD, Gremore T, Olsen MK, Sanders L, Greeson JM, Porter LS. [Effects of mindfulness training programmes delivered by a self-directed mobile app and by telephone compared with an education programme for survivors of critical illness: a pilot randomised clinical trial.](https://www.ncbi.nlm.nih.gov/pubmed/29793970) Thorax. 2018 May 23. pii: thoraxjnl-2017-211264
210. Sevin CM, Bloom SL, Jackson JC, Wang L, Ely EW, Stollings JL. [Comprehensive care of ICU survivors: Development and implementation of an ICU recovery center.](https://www.ncbi.nlm.nih.gov/pubmed/29929705) J Crit Care. 2018 Aug;46:141-148
211. Heins SE, Wozniak AW, Colantuoni E, Sepulveda KA, Mendez-Tellez PA, Dennison-Himmelfarb C, Needham DM, Dinglas VD. [Factors associated with missed assessments in a 2-year longitudinal study of acute respiratory distress syndrome survivors.](https://www.ncbi.nlm.nih.gov/pubmed/29907087) BMC Med Res Methodol. 2018 Jun 15;18(1):55.
212. Goldwater DS, Dharmarajan K, McEwan BS, Krumholz HM. [Is Posthospital Syndrome a Result of Hospitalization-Induced Allostatic Overload?](https://www.ncbi.nlm.nih.gov/pubmed/29813141) J Hosp Med. 2018 May 30;13(5).
213. Baker AM, Holbrook JT, Yohannes AM, Eakin MN, Sugar EA, Henderson RJ, Casper AS, Kaminsky DA, Rea AL, Mathews AM, Que LG, Ramsdell JW, Gerald LB, Wise RA, Hanania NA; for American Lung Association Airways Clinical Research Centers. [Test Performance Characteristics of the AIR, GAD-7 and HADS-Anxiety Screening Questionnaires for Anxiety in Chronic Obstructive Pulmonary Disease.](https://www.ncbi.nlm.nih.gov/pubmed/29986152) Ann Am Thorac Soc. 2018 Jul 9.
214. Golovyan DM, Khan SH, Wang S, Khan BA. [What should I address at follow-up of patients who survive critical illness?](https://www.ncbi.nlm.nih.gov/pubmed/30004376) Cleve Clin J Med. 2018 Jul;85(7):523-526
215. Winterman et al. Predictors of Major Depressive Disorder following Intensive Care of Chronically Critically Ill Patients. Critical Care Research and Practice 2018, https://doi.org/10.1155/2018/1586736
216. Rosa RG, Kochhann R, Berto P, Biason L, Maccari JG, De Leon P, Dutra F, da Silva SF, Sganzerla D, Schneider D, Cardoso PR, Gomes FK, Machado VH, Medeiros G, Tonietto TF, Tagliari L, Mattioni M, Anzolin L, Oliveira M, de Andrade JMS, Falavigna M, Robinson CC, Teixeira C. [More than the tip of the iceberg: association between disabilities and inability to attend a clinic-based post-ICU follow-up and how it may impact on health inequalities.](https://www.ncbi.nlm.nih.gov/pubmed/29574573) Intensive Care Med. 2018 Aug;44(8):1352-1354
217. Estrup S, Kjer CKW, Vilhelmsen F, Poulsen LM, Gøgenur I, Mathiesen O. [Cognitive Function 3 and 12 Months After ICU Discharge-A Prospective Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/30188383) Crit Care Med. 2018 Sep 4
218. Brown SM, Collingridge DS, Wilson EL, Beesley S, Bose S, Orme J, Jackson J, Hopkins RO. [Preliminary Validation of the Montreal Cognitive Assessment Tool among Sepsis Survivors: A Prospective Pilot Study.](https://www.ncbi.nlm.nih.gov/pubmed/30168744) Ann Am Thorac Soc. 2018 Sep;15(9):1108-1110
219. Kredentser MS, Blouw M, Marten N, Sareen J, Bienvenu OJ, Ryu J, Beatie BE, Logsetty S, Graff LA, Eggertson S, Sweatman S, Debroni B, Cianflone N, Arora RC, Zarychanski R, Olafson K. [Preventing Posttraumatic Stress in ICU Survivors: A Single-Center Pilot Randomized Controlled Trial of ICU Diaries and Psychoeducation.](https://www.ncbi.nlm.nih.gov/pubmed/30119073) Crit Care Med. 2018 Aug 16.
220. Wang HT, Hill AD, Gomes T, Wijeysundera DN, Pinto R, Scales DC, Fowler R, Wunsch H. [Opioid Use After ICU Admission Among Elderly Chronic Opioid Users in Ontario: A Population-Based Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/30222633) Crit Care Med. 2018 Sep 14.
221. Sakusic A, Gajic O, Singh TD, O'Horo JC, Jenkins G, Wilson GA, Petersen R, Fryer JD, Kashyap R, Rabinstein AA. [Risk Factors for Persistent Cognitive Impairment After Critical Illness, Nested Case-Control Study.](https://www.ncbi.nlm.nih.gov/pubmed/30222636) Crit Care Med. 2018 Sep 14
222. Gensichen J, Schultz S, Adrion C, Schmidt K, Schauer M, Lindemann D, Unruh N, Kosilek RP, Schneider A, Scherer M, Bergmann A, Heintze C, Joos S, Briegel J, Scherag A, König HH, Brettschneider C, Schulze TG, Mansmann U, Linde K, Lühmann D, Voigt K, Gehrke-Beck S, Koch R, Zwissler B, Schneider G, Gerlach H, Kluge S, Koch T, Walther A, Atmann O, Oltrogge J, Sauer M, Schnurr J, Elbert T; PICTURE Study Group. [Effect of a combined brief narrative exposure therapy with case management versus treatment as usual in primary care for patients with traumatic stress sequelae following intensive care medicine: study protocol for a multicenter randomized controlled trial (PICTURE).](https://www.ncbi.nlm.nih.gov/pubmed/30201053) Trials. 2018 Sep 10;19(1):480
223. Park S, Na SH, Oh J, Lee JS, Oh ST, Kim JJ, Park JY. [Pain and anxiety and their relationship with medication doses in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/29929153) J Crit Care. 2018 Oct;47:65-69
224. Detsky ME, Kohn R, Delman AM, Buehler AE, Kent SA, Ciuffetelli IV, Mikkelsen ME, Turnbull AE, Harhay MO. [Patients' perceptions and ICU clinicians predictions of quality of life following critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/30296749) J Crit Care. 2018 Dec;48:352-356.
225. Train S, Kydonaki K, Rattray J, Stephen J, Weir CJ, Walsh TS; DESIST Investigators. [Frightening and Traumatic Memories Early After Intensive Care Discharge.](https://www.ncbi.nlm.nih.gov/pubmed/30312550) Am J Respir Crit Care Med. 2018 Oct 12
226. Evans CCD, DeWit Y, Seitz D, Mason S, Nathens A, Hall S. [Mental health outcomes after major trauma in Ontario: a population-based analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30420387) CMAJ. 2018 Nov 12;190(45):E1319-E1327
227. Rawal S, Kwan JL, Razak F, Detsky AS, Guo Y, Lapointe-Shaw L, Tang T, Weinerman A, Laupacis A, Subramanian SV, Verma AA. [Association of the Trauma of Hospitalization With 30-Day Readmission or Emergency Department Visit.](https://www.ncbi.nlm.nih.gov/pubmed/30508018) JAMA Intern Med. 2018 Dec 3
228. Bastian K, Hollinger A, Mebazaa A, Azoulay E, Féliot E, Chevreul K, Fournier MC, Guidet B, Michel M, Montravers P, Pili-Floury S, Sonneville R, Siegemund M, Gayat E; FROG-ICU Study Investigators. [Association of social deprivation with 1-year outcome of ICU survivors: results from the FROG-ICU study.](https://www.ncbi.nlm.nih.gov/pubmed/30353380) Intensive Care Med. 2018 Dec;44(12):2025-2037
229. Hatch R, Young D, Barber V, Griffiths J, Harrison DA, Watkinson P. [Anxiety, Depression and Post Traumatic Stress Disorder after critical illness: a UK-wide prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/30466485) Crit Care. 2018 Nov 23;22(1):310.
230. Milton A, Schandl A, Soliman IW, Meijers K, van den Boogaard M, Larsson IM, Brorsson C, Östberg U, Oxenbøll-Collet M, Savilampi J, Paskins S, Bottai M, Sackey PV. [Development of an ICU discharge instrument predicting psychological morbidity: a multinational study.](https://www.ncbi.nlm.nih.gov/pubmed/30467678) Intensive Care Med. 2018 Dec;44(12):2038-2047
231. McIlroy PA, King RS, Garrouste-Orgeas M, Tabah A, Ramanan M. [The Effect of ICU Diaries on Psychological Outcomes and Quality of Life of Survivors of Critical Illness and Their Relatives: A Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30431494) Crit Care Med. 2018 Nov 13. doi: 10.1097/CCM.0000000000003547.
232. Gandotra S, Lovato J, Case D, Bakhru RN, Gibbs K, Berry M, Files DC, Morris PE. [Physical Function Trajectories in Survivors of Acute Respiratory Failure.](https://www.ncbi.nlm.nih.gov/pubmed/30571923) Ann Am Thorac Soc. 2018 Dec 20
233. Wang S, Allen D, Perkins A, Monahan P, Khan S, Lasiter S, Boustani M, Khan B. [Validation of a New Clinical Tool for Post-Intensive Care Syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/30600222) Am J Crit Care. 2019 Jan;28(1):10-18
234. Gosset AT, Sklar MC, Delman AM, Detsky ME. [Patients' primary activities prior to critical illness: how well do clinicians know them and how likely are patients to return to them?](https://www.ncbi.nlm.nih.gov/pubmed/30558662) Crit Care. 2018 Dec 17;22(1):340.
235. Wood MD, Maslove DM, Muscedere J, Scott SH, Boyd JG; Canadian Critical Care Trials Group. [Robotic technology provides objective and quantifiable metrics of neurocognitive functioning in survivors of critical illness:A feasibility study.](https://www.ncbi.nlm.nih.gov/pubmed/30243203) J Crit Care. 2018 Dec;48:228-236
236. Ruan Z, Ren R, Dong W, Ma J, Xu Z, Mao Y, Jiang L. [Assessment of vocal cord movement by ultrasound in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/30460501) Intensive Care Med. 2018 Dec;44(12):2145-2152
237. Wozniak AW, Pfoh ER, Dinglas VD, Pronovost PJ, Needham DM, Colantuoni E. [Hospital Readmission and Subsequent Decline in Long-Term Survivors of Acute Respiratory Distress Syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/30600230) Am J Crit Care. 2019 Jan;28(1):76-80.
238. So HM, Yan WW, Chair SY. [A nurse-led critical care outreach program to reduce readmission to the intensive care unit: A quasi-experimental study with a historical control group.](https://www.ncbi.nlm.nih.gov/pubmed/30595418) Aust Crit Care. 2018 Dec 27
239. Jubran A, Grant BJ, Duffner LA, Collins EG, Lanuza DM, Hoffman LA, Tobin MJ. [Long-Term Outcome After Prolonged Mechanical Ventilation: A Long-Term Acute-Care Hospital Study.](https://www.ncbi.nlm.nih.gov/pubmed/30624956) Am J Respir Crit Care Med. 2019 Jan 9
240. Kwakman RCH, Major ME, Dettling-Ihnenfeldt DS, Nollet F, Engelbert RHH, van der Schaaf M. [Physiotherapy treatment approaches for survivors of critical illness: a proposal from a Delphi study.](https://www.ncbi.nlm.nih.gov/pubmed/30821565) Physiother Theory Pract. 2019 Mar 1:1-11
241. Nelliot A, Dinglas VD, O'Toole J, Patel Y, Mendez-Tellez PA, Nabeel M, Aronson Friedman L, Hough CL, Hopkins RO, Eakin MN, Needham DM. [Acute Respiratory Failure Survivors' Physical, Cognitive and Mental Health Outcomes: Quantitative Measures vs. Semi-structured Interviews.](https://www.ncbi.nlm.nih.gov/pubmed/30844293) Ann Am Thorac Soc. 2019 Mar 7.
242. Kerckhoffs MC, Kosasi FFL, Soliman IW, van Delden JJM, Cremer OL, de Lange DW, Slooter AJC, Kesecioglu J, van Dijk D. [Determinants of self-reported unacceptable outcome of intensive care treatment 1 year after discharge.](https://www.ncbi.nlm.nih.gov/pubmed/30840124) Intensive Care Med. 2019 Mar 6
243. Sanfilippo F, Ippolito M, Santonocito C, Martucci G, Carollo T, Bertani A, Vitulo P, Pilato M, Panarello G, Giarratano A, Arcadipane A. [Long-term functional and psychological recovery in a population of ARDS patients treated with VV-ECMO and in their caregivers.](https://www.ncbi.nlm.nih.gov/pubmed/30665282) Minerva Anestesiol. 2019 Jan 18
244. van Beusekom I, Bakhshi-Raiez F, van der Schaaf M, Busschers WB, de Keizer NF, Dongelmans DA. [ICU Survivors Have a Substantial Higher Risk of Developing New Chronic Conditions Compared to a Population-Based Control Group.](https://www.ncbi.nlm.nih.gov/pubmed/30768499) Crit Care Med. 2019 Mar;47(3):324-330
245. Kuehn BM. [Clinics Aim to Improve Post-ICU Recovery.](https://www.ncbi.nlm.nih.gov/pubmed/30810711) JAMA. 2019 Feb 27
246. Wade DM, Mouncey PR, Richards-Belle A, Wulff J, Harrison DA, Sadique MZ, Grieve RD, Emerson LM, Mason AJ, Aaronovitch D, Als N, Brewin CR, Harvey SE, Howell DCJ, Hudson N, Mythen MG, Smyth D, Weinman J, Welch J, Whitman C, Rowan KM; POPPI Trial Investigators. [Effect of a Nurse-Led Preventive Psychological Intervention on Symptoms of Posttraumatic Stress Disorder Among Critically Ill Patients: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30776295) JAMA. 2019 Feb 19;321(7):665-675
247. Hosey MM, Ali MK, Mantheiy EC, Albert K, Wegener ST, Needham DM. [Psychology consultation patterns in a medical intensive care unit: A brief report.](https://www.ncbi.nlm.nih.gov/pubmed/30802090) Rehabil Psychol. 2019 Feb 25.
248. Fauerbach JA, Gehrke AK, Mason ST, Gould NF, Milner SM, Caffrey J. [Cognitive Behavioral Therapy for Acute Post-trauma Distress: A Randomized, Controlled, Proof-of-Concept Study among Hospitalized Adults with Burns.](https://www.ncbi.nlm.nih.gov/pubmed/30776324) Arch Phys Med Rehabil. 2019 Feb 15. pii: S0003-9993(19)30087-5
249. Wintermann GB, Petrowski K, Weidner K, Strauß B, Rosendahl J. [Impact of post-traumatic stress symptoms on the health-related quality of life in a cohort study with chronically critically ill patients and their partners: age matters.](https://www.ncbi.nlm.nih.gov/pubmed/30736830) Crit Care. 2019 Feb 8;23(1):39
250. Kalfon P, Alessandrini M, Boucekine M, Renoult S, Geantot MA, Deparis-Dusautois S, Berric A, Collange O, Floccard B, Mimoz O, Julien A, Robert R, Audibert J, Renault A, Follin A, Thevenin D, Revel N, Venot M, Patrigeon RG, Signouret T, Fromentin M, Sharshar T, Vigne C, Pottecher J, Levrat Q, Sossou A, Garrouste-Orgeas M, Quenot JP, Boulle C, Azoulay E, Baumstarck K, Auquier P; IPREA-AQVAR Study Group. [Tailored multicomponent program for discomfort reduction in critically ill patients may decrease post-traumatic stress disorder in general ICU survivors at 1 year.](https://www.ncbi.nlm.nih.gov/pubmed/30701294) Intensive Care Med. 2019 Feb;45(2):223-235
251. Turnbull AE, Hayes MM, Brower RG, Colantuoni E, Basyal PS, White DB, Curtis JR, Needham DM. [Effect of Documenting Prognosis on the Information Provided to ICU Proxies: A Randomized Trial.](https://www.ncbi.nlm.nih.gov/pubmed/30882479) Crit Care Med. 2019 Mar 15
252. Ferrante LE, Murphy TE, Leo-Summers LS, Gahbauer EA, Pisani MA, Gill TM. [The Combined Effects of Frailty and Cognitive Impairment on Post-ICU Disability among Older ICU Survivors.](https://www.ncbi.nlm.nih.gov/pubmed/30883191) Am J Respir Crit Care Med. 2019 Mar 18
253. Gardner AK, Ghita GL, Wang Z, Ozrazgat-Baslanti T, Raymond SL, Mankowski RT, Brumback BA, Efron PA, Bihorac A, Moore FA, Anton SD, Brakenridge SC. [The Development of Chronic Critical Illness Determines Physical Function, Quality of Life, and Long-Term Survival Among Early Survivors of Sepsis in Surgical ICUs.](https://www.ncbi.nlm.nih.gov/pubmed/30664526) Crit Care Med. 2019 Apr;47(4):566-573
254. Ong C, Lee JH, Senna S, Chia AZH, Wong JJM, Fortier MV, Leow MKS, Puthucheary ZA. [Body Composition and Acquired Functional Impairment in Survivors of Pediatric Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/30958426) Crit Care Med. 2019 Apr 4
255. Honarmand K, Malik S, Wild C, Gonzalez-Lara LE, McIntyre CW, Owen AM, Slessarev M. [Feasibility of a web-based neurocognitive battery for assessing cognitive function in critical illness survivors.](https://www.ncbi.nlm.nih.gov/pubmed/30978210) PLoS One. 2019 Apr 12;14(4):e0215203
256. Costigan FA, Rochwerg B, Molloy AJ, McCaughan M, Millen T, Reid JC, Farley C, Patterson L, Kho ME. [I SURVIVE: inter-rater reliability of three physical functional outcome measures in intensive care unit survivors.](https://www.ncbi.nlm.nih.gov/pubmed/31147985) Can J Anaesth. 2019 May 30
257. Hofhuis JGM, Abu-Hanna A, de Zwart L, Hovingh A, Spronk PE. [Physical impairment and perceived general health preceding critical illness is predictive of survival.](https://www.ncbi.nlm.nih.gov/pubmed/30745286) J Crit Care. 2019 Jun;51:51-56. doi: 10.1016/j.jcrc.2019.01.027.
258. Nelliot A, Dinglas VD, O'Toole J, Patel Y, Mendez-Tellez PA, Nabeel M, Friedman LA, Hough CL, Hopkins RO, Eakin MN, Needham DM. [Acute Respiratory Failure Survivors' Physical, Cognitive, and Mental Health Outcomes: Quantitative Measures versus Semistructured Interviews.](https://www.ncbi.nlm.nih.gov/pubmed/30844293) Ann Am Thorac Soc. 2019 Jun;16(6):731-737
259. Karnatovskaia LV, Schulte PJ, Philbrick KL, Johnson MM, Anderson BK, Gajic O, Clark MM. [Psychocognitive sequelae of critical illness and correlation with 3 months follow up.](https://www.ncbi.nlm.nih.gov/pubmed/31078997) J Crit Care. 2019 Apr 29;52:166-171
260. Hamilton M, Tomlinson G, Chu L, Robles P, Matte A, Burns S, Thomas C, Lamontagne F, Adhikari NKJ, Ferguson N, Friedrich JO, Rudkowski JC, Skrobik Y, Meggison H, Cameron J, Herridge M; RECOVER Program Investigators and the Canadian Critical Care Trials Group. [Determinants of Depressive Symptoms at 1 Year Following ICU Discharge in Survivors of ≥ 7 Days of Mechanical Ventilation: Results From the RECOVER Program, a Secondary Analysis of a Prospective Multicenter Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/31102611) Chest. 2019 May 15. pii: S0012-3692(19)31046-3
261. Lee RY, Engelberg RA, Curtis JR, Hough CL, Kross EK. [Novel Risk Factors for Posttraumatic Stress Disorder Symptoms in Family Members of Acute Respiratory Distress Syndrome Survivors.](https://www.ncbi.nlm.nih.gov/pubmed/30985448) Crit Care Med. 2019 Apr 15. doi: 10.1097/CCM.0000000000003774
262. Heydon E, Wibrow B, Jacques A, Sonawane R, Anstey M. [The needs of patients with post-intensive care syndrome: A prospective, observational study.](https://www.ncbi.nlm.nih.gov/pubmed/31160217) Aust Crit Care. 2019 May 31. pii: S1036-7314(19)30074-8
263. McPeake JM, Henderson P, Darroch G, Iwashyna TJ, MacTavish P, Robinson C, Quasim T. [Social and economic problems of ICU survivors identified by a structured social welfare consultation.](https://www.ncbi.nlm.nih.gov/pubmed/31046813) Crit Care. 2019 May 2;23(1):153. doi: 10.1186/s13054-019-2442-5
264. Niittyvuopio M, Liisanantti JH, Pikkupeura J, Spalding MB, Sälkiö S, Ala-Kokko TI. [Factors associated with impaired physical functioning and mental health in working-age patients attending a post-intensive care follow-up clinic three months after hospital discharge.](https://www.ncbi.nlm.nih.gov/pubmed/31106561) Anaesth Intensive Care. 2019 Mar;47(2):160-168
265. van Beusekom I, Bakhshi-Raiez F, de Keizer NF, van der Schaaf M, Termorshuizen F, Dongelmans DA. [Dutch ICU survivors have more consultations with general practitioners before and after ICU admission compared to a matched control group from the general population.](https://www.ncbi.nlm.nih.gov/pubmed/31120959) PLoS One. 2019 May 23;14(5):e0217225
266. Rosendahl J, Kisyova H, Gawlytta R, Scherag A. [Comparative validation of three screening instruments for posttraumatic stress disorder after intensive care.](https://www.ncbi.nlm.nih.gov/pubmed/31247513) J Crit Care. 2019 Jun 18;53:149-154
267. Sidiras G, Patsaki I, Karatzanos E, Dakoutrou M, Kouvarakos A, Mitsiou G, Routsi C, Stranjalis G, Nanas S, Gerovasili V. [Long term follow-up of quality of life and functional ability in patients with ICU acquired Weakness - A post hoc analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31277049) J Crit Care. 2019 Jun 21;53:223-230
268. Devine H, Quasim T, McPeake J, Shaw M, Mccallum L, Mactavish P. [Chronic pain in intensive care unit survivors: incidence, characteristics and side-effects up to one-year post-discharge.](https://www.ncbi.nlm.nih.gov/pubmed/31032523) J Rehabil Med. 2019 Jun 18;51(6):451-455
269. Donohue JM, Kennedy JN, Seymour CW, Girard TD, Lo-Ciganic WH, Kim CH, Marroquin OC, Moyo P, Chang CH, Angus DC. [Patterns of Opioid Administration Among Opioid-Naive Inpatients and Associations With Postdischarge Opioid Use: A Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/31207646) Ann Intern Med. 2019 Jun 18.
270. Akinremi A, Turnbull AE, Chessare CM, Bingham CO 3rd, Needham DM, Dinglas VD. [Delphi panelists for a core outcome set project suggested both new and existing dissemination strategies that were feasibly implemented by a research infrastructure project.](https://www.ncbi.nlm.nih.gov/pubmed/31173895) J Clin Epidemiol. 2019 Jun 5;114:104-107
271. Bragança RD, Ravetti CG, Barreto L, Ataíde TBLS, Carneiro RM, Teixeira AL, Nobre V. [Use of handgrip dynamometry for diagnosis and prognosis assessment of intensive care unit acquired weakness: A prospective study.](https://www.ncbi.nlm.nih.gov/pubmed/31320179) Heart Lung. 2019 Jul 15. pii: S0147-9563(19)30083-4
272. Jolley SE, Angus DC, Clermont G, Hough CL. [Discharge Destination As a Marker of Mobility Impairment in Survivors of Acute Respiratory Distress Syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/31356476) Crit Care Med. 2019 Jul 25
273. Garrouste-Orgeas M, et al. [Effect of an ICU Diary on Posttraumatic Stress Disorder Symptoms Among Patients Receiving Mechanical Ventilation: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31310299) JAMA. 2019 Jul 16;322(3):229-239
274. Anna van der Kuur, Carina Bethlehem, Nynke Bruins, et al., “Impact of a Premorbid Psychiatric Disorder on the Incidence of Delirium during ICU Stay, Morbidity, and Long-Term Mortality,” Critical Care Research and Practice, vol. 2019, Article ID 6402097, 8 pages, 2019. <https://doi.org/10.1155/2019/6402097>.
275. Bloom SL, Stollings JL, Kirkpatrick O, Wang L, Byrne DW, Sevin CM, Semler MW. [Randomized Clinical Trial of an ICU Recovery Pilot Program for Survivors of Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/31385881) Crit Care Med. 2019 Oct;47(10):1337-1345
276. Bakhru, Rita et al. Implementation of an ICU Recovery Clinic at a Tertiary Care Academic Center. Critical Care Explorations: [August 2019 - Volume 1 - Issue 8 - p e0034](https://journals.lww.com/ccejournal/pages/currenttoc.aspx)
277. Hermans G, Van Aerde N, Meersseman P, Van Mechelen H, Debaveye Y, Wilmer A, Gunst J, Casaer MP, Dubois J, Wouters P, Gosselink R, Van den Berghe G. [Five-year mortality and morbidity impact of prolonged versus brief ICU stay: a propensity score matched cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/31481633) Thorax. 2019 Sep 3
278. Silveira LTYD, Silva JMD, Tanaka C, Fu C. [Decline in functional status after intensive care unit discharge is associated with ICU readmission: a prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/30342701) Physiotherapy. 2019 Sep;105(3):321-327
279. Hodgson CL, Burrell AJC, Engeler DM, Pellegrino VA, Brodie D, Fan E; International ECMO Network. [Core Outcome Measures for Research in Critically Ill Patients Receiving Extracorporeal Membrane Oxygenation for Acute Respiratory or Cardiac Failure: An International, Multidisciplinary, Modified Delphi Consensus Study.](https://www.ncbi.nlm.nih.gov/pubmed/31389837) Crit Care Med. 2019 Aug 5
280. Jerath A, Austin PC, Wijeysundera DN. [Days Alive and Out of Hospital: Validation of a Patient-centered Outcome for Perioperative Medicine.](https://www.ncbi.nlm.nih.gov/pubmed/31094760) Anesthesiology. 2019 Jul;131(1):84-93
281. Helviz Y, Pachys G, Einav S. [Post-resuscitation EQ-5D-3L scoring by the patient or caregiver/legal guardian versus the medical professional: a sub-study of the Jerusalem District Resuscitation Study.](https://www.ncbi.nlm.nih.gov/pubmed/30937507) Intensive Care Med. 2019 Aug;45(8):1163-1164
282. Hosey MM, Leoutsakos JS, Li X, Dinglas VD, Bienvenu OJ, Parker AM, Hopkins RO, Needham DM, Neufeld KJ. [Screening for posttraumatic stress disorder in ARDS survivors: validation of the Impact of Event Scale-6 (IES-6).](https://www.ncbi.nlm.nih.gov/pubmed/31391069) Crit Care. 2019 Aug 7;23(1):276
283. Bond, Rachel et al. Measurement Characteristics and Clinical Utility of the Hospital Anxiety and Depression Scale Among Adults With Cardiovascular Disease. Archives of Physical Medicine and Rehabilitation, 2019 <https://doi.org/10.1016/j.apmr.2019.07.004>
284. Hermans G, Van Aerde N, Meersseman P, Van Mechelen H, Debaveye Y, Wilmer A, Gunst J, Casaer MP, Dubois J, Wouters P, Gosselink R, Van den Berghe G. [Five-year mortality and morbidity impact of prolonged versus brief ICU stay: a propensity score matched cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/31481633) Thorax. 2019 Nov;74(11):1037-1045
285. Viglianti EM, Kruser JM, Iwashyna T. [The heterogeneity of prolonged ICU hospitalisations.](https://www.ncbi.nlm.nih.gov/pubmed/31534030) Thorax. 2019 Nov;74(11):1015-1017
286. Schmidt KF, Schwarzkopf D, Baldwin LM, Brunkhorst FM, Freytag A, Heintze C, Reinhart K, Schneider N, von Korff M, Worrack S, Wensing M, Gensichen J; SMOOTH Study Group. [Long-term courses of sepsis survivors: effects of a primary care management intervention.](https://www.ncbi.nlm.nih.gov/pubmed/31521666) Am J Med. 2019 Sep 12
287. Jeong YJ, Kang J. [Development and validation of a questionnaire to measure post-intensive care syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/31522829) Intensive Crit Care Nurs. 2019 Sep 12:102756
288. Kosilek RP, Baumeister SE, Ittermann T, Gründling M, Brunkhorst FM, Felix SB, Abel P, Friesecke S, Apfelbacher C, Brandl M, Schmidt K, Hoffmann W, Schmidt CO, Chenot JF, Völzke H, Gensichen JS. [The association of intensive care with utilization and costs of outpatient healthcare services and quality of life.](https://www.ncbi.nlm.nih.gov/pubmed/31539397) PLoS One. 2019 Sep 20;14(9):e0222671
289. Hirshberg EL, Wilson EL, Stanfield V, Kuttler KG, Majercik S, Beesley SJ, Orme J, Hopkins RO, Brown SM. [Impact of Critical Illness on Resource Utilization: A Comparison of Use in the Year Before and After ICU Admission.](https://www.ncbi.nlm.nih.gov/pubmed/31517693) Crit Care Med. 2019 Nov;47(11):1497-1504
290. Hughes KL, Kirkham JJ, Clarke M, Williamson PR. [Assessing the **impact** of a research funder's recommendation to consider core outcome sets.](https://www.ncbi.nlm.nih.gov/pubmed/31518375) PLoS One. 2019 Sep 13;14(9):e0222418
291. Jones AV, Evans RA, Man WD, Bolton CE, Breen S, Doherty PJ, Gardiner N, Houchen-Wolloff L, Hurst JR, Jolly K, Maddocks M, Quint JK, Revitt O, Sherar LB, Taylor RS, Watt A, Wingham J, Yorke J, Singh SJ. [Outcome measures in a combined exercise rehabilitation programme for adults with COPD and chronic heart failure: A preliminary stakeholder consensus event.](https://www.ncbi.nlm.nih.gov/pubmed/31526047) Chron Respir Dis. 2019 Jan-Dec;16:1479973119867952
292. Goërtz YMJ, Spruit MA, Van 't Hul AJ, Peters JB, Van Herck M, Nakken N, Djamin RS, Burtin C, Thong MSY, Coors A, Meertens-Kerris Y, Wouters EFM, Prins JB, Franssen FME, Muris JWM, Vanfleteren LEGW, Sprangers MAG, Janssen DJA, Vercoulen JH. [Fatigue is highly prevalent in patients with COPD and correlates poorly with the degree of airflow limitation.](https://www.ncbi.nlm.nih.gov/pubmed/31558115) Ther Adv Respir Dis. 2019 Jan-Dec;13:1753466619878128
293. Sivanathan L, Wunsch H, Vigod S, Hill A, Pinto R, Scales DC. [Mental illness after admission to an intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/31482222) Intensive Care Med. 2019 Nov;45(11):1550-1558
294. Novack V, Beitler JR, Yitshak-Sade M, Thompson BT, Schoenfeld DA, Rubenfeld G, Talmor D, Brown SM. [Alive and Ventilator Free: A Hierarchical, Composite Outcome for Clinical Trials in the Acute Respiratory Distress Syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/31743224) Crit Care Med. 2019 Nov 18
295. Burke LG, Orav EJ, Zheng J, Jha AK. [Healthy Days at home: A novel population-based outcome measure.](https://www.ncbi.nlm.nih.gov/pubmed/31708403) Healthc (Amst). 2019 Nov 7:10037
296. Greene SJ, O'Brien EC, Mentz RJ, Luo N, Hardy NC, Laskey WK, Heidenreich PA, Chang CL, Turner SJ, Yancy CW, Hernandez AF, Curtis LH, Peterson PN, Fonarow GC, Hammill BG. [Home-Time After Discharge Among Patients Hospitalized With Heart Failure.](https://www.ncbi.nlm.nih.gov/pubmed/29880124) J Am Coll Cardiol. 2018 Jun 12;71(23):2643-2652
297. Biason L, Teixeira C, Haas JS, Cabral CDR, Friedman G. [Effects of Sepsis on Morbidity and Mortality in Critically Ill Patients 2 Years After Intensive Care Unit Discharge.](https://www.ncbi.nlm.nih.gov/pubmed/31676516) Am J Crit Care. 2019 Nov;28(6):424-432
298. Deb P, Murtaugh CM, Bowles KH, Mikkelsen ME, Khajavi HN, Moore S, Barrón Y, Feldman PH. [Does Early Follow-Up Improve the Outcomes of Sepsis Survivors Discharged to Home Health Care?](https://www.ncbi.nlm.nih.gov/pubmed/31295191) Med Care. 2019 Aug;57(8):633-640
299. van Beusekom I, Bakhshi-Raiez F, van der Schaaf M, Dongelmans DA, Busschers WB, de Keizer NF. [The influence of clinical variables on the risk of developing chronic conditions in ICU survivors.](https://www.ncbi.nlm.nih.gov/pubmed/31715531) J Crit Care. 2019 Oct 31;55:134-139
300. Scheunemann LP, White JS, Prinjha S, Hamm ME, Girard TD, Skidmore ER, Reynolds CF 3rd, Leland NE. [Post-ICU Care: A Qualitative Analysis of Patient Priorities and Implications for Redesign.](https://www.ncbi.nlm.nih.gov/pubmed/31726016) Ann Am Thorac Soc. 2019 Nov 14
301. Shinn JR, Kimura KS, Campbell BR, Sun Lowery A, Wootten CT, Garrett CG, Francis DO, Hillel AT, Du L, Casey JD, Ely EW, Gelbard A. [Incidence and Outcomes of Acute Laryngeal Injury After Prolonged Mechanical Ventilation.](https://www.ncbi.nlm.nih.gov/pubmed/31634236) Crit Care Med. 2019 Dec;47(12):1699-1706
302. Skoretz SA, Riopelle SJ, Wellman L, Dawson C. [Investigating Swallowing and Tracheostomy Following Critical Illness: A Scoping Review.](https://www.ncbi.nlm.nih.gov/pubmed/31725439) Crit Care Med. 2019 Nov 13
303. Dijkstra-Kersten SMA, Kok L, Kerckhoffs MC, Cremer OL, de Lange DW, van Dijk D, Needham DM, Slooter AJC. [Neuropsychiatric outcome in subgroups of Intensive Care Unit survivors: Implications for after-care.](https://www.ncbi.nlm.nih.gov/pubmed/31739086) J Crit Care. 2019 Nov 12;55:171-176
304. Cairns PL, Buck HG, Kip KE, Rodriguez CS, Liang Z, Munro CL. [Stress Management Intervention to Prevent Post-Intensive Care Syndrome-Family in Patients' Spouses.](https://www.ncbi.nlm.nih.gov/pubmed/31676522) Am J Crit Care. 2019 Nov;28(6):471-476
305. Amass TH, Villa G, OMahony S, Badger JM, McFadden R, Walsh T, Caine T, McGuirl D, Palmisciano A, Yeow ME, De Gaudio R, Curtis JR, Levy MM. [Family Care Rituals in the ICU to Reduce Symptoms of Post-Traumatic Stress Disorder in Family Members-A Multicenter, Multinational, Before-and-After Intervention Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31743223) Crit Care Med. 2019 Nov 18
306. Choi J, Son YJ, Tate JA. [Exploring positive aspects of caregiving in family caregivers of adult ICU survivors from ICU to four months post-ICU discharge.](https://www.ncbi.nlm.nih.gov/pubmed/31521339) Heart Lung. 2019 Nov - Dec;48(6):553-559
307. Rosa RG, Falavigna M, Robinson CC, Sanchez EC, Kochhann R, Schneider D, Sganzerla D, Dietrich C, Barbosa MG, de Souza D, Rech GS, Dos Santos RDR, da Silva AP, Santos MM, Dal Lago P, Sharshar T, Bozza FA, Teixeira C; Quality of Life After ICU Study Group Investigators and the BRICNet. [Early and Late Mortality Following Discharge From the ICU: A Multicenter Prospective Cohort Study.](https://www.ncbi.nlm.nih.gov/pubmed/31609775) Crit **Care** Med. 2020 Jan;48(1):64-72
308. Marshall DC, Hatch RA, Gerry S, Young JD, Watkinson P. [Conditional Survival With Increasing Duration of ICU Admission: An Observational Study of Three Intensive Care Databases.](https://www.ncbi.nlm.nih.gov/pubmed/31725438) Crit Care Med. 2020 Jan;48(1):91-97
309. George M, Hernandez C, Smith S, Narsavage G, Kapella MC, Carno M, Guttormson J, Disler RT, Hart DE, Chlan LL, Happ MB, Chen Z, Hetland B, Hutchinson AF, Jonsdottir H, Redeker NS, Schell-Chaple H, Fletcher M, Yorke J. [Nursing Research Priorities in Critical Care, Pulmonary, and Sleep: International Delphi Survey of Nurses, Patients, and Caregivers.](https://www.ncbi.nlm.nih.gov/pubmed/31891300) Ann Am Thorac Soc. 2020 Jan;17(1):1-10
310. Moloney RM, Messner DA, Tunis SR. [The increasing complexity of the core outcomes landscape.](https://www.ncbi.nlm.nih.gov/pubmed/31129260) J Clin Epidemiol. 2019 Dec;116:150-154
311. Kronish IM, Moise N, Cheung YK, Clarke GN, Dolor RJ, Duer-Hefele J, Margolis KL, St Onge T, Parsons F, Retuerto J, Thanataveerat A, Davidson KW. [Effect of Depression Screening After Acute Coronary Syndromes on Quality of Life: The CODIACS-QoL Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/31633746) JAMA Intern Med. 2019 Oct 21
312. Morgan J. [Surviving sepsis and intensive care unit delirium: a remarkable recovery.](https://www.ncbi.nlm.nih.gov/pubmed/32007132) Lancet Respir Med. 2020 Jan 30
313. Mitsutake S, Ishizaki T, Tsuchiya-Ito R, Uda K, Teramoto C, Shimizu S, Ito H. [Associations of Hospital Discharge Services With Potentially Avoidable Readmissions Within 30 Days Among Older Adults After Rehabilitation in Acute Care Hospitals in Tokyo, Japan.](https://www.ncbi.nlm.nih.gov/pubmed/31917197) Arch Phys Med Rehabil. 2020 Jan 7
314. Jukarainen S, Mildh H, Pettilä V, Häkkinen U, Peltola M, Ala-Kokko T, Reinikainen M, Vaara ST. [Costs and Cost-Utility of Critical Care and Subsequent Health Care: A Multicenter Prospective Study.](https://www.ncbi.nlm.nih.gov/pubmed/31929342) Crit Care Med. 2020 Jan 10
315. Alves GAA, Martinez BP, Lunardi AC. [Assessment of the measurement properties of the Brazilian versions of the Functional Status Score for the ICU and the Functional Independence Measure in critically ill patients in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/31967227/?from_term=Assessment+of+the+measurement+properties+of+the+Brazilian+versions+of+the+Functional+Status+Score+for+the+ICU+and+the+Functional+Independence+Measure+in+critically+ill+patients+in+the+intensive+care+unit&from_pos=1) Rev Bras Ter Intensiva. 2019 Oct-Dec;31(4):521-528
316. Sklar MC, Dres M, Fan E, Rubenfeld GD, Scales DC, Herridge MS, Rittayamai N, Harhay MO, Reid WD, Tomlinson G, Rozenberg D, McClelland W, Riegler S, Slutsky AS, Brochard L, Ferguson ND, Goligher EC. [Association of Low Baseline Diaphragm Muscle Mass With Prolonged Mechanical Ventilation and Mortality Among Critically Ill Adults.](https://pubmed.ncbi.nlm.nih.gov/32074293/?from_term=Sklar+MC&from_cauthor_id=32074293&from_pos=2) JAMA Netw Open. 2020 Feb 5;3(2):e1921520
317. Milton A, Schandl A, Soliman I, Joelsson-Alm E, van den Boogaard M, Wallin E, Brorsson C, Östberg U, Latocha K, Savilampi J, Paskins S, Bottai M, Sackey P. [ICU discharge screening for prediction of new-onset physical disability-A multinational cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/32083323) Acta Anaesthesiol Scand. 2020 Feb 21.
318. Parry S, Denehy L, Granger C, McGinley J, Files DC, Berry M, Dhar S, Bakhru R, Larkin J, Puthucheary Z, Clark R, Morris P. [The fear and risk of community falls in patients following an intensive care admission: An exploratory cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/31495638) Aust Crit Care. 2020 Mar;33(2):144-150
319. Yang PL, Ward TM, Burr RL, Kapur VK, McCurry SM, Vitiello MV, Hough CL, Parsons EC. [Sleep and Circadian Rhythms in Survivors of Acute Respiratory Failure.](https://pubmed.ncbi.nlm.nih.gov/32117040/?from_term=Yang+PL&from_cauthor_id=32117040&from_pos=2) Front Neurol. 2020 Feb 14;11:94.
320. Honarmand K, Lalli RS, Priestap F, Chen JL, McIntyre CW, Owen AM, Slessarev M. [Natural History of Cognitive Impairment in Critical Illness Survivors: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/32078780) Am J Respir Crit Care Med. 2020 Feb 20.
321. Cho SM, Geocadin RG, Caturegli G, Chan V, White B, Dodd-O J, Kim BS, Sussman M, Choi CW, Whitman G, Chen LL. [Understanding Characteristics of Acute Brain Injury in Adult Extracorporeal Membrane Oxygenation: An Autopsy Study.](https://www.ncbi.nlm.nih.gov/pubmed/32102063) Crit Care Med. 2020 Feb 25
322. Warner MA, Kor DJ, Frank RD, Dinglas VD, Mendez-Tellez P, Dennison Himmelfarb CR, Shanholtz CB, Storlie CB, Needham DM. [Anemia in Critically Ill Patients With Acute Respiratory Distress Syndrome and Posthospitalization Physical Outcomes.](https://pubmed.ncbi.nlm.nih.gov/32207358/?from_term=Warner+MA&from_cauthor_id=32207358&from_pos=1) J Intensive Care Med. 2020 Mar 24:885066620913262.
323. Denfeld QE, Bidwell JT, Gelow JM, Mudd JO, Chien CV, Hiatt SO, Lee CS. [Cross-classification of physical and affective symptom clusters and 180-day event-free survival in moderate to advanced heart failure.](https://pubmed.ncbi.nlm.nih.gov/31753526/?from_term=Denfeld+QE&from_cauthor_id=31753526&from_pos=1) Heart Lung. 2020 Mar-Apr;49(2):151-157.
324. Neufeld KJ, Leoutsakos JS, Yan H, Lin S, Zabinski JS, Dinglas VD, Hosey MM, Parker AM, Hopkins RO, Needham DM. [Fatigue Symptoms during the First Year after ARDS.](https://pubmed.ncbi.nlm.nih.gov/32304774/?from_term=Neufeld+KJ&from_cauthor_id=32304774&from_pos=1) Chest. 2020 Apr 15:S0012-3692(20)30686-3.
325. Bae E, Choi SE, Lee H, Shin G, Kang D. [Validity of EQ-5D utility index and minimal clinically important difference estimation among patients with chronic obstructive pulmonary disease.](https://pubmed.ncbi.nlm.nih.gov/32293387/?from_term=Choi+SE&from_cauthor_id=32293387&from_pos=1) BMC Pulm Med. 2020 Mar 23;20(1):73
326. Wunsch H, Hill AD, Fu L, Fowler RA, Wang HT, Gomes T, Fan E, Juurlink DN, Pinto R, Wijeysundera DN, Scales DC. [New Opioid Use After Invasive Mechanical Ventilation and Hospital Discharge.](https://pubmed.ncbi.nlm.nih.gov/32348694/?from_term=Wunsch+H&from_cauthor_id=32348694&from_pos=1) Am J Respir Crit Care Med. 2020 Apr 29
327. Smith JM, Lee AC, Zeleznik H, Coffey Scott JP, Fatima A, Needham DM, Ohtake PJ [Home and Community-Based Physical Therapist Management of Adults With Post-Intensive Care Syndrome.](https://pubmed.ncbi.nlm.nih.gov/32280993/?from_term=Smith+JM&from_cauthor_id=32280993&from_pos=1) . Phys Ther. 2020 Apr 13:pzaa059
328. Neufeld KJ, Leoutsakos JS, Yan H, Lin S, Zabinski JS, Dinglas VD, Hosey MM, Parker AM, Hopkins RO, Needham DM. [Fatigue Symptoms During the First Year Following ARDS.](https://pubmed.ncbi.nlm.nih.gov/32304774/?from_sort=date&from_term=Neufeld+KJ&from_cauthor_id=32304774&from_pos=1) Chest. 2020 Apr 15:S0012-3692(20)30686-3
329. Hauschildt KE, Seigworth C, Kamphuis LA, Hough CL, Moss M, McPeake JM, Iwashyna TJ; National Heart, Lung, and Blood Institute (NHLBI) Prevention and Early Treatment of Acute Lung Injury (PETAL) Network. [Financial Toxicity After Acute Respiratory Distress Syndrome: A National Qualitative Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/32392019/?from_sort=date&from_term=Hauschildt+KE&from_cauthor_id=32392019&from_pos=1) Crit Care Med. 2020 May 6
330. Cook K, Bartholdy R, Raven M, von Dohren G, Rai S, Haines K, Ramanan M. [A national survey of intensive care follow-up clinics in Australia.](https://pubmed.ncbi.nlm.nih.gov/32430169/?from_term=A+national+survey+of+intensive+care+follow-up+clinics+in+Australia&from_sort=date&from_pos=1) Aust Crit Care. 2020 May 16:S1036-7314(20)30056-4.
331. McPeake J, Boehm LM, Hibbert E, Bakhru RN, Bastin AJ, Butcher BW, Eaton TL, Harris W, Hope AA, Jackson J, Johnson A, Kloos JA, Korzick KA, MacTavish P, Meyer J, Montgomery-Yates A, Quasim T, Slack A, Wade D, Still M, Netzer G, Hopkins RO, Mikkelsen ME, Iwashyna TJ, Haines KJ, Sevin CM. [Key Components of ICU Recovery Programs: What Did Patients Report Provided Benefit?](https://pubmed.ncbi.nlm.nih.gov/32426730/?from_sort=date&from_term=McPeake+J&from_cauthor_id=32426730&from_pos=3) Crit Care Explor. 2020 Apr 29;2(4):e0088
332. Apfelbacher C, Brandstetter S, Blecha S, Dodoo-Schittko F, Brandl M, Karagiannidis C, Quintel M, Kluge S, Putensen C, Bercker S, Ellger B, Kirschning T, Arndt C, Meybohm P, Weber-Carstens S; DACAPO study group, Bein T. [Influence of quality of intensive care on quality of life/return to work in survivors of the acute respiratory distress syndrome: prospective observational patient cohort study (DACAPO).](https://pubmed.ncbi.nlm.nih.gov/32503583/) BMC Public Health. 2020 Jun 5;20(1):861.
333. Geense WW, van den Boogaard M, Peters MAA, Simons KS, Ewalds E, Vermeulen H, van der Hoeven JG, Zegers M. [Physical, Mental, and Cognitive Health Status of ICU Survivors Before ICU Admission: A Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/32568858/) Crit Care Med. 2020 Jun 16.
334. Witcraft EJ, Gonzales JP, Seung H, Watt I, Tata AL, Yeung SYA, Heavner MS, Qato DM, Gulati MS, Millstein LS. J [Continuation of Opioid Therapy at Transitions of Care in Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/32552281/) Intensive Care Med. 2020 Jun 18:885066620933798
335. MacTavish P, Quasim T, Shaw M, Devine H, Daniel M, Kinsella J, Fenelon C, Kishore R, Iwashyna TJ, McPeake J. [Impact of a pharmacist intervention at an intensive care rehabilitation clinic.](https://pubmed.ncbi.nlm.nih.gov/31637320/) BMJ Open Qual. 2019 Sep 27;8(3):e000580
336. Carey MR, Prescott HC, Iwashyna TJ, Wilson ME, Fagerlin A, Valley TS. [Changes in self-rated health after sepsis in older adults: A retrospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/32593804/)  Chest. 2020 Jun 25:S0012-3692(20)31732-3.
337. Brummel NE, Girard TD, Pandharipande PP, Thompson JL, Jarrett RT, Raman R, Hughes CG, Patel MB, Morandi A, Gill TM, Ely EW. [Prevalence and Course of Frailty in Survivors of Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/32618688/) Crit Care Med. 2020 Jun 26
338. Huang SW, Lin LF, Chang KH, Escorpizo R, Liou TH. [Development of a comprehensive core set from the international classification of functioning, disability and health for return to work among patients with stroke through Delphi-based consensus.](https://pubmed.ncbi.nlm.nih.gov/31976638/) Eur J Phys Rehabil Med. 2020 Jun;56(3):257-264
339. Sareen J, Olafson K, Kredentser MS, Bienvenu OJ, Blouw M, Bolton JM, Logsetty S, Chateau D, Nie Y, Bernstein CN, Afifi TO, Stein MB, Leslie WD, Katz LY, Mota N, El-Gabalawy R, Sweatman S, Marrie RA. [The 5-Year Incidence of Mental Disorders in a Population-Based ICU Survivor Cohort.](https://pubmed.ncbi.nlm.nih.gov/32541566/) Crit Care Med. 2020 Jun 15
340. Wynne SC, Patel S, Barker RE, Jones SE, Walsh JA, Kon SS, Cairn J, Loebinger MR, Wilson R, Man WD, Nolan CM. [Anxiety and depression in bronchiectasis: Response to pulmonary rehabilitation and minimal clinically important difference of the Hospital Anxiety and Depression Scale.](https://pubmed.ncbi.nlm.nih.gov/32545998/) Chron Respir Dis. 2020 Jan-Dec;17:1479973120933292
341. Abdelhamid YA, Phillips LK, White MG, Presneill J, Horowitz M, Deane AM. [Survivors of intensive care with type 2 diabetes and the effect of shared care follow-up clinics: the SWEET-AS randomized controlled pilot study.](https://pubmed.ncbi.nlm.nih.gov/32800818/) Chest. 2020 Aug 12:S0012-3692(20)32193-0
342. Rima et al. Clinical pharmacist services within intensive care unit recovery clinics: An opinion of the critical care practice and research network of the American College of Clinical Pharmacy. Jaccp <https://doi.org/10.1002/jac5.1311>
343. Ingraham NE, Vakayil V, Pendleton KM, Robbins AJ, Freese RL, Northrop EF, Brunsvold ME, Charles A, Chipman JG, Tignanelli CJ. [National Trends and Variation of Functional Status Deterioration in the Medically Critically Ill.](https://pubmed.ncbi.nlm.nih.gov/32886469/)  Crit Care Med. 2020 Jul 31.
344. Khan IR, Saulle M, Oldham MA, Weber MT, Schifitto G, Lee HB. [Cognitive, Psychiatric, and Quality of Life Outcomes in Adult Survivors of Extracorporeal Membrane Oxygenation Therapy: A Scoping Review of the Literature.](https://pubmed.ncbi.nlm.nih.gov/32886470/) Crit Care Med. 2020 Jul 31.
345. Eakin MN, Eckmann T, Dinglas VD, Akinremi AA, Hosey M, Hopkins RO, Needham DM. [Association Between Participant Contact Attempts and Reports of Being Bothered in a National, Longitudinal Cohort Study of ARDS Survivors.](https://pubmed.ncbi.nlm.nih.gov/32194060/) Chest. 2020 Aug;158(2):588-595.
346. Nunna K, Al-Ani A, Nikooie R, Friedman LA, Raman V, Wadood Z, Vasishta S, Colantuoni E, Needham DM, Dinglas VD. [Participant Retention in Follow-Up Studies of Acute Respiratory Failure Survivors.](https://pubmed.ncbi.nlm.nih.gov/32234765/) Respir Care. 2020 Sep;65(9):1382-1391.
347. Rebelo P, Oliveira A, Andrade L, Valente C, Marques A. [Minimal Clinically Important Differences for Patient-Reported Outcome Measures of Fatigue in Patients With COPD Following Pulmonary Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/32184112/) Chest. 2020 Aug;158(2):550-561.
348. Wawer E, Viprey M, Floccard B, Saoud M, Subtil F, Wafa H, Rheims E, Rimmelé T, Poulet E. [Early Detection of Patients at Risk of Developing a Post-Traumatic Stress Disorder After an ICU Stay.](https://pubmed.ncbi.nlm.nih.gov/32885939/) Crit Care Med. 2020 Aug 5.
349. Cox CE, Olsen MK, Gallis JA, Porter LS, Greeson JM, Gremore T, Frear A, Ungar A, McKeehan J, McDowell B, McDaniel H, Moss M, Hough CL. [Optimizing a self-directed mobile mindfulness intervention for improving cardiorespiratory failure survivors' psychological distress (LIFT2): Design and rationale of a randomized factorial experimental clinical trial.](https://pubmed.ncbi.nlm.nih.gov/32805434/) Contemp Clin Trials. 2020 Aug 15;96:106119.
350. Khandelwal N, Engelberg RA, Hough CL, Cox CE, Curtis JR. J [The Patient and Family Member Experience of Financial Stress Related to Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/31895636/) Palliat Med. 2020 Jul;23(7):972-976.
351. Hammond NE, Finfer SR, Li Q, Taylor C, Cohen J, Arabi Y, Bellomo R, Billot L, Harward M, Joyce C, McArthur C, Myburgh J, Perner A, Rajbhandari D, Rhodes A, Thompson K, Webb S, Venkatesh B; ADRENAL Trial Investigators and the Australian and New Zealand Intensive Care Society Clinical Trials Group. [Health-related quality of life in survivors of septic shock: 6-month follow-up from the ADRENAL trial.](https://pubmed.ncbi.nlm.nih.gov/32676679/) Intensive Care Med. 2020 Sep;46(9):1696-1706.
352. Groves J, Cahill J, Sturmey G, Peskett M, Wade D. Patient support groups: A survey of United Kingdom practice, purpose and performance. *Journal of the Intensive Care Society*. September 2020. doi:[10.1177/1751143720952017](https://doi.org/10.1177/1751143720952017)
353. Chesley CF, Harhay MO, Small DS, Hanish A, Prescott HC, Mikkelsen ME. [Hospital Readmission and Post-Acute Care Use After Intensive Care Unit Admissions: New ICU Quality Metrics?](https://pubmed.ncbi.nlm.nih.gov/32912034/) J Intensive Care Med. 2020 Sep
354. Minton C, Batten L, Huntington A. [A qualitative multicase study of the trajectories of prolonged critical illness: Patient, family, and healthcare professionals' experiences.](https://pubmed.ncbi.nlm.nih.gov/31786072/) Aust Crit Care. 2020 Sep;33(5):463-468.
355. Surkan M, Rajabali N, Bagshaw SM, Wang X, Rolfson D. [Interrater Reliability of the Clinical Frailty Scale by Geriatrician and Intensivist in Patients Admitted to the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/32904800/) Can Geriatr J. 2020 Sep 1;23(3):235-241.
356. Derry HM, Lief L, Woubeshet N, Schenck EJ, Kakarala S, LaFond E, Berlin DA, Prigerson HG. [Peritraumatic Stress Symptoms during Early Post-ICU Recovery.](https://pubmed.ncbi.nlm.nih.gov/32870018/) Ann Am Thorac Soc. 2020 Sep 1.
357. Valsø Å,Rustøen T, Småstuen MC, Ekeberg Ø, Skogstad L, Schou-Bredal I, Myhren H, Sunde K, Tøien K. [Effect of Nurse-Led Consultations on Post-Traumatic Stress and Sense of Coherence in Discharged ICU Patients With Clinically Relevant Post-Traumatic Stress Symptoms-A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/33048906/) Crit Care Med. 2020 Oct 13. doi: 10.1097/CCM.0000000000004628
358. Vranceanu AM, Bannon S, Mace R, Lester E, Meyers E, Gates M, Popok P, Lin A, Salgueiro D, Tehan T, Macklin E, Rosand J. [Feasibility and Efficacy of a Resiliency Intervention for the Prevention of Chronic Emotional Distress Among Survivor-Caregiver Dyads Admitted to the Neuroscience Intensive Care Unit: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/33052404/) JAMA Netw Open. 2020 Oct 1;3(10):e2020807
359. Nydahl P, Egerod I, Hosey MM, Needham DM, Jones C, Bienvenu OJJ. [Report on the Third International Intensive Care Unit Diary Conference.](https://pubmed.ncbi.nlm.nih.gov/33000136/) Crit Care Nurse. 2020 Oct 1;40(5):e18-e25.
360. May AD, Parker AM, Caldwell ES, Hough CL, Jutte JE, Gonzalez MS, Needham DM, Hosey MM. [Provider-Documented Anxiety in the ICU: Prevalence, Risk Factors, and Associated Patient Outcomes.](https://pubmed.ncbi.nlm.nih.gov/33034254/) J Intensive Care Med. 2020 Oct 9:885066620956564.
361. Gezginci E, Goktas S, Orhan BN. [The effects of environmental stressors in intensive care unit on anxiety and depression.](https://pubmed.ncbi.nlm.nih.gov/32954635/) Nurs Crit Care. 2020 Sep 20. doi: 10.1111/nicc.12553.
362. Nordness MF, Patel MB, Erickson CR, Kiehl A, Jackson JC, Raman R, Pandharipande PP, Ely EW, Wilson JE. [Depression Predicts Long-Term Cognitive Impairment in Survivors of Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/33017354/) J Trauma Acute Care Surg. 2020 Oct 2. doi: 10.1097/TA.0000000000002955
363. Jones AC, Hilton R, Ely B, Gororo L, Danesh V, Sevin CM, Jackson JC, Boehm LM. [Facilitating Posttraumatic Growth After Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/32929457/) Am J Crit Care. 2020 Sep 15:e1-e8. doi: 10.4037/ajcc2020149
364. Mayer KP, Boustany H, Cassity EP, Soper MK, Kalema AG, Hatton Kolpek J, Montgomery-Yates AA. [ICU Recovery Clinic Attendance, Attrition, and Patient Outcomes: The Impact of Severity of Illness, Gender, and Rurality.](https://pubmed.ncbi.nlm.nih.gov/33063022/) Crit Care Explor. 2020 Sep 28;2(10):e0206
365. Haas B, Jeon SH, Rotermann M, Stepner M, Fransoo R, Sanmartin C, Wunsch H, Scales DC, Iwashyna TJ, Garland A. [Association of Severe Trauma With Work and Earnings in a National Cohort in Canada.](https://pubmed.ncbi.nlm.nih.gov/33112383/) JAMA Surg. 2020 Oct 28:e204599.
366. Rawal H, Young DL, Nikooie R, Al Ani AH, Friedman LA, Vasishta S, Haut ER, Colantuoni E, Needham DM, Dinglas VD. [Participant retention in trauma intensive care unit (ICU) follow-up studies: a post-hoc analysis of a previous scoping review.](https://pubmed.ncbi.nlm.nih.gov/33195814/) Trauma Surg Acute Care Open. 2020 Nov 4;5(1):e000584
367. Law AC, Turnbull AE. [Patient-Centered Outcomes After Sepsis: Disentangling Mind and Matter.](https://pubmed.ncbi.nlm.nih.gov/33160521/) Chest. 2020 Nov;158(5):1808-1809
368. Hatch R, Young D, Barber VS, Griffiths J, Harrison DA, Watkinson PJ. [Anxiety, depression and post-traumatic stress disorder management after critical illness: a UK multi-centre prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/33138832/) Crit Care. 2020 Nov 2;24(1):633
369. Lassen-Greene CL, Nordness M, Kiehl A, Jones A, Jackson JC, Boncyk CS. [Peer Support Group for Intensive Care Unit Survivors: Perceptions on Supportive Recovery in the Era of Social Distancing.](https://pubmed.ncbi.nlm.nih.gov/33108225/) Ann Am Thorac Soc. 2020 Oct 27.
370. Hill et al. Frailty and long-term outcomes following critical illness: A population-level cohort study. Journal of Critical Care, Volume 62, April 2021, Pages 94-100, <https://doi.org/10.1016/j.jcrc.2020.11.021>
371. Parotto M, Herridge MS. [Recovery after prolonged treatment in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/33257328/) CMAJ. 2020 Nov 30;192(48):E1637
372. Kang J, Jeong YJ, Hong J. [The effect of postintensive care syndrome on the quality of life of intensive care unit survivors: A secondary analysis.](https://pubmed.ncbi.nlm.nih.gov/33214026/) Aust Crit Care. 2020 Nov 16:S1036-7314(20)30298-8
373. Weinhouse GL, Salomon S, Nisotel L, Levy-Carrick NC, Lamas D. [Patients' and Their Caregivers' Interest in Learning About Post-ICU Syndrome and Seeking Help for It.](https://pubmed.ncbi.nlm.nih.gov/33251518/) Crit Care Explor. 2020 Nov 23;2(12):e0285
374. Hill AD, Fowler RA, Wunsch H, Pinto R, Scales DC. [Frailty and long-term outcomes following critical illness: A population-level cohort study.](https://pubmed.ncbi.nlm.nih.gov/33316556/) J Crit Care. 2020 Dec 1;62:94-100
375. Calkins K, Kako P, Guttormson J. [Patients' experiences of recovery: Beyond the intensive care unit and into the community.](https://pubmed.ncbi.nlm.nih.gov/33349962/) J Adv Nurs. 2020 Dec 21.
376. Auriemma CL, Harhay MO, Haines KJ, Barg FK, Halpern SD, Lyon SM. [What Matters to Patients and Their Families During and After Critical Illness: A Qualitative Study.](https://pubmed.ncbi.nlm.nih.gov/33385204/) Am J Crit Care. 2021 Jan 1;30(1):11-20.
377. Gill TM, Han L, Gahbauer EA, Leo-Summers L, Murphy TE, Ferrante LE. [Functional Effects of Intervening Illnesses and Injuries After Critical Illness in Older Persons.](https://pubmed.ncbi.nlm.nih.gov/33497167/) Crit Care Med. 2021 Jan 11
378. Carpentier VT, Salga M, Gatin L, GenÊt F, Paquereau J. [Early diagnosis of heterotopic ossification among patients admitted to a neurological post intensive care rehabilitation unit.](https://pubmed.ncbi.nlm.nih.gov/33448758/) Eur J Phys Rehabil Med. 2021 Jan 15
379. von Oelreich E, Eriksson M, Sjölund KF, Discacciati A, Larsson E, Oldner A. [Opioid Use After Intensive Care: A Nationwide Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/33512940/) Crit Care Med. 2021 Mar 1;49(3):462-471.
380. Schmidt K, Gensichen J, Fleischmann-Struzek C, Bahr V, Pausch C, Sakr Y, Reinhart K, Vollmar HC, Thiel P, Scherag A, Gantner J, Brunkhorst FM. [Long-Term Survival Following Sepsis.](https://pubmed.ncbi.nlm.nih.gov/33533711/) Dtsch Arztebl Int. 2020 Nov 13;117(46):775-782
381. Gehrke-Beck S, Gensichen J, Turner KM, Heintze C, Schmidt KF; SMOOTH Study Group. [General practitioners' views and experiences in caring for patients after sepsis: a qualitative interview study.](https://pubmed.ncbi.nlm.nih.gov/33568366/) BMJ Open. 2021 Feb 10;11(2):e040533
382. Teixeira C, Rosa RG, Sganzerla D, Sanchez EC, Robinson CC, Dietrich C, Kochhann R, de Souza D, Rech GS, da R Dos Santos R, Schneider D, Boldo R, Sharshar T, Bozza FA, Falavigna M, Friedman G. [The burden of mental illness among survivors of critical care - risk factors and impact on quality of life: a multicenter prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/33640377/) Chest. 2021 Feb 25:S0012-3692(21)00342-1
383. Hosey MM, Wegener ST, Hinkle C, Needham DM. [A Cognitive Behavioral Therapy-Informed Self-Management Program for Acute Respiratory Failure Survivors: A Feasibility Study.](https://pubmed.ncbi.nlm.nih.gov/33672672/) J Clin Med. 2021 Feb 20;10(4):872
384. Schmidt B, Schneider J, Deffner T, Rosendahl J. [Hypnotic suggestions of safety improve well-being in non-invasively ventilated patients in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/33590259/) Intensive Care Med. 2021 Feb 16:1-2
385. Geense WW, Zegers M, Peters MAA, Ewalds E, Simons KS, Vermeulen H, van der Hoeven JG, van den Boogaard M. [New Physical, Mental, and Cognitive Problems 1-year Post-ICU: A Prospective Multicenter Study.](https://pubmed.ncbi.nlm.nih.gov/33526001/) Am J Respir Crit Care Med. 2021 Feb 1
386. Kawakami D, Fujitani S, Morimoto T, Dote H, Takita M, Takaba A, Hino M, Nakamura M, Irie H, Adachi T, Shibata M, Kataoka J, Korenaga A, Yamashita T, Okazaki T, Okumura M, Tsunemitsu T. [Prevalence of post-intensive care syndrome among Japanese intensive care unit patients: a prospective, multicenter, observational J-PICS study.](https://pubmed.ncbi.nlm.nih.gov/33593406/) Crit Care. 2021 Feb 16;25(1):69.
387. Van Aerde N, Meersseman P, Debaveye Y, Wilmer A, Gunst J, Casaer MP, Wauters J, Wouters PJ, Gosselink R, Van den Berghe G, Hermans G. [Five-year outcome of respiratory muscle weakness at intensive care unit discharge: secondary analysis of a prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/33712505/) Thorax. 2021 Mar 12:thoraxjnl-2020-216720.
388. Su H, Thompson HJ, May S, Dinglas VD, Hough CL, Hosey MM, Hopkins RO, Kamdar BB, Needham DM. [Association of Job Characteristics and Functional Impairments on Return to Work after Acute Respiratory Distress Syndrome.](https://pubmed.ncbi.nlm.nih.gov/33727035/) Chest. 2021 Mar 13:S0012-3692(21)00484-0
389. Probert JM, Lin S, Yan H, Leoutsakos JS, Dinglas VD, Hosey MM, Parker AM, Hopkins RO, Needham DM, Neufeld KJ. [Bodily pain in survivors of acute respiratory distress syndrome: A 1-year longitudinal follow-up study.](https://pubmed.ncbi.nlm.nih.gov/33744745/) J Psychosom Res. 2021 May;144:110418.
390. Malmgren J, Waldenström AC, Rylander C, Johannesson E, Lundin S. [Long-term health-related quality of life and burden of disease after intensive care: development of a patient-reported outcome measure.](https://pubmed.ncbi.nlm.nih.gov/33632271/) Crit Care. 2021 Feb 25;25(1):82
391. Rousseau AF, Prescott HC, Brett SJ, Weiss B, Azoulay E, Creteur J, Latronico N, Hough CL, Weber-Carstens S, Vincent JL, Preiser JC. [Long-term outcomes after critical illness: recent insights.](https://pubmed.ncbi.nlm.nih.gov/33731201/) Crit Care. 2021 Mar 17;25(1):108
392. Brummel NE, Hughes CG, Thompson JL, Jackson JC, Pandharipande P, McNeil JB, Raman R, Orun OM, Ware LB, Bernard GR, Ely EW, Girard TD. [Inflammation and Coagulation during Critical Illness and Long-Term Cognitive Impairment and Disability.](https://pubmed.ncbi.nlm.nih.gov/33030981/) Am J Respir Crit Care Med. 2021 Mar 15;203(6):699-706
393. Kang J, Jeong YJ, Hong J. [The effect of postintensive care syndrome on the quality of life of intensive care unit survivors: A secondary analysis.](https://pubmed.ncbi.nlm.nih.gov/33214026/) Aust Crit Care. 2021 May;34(3):246-253
394. Rosa RG, Pellegrini JAS, Moraes RB, Prieb RGG, Sganzerla D, Schneider D, Robinson CC, Kochhann R, da Silva DB, Amaral A, Prestes RM, Medeiros GS, Falavigna M, Teixeira C. [Mechanism of a Flexible ICU Visiting Policy for Anxiety Symptoms Among Family Members in Brazil: A Path Mediation Analysis in a Cluster-Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/33870915/) Crit Care Med. 2021 Apr 19
395. Rosgen BK, Krewulak KD, Davidson JE, Ely EW, Stelfox HT, Fiest KM. [Associations between caregiver-detected delirium and symptoms of depression and anxiety in family caregivers of critically ill patients: a cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/33836699/) BMC Psychiatry. 2021 Apr 9;21(1):187
396. Oh TK, Park HY, Song IA. [Depression and Long-Term Survival Among South Korean Sepsis Survivors: A Nationwide Cohort Study From 2011 to 2014.](https://pubmed.ncbi.nlm.nih.gov/33826587/) Crit Care Med. 2021 Apr 8
397. Karanikola M, Alexandrou G, Mpouzika M, Chatzittofis A, Kusi-Appiah E, Papathanassoglou E. [Pilot exploration of post-traumatic stress symptoms in intensive care unit survivors in Cyprus.](https://pubmed.ncbi.nlm.nih.gov/33169508/) Nurs Crit Care. 2021 Mar;26(2):109-117.
398. Miyamoto K, Shibata M, Shima N, Nakashima T, Kida M, Matsumoto H, Oka N, Yazaki A, Uchigaki A, Takemoto A, Kato S; W-PICS Investigators. [Combination of delirium and coma predicts psychiatric symptoms at twelve months in critically ill patients: A longitudinal cohort study.](https://pubmed.ncbi.nlm.nih.gov/33618284/) J Crit Care. 2021 Jun;63:76-82
399. Dubin R, Veith JM, Grippi MA, McPeake J, Harhay MO, Mikkelsen ME. Ann [Functional Outcomes, Goals, and Goal Attainment Amongst Chronically Critically Ill Long-Term Acute Care Hospital Patients.](https://pubmed.ncbi.nlm.nih.gov/33984248/) Am Thorac Soc. 2021 May 13
400. Hauschildt et al (2021) Patients’ Adaptations After Acute Respiratory Distress Syndrome: A Qualitative Study. AJCC <https://doi.org/10.4037/ajcc2021825>
401. Warner MA, Kor DJ, Frank RD, Dinglas VD, Mendez-Tellez P, Himmelfarb CRD, Shanholtz CB, Storlie CB, Needham DM. [Anemia in Critically Ill Patients With Acute Respiratory Distress Syndrome and Posthospitalization Physical Outcomes.](https://pubmed.ncbi.nlm.nih.gov/32207358/) J Intensive Care Med. 2021 May;36(5):557-565
402. Su H, Hopkins RO, Kamdar BB, May S, Dinglas VD, Johnson KL, Hosey M, Hough CL, Needham DM, Thompson HJ. [Association of imbalance between job workload and functional ability with return to work in ARDS survivors.](https://pubmed.ncbi.nlm.nih.gov/33927021/) Thorax. 2021 Apr 29:thoraxjnl-2020-216586.
403. Geense et al (2021) Reduced quality of life in ICU survivors - the story behind the numbers: A mixed methods study. Journal of Critical Care <https://doi.org/10.1016/j.jcrc.2021.05.008>
404. Oh TK, Song IA. [Quality of life after sepsis and its association with mortality among sepsis survivors in South Korea: A population level cohort study.](https://pubmed.ncbi.nlm.nih.gov/33984599/) J Crit Care. 2021 May 3;64:193-198
405. Wilbur J, Rockafellow J, Shian B. [Post-ICU Care in the Outpatient Setting.](https://pubmed.ncbi.nlm.nih.gov/33983005/) Am Fam Physician. 2021 May 15;103(10):590-596
406. Hashem MD, Hopkins RO, Colantuoni E, Dinglas VD, Sinha P, Aronson Friedman L, Morris PE, Jackson JC, Hough CL, Calfee CS, Needham DM. [Six-month and 12-month patient outcomes based on inflammatory subphenotypes in sepsis-associated ARDS: secondary analysis of SAILS-ALTOS trial.](https://pubmed.ncbi.nlm.nih.gov/34112703/) Thorax. 2021 Jun 10:thoraxjnl-2020-216613
407. Wubben N, van den Boogaard M, Ramjith J, Bisschops LLA, Frenzel T, van der Hoeven JG, Zegers M. [Development of a practically usable prediction model for quality of life of ICU survivors: A sub-analysis of the MONITOR-IC prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/34111683/) J Crit Care. 2021 May 26;65:76-83
408. Higgins AM, Neto AS, Bailey M, Barrett J, Bellomo R, Cooper DJ, Gabbe BJ, Linke N, Myles PS, Paton M, Philpot S, Shulman M, Young M, Hodgson CL; PREDICT Study Investigators. [Predictors of death and new disability after critical illness: a multicentre prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/34089063/) Intensive Care Med. 2021 Jul;47(7):772-781
409. Unoki T, Sakuramoto H, Uemura S, Tsujimoto T, Yamaguchi T, Shiba Y, Hino M, Kuribara T, Fukuda Y, Nagao T, Kitayama M, Shirasaka M, Haruna J, Satoi Y, Masuda Y; [Prevalence of and risk factors for post-intensive care syndrome: Multicenter study of patients living at home after treatment in 12 Japanese intensive care units, SMAP-HoPe study.](https://pubmed.ncbi.nlm.nih.gov/34043682/) SMAP-HoPe Study Project. PLoS One. 2021 May 27;16(5):e0252167
410. Darvall JN, Bellomo R, Paul E, Bailey M, Young PJ, Reid A, Rockwood K, Pilcher D. [Routine Frailty Screening in Critical Illness: A Population-Based Cohort Study in Australia and New Zealand.](https://pubmed.ncbi.nlm.nih.gov/34089741/) Chest. 2021 Jun 4:S0012-3692(21)01080-1
411. Gandotra S, Files DC, Shields KL, Berry M, Bakhru RN. [Activity Levels in Survivors of the ICU.](https://pubmed.ncbi.nlm.nih.gov/34097055/) Phys Ther. 2021 Jun 7:pzab135
412. Elías MN, Munro CL, Liang Z. [Daytime activity and sleep are associated with motor function in older intensive care unit survivors.](https://pubmed.ncbi.nlm.nih.gov/33637322/) Heart Lung. 2021 Jul-Aug;50(4):542-545
413. Haines KJ, Hibbert E, Leggett N, Boehm LM, Hall T, Bakhru RN, Bastin AJ, Butcher BW, Eaton TL, Harris W, Hope AA, Jackson J, Johnson A, Kloos JA, Korzick KA, Mactavish P, Meyer J, Montgomery-Yates A, Quasim T, Slack A, Wade D, Still M, Netzer G, Hopkins RO, Iwashyna TJ, Mikkelsen ME, McPeake J, Sevin CM; Society of Critical Care Medicine’s Thrive initiative. [Transitions of Care After Critical Illness-Challenges to Recovery and Adaptive Problem Solving.](https://pubmed.ncbi.nlm.nih.gov/34091486/) Crit Care Med. 2021 Jun 5.
414. Brandao Barreto B, Brandao Barreto T, Luz M, Gusmao-Flores D. [Caring for COVID-19 patients and their relatives with the ICU diary.](https://pubmed.ncbi.nlm.nih.gov/34043037/) Intensive Care Med. 2021 May 27:1-2
415. Auriemma CL, Taylor SP, Harhay MO, Courtright KR, Halpern SD. [Hospital-free Days: A Pragmatic and Patient-centered Outcome for Trials Among Critically and Seriously Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/34319848/) Am J Respir Crit Care Med. 2021 Jul 28.
416. Henderson P, Quasim T, Asher A, Campbell L, Daniel M, Davey L, Devine H, Gall M, Mactavish P, Mcgroarty K, Nolan F, Purdie C, Quasim I, Sharp J, Shaw M, Iwashyna TJ, McPeake J. [Post-intensive care syndrome following cardiothoracic critical care: Feasibility of a complex intervention.](https://pubmed.ncbi.nlm.nih.gov/33856038/) J Rehabil Med. 2021
417. Bottom-Tanzer SF, Poyant JO, Louzada MT, Ahmed SE, Boudouvas A, Poon E, Hojman HM, Bugaev N, Johnson BP, Van Kirk A, Daniel E, Emoff C, Mahoney EJ. J [High Occurrence of Post Intensive Care Syndrome Identified in Surgical ICU Survivors After Implementation of a Multidisciplinary Clinic.](https://pubmed.ncbi.nlm.nih.gov/34108416/) Trauma Acute Care Surg. 2021
418. Geense WW, de Graaf M, Vermeulen H, van der Hoeven J, Zegers M, van den Boogaard M. [Reduced quality of life in ICU survivors - the story behind the numbers: A mixed methods study.](https://pubmed.ncbi.nlm.nih.gov/34082253/) J Crit Care. 2021 May 23;65:36-41.
419. Yao L, Li Y, Yin R, Yang L, Ding N, Li B, Shen X, Zhang Z. [Incidence and influencing factors of post-intensive care cognitive impairment.](https://pubmed.ncbi.nlm.nih.gov/34246526/) Intensive Crit Care Nurs. 2021 Jul 7:103106
420. Valsø Å, Rustøen T, Småstuen MC, Puntillo K, Skogstad L, Schou-Bredal I, Sunde K, Tøien K. [Occurrence and characteristics of pain after ICU discharge: A longitudinal study.](https://pubmed.ncbi.nlm.nih.gov/34382725/) Nurs Crit Care. 2021 Aug 12
421. Gluck S, Andrawos A, Summers MJ, Lange J, Chapman MJ, Finnis ME, Deane AM. [The use of smartphone-derived location data to evaluate participation following critical illness: A pilot observational cohort study.](https://pubmed.ncbi.nlm.nih.gov/34373172/) Aust Crit Care. 2021 Aug 6:S1036-7314(21)00073-4
422. Major ME, Dettling-Ihnenfeldt D, Ramaekers SPJ, Engelbert RHH, van der Schaaf M. [Feasibility of a home-based interdisciplinary rehabilitation program for patients with Post-Intensive Care Syndrome: the REACH study.](https://pubmed.ncbi.nlm.nih.gov/34353341/) Crit Care. 2021 Aug 5;25(1):279
423. Su H, Thompson HJ, May S, Dinglas VD, Hough CL, Hosey MM, Hopkins RO, Kamdar BB, Needham DM. [Association of Job Characteristics and Functional Impairments on Return to Work After ARDS.](https://pubmed.ncbi.nlm.nih.gov/33727035/) Chest. 2021 Aug;160(2):509-518
424. Turnbull AE, Ji H, Dinglas VD, Wu AW, Mendez-Tellez PA, Himmelfarb CD, Shanholtz CB, Hosey MM, Hopkins RO, Needham DM. [Understanding patients' perceived health after critical illness: analysis of two prospective, longitudinal studies of ARDS survivors.](https://pubmed.ncbi.nlm.nih.gov/34419426/) Chest. 2021 Aug 19:S0012-3692(21)03687-4.
425. Taylor SP, Murphy S, Rios A, McWilliams A, McCurdy L, Chou SH, Hetherington T, Rossman W, Russo M, Gibbs M, Kowalkowski MA. [Effect of a Multicomponent Sepsis Transition and Recovery Program on Mortality and Readmissions After Sepsis: The Improving Morbidity During Post-Acute Care Transitions for Sepsis Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/34534130/) Crit Care Med. 2021 Sep 16.
426. Kowalkowski M, Eaton T, McWilliams A, Tapp H, Rios A, Murphy S, Burns R, Gutnik B, O'Hare K, McCurdy L, Dulin M, Blanchette C, Chou SH, Halpern S, Angus DC, Taylor SP. [Protocol for a two-arm pragmatic stepped-wedge hybrid effectiveness-implementation trial evaluating Engagement and Collaborative Management to Proactively Advance Sepsis Survivorship (ENCOMPASS).](https://pubmed.ncbi.nlm.nih.gov/34078374/) BMC Health Serv Res. 2021 Jun 2;21(1):544
427. Falvey JR, Cohen AB, O'Leary JR, Leo-Summers L, Murphy TE, Ferrante LE. [Association of Social Isolation With Disability Burden and 1-Year Mortality Among Older Adults With Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/34491282/) JAMA Intern Med. 2021 Sep 7:e215022
428. Olafson K, Marrie RA, Bolton JM, Bernstein CN, Bienvenu OJ, Kredentser MS, Logsetty S, Chateau D, Nie Y, Blouw M, Afifi TO, Stein MB, Leslie WD, Katz LY, Mota N, El-Gabalawy R, Enns MW, Leong C, Sweatman S, Sareen [The 5-year pre- and post-hospitalization treated prevalence of mental disorders and psychotropic medication use in critically ill patients: a Canadian population-based study.](https://pubmed.ncbi.nlm.nih.gov/34495357/) J. Intensive Care Med. 2021 Sep 8
429. Bannon SM, Cornelius T, Gates MV, Lester E, Mace RA, Popok P, Macklin EA, Rosand J, Vranceanu AM. [Emotional distress in neuro-ICU survivor-caregiver dyads: The recovering together randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/34498896/) Health Psychol. 2021 Sep 9.
430. Falvey JR, Murphy TE, Leo-Summers L, Gill TM, Ferrante LE. [Neighborhood Socioeconomic Disadvantage and Disability After Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/34636807/) Crit Care Med. 2021 Oct 12. doi: 10.1097/CCM.0000000000005364
431. Rosgen BK, Moss SJ, Soo A, Stelfox HT, Patten SB, Fiest KM. [Healthcare utilization and mortality outcomes in patients with pre-existing psychiatric disorders after intensive care unit discharge: A population-based retrospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/34455165/) J Crit Care. 2021 Dec;66:67-74
432. Connolly B, Milton-Cole R, Adams C, Battle C, McPeake J, Quasim T, Silversides J, Slack A, Waldmann C, Wilson E, Meyer J; Faculty of Intensive Care Medicine Life After Critical Illness Working Group. [Recovery, rehabilitation and follow-up services following critical illness: an updated UK national cross-sectional survey and progress report.](https://pubmed.ncbi.nlm.nih.gov/34607869/) BMJ Open. 2021 Oct 4;11(10):e052214.
433. Van Aerde N, Meersseman P, Debaveye Y, Wilmer A, Casaer MP, Gunst J, Wauters J, Wouters PJ, Goetschalckx K, Gosselink R, Van den Berghe G, Hermans G. [Aerobic exercise capacity in long-term survivors of critical illness: secondary analysis of the post-EPaNIC follow-up study.](https://pubmed.ncbi.nlm.nih.gov/34750648/) Intensive Care Med. 2021 Dec;47(12):1462-1471
434. Harrison DA, Creagh-Brown BC, Rowan KM. Timing and burden of persistent critical illnessin UK intensive care units: An observational cohort study. *Journal of the Intensive Care Society*. November 2021. doi:[10.1177/17511437211047180](https://doi.org/10.1177/17511437211047180)
435. Oh TK, Park HY, Song IA. Ann [Occurrence and Long-term Prognosis of Insomnia Disorder among Survivors of Acute Respiratory Distress Syndrome in South Korea.](https://pubmed.ncbi.nlm.nih.gov/34793689/) Am Thorac Soc. 2021 Nov 18.
436. Tripathy S, Acharya SP, Singh S, Patra S, Mishra BR, Kar N. [Post traumatic stress symptoms, anxiety, and depression in patients after intensive care unit discharge - a longitudinal cohort study from a LMIC tertiary care centre.](https://pubmed.ncbi.nlm.nih.gov/32398018/) BMC Psychiatry. 2020 May 12;20(1):220
437. Tripathy S, Kar N, Acharya SP, Singh SK. [ICU Memories and Patient Outcomes in a Low Middle-Income Country: A Longitudinal Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/33938712/) Crit Care Med. 2021 Oct 1;49(10):e978-e988
438. Hoad N, Swinton M, Takaoka A, Tam B, Shears M, Waugh L, Toledo F, Clarke FJ, Duan EH, Soth M, Cook DJ. [Fostering humanism: a mixed methods evaluation of the Footprints Project in critical care.](https://pubmed.ncbi.nlm.nih.gov/31678940/) BMJ Open. 2019 Nov 2;9(11):e029810
439. Hashem MD, Hopkins RO, Colantuoni E, Dinglas VD, Sinha P, Aronson Friedman L, Morris PE, Jackson JC, Hough CL, Calfee CS, Needham DM. [Six-month and 12-month patient outcomes based on inflammatory subphenotypes in sepsis-associated ARDS: secondary analysis of SAILS-ALTOS trial.](https://pubmed.ncbi.nlm.nih.gov/34112703/) Thorax. 2022 Jan;77(1):22-30
440. Rilinger J, Krötzsch K, Bemtgen X, Jäckel M, Zotzmann V, Lang CN, Kaier K, Duerschmied D, Supady A, Bode C, Staudacher DL, Wengenmayer T. [Long-term survival and health-related quality of life in patients with severe acute respiratory distress syndrome and veno-venous extracorporeal membrane oxygenation support.](https://pubmed.ncbi.nlm.nih.gov/34844654/) Crit Care. 2021 Nov 29;25(1):410
441. Brown SM, Dinglas VD, Akhlaghi N, Bose S, Banner-Goodspeed V, Beesley S, Groat D, Greene T, Hopkins RO, Mir-Kasimov M, Sevin CM, Turnbull AE, Jackson JC, Needham DM; APICS-01 Study Team. [Association between unmet medication needs after hospital discharge and readmission or death among acute respiratory failure survivors: the addressing post-intensive care syndrome (APICS-01) multicenter prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/34991660/) Crit Care. 2022 Jan 7;26(1):6.
442. Levine AR, Shanholtz C. [A syndrome by any other name: playing the long-term outcome CARDS.](https://pubmed.ncbi.nlm.nih.gov/34996849/) Thorax. 2022 Jan 7:thoraxjnl-2021-218279
443. Su H, Thompson HJ, Pike K, Kamdar BB, Bridges E, Hosey MM, Hough CL, Needham DM, Hopkins RO. [Interrelationships among workload, illness severity, and function on return to work following acute respiratory distress syndrome.](https://pubmed.ncbi.nlm.nih.gov/35210156/) Aust Crit Care. 2022 Feb 21:S1036-7314(22)00003-0
444. Angriman F, Rosella LC, Lawler PR, Ko DT, Wunsch H, Scales DC. [Sepsis hospitalization and risk of subsequent cardiovascular events in adults: a population-based matched cohort study.](https://pubmed.ncbi.nlm.nih.gov/35142896/) Intensive Care Med. 2022 Feb 10.
445. Boezeman EJ, Hofhuis JGM, Cox CE, de Vries RE, Spronk PE. [SICQ Coping and the Health-Related Quality of Life and Recovery of Critically Ill ICU Patients: A Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/34181955/) Chest. 2022 Jan;161(1):130-139
446. Haddad T, Mulpuru S, Salter I, Hladkowicz E, Des Autels K, Gagne S, Bryson GL, McCartney CJL, Huang A, Huang S, Forster A, van Walraven C, Kyeremanteng K, Fernando SM, Nagpal S, Moloo H, Boet S, Le Blanc V, Lalu MM, McIsaac DI. [Development and evaluation of an evidence-based, theory-grounded online Clinical Frailty Scale tutorial.](https://pubmed.ncbi.nlm.nih.gov/35136898/) Age Ageing. 2022 Feb 2;51(2):afab258
447. Siuba MT, Sadana D, Gadre S, Bruckman D, Duggal A. [Acute respiratory distress syndrome readmissions: A nationwide cross-sectional analysis of epidemiology and costs of care.](https://pubmed.ncbi.nlm.nih.gov/35077505/) PLoS One. 2022 Jan 25;17(1):e0263000
448. Tollinche LE, Seier KP, Yang G, Tan KS, Tayban YD, Pastores SM, Yeoh CB, Karamchandani K. [Discharge prescribing of enteral opioids in opioid naïve patients following non-surgical intensive care: A retrospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/34856489/) J Crit Care. 2022 Apr;68:16-21.
449. Wendlandt B, Ceppe A, Gaynes BN, Cox CE, Hanson LC, Nelson JE, Carson SS. [Posttraumatic Stress Disorder Symptom Clusters in Surrogate Decision Makers of Patients Experiencing Chronic Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/35261980/) Crit Care Explor. 2022 Mar 1;4(3):e0647
450. Martin CM, Lam M, Le B, Pinto R, Lau V, Ball IM, Wunsch H, Fowler RA, Scales DC. [Outcomes After Direct Discharge Home From Critical Care Units: A Population-Based Cohort Analysis.](https://pubmed.ncbi.nlm.nih.gov/35275594/) Crit Care Med. 2022 Mar 14
451. Jain S, Murphy TE, O'Leary JR, Leo-Summers L, Ferrante LE. [Association Between Socioeconomic Disadvantage and Decline in Function, Cognition, and Mental Health After Critical Illness Among Older Adults : A Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/35254879/) Ann Intern Med. 2022 Mar 8
452. Tsui A, Searle SD, Bowden H, Hoffmann K, Hornby J, Goslett A, Weston-Clarke M, Howes LH, Street R, Perera R, Taee K, Kustermann C, Chitalu P, Razavi B, Magni F, Das D, Kim S, Chaturvedi N, Sampson EL, Rockwood K, Cunningham C, Ely EW, Richardson SJ, Brayne C, Terrera GM, Tieges Z, MacLullich A, Davis D. [The effect of baseline cognition and delirium on long-term cognitive impairment and mortality: a prospective population-based study.](https://pubmed.ncbi.nlm.nih.gov/35382093/) Lancet Healthy Longev. 2022 Apr;3(4):e232-e241
453. Peters van Ton AM, Meijer-van Leijsen EMC, Bergkamp MI, Bronkhorst EM, Pickkers P, de Leeuw FE, Tuladhar AM, Abdo WF. [Risk of Dementia and Structural Brain Changes Following Nonneurological Infections During 9-Year Follow-Up.](https://pubmed.ncbi.nlm.nih.gov/34432713/) Crit Care Med. 2022 Apr 1;50(4):554-564
454. Taylor, S. P., Murphy, S., Rios, A., McWilliams, A., McCurdy, L., Chou, S. H., Hetherington, T., Rossman, W., Russo, M., Gibbs, M., & Kowalkowski, M. A. (2022). [Effect of a Multicomponent Sepsis Transition and Recovery Program on Mortality and Readmissions After Sepsis: The Improving Morbidity During Post-Acute Care Transitions for Sepsis Randomized Clinical Trial](https://doi.org/10.1097/CCM.0000000000005300). *Critical care medicine*, *50*(3), 469–479.
455. Henderson, P., Quasim, T., Shaw, M., MacTavish, P., Devine, H., Daniel, M., Nicolson, F., O'Brien, P., Weir, A., Strachan, L., Senior, L., Lucie, P., Bollan, L., Duffty, J., Hogg, L., Ross, C., Sim, M., Sundaram, R., Iwashyna, T. J., & McPeake, J. (2022). [Evaluation of a health and social care programme to improve outcomes following critical illness: a multicentre study](https://doi.org/10.1136/thoraxjnl-2021-218428). *Thorax*, thoraxjnl-2021-218428.
456. Doherty, Z., Kippen, R., Bevan, D., Duke, G., Williams, S., Wilson, A., & Pilcher, D. (2022). [Long-term outcomes of hospital survivors following an ICU stay: A multi-centre retrospective cohort study](https://doi.org/10.1371/journal.pone.0266038). *PloS one*, *17*(3), e0266038.
457. Eaton, T. L., Scheunemann, L. P., Butcher, B. W., Donovan, H. S., Alexander, S., & Iwashyna, T. J. (2022). [The Prevalence of Spiritual and Social Support Needs and Their Association With Postintensive Care Syndrome Symptoms Among Critical Illness Survivors Seen in a Post-ICU Follow-Up Clinic](https://doi.org/10.1097/CCE.0000000000000676). *Critical care explorations*, *4*(4), e0676.
458. Santin L, Fonseca J, Hirata RP, Hernandes NA, Pitta F. [Minimal important difference of two methods for assessment of quadriceps femoris strength post exercise program in individuals with COPD.](https://pubmed.ncbi.nlm.nih.gov/35390575/) Heart Lung. 2022 Jul-Aug;54:56-60
459. Wong HZ, Brusseleers M, Hall KA, Maiden MJ, Chapple LS, Chapman MJ, Hodgson CL, Gluck S. [Mixed-mode versus paper surveys for patient-reported outcomes after critical illness: A randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/34176735/) Aust Crit Care. 2022 May;35(3):286-293
460. Murphy E, Shiely F, Treweek S. [How much is the lack of retention evidence costing trial teams in Ireland and the UK?](https://pubmed.ncbi.nlm.nih.gov/35550607/) Trials. 2022 May 12;23(1):396
461. Huttner A, von Dach E, Prendki V, Harbarth S, Kaiser L. [Patient and Proxy Recall After Providing Written or Oral Informed Consent to Participate in an Interventional Trial.](https://pubmed.ncbi.nlm.nih.gov/35560052/) JAMA Netw Open. 2022 May 2;5(5):e2214052
462. Jafarzadeh SR, Thomas BS, Warren DK, Gill J, Fraser VJ. [Longitudinal Study of the Effects of Bacteremia and Sepsis on 5-year Risk of Cardiovascular Events.](https://pubmed.ncbi.nlm.nih.gov/27193746/) Clin Infect Dis. 2016 Aug 15;63(4):495-500
463. Soussi S, Sharma D, Jüni P, Lebovic G, Brochard L, Marshall JC, Lawler PR, Herridge M, Ferguson N, Del Sorbo L, Feliot E, Mebazaa A, Acton E, Kennedy JN, Xu W, Gayat E, Dos Santos CC; FROG-ICU; CCCTBG trans-trial group study for InFACT - the International Forum for Acute Care Trialists. [Identifying clinical subtypes in sepsis-survivors with different one-year outcomes: a secondary latent class analysis of the FROG-ICU cohort.](https://pubmed.ncbi.nlm.nih.gov/35449071/) Crit Care. 2022 Apr 21;26(1):114
464. Zaga CJ, Berney S, Hepworth G, Cameron TS, Baker S, Giddings C, Howard ME, Bellomo R, Vogel AP. [Tracheostomy clinical practices and patient outcomes in three tertiary metropolitan hospitals in Australia.](https://pubmed.ncbi.nlm.nih.gov/35490111/) Aust Crit Care. 2022 Apr 27:S1036-7314(22)00034-0
465. Morel J, Infantino P, Gergelé L, Lapole T, Souron R, Millet GY. [Prevalence of self-reported fatigue in intensive care unit survivors 6 months-5 years after discharge.](https://pubmed.ncbi.nlm.nih.gov/35379874/) Sci Rep. 2022 Apr 4;12(1):5631
466. Kowalkowski MA, Rios A, McSweeney J, Murphy S, McWilliams A, Chou SH, Hetherington T, Rossman W, Taylor SP. [Effect of a Transitional Care Intervention on Rehospitalization and Mortality after Sepsis: A 12-Month Follow-up of a Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/35608544/) Am J Respir Crit Care Med. 2022
467. Flaws DF, Barnett A, Fraser J, Latu J, Ramanan M, Tabah A, Tippett V, Tronstad O, Patterson S. [A protocol for tracking outcomes post intensive care.](https://pubmed.ncbi.nlm.nih.gov/33609311/) Nurs Crit Care. 2022 May;27(3):341-347
468. Turnbull AE, Groat D, Dinglas VD, Akhlaghi N, Bose S, Banner-Goodspeed V, Mir-Kasimov M, Sevin CM, Jackson JC, Beesley S, Hopkins RO, Needham DM, Brown SM; APICS-01 Study Team.; [Perceived Social Support among Acute Respiratory Failure Survivors in a Multicenter Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/35588052/) Ann Am Thorac Soc. 2022 May 19
469. McPeake J, Henderson P, MacTavish P, Devine H, Daniel M, Lucie P, Bollan L, Hogg L, MacMahon M, Mulhern S, Murray P, O'Neill L, Strachan L, Iwashyna TJ, Shaw M, Quasim T. [A multicentre evaluation exploring the impact of an integrated health and social care intervention for the caregivers of ICU survivors.](https://pubmed.ncbi.nlm.nih.gov/35610616/) Crit Care. 2022 May 24;26(1):152
470. Hodgson CL, Higgins AM, Bailey M, Barrett J, Bellomo R, Cooper DJ, Gabbe BJ, Iwashyna T, Linke N, Myles PS, Paton M, Philpot S, Shulman M, Young M, Serpa Neto A; PREDICT Study Investigators. [Comparison of 6-month outcomes of sepsis versus non-sepsis critically ill patients receiving mechanical ventilation.](https://pubmed.ncbi.nlm.nih.gov/35698201/) Crit Care. 2022 Jun 13;26(1):174
471. van Gelder TG, Lalmohamed A, van Diem-Zaal IJ, Egberts TCG, Slooter AJC. [Systemic glucocorticoid use during ICU admission and symptoms of posttraumatic stress disorder in intensive care unit survivors.](https://pubmed.ncbi.nlm.nih.gov/35552789/) Intensive Care Med. 2022 Jun;48(6):762-764
472. Bourgeon-Ghittori I, Couette M, Marini S, Ouedraogo R, Alves A, Razazi K, Carras D, Pallud AC, Kentish-Barnes N, Mekontso Dessap A. [Corporeal rehabilitation to manage acute stress in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/35689146/) Ann Intensive Care. 2022 Jun 10;12(1):49
473. Bieber ED, Philbrick KL, Shapiro JB, Karnatovskaia LV. [Psychiatry's role in the prevention of post-intensive care mental health impairment: stakeholder survey.](https://pubmed.ncbi.nlm.nih.gov/35303814/) BMC Psychiatry. 2022 Mar 18;22(1):198
474. Fernando SM, Ranzani OT, Herridge MS. [Mental health morbidity, self-harm, and suicide in ICU survivors and caregivers.](https://pubmed.ncbi.nlm.nih.gov/35670820/) Intensive Care Med. 2022 Jun 7:1-4
475. O'Neill B, Linden M, Ramsay P, Darweish Medniuk A, Outtrim J, King J, Blackwood B. [Development of the support needs after ICU (SNAC) questionnaire.](https://pubmed.ncbi.nlm.nih.gov/34387920/) Nurs Crit Care. 2022 May;27(3):410-418
476. Hill AD, Scales DC, Fowler RA, Fu L, Hua M, Wunsch H. [Location and outcomes of rehospitalizations after critical illness in a single-payer healthcare system.](https://pubmed.ncbi.nlm.nih.gov/35778320/) J Crit Care. 2022 Jun 28:154089
477. Mostafa AM, Tuttle CJ, Mckie MA, Fowles J-A, Parmar J, Vuylsteke A. Predictors of health-related quality of life in patients undergoing extracorporeal membrane oxygenation for acute severe respiratory failure. *Journal of the Intensive Care Society*. June 2022. doi:[10.1177/17511437221111639](https://doi.org/10.1177/17511437221111639)
478. Paton M, Lane R, Paul E, Linke N, Shehabi Y, Hodgson CL. [Correlation of patient-reported outcome measures to performance-based function in critical care survivors: PREDICTABLE.](https://pubmed.ncbi.nlm.nih.gov/35810078/) Aust Crit Care. 2022 Jul 6:S1036 7314(22)00070-4
479. Muscedere, J., Bagshaw, S.M., Boyd, G. *et al.* [The frailty, outcomes, recovery and care steps of critically ill patients (FORECAST) study: pilot study results](https://icm-experimental.springeropen.com/articles/10.1186/s40635-022-00446-7). *ICMx* **10,** 23 (2022).
480. Kim SJ, Park K, Kim K. [Post-intensive care syndrome and health-related quality of life in long-term survivors of intensive care unit](https://pubmed.ncbi.nlm.nih.gov/35843808/). Aust Crit Care. 2022 Jul 14:S1036-7314(22)00088-1
481. Vlake JH, Wils EJ, van Bommel J, Gommers D, van Genderen ME; HORIZON-ICU study group. [Familiarity with the post-intensive care syndrome among general practitioners and opportunities to improve their involvement in ICU follow-up care.](https://pubmed.ncbi.nlm.nih.gov/35776162/) Intensive Care Med. 2022 Aug;48(8):1090-1092
482. Butcher BW, Eaton TL, Montgomery-Yates AA, Sevin CM. [Meeting the Challenges of Establishing Intensive Care Unit Follow-up Clinics.](https://pubmed.ncbi.nlm.nih.gov/35773186/) Am J Crit Care. 2022 Jul 1;31(4):324-328.
483. Davies TW, van Gassel RJJ, van de Poll M, Gunst J, Casaer MP, Christopher KB, Preiser JC, Hill A, Gundogan K, Reintam-Blaser A, Rousseau AF, Hodgson C, Needham DM, Castro M, Schaller S, McClelland T, Pilkington JJ, Sevin CM, Wischmeyer PE, Lee ZY, Govil D, Li A, Chapple L, Denehy L, Montejo-González JC, Taylor B, Bear DE, Pearse R, McNelly A, Prowle J, Puthucheary ZA. [Core outcome measures for clinical effectiveness trials of nutritional and metabolic interventions in critical illness: an international modified Delphi consensus study evaluation (CONCISE).](https://pubmed.ncbi.nlm.nih.gov/35933433/) Crit Care. 2022 Aug 6;26(1):240
484. Tripathy S, Acharya SP, Sahoo AK, Hansda U, Mitra JK, Goel K, Ahmad SR, Kar N. [Timing of Exposure to ICU Diaries and Its Impact on Mental Health, Memories, and Quality of Life: A Double-Blind Randomized Control Trial.](https://pubmed.ncbi.nlm.nih.gov/35928538/) Crit Care Explor. 2022 Jul 29;4(8):e0742
485. Hofhuis JGM, Schermer T, Spronk PE. [Mental health-related quality of life is related to delirium in intensive care patients.](https://pubmed.ncbi.nlm.nih.gov/35984472/) Intensive Care Med. 2022 Sep;48(9):1197-1205
486. Thackeray M, Kotowicz MA, Pasco JA, Mohebbi M, Orford N. [Changes in body composition in the year following critical illness: A case-control study.](https://pubmed.ncbi.nlm.nih.gov/35472602/) J Crit Care. 2022 Oct;71:154043
487. Moss SJ, Rosgen BK, Lucini F, Krewulak KD, Soo A, Doig CJ, Patten SB, Stelfox HT, Fiest KM. [Psychiatric Outcomes in ICU Patients With Family Visitation: A Population-Based Retrospective Cohort Study](https://pubmed.ncbi.nlm.nih.gov/35271840/). Chest. 2022 Sep;162(3):578-587.
488. **Cuzco C**, Castro P, Marín Pérez R, Ruiz García S, Núñez Delgado AI, Romero García M, Martínez Momblan MA, Benito Aracil L, Carmona Delgado I, Canalias Reverter M, Nicolás JM, Martínez Estalella G, Delgado-Hito P. [Impact of a Nurse-Driven Patient Empowerment Intervention on the Reduction in Patients' Anxiety and Depression During ICU Discharge: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/36178294/) Crit Care Med. 2022 Sep 30
489. Boyle AJ, McDowell C, Agus A, Logan D, Stewart JD, Jackson C, Mills J, McNamee JJ, McAuley DF. [Acute hypoxaemic respiratory failure after treatment with lower tidal volume ventilation facilitated by extracorporeal carbon dioxide removal: long-term outcomes from the REST randomised trial.](https://pubmed.ncbi.nlm.nih.gov/36198573/) Thorax. 2022 Oct 5:thoraxjnl-2022-218874
490. Mart MF, Thompson JL, Ely EW, Pandharipande PP, Patel MB, Wilson JE, Williams Roberson S, Birdrow CI, Raman R, Brummel NE. [In-Hospital Depressed Level of Consciousness and Long-Term Functional Outcomes in ICU Survivors.](https://pubmed.ncbi.nlm.nih.gov/36005816/) Crit Care Med. 2022 Nov 1;50(11):1618-1627
491. Martin GL, Atramont A, Mazars M, Tajahmady A, Agamaliyev E, Singer M, Leone M, Legrand M. [DAYS SPENT AT HOME AND MORTALITY AFTER CRITICAL ILLNESS: A CLUSTER ANALYSIS USING NATIONWIDE DATA.](https://pubmed.ncbi.nlm.nih.gov/36257472/) Chest. 2022 Oct 15:S0012-3692(22)03997-6
492. Hodgson CL, Higgins AM, Bailey MJ, Anderson S, Bernard S, Fulcher BJ, Koe D, Linke NJ, Board JV, Brodie D, Buhr H, Burrell AJC, Cooper DJ, Fan E, Fraser JF, Gattas DJ, Hopper IK, Huckson S, Litton E, McGuinness SP, Nair P, Orford N, Parke RL, Pellegrino VA, Pilcher DV, Sheldrake J, Reddi BAJ, Stub D, Trapani TV, Udy AA, Serpa Neto A; EXCEL Study Investigators on behalf of the International ECMO Network and the Australian and New Zealand Intensive Care Society Clinical Trials Group. [Incidence of death or disability at 6 months after extracorporeal membrane oxygenation in Australia: a prospective, multicentre, registry-embedded cohort study.](https://pubmed.ncbi.nlm.nih.gov/36174613/) Lancet Respir Med. 2022 Sep 26:S2213-2600(22)00248-X
493. Ferrante LE, Murphy TE, Leo-Summers LS, O'Leary JR, Vander Wyk B, Pisani MA, Gill TM. [Development and validation of a prediction model for persistent functional impairment among older ICU survivors.](https://pubmed.ncbi.nlm.nih.gov/36196998/) J Am Geriatr Soc. 2022 Oct 5
494. Boehm LM, Danesh V, Eaton TL, McPeake J, Pena MA, Bonnet KR, Stollings JL, Jones AC, Schlundt DG, Sevin CM. [Multidisciplinary ICU recovery clinic visits: A qualitative analysis of patient-provider dialogues.](https://pubmed.ncbi.nlm.nih.gov/36243061/) Chest. 2022 Oct 12:S0012-3692(22)03910-1
495. Boehm LM, Danesh V, Eaton TL, McPeake J, Pena MA, Bonnet KR, Stollings JL, Jones AC, Schlundt DG, Sevin CM. [Multidisciplinary ICU recovery clinic visits: A qualitative analysis of patient-provider dialogues.](https://pubmed.ncbi.nlm.nih.gov/36243061/) Chest. 2022 Oct 12:S0012-3692(22)03910-1
496. Haines KJ, Leggett N, Hibbert E, Hall T, Boehm LM, Bakhru RN, Bastin AJ, Butcher BW, Eaton TL, Harris W, Hope AA, Jackson J, Johnson A, Kloos JA, Korzick KA, Mactavish P, Meyer J, Montgomery-Yates A, Quasim T, Slack A, Wade D, Still M, Netzer G, Hopkins RO, Mikkelsen ME, Iwashyna TJ, McPeake J, Sevin CM; Society of Critical Care Medicine’s Thrive Initiative. [Patient and Caregiver-Derived Health Service Improvements for Better Critical Care Recovery.](https://pubmed.ncbi.nlm.nih.gov/36205494/) Crit Care Med. 2022 Oct 7
497. Blecha S, Zeman F, Rohr M, Dodoo-Schittko F, Brandstetter S, Karagiannidis C, Apfelbacher C, Bein T; DACAPO study group. [Association of analgosedation with psychiatric symptoms and health-related quality of life in ARDS survivors: Post hoc analyses of the DACAPO study.](https://pubmed.ncbi.nlm.nih.gov/36269731/) PLoS One. 2022 Oct 21;17(10):e0275743
498. Fernando SM, Pugliese M, McIsaac DI, Qureshi D, Talarico R, Sood MM, Myran DT, Herridge MS, Needham DM, Munshi L, Rochwerg B, Fiest KM, Milani C, Kisilewicz M, Bienvenu OJ, Brodie D, Fan E, Fowler RA, Ferguson ND, Scales DC, Wunsch H, Tanuseputro P, Kyeremanteng K. [Outpatient Mental Health Follow-up and Recurrent Self-harm and Suicide Among Patients Admitted to the ICU for Self-harm: A Population-based Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/36445799/) Chest. 2022 Oct 29:S0012-3692(22)04034-X
499. Eklind S, Olby K, Åkerman E. [The Intensive Care Unit diary - A significant complement in the recovery after intensive care. A focus group study.](https://pubmed.ncbi.nlm.nih.gov/36333188/) Intensive Crit Care Nurs. 2022 Nov 1:103337.
500. Giri AR, Kaur N, Yarrarapu SNS, Rottman Pietrzak KA, Santos C, Lowman PE, Niaz S, Franco PM, Sanghavi DK. ["Novel Management of Depression Using Ketamine in the Intensive Care Unit".](https://pubmed.ncbi.nlm.nih.gov/35313768/) J Intensive Care Med. 2022 Dec;37(12):1654-1661
501. Pandolfi F, Brun-Buisson C, Guillemot D, Watier L. [One-year hospital readmission for recurrent sepsis: associated risk factors and impact on 1-year mortality-a French nationwide study.](https://pubmed.ncbi.nlm.nih.gov/36447252/) Crit Care. 2022 Nov 29;26(1):371
502. Vos L, Ngan E, Novelo LL, Williams MW, Hammond FM, Walker WC, Clark AN, Lopez APO, Juengst SB, Sherer M. [Predictors of Missed Follow-up Visits in the National Traumatic Brain Injury Model Systems Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/35709982/) Arch Phys Med Rehabil. 2022 Dec;103(12):2325-2337
503. Beumeler et al. [The prevalence of mental frailty in ICU survivors and informal caregiver strain: A 1-year retrospective study of the Frisian aftercare cohort](https://journals.sagepub.com/doi/full/10.1177/17511437221139547). JICS 2022
504. Oude Lansink-Hartgring A, Miranda DDR, Mandigers L, Delnoij T, Lorusso R, Maas JJ, Elzo Kraemer CV, Vlaar APJ, Raasveld SJ, Donker DW, Scholten E, Balzereit A, van den Brule J, Kuijpers M, Vermeulen KM, van den Bergh WM; Dutch ECLS Study group. [Health-related quality of life, one-year costs and economic evaluation in extracorporeal membrane oxygenation in critically ill adults.](https://pubmed.ncbi.nlm.nih.gov/36402123/) J Crit Care. 2023 Feb;73:154215
505. Saldanha IJ, Dodd S, Fish R, et al [Comparison of published core outcome sets with outcomes recommended in regulatory guidance from the US Food and Drug Administration and European Medicines Agency: cross sectional analysis](https://bmjmedicine.bmj.com/content/1/1/e000233). BMJ Medicine 2022;1:e000233. doi: 10.1136/bmjmed-2022-000233
506. Cox CE, Kelleher SA, Parish A, Olsen MK, Bermejo S, Dempsey K, Jaggers J, Hough CL, Moss M, Porter LS. [Feasibility of Mobile App-based Coping Skills Training for Cardiorespiratory Failure Survivors: The Blueprint Pilot Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/36603136/) Ann Am Thorac Soc. 2023 Jan 5
507. Paul N, Cittadino J, Weiss B, Krampe H, Denke C, Spies CD. [Subjective Ratings of Mental and Physical Health Correlate With EQ-5D-5L Index Values in Survivors of Critical Illness: A Construct Validity Study.](https://pubmed.ncbi.nlm.nih.gov/36606801/) Crit Care Med. 2023 Jan 6
508. Seth B, Kalva T, Eakin MN, Bose S, Mir-Kasimov M, Sevin CM, Jackson JC, Brown SM, Needham DM, Dinglas VD; Addressing Post-Intensive Care Syndrome (APICS-01) research group\*. [Acute Respiratory Failure Survivors' Feedback on a Phone-Based Follow-Up Using a Core Outcome Set.](https://pubmed.ncbi.nlm.nih.gov/36724376/) Ann Am Thorac Soc. 2023 Feb 1
509. Turnbull AE, Lee EM, Dinglas VD, Beesley S, Bose S, Banner-Goodspeed V, Hopkins RO, Jackson JC, Mir-Kasimov M, Sevin CM, Brown SM, Needham DM; APICS-01 Study Team. [Health Expectations and Quality of Life After Acute Respiratory Failure: A Multicenter Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/36682611/) Chest. 2023 Jan 19:S0012-3692(23)00120-4
510. Zaga CJ, Freeman-Sanderson A, Happ MB, Hoit JD, McGrath BA, Pandian V, Quraishi-Akhtar T, Rose L, Sutt AL, Tuinman PR, Wallace S, Bellomo R, Berney S, Vogel AP. [Defining effective communication for critically ill patients with an artificial airway: An international multi-professional consensus.](https://pubmed.ncbi.nlm.nih.gov/36706499/) Intensive Crit Care Nurs. 2023 Jan 26;76:103393
511. Bose S, Groat D, Dinglas VD, Akhlaghi N, Banner-Goodspeed V, Beesley SJ, Greene T, Hopkins RO, Mir-Kasimov M, Sevin CM, Turnbull AE, Jackson JC, Needham DM, Brown SM; Addressing Post-Intensive Care Syndrome (APICS-01) Study Team. [Association Between Unmet Nonmedication Needs After Hospital Discharge and Readmission or Death Among Acute Respiratory Failure Survivors: A Multicenter Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/36661449/) Crit Care Med. 2023 Feb 1;51(2):212-221
512. Williams Roberson S, Nwosu S, Collar EM, Kiehl A, Harrison FE, Bastarache J, Wilson JE, Mart MF, Sevransky JE, Ely EW, Lindsell CJ, Jackson JC; VICTAS Investigators. [Association of Vitamin C, Thiamine, and Hydrocortisone Infusion With Long-term Cognitive, Psychological, and Functional Outcomes in Sepsis Survivors: A Secondary Analysis of the Vitamin C, Thiamine, and Steroids in Sepsis Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/36853612/) JAMA Netw Open. 2023 Feb 1;6(2):e230380
513. Boehm LM, Danesh V, Eaton TL, McPeake J, Pena MA, Bonnet KR, Stollings JL, Jones AC, Schlundt DG, Sevin CM. [Multidisciplinary ICU Recovery Clinic Visits: A Qualitative Analysis of Patient-Provider Dialogues.](https://pubmed.ncbi.nlm.nih.gov/36243061/) Chest. 2023 Apr;163(4):843-854
514. Unoki T, Kitayama M, Sakuramoto H, Ouchi A, Kuribara T, Yamaguchi T, Uemura S, Fukuda Y, Haruna J, Tsujimoto T, Hino M, Shiba Y, Nagao T, Shirasaka M, Satoi Y, Toyoshima M, Masuda Y; SMAP-HoPe Study Project. [Employment status and its associated factors for patients 12 months after intensive care: Secondary analysis of the SMAP-HoPe study.](https://pubmed.ncbi.nlm.nih.gov/35302991/) PLoS One. 2022 Mar 18;17(3):e0263441
515. Taran S, Coiffard B, Huszti E, Li Q, Chu L, Thomas C, Burns S, Robles P, Herridge MS, Goligher EC. [Association of Days Alive and at Home at Day 90 After Intensive Care Unit Admission With Long-term Survival and Functional Status Among Mechanically Ventilated Patients.](https://pubmed.ncbi.nlm.nih.gov/36929399/) JAMA Netw Open. 2023 Mar 1;6(3):e233265
516. Porter LL, Simons KS, Ramjith J, Corsten S, Westerhof B, Rettig TCD, Ewalds E, Janssen I, van der Hoeven JG, van den Boogaard M, Zegers M. [Development and External Validation of a Prediction Model for Quality of Life of ICU Survivors: A Subanalysis of the MONITOR-IC Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/36825895/) Crit Care Med. 2023 Feb 24:e005800
517. Saul H, Cassidy S, Deeney B, Kwint J, Bisson J. [Online cognitive behavioural therapy for post-traumatic stress disorder is as effective as face-to-face therapy.](https://pubmed.ncbi.nlm.nih.gov/36764696/) BMJ. 2023 Feb 10;380:266.
518. **Colucciello NA**, Kowalkowski MA, Kooken M, Wardi G, Taylor SP. [Passing the SNF Test: A Secondary Analysis of a Sepsis Transition Intervention Trial Among Patients Discharged to Post-Acute Care.](https://pubmed.ncbi.nlm.nih.gov/36918147/) J Am Med Dir Assoc. 2023 May;24(5):742-746.e1
519. Potter KM, Danesh V, Butcher BW, Eaton TL, McDonald AD, Girard TD. [Return to Driving After Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/36976554/) JAMA Intern Med. 2023 May 1;183(5):493-495
520. Liou A, Schweickert WD, Files DC, Bakhru RN. [A Survey to Assess Primary Care Physician Awareness of Complications Following Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/36972501/) J Intensive Care Med. 2023 Mar 27:8850666231164303
521. Aronson KI, Martin-Schwarze AM, Swigris JJ, Kolenic G, Krishnan JK, Podolanczuk AJ, Kaner RJ, Martinez FJ, Safford MM, Pinheiro LC; Pulmonary Fibrosis Foundation. [Validity and Reliability of the Fatigue Severity Scale in a Real-World Interstitial Lung Disease Cohort.](https://pubmed.ncbi.nlm.nih.gov/37099412/) Am J Respir Crit Care Med. 2023 Apr 26
522. Ull C, Weckwerth C, Hamsen U, Jansen O, Spieckermann A, Schildhauer TA, Gaschler R, Waydhas C. [Development of the Tracheostomy Well-Being Score in critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/36227356/) Eur J Trauma Emerg Surg. 2023 Apr;49(2):981-990
523. Avgeri K, Zakynthinos E, Tsolaki V, Sgantzos M, Fotakopoulos G, Makris D. [Quality of Life and Family Support in Critically Ill Patients following ICU Discharge.](https://pubmed.ncbi.nlm.nih.gov/37107940/) Healthcare (Basel). 2023 Apr 12;11(8):1106
524. Lau SCL, Connor LT, Skidmore ER, King AA, Lee JM, Baum CM. [The Moderating Role of Motivation in the Real-Time Associations of Fatigue, Cognitive Complaints, and Pain With Depressed Mood Among Stroke Survivors: An Ecological Momentary Assessment Study.](https://pubmed.ncbi.nlm.nih.gov/36535421/) Arch Phys Med Rehabil. 2023 May;104(5):761-768
525. Stollings JL, Poyant JO, Groth CM, Rappaport SH, Kruer RM, Miller E, Whitten JA, Mcintire AM, McDaniel CM, Betthauser KD, Mohammad RA, Kenes MT, Korona RB, Barber AE, MacTavish P, Dixit D, Yeung SYA. [An International, Multicenter Evaluation of Comprehensive Medication Management by Pharmacists in ICU Recovery Centers.](https://pubmed.ncbi.nlm.nih.gov/37198935/) J Intensive Care Med. 2023 May 17:8850666231176194
526. Yu Y, Li Y, Han D, Gong C, Wang L, Li B, Yao R, Zhu Y. [Effect of Dexmedetomidine on Posttraumatic Stress Disorder in Patients Undergoing Emergency Trauma Surgery: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/37326991/) JAMA Netw Open. 2023 Jun 1;6(6):e2318611
527. Auriemma CL, Butt MI, Silvestri JA, Halpern SD, Courtright KR. [Stakeholder Perspectives on Minimum Clinically Important Difference and Noninferiority Margin for Hospital-Free Days to Assess Interventions.](https://pubmed.ncbi.nlm.nih.gov/37252716/) JAMA Intern Med. 2023 Jul 1;183(7):739-742
528. Bourdiol A, Legros V, Vardon-Bounes F, et al. Société Française d’Anesthésie-Réanimation–SFAR Research Network. [Prevalence and risk factors of significant persistent pain symptoms after critical care illness: a prospective multicentric study.](https://pubmed.ncbi.nlm.nih.gov/37226261/) Crit Care. 2023 May 25;27(1):199
529. Sharpe AL, Reibman J, Oppenheimer BW, Goldring RM, Liu M, Shao Y, Bohart I, Kwok B, Weinstein T, Addrizzo-Harris D, Sterman DH, Berger KI. [Role of small airway dysfunction in unexplained exertional dyspnoea.](https://pubmed.ncbi.nlm.nih.gov/37284422/) ERJ Open Res. 2023 Jun 5;9(3):00603-2022
530. Mortensen CB, Collet MO, Samuelson K. [Struggling to return to everyday life-The experiences of quality of life 1 year after delirium in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/37317066/) Nurs Crit Care. 2023 Jun 14. doi: 10.1111/nicc.12939
531. He S, Meng Y, Liu F, Wang X, Qiu H, Zuo Z. [Nurses' knowledge, attitude, and practice regarding the use of physical restraints in children in the intensive care setting in China: A cross-sectional multicentre study.](https://pubmed.ncbi.nlm.nih.gov/35610090/) Aust Crit Care. 2023 Jul;36(4):515-520
532. Austenå M, Rustøen T, Småstuen MC, Valsø Å, Sunde K, Tøien K. [Return to work during first year after intensive care treatment and the impact of demographic, clinical and psychosocial factors.](https://pubmed.ncbi.nlm.nih.gov/36640528/) Intensive Crit Care Nurs. 2023 Jun;76:103384
533. Boyle AJ, McDowell C, Agus A, Logan D, Stewart JD, Jackson C, Mills J, McNamee JJ, McAuley DF. [Acute hypoxaemic respiratory failure after treatment with lower tidal volume ventilation facilitated by extracorporeal carbon dioxide removal: long-term outcomes from the REST randomised trial.](https://pubmed.ncbi.nlm.nih.gov/36198573/) Thorax. 2023 Aug;78(8):767-774
534. Kjær MN, Meyhoff TS, Sivapalan P, et al. [Long-term effects of restriction of intravenous fluid in adult ICU patients with septic shock.](https://pubmed.ncbi.nlm.nih.gov/37330928/) Intensive Care Med. 2023 Jul;49(7):820-830.
535. Docherty C, McPeake J, Quasim T, MacTavish P, Devine H, O'Brien P, Strachan L, Lucie P, Hogg L, Sim M, Shaw M. [The relationship between pain, anxiety and depression in patients with post-intensive care syndrome.](https://pubmed.ncbi.nlm.nih.gov/37356416/) J Crit Care. 2023 Jun 23;78:154359
536. Apps C, Brooks K, Terblanche E, Hart N, Meyer J, Rose L. [Development of a menu of recovery goals to facilitate goal setting after critical illness.](https://pubmed.ncbi.nlm.nih.gov/37451085/) Intensive Crit Care Nurs. 2023 Jul 11;79:103482
537. Flaws D, Allen C, Baker S, Barnett A, Metcalf O, Pollock H, Ramanan M, Tabah A, Varker T. [A protocol for a pilot randomised controlled trial of an Early Psychiatric Assessment, Referral, and Intervention Study (EPARIS) for intensive care patients.](https://pubmed.ncbi.nlm.nih.gov/37384627/) PLoS One. 2023 Jun 29;18(6):e0287470
538. Friberg K, Hofsø K, Ræder J, Rustøen T, Småstuen MC, Olsen BF. [Prevalence of and predictive factors associated with high levels of post-traumatic stress symptoms 3 months after intensive care unit admission: A prospective study.](https://pubmed.ncbi.nlm.nih.gov/37455211/) Aust Crit Care. 2023 Jul 14:S1036-7314(23)00088-7
539. Atherton J, Abdrabbo M, Kassab H. [Impact of Abrupt Interruption of Home Psychotropic Medications at ICU Admission](https://journals.sagepub.com/doi/full/10.1177/87551225231182286). Journal of Pharmacy Technology. 2023;39(4):199-204
540. Jaworska N, Soo A, Stelfox HT, Burry LD, Fiest KM. [Impacts of antipsychotic medication prescribing practices in critically ill adult patients on health resource utilization and new psychoactive medication prescriptions.](https://pubmed.ncbi.nlm.nih.gov/37384760/) PLoS One. 2023 Jun 29;18(6):e0287929
541. Sterling LH, Fernando SM, Talarico R, Qureshi D, van Diepen S, Herridge MS, Price S, Brodie D, Fan E, Di Santo P, Jung RG, Parlow S, Basir MB, Scales DC, Combes A, Mathew R, Thiele H, Tanuseputro P, Hibbert B. [Long-Term Outcomes of Cardiogenic Shock Complicating Myocardial Infarction.](https://pubmed.ncbi.nlm.nih.gov/37648357/) J Am Coll Cardiol. 2023 Sep 5;82(10):985-995
542. Leggett N, Emery K, Rollinson TC, Deane A, French C, Manski Nankervis JA, Eastwood G, Miles B, Merolli M, Ali Abdelhamid Y, Haines KJ. [Fragmentation of care between intensive and primary care settings and opportunities for improvement.](https://pubmed.ncbi.nlm.nih.gov/37620046/) Thorax. 2023 Aug 24:thorax-2023-220387
543. Szymczak H, Dodoo-Schittko F, Brandstetter S, Rohr M, Blecha S, Bein T, Apfelbacher C. [Trajectories of quality of life, return to work, psychopathology, and disability in survivors of the acute respiratory distress syndrome (ARDS): A three-year prospective cohort study (DACAPO).](https://pubmed.ncbi.nlm.nih.gov/37385044/) J Crit Care. 2023 Dec;78:154356
544. Angriman F, Ferreyro BL, Harhay MO, Wunsch H, Rosella LC, Scales DC. [Accounting for Competing Events when Evaluating Long-Term Outcomes in Survivors of Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/37769125/) Am J Respir Crit Care Med. 2023 Sep 28
545. Remelli F, Scaramuzzo G, Capuzzo M, Maietti E, Berselli A, Denti M, Zani G, Squadrani E, La Rosa R, Volta CA, Volpato S, Spadaro S. [Frailty trajectories in ICU survivors: A comparison between the clinical frailty scale and the Tilburg frailty Indicator and association with 1 year mortality.](https://pubmed.ncbi.nlm.nih.gov/37531923/) J Crit Care. 2023 Dec;78:154398
546. Daughtrey HR, Lee J, Boothroyd DB, Burnside GM, Shaw RJ, Anand KJS, Sanders LM. [Stress Symptoms Among Children and Their Parents After ICU Hospitalization.](https://pubmed.ncbi.nlm.nih.gov/37743757/) J Intensive Care Med. 2023 Sep 25:8850666231201836
547. Docherty C, McPeake J, Quasim T, MacTavish P, Devine H, O'Brien P, Strachan L, Lucie P, Hogg L, Sim M, Shaw M. [The relationship between pain, anxiety and depression in patients with post-intensive care syndrome.](https://pubmed.ncbi.nlm.nih.gov/37356416/) J Crit Care. 2023 Dec;78:154359
548. Jain S, Han L, Gahbauer EA, Leo-Summers L, Feder SL, Ferrante LE, Gill TM. [Changes in Restricting Symptoms after Critical Illness among Community-Living Older Adults.](https://pubmed.ncbi.nlm.nih.gov/37769149/) Am J Respir Crit Care Med. 2023 Sep 28.
549. Nakanishi N, Liu K, Kawauchi A, Okamura M, Tanaka K, Katayama S, Mitani Y, Ota K, Taito S, Fudeyasu K, Masuka Y, Yoshihiro S, Utsumi S, Nishikimi M, Masuda M, Iida Y, Kawai Y, Hatakeyama J, Hifumi T, Unoki T, Kawakami D, Obata K, Katsukawa H, Sumita H, Morisawa T, Takahashi M, Tsuboi N, Kozu R, Takaki S, Haruna J, Fujinami Y, Nosaka N, Miyamoto K, Nakamura K, Kondo Y, Inoue S, Nishida O. [Instruments to assess post-intensive care syndrome assessment: a scoping review and modified Delphi method study.](https://pubmed.ncbi.nlm.nih.gov/37936249/) Crit Care. 2023 Nov 7;27(1):430
550. Matsuishi Y, Hoshino H, Enomoto Y, Shimojo N, Ikeda M, Kotani M, Kobayashi S, Kido T, Mathis BJ, Nakamura K, Nakano H, Okubo N, Inoue Y. [Verifying the Japanese version of the Healthy Aging Brain Care Monitor self-report tool for evaluating post-intensive care syndrome.](https://pubmed.ncbi.nlm.nih.gov/36934045/) Aust Crit Care. 2023 Nov;36(6):989-996
551. Xiang Q, Bosch RJ, Lok JJ. [The survival-incorporated median vs the median in the survivors or in the always-survivors: What are we measuring? and Why?](https://pubmed.ncbi.nlm.nih.gov/37827518/) Stat Med. 2023 Dec 20;42(29):5479-5490
552. López-Fernández E, Palacios-Cuesta A, Rodríguez-Martínez A, Olmedilla-Jodar M, Fernández-Andrade R, Mediavilla-Fernández R, Sánchez-Díaz JI, Máximo-Bocanegra N. [Implementation feasibility of animal-assisted therapy in a pediatric intensive care unit: effectiveness on reduction of pain, fear, and anxiety.](https://pubmed.ncbi.nlm.nih.gov/37938352/) Eur J Pediatr. 2023 Nov 8. doi: 10.1007/s00431-023-05284-7
553. Saltnes-Lillegård C, Rustøen T, Beitland S, Puntillo K, Hagen M, Lerdal A, Hofsø K. [Self-reported symptoms experienced by intensive care unit patients: a prospective observational multicenter study.](https://pubmed.ncbi.nlm.nih.gov/37812229/) Intensive Care Med. 2023 Nov;49(11):1370-1382
554. Proffitt T, Menzies V, Grap MJ, Orr T, Thacker L 2nd, Ameringer S. [Cognitive Impairment, Physical Impairment, and Psychological Symptoms in Intensive Care Unit Survivors.](https://pubmed.ncbi.nlm.nih.gov/37907379/) Am J Crit Care. 2023 Nov 1;32(6):410-420
555. Richards D. [Transitioning to reality: the diary of an ARDS survivor](https://link.springer.com/article/10.1007/s00134-023-07233-2). Intensive Care Med. 2023 Oct 16
556. Snyder M, Njie BY, Grabenstein I, Viola S, Abbas H, Bhatti W, Lee R, Traficante R, Yeung SYA, Chow JH, Tabatabai A, Taylor BS, Dahi S, Scalea T, Rabin J, Grazioli A, Calfee CS, Britton N, Levine AR. [Functional recovery in a cohort of ECMO and non-ECMO acute respiratory distress syndrome survivors.](https://pubmed.ncbi.nlm.nih.gov/37964311/) Crit Care. 2023 Nov 14;27(1):440
557. Stedman W, Donaldson L, Garside T, Green S, Donoghoe SF, Whitfield VE, Bass F, Delaney A, Hammond N. [The feasibility and acceptability of a physician-led ICU follow-up service: A prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/38065794/) Aust Crit Care. 2023 Dec 7:S1036-7314(23)00183-2
558. Pladet LCA, Luijken K, Donker DW, Cremer OL, Meuwese CL. [Neuropsychiatric sequelae following extracorporeal membrane oxygenation in the intensive care unit.](https://pubmed.ncbi.nlm.nih.gov/37758553/) J Crit Care. 2024 Feb;79:154428
559. Skei NV, Moe K, Nilsen TIL, Aasdahl L, Prescott HC, Damås JK, Gustad LT. [Return to work after hospitalization for sepsis: a nationwide, registry-based cohort study.](https://pubmed.ncbi.nlm.nih.gov/37968648/) Crit Care. 2023 Nov 15;27(1):443
560. Rai S, Brown R, van Haren F, Neeman T, Rajamani A, Sundararajan K, Mitchell I. [Long-term follow-up for Psychological stRess in Intensive CarE (PRICE) survivors: study protocol for a multicentre, prospective observational cohort study in Australian intensive care units.](https://pubmed.ncbi.nlm.nih.gov/30782702/) BMJ Open. 2019 Jan 25;9(1):e023310
561. Mesina RS Jr, Rustøen T, Hagen M, Laake JH, Hofsø K. [Long-term functional disabilities in intensive care unit survivors: A prospective cohort study.](https://pubmed.ncbi.nlm.nih.gov/38171986/) Aust Crit Care. 2024 Jan 2:S1036-7314(23)00197-2
562. van Sleeuwen D, Zegers M, Ramjith J, Cruijsberg JK, Simons KS, van Bommel D, Burgers-Bonthuis D, Koeter J, Bisschops LLA, Janssen I, Rettig TCD, van der Hoeven JG, van de Laar FA, van den Boogaard M. [Prediction of Long-Term Physical, Mental, and Cognitive Problems Following Critical Illness: Development and External Validation of the PROSPECT Prediction Model.](https://pubmed.ncbi.nlm.nih.gov/38099732/) Crit Care Med. 2024 Feb 1;52(2):200-209
563. Paul N, Cittadino J, Krampe H, Denke C, Spies CD, Weiss B. [Determinants of Subjective Mental and Functional Health of Critical Illness Survivors: Comparing Pre-ICU and Post-ICU Status.](https://pubmed.ncbi.nlm.nih.gov/38189649/) Crit Care Med. 2024 Jan 8.
564. Imanaka R, Ouchi A, Sakuramoto H, Aikawa G, Hoshino T, Enomoto Y, Shimojo N, Inoue Y. [Survey of sensory impairment in critically ill patients after intensive care unit discharge: An ambidirectional cohort study.](https://pubmed.ncbi.nlm.nih.gov/38182531/) Aust Crit Care. 2024 Jan;37(1):12-17.
565. Orwelius L, Kristenson M, Fredrikson M, Sjöberg F, Walther S. [Effects of education, income and employment on ICU and post-ICU survival - A nationwide Swedish cohort study of individual-level data with 1-year follow up.](https://pubmed.ncbi.nlm.nih.gov/38086226/) J Crit Care. 2024 Apr;80:154497
566. Khan BA, Perkins AJ, Khan SH, Unverzagt FW, Lasiter S, Gao S, Wang S, Zarzaur BL, Rahman O, Eltarras A, Qureshi H, Boustani MA. [Mobile Critical Care Recovery Program for Survivors of Acute Respiratory Failure: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/38289602/) JAMA Netw Open. 2024 Jan 2;7(1):e2353158
567. van Sleeuwen D, Zegers M, Ramjith J, Cruijsberg JK, Simons KS, van Bommel D, Burgers-Bonthuis D, Koeter J, Bisschops LLA, Janssen I, Rettig TCD, van der Hoeven JG, van de Laar FA, van den Boogaard M. [Prediction of Long-Term Physical, Mental, and Cognitive Problems Following Critical Illness: Development and External Validation of the PROSPECT Prediction Model.](https://pubmed.ncbi.nlm.nih.gov/38099732/) Crit Care Med. 2024 Feb 1;52(2):200-209
568. Dupont T, Kentish-Barnes N, Pochard F, Duchesnay E, Azoulay E. [Prediction of post-traumatic stress disorder in family members of ICU patients: a machine learning approach.](https://pubmed.ncbi.nlm.nih.gov/38112774/) Intensive Care Med. 2024 Jan;50(1):114-124
569. Schmidt KFR, Gensichen JS, Schroevers M, Kaufmann M, Mueller F, Schelling G, Gehrke-Beck S, Boede M, Heintze C, Wensing M, Schwarzkopf D. [Trajectories of post-traumatic stress in sepsis survivors two years after ICU discharge: a secondary analysis of a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38287438/) Crit Care. 2024 Jan 29;28(1):35
570. Luijks ECN, van der Slikke EC, van Zanten ARH, Ter Maaten JC, Postma MJ, Hilderink HBM, Henning RH, Bouma HR. [Societal costs of sepsis in the Netherlands.](https://pubmed.ncbi.nlm.nih.gov/38254226/) Crit Care. 2024 Jan 22;28(1):29
571. Anselmi A, Flécher E, Corbineau H, Langanay T, Le Bouquin V, Bedossa M, Leguerrier A, Verhoye JP, Ruggieri VG. [Survival and quality of life after extracorporeal life support for refractory cardiac arrest: A case series.](https://pubmed.ncbi.nlm.nih.gov/26189164/) J Thorac Cardiovasc Surg. 2015 Oct;150(4):947-54
572. Mart MF, Semler MW, Jenkins CA, Wang G, Casey JD, Ely EW, Jackson JC, Kiehl AL, Bryant PT, Pugh SK, Wang L, DeMasi S, Rice TW, Bernard GR, Freundlich RE, Self WH, Han JH. [Oxygen-Saturation Targets and Cognitive and Functional Outcomes in Mechanically Ventilated Adults.](https://pubmed.ncbi.nlm.nih.gov/38285550/) Am J Respir Crit Care Med. 2024 Jan 29
573. Barr J, Downs B, Ferrell K, Talebian M, Robinson S, Kolodisner L, Kendall H, Holdych J. [Improving Outcomes in Mechanically Ventilated Adult ICU Patients Following Implementation of the ICU Liberation (ABCDEF) Bundle Across a Large Healthcare System.](https://pubmed.ncbi.nlm.nih.gov/38250248/) Crit Care Explor. 2024 Jan 19;6(1):e1001
574. Flowers E, Saha S, Allum L, Rose L. [An environmental scan of online resources for informal family caregivers of ICU survivors.](https://pubmed.ncbi.nlm.nih.gov/38101106/) J Crit Care. 2024 Apr;80:154499
575. Bates A, Golding H, Rushbrook S, Highfield J, Pattison N, Baldwin D, Grocott MPW, Cusack R. [Mixed-methods randomised study exploring the feasibility and acceptability of eye-movement desensitisation and reprocessing for improving the mental health of traumatised survivors of intensive care following hospital discharge: protocol.](https://pubmed.ncbi.nlm.nih.gov/38286705/) BMJ Open. 2024 Jan 29;14(1):e081969
576. Palakshappa JA, Batt JAE, Bodine SC, Connolly BA, Doles J, Falvey JR, Ferrante LE, Files DC, Harhay MO, Harrell K, Hippensteel JA, Iwashyna TJ, Jackson JC, Lane-Fall MB, Monje M, Moss M, Needham DM, Semler MW, Lahiri S, Larsson L, Sevin CM, Sharshar T, Singer B, Stevens T, Taylor SP, Gomez CR, Zhou G, Girard TD, Hough CL. [Tackling Brain and Muscle Dysfunction in Acute Respiratory Distress Syndrome Survivors: National Heart, Lung, and Blood Institute Workshop Report.](https://pubmed.ncbi.nlm.nih.gov/38477657/) Am J Respir Crit Care Med. 2024 Mar 13
577. Haines KJ, Hibbert E, Skinner EH, Leggett N, Holdsworth C, Ali Abdelhamid Y, Bates S, Bicknell E, Booth S, Carmody J, Deane AM, Emery K, Farley KJ, French C, Krol L, MacLeod-Smith B, Maher L, Paykel M, Iwashyna TJ. [In-person peer support for critical care survivors: The ICU REcovery Solutions cO-Led through surVivor Engagement (ICURESOLVE) pilot randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38360469/) Aust Crit Care. 2024 Feb 14:S1036-7314(24)00022-5.
578. Wozniak H, Beckmann TS, Dos Santos Rocha A, Pugin J, Heidegger CP, Cereghetti S. [Long-stay ICU patients with frailty: mortality and recovery outcomes at 6 months.](https://pubmed.ncbi.nlm.nih.gov/38401034/) Ann Intensive Care. 2024 Feb 24;14(1):31
579. Sharshar T, Grimaldi-Bensouda L, Siami S, Cariou A, Salah AB, Kalfon P, Sonneville R, Meunier-Beillard N, Quenot JP, Megarbane B, Gaudry S, Oueslati H, Robin-Lagandre S, Schwebel C, Mazeraud A, Annane D, Nkam L, Friedman D; Suivi-Rea Investigators. [A randomized clinical trial to evaluate the effect of post-intensive care multidisciplinary consultations on mortality and the quality of life at 1 year.](https://pubmed.ncbi.nlm.nih.gov/38587553/) Intensive Care Med. 2024 Apr 8
580. **Rosa RG**, Walsh TS. [Navigating complex interventions in post-ICU care: insights from a randomized clinical trial of post-intensive care multidisciplinary consultations.](https://pubmed.ncbi.nlm.nih.gov/38598126/) Intensive Care Med. 2024 Apr 10
581. Friberg K, Hofsø K, Rustøen T, Ræder J, Hagen M, Puntillo K, Olsen BF. [Patient characteristics associated with posttraumatic stress symptoms in intensive care unit survivors during a one-year follow-up: A multicenter study.](https://pubmed.ncbi.nlm.nih.gov/38492243/) Heart Lung. 2024 Mar 15;66:1-8.
582. Gundersen S, Blikstad-Løkkevik S, Brenna G, Steindal SA, Kvande ME. [Critical care nurses' assessment of writing diaries for adult patients in the intensive care unit - A qualitative study.](https://pubmed.ncbi.nlm.nih.gov/38627115/) Aust Crit Care. 2024 Apr 15:S1036-7314(24)00052-3
583. Henríquez-Beltrán M, Vaca R, Benítez ID, González J, Santisteve S, Aguilà M, Minguez O, Moncusí-Moix A, Gort-Paniello C, Torres G, Labarca G, Caballero J, Barberà C, Torres A, de Gonzalo-Calvo D, Barbé F, Targa ADS. [Sleep and Circadian Health of Critical Survivors: A 12-Month Follow-Up Study.](https://pubmed.ncbi.nlm.nih.gov/38597721/) Crit Care Med. 2024 Apr 10
584. Auriemma CL, Butt MI, Bahti M, Silvestri JA, Solomon E, Harhay MO, Klaiman T, Schapira MM, Barg FK, Halpern SD. [Measuring Quality-weighted Hospital-Free-Days in Acute Respiratory Failure: A Modified Delphi Study.](https://pubmed.ncbi.nlm.nih.gov/38507646/) Ann Am Thorac Soc. 2024 Mar 20
585. Malmgren J, Lundin S, Waldenström AC, Rylander C, Johannesson E. [Quality of life-related and non-quality of life-related issues in ICU survivors and non-ICU-treated controls: a multi-group exploratory factor analysis.](https://pubmed.ncbi.nlm.nih.gov/38553749/) Crit Care. 2024 Mar 29;28(1):102
586. Zegers M, Porter L, Simons K, van den Boogaard M. [What every intensivist should know about Quality of Life after critical illness.](https://pubmed.ncbi.nlm.nih.gov/38565454/) J Crit Care. 2024 Apr 1:154789
587. Brandvold M, Rustøen T, Hagen M, Stubberud J, van den Boogaard M, Hofsø K. [Inter-rater agreement between patient- and proxy-reported cognitive functioning in intensive care unit patients: A cohort study.](https://pubmed.ncbi.nlm.nih.gov/38614955/) Aust Crit Care. 2024 Apr 12:S1036-7314(24)00057-2
588. Pilowsky JK, von Huben A, Elliott R, Roche MA. [Development and validation of a risk score to predict unplanned hospital readmissions in ICU survivors: A data linkage study.](https://pubmed.ncbi.nlm.nih.gov/37339922/) Aust Crit Care. 2024 May;37(3):383-390
589. Kang J, Lee KM. [Three-year mortality, readmission, and medical expenses in critical care survivors: A population-based cohort study.](https://pubmed.ncbi.nlm.nih.gov/37574386/) Aust Crit Care. 2024 Mar;37(2):251-257.
590. Munshi L, Dumas G, Rochwerg B, Shoukat F, Detsky M, Fergusson DA, Ferreyro BL, Heffernan P, Herridge M, Magder S, Minden M, Patel R, Qureshi S, Schimmer A, Thyagu S, Wang HT, Mehta S. [Long-term survival and functional outcomes of critically ill patients with hematologic malignancies: a Canadian multicenter prospective study.](https://pubmed.ncbi.nlm.nih.gov/38466402/) Intensive Care Med. 2024 Apr;50(4):561-572
591. Dal-Pizzol F, Coelho A, Simon CS, Michels M, Corneo E, Jeremias A, Damásio D, Ritter C. [Prophylactic Minocycline for Delirium in Critically Ill Patients: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/38043911/) Chest. 2024 May;165(5):1129-1138
592. Ahlström B, Larsson IM, Strandberg G, Lipcsey M. [Association of sepsis with long-term mortality and causes of death in the Swedish intensive care cohort.](https://pubmed.ncbi.nlm.nih.gov/38436723/) Intensive Care Med. 2024 Apr;50(4):605-607
593. Burry LD, Bell CM, Hill A, Pinto R, Scales DC, Bronskill SE, Rose L, Williamson D, Fowler R, Wunsch H. [Trends in Sedative Prescription Among Older Adults after Critical Illness: A Population-Based Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/38864680/) Am J Respir Crit Care Med. 2024 Jun 12
594. Muscedere J, Bagshaw SM, Kho M, Mehta S, Cook DJ, Boyd JG, Sibley S, Wang HT, Archambault PM, Albert M, Rewa OG, Ball I, Norman PA, Day AG, Hunt M, Loubani O, Mele T, Sarti AJ, Shahin J; Canadian Critical Care Trials Group. [Frailty, Outcomes, Recovery and Care Steps of Critically Ill Patients (FORECAST): a prospective, multi-centre, cohort study.](https://pubmed.ncbi.nlm.nih.gov/38748266/) Intensive Care Med. 2024 May 15
595. Jain S, Gan S, Nguyen OK, Sudore RL, Steinman MA, Covinsky K, Makam AN. [Survival, Function, and Cognition After Hospitalization in Long-Term Acute Care Hospitals.](https://pubmed.ncbi.nlm.nih.gov/38805226/) JAMA Netw Open. 2024 May 1;7(5):e2413309
596. Alrø AB, Svenningsen H, Nedergaard HK, Jensen HI, Dreyer P. [Patients' and relatives' experiences of cognitive impairment following an intensive care unit admission. A qualitative study.](https://pubmed.ncbi.nlm.nih.gov/38839438/) Aust Crit Care. 2024 Jun 5:S1036-7314(24)00091-2
597. Song A, Auriemma CL. [Everything Everywhere All at Once? Identifying Exposures and Outcomes that Matter to Families within and beyond the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/38691007/) Ann Am Thorac Soc. 2024 May;21(5):701-703
598. Leggett N, Emery K, Rollinson TC, Deane AM, French C, Manski-Nankervis JA, Eastwood G, Miles B, Witherspoon S, Stewart J, Merolli M, Ali Abdelhamid Y, Haines KJ. [Clinician- and Patient-Identified Solutions to Reduce the Fragmentation of Post-ICU Care in Australia.](https://pubmed.ncbi.nlm.nih.gov/38382876/) Chest. 2024 Feb 19:S0012-3692(24)00247-2
599. da Silva AA, Granger CL, Abo S, Sheehan J, Barson E, Beach L, Pound G, Ali Abdelhamid Y, Fetterplace K, Fini NA, Merolli M, Sloan E, Parry SM. ["How Do I Test the Waters? How Do I Go Forward?": Codesigning a Supportive Pathway after Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/38330169/) Ann Am Thorac Soc. 2024 Jun;21(6):916-927
600. Cox CE, Gallis JA, Olsen MK, Porter LS, Gremore T, Greeson JM, Morris C, Moss M, Hough CL. [Mobile Mindfulness Intervention for Psychological Distress Among Intensive Care Unit Survivors: A Randomized Clinical Trial.](https://pubmed.ncbi.nlm.nih.gov/38805199/) JAMA Intern Med. 2024 Jul 1;184(7):749-759
601. Docherty C, Quasim T, MacTavish P, Devine H, O'Brien P, Strachan L, Lucie P, Hogg L, Shaw M, McPeake J. [Anxiety and depression following critical illness: A comparison of the recovery trajectories of patients and caregivers.](https://pubmed.ncbi.nlm.nih.gov/38797584/) Aust Crit Care. 2024 May 25:S1036-7314(24)00084-5
602. Schiffer W, Sweitzer NK, Jung C. [Winning hearts and minds: the impact of illness severity and pre-morbid mental health on wellbeing after acute myocardial infarction with cardiogenic shock.](https://pubmed.ncbi.nlm.nih.gov/38771365/) Intensive Care Med. 2024 Jun;50(6):931-933
603. Sharshar T. [Post-intensive care unit care: it is time to abandon hospital-centrism.](https://pubmed.ncbi.nlm.nih.gov/38935273/) Intensive Care Med. 2024 Jun 27
604. Rose L, Apps C, Brooks K, Terblanche E, Larose JC, Law E, Hart N, Meyer J. [Two-year prospective cohort of intensive care survivors enrolled on a digitally enabled recovery pathway focussed on individualised recovery goal attainment.](https://pubmed.ncbi.nlm.nih.gov/38886140/) Aust Crit Care. 2024 Jun 17:S1036-7314(24)00093-6
605. Watson MA, Sandi M, Bixby J, Perry G, Offner PJ, Burnham EL, Jolley SE. [An Exploratory Analysis of Sociodemographic Factors Associated With Physical Functional Impairment in ICU Survivors.](https://pubmed.ncbi.nlm.nih.gov/38836576/) Crit Care Explor. 2024 Jun 5;6(6):e1100
606. Szymczak H, Brandstetter S, Blecha S, Dodoo-Schittko F, Rohr M, Bein T, Apfelbacher C. [Potential risk factors for reduced quality of life and increased health care utilization in ARDS survivors: results from the multicenter cohort study DACAPO.](https://pubmed.ncbi.nlm.nih.gov/38898469/) Crit Care. 2024 Jun 19;28(1):201.
607. Smaisim N, Rijsdijk M, van der Does Y, Slooter AJ. [Pain and psychopathology after intensive care unit admission.](https://pubmed.ncbi.nlm.nih.gov/38879797/) Anaesth Intensive Care. 2024 Jul;52(4):232-240
608. Wang F, Li J, Fan Y, Qi X. [Construction of a risk prediction model for detecting postintensive care syndrome-mental disorders.](https://pubmed.ncbi.nlm.nih.gov/37699863/) Nurs Crit Care. 2024 Jul;29(4):646-660
609. Mathieu A, et al., NUTRIREA-3 Trial Investigators; Clinical Research In Intensive Care and Sepsis (CRICS-TRIGGERSEP) Group. [Resilience after severe critical illness: a prospective, multicentre, observational study (RESIREA).](https://pubmed.ncbi.nlm.nih.gov/38997759/) Crit Care. 2024 Jul 12;28(1):237.
610. Landbeck A, Witt A, Marty Petit E, Aebischer E, Poujol AL, Nguyen S, Simon E, Bernigaud P, Thiery G, Bouhemad B, Laurent A. [What clinical practices for intensive care psychologists in France? A national survey.](https://pubmed.ncbi.nlm.nih.gov/38902834/) Crit Care. 2024 Jun 20;28(1):204
611. Porter LL, Simons KS, Corsten S, Westerhof B, Rettig TCD, Ewalds E, Janssen I, Jacobs C, van Santen S, Slooter AJC, van der Woude MCE, van der Hoeven JG, Zegers M, van den Boogaard M. [Changes in quality of life 1 year after intensive care: a multicenter prospective cohort of ICU survivors.](https://pubmed.ncbi.nlm.nih.gov/39054511/) Crit Care. 2024 Jul 25;28(1):255
612. Guest M, Craven K, Tellson AM, Porter M, James N, Turley L, Smitherman J. [Reigniting Intensive Care Unit Liberation.](https://pubmed.ncbi.nlm.nih.gov/39084672/) Crit Care Nurse. 2024 Aug 1;44(4):19-26
613. Eaton TA, Kowalkowski M, Burns R, Tapp H, O'Hare K, Taylor SP. [Pre-implementation planning for a sepsis intervention in a large learning health system: a qualitative study.](https://pubmed.ncbi.nlm.nih.gov/39192331/) BMC Health Serv Res. 2024 Aug 28;24(1):996
614. Manyara AM, Purvis A, Ciani O, Collins GS, Taylor RS. [Sample size in multistakeholder Delphi surveys: at what minimum sample size do replicability of results stabilize?](https://pubmed.ncbi.nlm.nih.gov/39069013/) J Clin Epidemiol. 2024 Jul 26;174:111485
615. de Souza JMB, Miozzo AP, da Rosa Minho Dos Santos R, Mocellin D, Rech GS, Trott G, Estivalete GPM, Sganzerla D, de Souza D, Rosa RG, Teixeira C. [Long-term effects of flexible visitation in the intensive care unit on family members' mental health: 12-month results from a randomized clinical trial.](https://pubmed.ncbi.nlm.nih.gov/39172240/) Intensive Care Med. 2024 Oct;50(10):1614-1621
616. Chang S, Kim WH, Jung YE, Roh D, Kim D, Chae JH, Park JE. [Clinical Utility of Impact of Event Scale-Revised for Diagnostic and Statistical Manual of Mental Disorders-Fifth Edition Posttraumatic Stress Disorder.](https://pubmed.ncbi.nlm.nih.gov/39086162/) Psychiatry Investig. 2024 Aug;21(8):870-876
617. Tracey E, Wilson J, Im C, Abshire-Saylor M. [A Brief Patient-Recorded Audio File Called TIMS (This Is My Story) Improves Communication and Empathy for Healthcare Teams in the Hospital.](https://pubmed.ncbi.nlm.nih.gov/39161418/) J Patient Exp. 2024 Aug 18;11:23743735241274015
618. Guntern LB, Erne K, Achermann A, Müller M, Jeitziner MM, Zante B. [Strategies for Coping With Complicated Grief in Relatives of Patients Who Are Critically Ill: An Observational Single-Center Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/39222790/) Chest. 2024 Sep 1:S0012-3692(24)05128-6
619. Leggett N, Ali Abdelhamid Y, Bicknell E, Booth S, Carmody J, Deane AM, Farley KJ, Karahalios A, Merolli M, Haines KJ. [Virtual Peer Support for ICU Survivors Is Feasible, and May Improve Outcomes for ICU Survivors: Results from the icuRESOLVE-D (icu Recovery Solutions Co-Designed through SurVivor Engagement - Digital) Pilot Randomised Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/39312183/) Am J Respir Crit Care Med. 2024 Sep 23
620. Haines KJ, Hibbert E, Skinner EH, Leggett N, Holdsworth C, Ali Abdelhamid Y, Bates S, Bicknell E, Booth S, Carmody J, Deane AM, Emery K, Farley KJ, French C, Krol L, MacLeod-Smith B, Maher L, Paykel M, Iwashyna TJ. [In-person peer support for critical care survivors: The ICU REcovery Solutions cO-Led through surVivor Engagement (ICURESOLVE) pilot randomised controlled trial.](https://pubmed.ncbi.nlm.nih.gov/38360469/) Aust Crit Care. 2024 Nov;37(6):859-865
621. Jain S, Han L, Gahbauer EA, Leo-Summers L, Feder SL, Ferrante LE, Gill TM. [Association Between Restricting Symptoms and Disability After Critical Illness Among Older Adults.](https://pubmed.ncbi.nlm.nih.gov/39298623/) Crit Care Med. 2024 Sep 18
622. Brosseau M, Shahin J, Fan E, Amaral A, Wang HT. [Association Between Inability to Stand at ICU Discharge and Readmission: A Historical Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/39298561/) Crit Care Med. 2024 Sep 18
623. Bose S, Groat D, Stollings JL, Barney P, Dinglas VD, Goodspeed VM, Carmichael H, Mir-Kasimov M, Jackson JC, Needham DM, Brown SM, Sevin CM; APICS-01 Study Team. [Prescription of potentially inappropriate medications after an intensive care unit stay for acute respiratory failure.](https://pubmed.ncbi.nlm.nih.gov/38688808/) Aust Crit Care. 2024 Nov;37(6):866-872
624. Docherty C, Shaw M, Chim CY, MacTavish P, Devine H, O'Brien P, Lucie P, Hogg L, Strachan L, Quasim T, McPeake J. [The Association Between Caregiver Strain and Emergency Healthcare Resource Utilisation in Survivors of Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/39368736/) Chest. 2024 Oct 3:S0012-3692(24)05285-1
625. Maurer C, Exl MT, Gander HP, Bertschi D, Fischbacher I, Barbezat I, Eissler C, Jeitziner MM. [Consequences of a stay in the intensive care unit and outpatient follow-up care for chronic critically ill patients: A retrospective data analysis.](https://pubmed.ncbi.nlm.nih.gov/38971649/) Aust Crit Care. 2024 Nov;37(6):931-939
626. Savsani PK, Khan SH, Perkins AJ, Wang S, Jawaid S, Moiz S, Monahan PO, Kroenke K, Gao S, Khan BA. [Performance of the Healthy Aging Brain Care Monitor Self Report in Monitoring Post-Intensive Care Syndrome Among Acute Respiratory Failure Survivors.](https://pubmed.ncbi.nlm.nih.gov/39526840/) Crit Care Med. 2024 Nov 11
627. Porter LL, Simons KS, Turnbull AE, Corsten S, Westerhof B, Rettig TCD, Ewalds E, Janssen I, Jacobs C, van Santen S, Kerckhoffs MC, van der Woude MCE, van der Hoeven JG, Zegers M, van den Boogaard M. [Discrepancy Between Functional Outcomes and Perceived Health post-ICU: A Prospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/39441100/) Ann Am Thorac Soc. 2024 Oct 23
628. Johannesson E, Malmgren J. [Self-confidence as a mediator in the relationship between executive functioning and depression among ICU survivors: a latent variable analysis.](https://pubmed.ncbi.nlm.nih.gov/39462425/) Crit Care. 2024 Oct 26;28(1):345
629. Barrett KA, Sheikh F, Chechulina V, Chung H, Dodek P, Rosella L, Thavorn K, Scales DC; Sepsis Canada. [High-cost users after sepsis: a population-based observational cohort study.](https://pubmed.ncbi.nlm.nih.gov/39434142/) Crit Care. 2024 Oct 21;28(1):338

## Reviews

1. Hopkins RO and Jackson JC. [Long term neurocognitive function after critical illness](http://www.ncbi.nlm.nih.gov/pubmed/16963688). Chest, 2006; 130:896-878 [free full text](http://chestjournal.chestpubs.org/content/130/3/869.long)
2. Dowdy DW, Eid MP, Dennison CR, Mendez-Tellez PA, Herridge MS, Guallar E, Pronovost PJ, Needham DM. [Quality of life after acute respiratory distress syndrome: a meta-analysis.](http://www.ncbi.nlm.nih.gov/pubmed/16783553) Intensive Care Med. 2006 Aug;32(8):1115-24
3. Stevens RD, Dowdy DW, Michaels RK et al. [Neuromuscular dysfunction acquired in critical illness: a systematic review](http://www.ncbi.nlm.nih.gov/pubmed/17639340). Intensive Care Med 2007; 33:1876-1891
4. Jackson JC, Hart RP, Gordon SM et al. [Post-traumatic stress disorder and post-traumatic stress symptoms following critical illness in medical ICU patients: Assessing the magnitude of the problem](http://www.ncbi.nlm.nih.gov/pubmed/17316451). Crit Care 2007; 11:R27, 118 [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2151890/?tool=pubmed)
5. Davydow DS, Desai SV, Needham DM et al. [Psychiatric morbidity in survivors of the acute respiratory distress syndrome: a systematic review](http://www.ncbi.nlm.nih.gov/pubmed/18434495). Psychosom Med 2008; 70:512-519 [free full text](http://www.psychosomaticmedicine.org/content/70/4/512.long)
6. Davydow DS, Gifford JM, Desai SV et al. [Posttraumatic stress disorder in general intensive care unit survivors: a systematic review](http://www.ncbi.nlm.nih.gov/pubmed/18774425). Gen Hosp Psychiatry 2008; 30:421-434. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2572638/?tool=pubmed)
7. Stevens RD, Marshall SA, Cornblath DR, Hoke A, Needham DM, de Jonghe B, Ali NA, Sharshar T. [A framework for diagnosing and classifying intensive care unit-acquired weakness.](http://www.ncbi.nlm.nih.gov/pubmed/20046114) Crit Care Med. 2009 Oct;37(10 Suppl):S299-308.
8. Davydow DS, Gifford JM, Desai SV et al. [Depression in general intensive care unit survivors: a systematic review](http://www.ncbi.nlm.nih.gov/pubmed/19165464). Intensive Care Med 2009; 35:796-809
9. Shanshar T, Bastuji-Garin S, Stevens RD et al. [Presence and severity of intensive care unit-acquired paresis at time of awakening are associated with increased intensive care unit and hospital mortality](http://www.ncbi.nlm.nih.gov/pubmed/19770751). Crit Care Med 2009; 37:3047-3053
10. Bienvenu OJ and Neufeld KJ. [Post-traumatic stress disorder in medical settings: focus on the critically ill](http://www.ncbi.nlm.nih.gov/pubmed/20981585). Curr Psychiatry Rep 2011; Oct 28
11. Kiekkas P, Theodorakopoulou G, Spyratos F and Baltopoulos GI: [Psychological distress and delusional memories after critical care: a literature review.](http://www.ncbi.nlm.nih.gov/pubmed/20796057) Int Nurs Rev 2010; 57:288-96
12. Desai SV, Law TF and Needham DM. [Long-term complications of critical care](http://www.ncbi.nlm.nih.gov/pubmed/20959786). Crit Care Med 2011; 39
13. Denehy L, Elliott D. [Strategies for post ICU rehabilitation.](http://www.ncbi.nlm.nih.gov/pubmed/22914429) Curr Opin Crit Care. 2012 Oct;18(5):503-8.
14. Vanpee G, Hermans G, Segers J, Gosselink R. [Assessment of limb muscle strength in critically ill patients: a systematic review](http://www.n). Crit Care Med. 2014 Mar;42(3):701-11.
15. Karnatovskaia LV, Johnson MM, Benzo RP, Gajic O. [The spectrum of psychocognitive morbidity in the critically ill: A review of the literature and call for improvement.](http://www.ncbi.nlm.nih.gov/pubmed/25449881) J Crit Care. 2015 Feb;30(1):130-137.
16. Koroshetz W. [A core set of trial outcomes for every medical discipline?](http://www.ncbi.nlm.nih.gov/pubmed/25623113) BMJ. 2015 Jan 26;350:h85.
17. Parker AM, Sricharoenchai T, Raparla S, Schneck KW, Bienvenu OJ, Needham DM. [Posttraumatic stress disorder in critical illness survivors: a metaanalysis.](http://www.ncbi.nlm.nih.gov/pubmed/25654178) Crit Care Med. 2015 May;43(5):1121-9.
18. Jutte JE, Erb CT, Jackson JC. [Physical, Cognitive, and Psychological Disability Following Critical Illness: What Is the Risk?](http://www.ncbi.nlm.nih.gov/pubmed/26595053) Semin Respir Crit Care Med. 2015 Dec;36(6):943-58.
19. Elliot et al. Key Measurement and Feasibility Characteristics When Selecting Outcome Measures. [Current Physical Medicine and Rehabilitation Reports](http://link.springer.com/journal/40141) 2015, Volume 3,[Issue 4,](http://link.springer.com/journal/40141/3/4/page/1) 255-267
20. Haines et al. How Can Clinicians Use Outcome Measures in Routine Care? Knowledge Translation Strategies. 2015, Volume 3,[Issue 4,](http://link.springer.com/journal/40141/3/4/page/1) pp 268-279
21. Harvey MA, Davidson JE. [Postintensive Care Syndrome: Right Care, Right Now…and Later.](http://www.ncbi.nlm.nih.gov/pubmed/26771784) Crit Care Med. 2016 Feb;44(2):381-5.
22. Karnatovskaia LV, Philbrick KL, Parker AM, Needham DM. [Early Psychological Therapy in Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/26820280) Semin Respir Crit Care Med. 2016 Feb;37(1):136-42.
23. Porter ME, Larsson S, Lee TH. [Standardizing Patient Outcomes Measurement.](http://www.ncbi.nlm.nih.gov/pubmed/26863351) N Engl J Med. 2016 Feb 11;374(6):504-6.
24. Bilezikian JP. [Bone Loss in the Intensive Care Unit.](http://www.ncbi.nlm.nih.gov/pubmed/27035777) Am J Respir Crit Care Med. 2016 Apr 1;193(7):706-7.
25. Myers EA, Smith DA, Allen SR, Kaplan LJ. [Post-ICU syndrome: Rescuing the undiagnosed.](http://www.ncbi.nlm.nih.gov/pubmed/27023654) JAAPA. 2016 Apr;29(4):34-7.
26. Herridge MS, Moss M, Hough CL, Hopkins RO, Rice TW, Bienvenu OJ, Azoulay E. [Recovery and outcomes after the acute respiratory distress syndrome (ARDS) in patients and their family caregivers.](http://www.ncbi.nlm.nih.gov/pubmed/27025938) Intensive Care Med. 2016 May;42(5):725-38
27. Singer JP, Lederer DJ, Baldwin MR. [Frailty in Pulmonary and Critical Care Medicine.](http://www.ncbi.nlm.nih.gov/pubmed/27104873) Ann Am Thorac Soc. 2016 Apr 22.
28. Merbitz NH, Westie K, Dammeyer JA, Butt L, Schneider J. [After critical care: Challenges in the transition to inpatient rehabilitation.](http://www.ncbi.nlm.nih.gov/pubmed/27196861) Rehabil Psychol. 2016 May;61(2):186-200.
29. Rabiee A, Nikayin S, Hashem MD, Huang M, Dinglas VD, Bienvenu OJ, Turnbull AE, Needham DM. [Depressive Symptoms After Critical Illness: A Systematic Review and Meta-Analysis.](http://www.ncbi.nlm.nih.gov/pubmed/27153046) Crit Care Med. 2016 May 5.
30. By McGiffin, Jed N.; Galatzer-Levy, Isaac R.; Bonanno, George A. [Is the intensive care unit traumatic? What we know and don’t know about the intensive care unit and posttraumatic stress responses](http://www.ncbi.nlm.nih.gov/pubmed/27196855). Rehabilitation Psychology, Vol 61(2), May 2016, 120-131.
31. Jackson, James C.; Jutte, Jennifer E.; Hunter, Cashuna Huddleston; Ciccolella, Nancy; Warrington, Hillary; Sevin, Carla; Bienvenu, Oscar J. Posttraumatic stress disorder (PTSD) after critical illness: A conceptual review of distinct clinical issues and their implications. Rehabilitation Psychology, Vol 61(2), May 2016, 132-140
32. Elliott, Rosalind; McKinley, Sharon; Fien, Mary; Elliott, Doug Posttraumatic stress symptoms in intensive care patients: An exploration of associated factors. Rehabilitation Psychology, Vol 61(2), May 2016, 141-150
33. Jackson, James C.; Jutte, Jennifer E. Rehabilitating a missed opportunity: Integration of rehabilitation psychology into the care of critically ill patients, survivors, and caregivers. Rehabilitation Psychology, Vol 61(2), May 2016, 115-119
34. Turnbull AE, Rabiee A, Davis WE, Nasser MF, Venna VR, Lolitha R, Hopkins RO, Bienvenu OJ, Robinson KA, Needham DM. [Outcome Measurement in ICU Survivorship Research From 1970 to 2013: A Scoping Review of 425 Publications.](http://www.ncbi.nlm.nih.gov/pubmed/26992067) Crit Care Med. 2016 Jul;44(7):1267-77.
35. Palakshappa JA, Christie JD. [Survivorship Research: Studying the Past to Define the Future.](http://www.ncbi.nlm.nih.gov/pubmed/27309158) Crit Care Med. 2016 Jul;44(7):1422-3.
36. Lasiter S, Oles SK, Mundell J, London S, Khan B. [Critical Care Follow-up Clinics: A Scoping Review of Interventions and Outcomes.](http://www.ncbi.nlm.nih.gov/pubmed/27309787) Clin Nurse Spec. 2016 Jul-Aug;30(4):227-37.
37. Bienvenu OJ. [Critical Illness-related Post-traumatic Stress. An Important Message.](http://www.ncbi.nlm.nih.gov/pubmed/27304237) Am J Respir Crit Care Med. 2016 Jun 15;193(12):1326-7.
38. McGiffin JN, Galatzer-Levy IR, Bonanno GA. [Is the intensive care unit traumatic? What we know and don't know about the intensive care unit and posttraumatic stress responses.](http://www.ncbi.nlm.nih.gov/pubmed/27196855) Rehabil Psychol. 2016 May;61(2):120-31
39. Gill M, Bagshaw SM, McKenzie E, Oxland P, Oswell D, Boulton D, Niven DJ, Potestio ML, Shklarov S, Marlett N, Stelfox HT; Critical Care Strategic Clinical Network. [Patient and Family Member-Led Research in the Intensive Care Unit: A Novel Approach to Patient-Centered Research.](http://www.ncbi.nlm.nih.gov/pubmed/27494396) PLoS One. 2016 Aug 5;11(8):e0160947
40. Kross EK, Hough CL. [Broken Wings and Resilience after Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/27509152) Ann Am Thorac Soc. 2016 Aug;13(8):1219-20.
41. Anderson L, Delany C. [From Persuasion to Coercion: Responding to the Reluctant Patient in Rehabilitation.](http://www.ncbi.nlm.nih.gov/pubmed/26939602) Phys Ther. 2016 Aug;96(8):1234-40
42. Ludmir J, Netzer G. [Go Big: Measuring and Tackling Psychological Morbidity after Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/27509151) Ann Am Thorac Soc. 2016 Aug;13(8):1217-8.
43. Griffith DM, Vale ME, Campbell C, Lewis S, Walsh TS. [Persistent inflammation and recovery after intensive care: A systematic review.](http://www.ncbi.nlm.nih.gov/pubmed/26880401) J Crit Care. 2016 Jun;33:192-9
44. Hodgson CL, Turnbull AE, Iwashyna TJ, Parker A, Davis W, Bingham CO 3rd, Watts NR, Finfer S, Needham DM. [Core Domains in Evaluating Patient Outcomes After Acute Respiratory Failure: International Multidisciplinary Clinician Consultation.](https://www.ncbi.nlm.nih.gov/pubmed/27758965) Phys Ther. 2016 Oct 6.
45. Hashem MD, Nallagangula A, Nalamalapu S, Nunna K, Nausran U, Robinson KA, Dinglas VD, Needham DM, Eakin MN. [Patient outcomes after critical illness: a systematic review of qualitative studies following hospital discharge.](https://www.ncbi.nlm.nih.gov/pubmed/27782830) Crit Care. 2016 Oct 26;20(1):345.
46. Hough CL. [Beyond mortality or being mortal? Challenges in understanding and improving life after ARDS.](https://www.ncbi.nlm.nih.gov/pubmed/28183790) Thorax. 2017 Feb 9
47. Turnbull AE, Sepulveda KA, Dinglas VD, Chessare CM, Bingham CO 3rd, Needham DM. [Core Domains for Clinical Research in Acute Respiratory Failure Survivors: An International Modified Delphi Consensus Study.](https://www.ncbi.nlm.nih.gov/pubmed/28375853) Crit Care Med. 2017 Jun;45(6):1001-1010
48. Robinson KA, Davis WE, Dinglas VD, Mendez-Tellez PA, Rabiee A, Sukrithan V, Yalamanchilli R, Turnbull AE, Needham DM. [A systematic review finds limited data on measurement properties of instruments measuring outcomes in adult intensive care unit survivors.](https://www.ncbi.nlm.nih.gov/pubmed/27865899) J Clin Epidemiol. 2017 Feb;82:37-46
49. Hopkins RO, Suchyta MR, Kamdar BB, Darowski E, Jackson JC, Needham DM. [Instrumental Activities of Daily Living after Critical Illness: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/28463657) Ann Am Thorac Soc. 2017 May 2.
50. Ohtake PJ, Coffey Scott J, Hinman RS, Lee AC, Smith JM. [Impairments, activity limitations and participation restrictions experienced in the first year following a critical illness: protocol for a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/28119388) BMJ Open. 2017 Jan 24;7(1):e013847
51. Needham DM, Sepulveda KA, Dinglas VD, Chessare CM, Aronson Friedman L, Bingham Iii CO, Turnbull AE. [Core Outcome Measures for Clinical Research in Acute Respiratory Failure Survivors: An International Modified Delphi Consensus Study.](https://www.ncbi.nlm.nih.gov/pubmed/28537429) Am J Respir Crit Care Med. 2017 May 24.
52. Garland A. [Labor Market Outcomes: Expanding the List of Patient-Centered Outcomes in Critical Care.](https://www.ncbi.nlm.nih.gov/pubmed/28510473) Am J Respir Crit Care Med. 2017 May 16
53. Altman MT, Knauert MP, Pisani MA. [Sleep Disturbance after Hospitalization and Critical Illness: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/28644698) Ann Am Thorac Soc. 2017 Jun 23.
54. Connolly B, Hough CL. [Coloring by Number? Core Outcome Measures and the Canvas of ICU Survivorship.](https://www.ncbi.nlm.nih.gov/pubmed/28699762) Am J Respir Crit Care Med. 2017 Jul 12.
55. Griffith DM, Salisbury L, Lee RJ, Lone N, Merriweather JL, Walsh T; RECOVER Investigators. [The Burden of Specific Symptoms Reported by Survivors After Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/28650202) Am J Respir Crit Care Med. 2017 Jun 26. doi: 10.1164/rccm.201702-0398LE
56. Noyes EM, Schlesinger JJ. [ICU-related PTSD - A review of PTSD and the potential effects of collaborative songwriting therapy.](https://www.ncbi.nlm.nih.gov/pubmed/28688241) J Crit Care. 2017 Jun 23;42:78-84
57. Herridge MS. [50 Years of Research in ARDS. Long-term Follow-up After ARDS: Insights for Managing Medical Complexity After Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/28767270) Am J Respir Crit Care Med. 2017 Aug 2. doi: 10.1164/rccm.201704-0815ED
58. Iwashyna TJ, Walsh TS. [Interplay of physiology, social, familial and behavioural adaptation in the long-term outcome of ARDS.](https://www.ncbi.nlm.nih.gov/pubmed/28765262) Thorax. 2017 Aug 1. pii: thoraxjnl-2016-209859
59. Wilcox ME, Jaramillo-Rocha V, Hodgson C, Taglione MS, Ferguson ND, Fan E. [Long-Term Quality of Life After Extracorporeal Membrane Oxygenation in ARDS Survivors: Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29050526) J Intensive Care Med. 2017 Jan 1:885066617737035.
60. Kean S, Salisbury LG, Rattray J, Walsh TS, Huby G, Ramsay P.['Intensive care unit survivorship' - a constructivist grounded theory of surviving critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/27875013) J Clin Nurs. 2017 Oct;26(19-20):3111-3124
61. Kiernan F. [Care of ICU survivors in the community: a guide for GPs.](https://www.ncbi.nlm.nih.gov/pubmed/28963432) Br J Gen Pract. 2017 Oct;67(663):477-478
62. Needham DM, Sepulveda KA, Dinglas VD, Chessare CM, Friedman LA, Bingham CO 3rd, Turnbull AE. [Core Outcome Measures for Clinical Research in Acute Respiratory Failure Survivors. An International Modified Delphi Consensus Study.](https://www.ncbi.nlm.nih.gov/pubmed/28537429) Am J Respir Crit Care Med. 2017 Nov 1;196(9):1122-1130
63. Gaudry S, Messika J, Ricard JD, Guillo S, Pasquet B, Dubief E, Boukertouta T, Dreyfuss D, Tubach F. [Patient-important outcomes in randomized controlled trials in critically ill patients: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/28271450) Ann Intensive Care. 2017 Dec;7(1):28. doi: 10.1186/s13613-017-0243-z
64. Padula WV, Lee KKH, Pronovost PJ. [Using Economic Evaluation to Illustrate Value of Care for Improving Patient Safety and Quality: Choosing the Right Method.](https://www.ncbi.nlm.nih.gov/pubmed/28786836) J Patient Saf. 2017 Aug 3. doi: 10.1097/PTS.0000000000000410
65. Denehy L, Hough CL. [Critical illness, disability, and the road home.](https://www.ncbi.nlm.nih.gov/pubmed/29167915) Intensive Care Med. 2017 Dec;43(12):1881-1883
66. Connolly B, Denehy L. [Hindsight and moving the needle forwards on rehabilitation trial design.](https://www.ncbi.nlm.nih.gov/pubmed/29138261) Thorax. 2017 Nov 14. pii: thoraxjnl-2017-210588
67. Latronico N, Minelli C, Eikermann M. [Prediction of long-term outcome subtypes in ARDS: first steps towards personalised medicine in critical care.](https://www.ncbi.nlm.nih.gov/pubmed/28988218) Thorax. 2017 Dec;72(12):1067-1068
68. Prescott HC, Angus DC. [Enhancing Recovery From Sepsis: A Review.](https://www.ncbi.nlm.nih.gov/pubmed/29297082) JAMA. 2018 Jan 2;319(1):62-75
69. Sakusic A, O'Horo JC, Dziadzko M, Volha D, Ali R, Singh TD, Kashyap R, Farrell AM, Fryer JD, Petersen R, Gajic O, Rabinstein AA. [Potentially Modifiable Risk Factors for Long-Term Cognitive Impairment After Critical Illness: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/29304923) Mayo Clin Proc. 2018 Jan;93(1):68-82
70. Messika J, Kalfon P, Ricard JD. [Adjuvant therapies in critical care: music therapy.](https://www.ncbi.nlm.nih.gov/pubmed/29353459) Intensive Care Med. 2018 Jan 20
71. [Jennifer P. Stevens, MD, MS](https://jamanetwork.com/searchresults?author=Jennifer+P.+Stevens&q=Jennifer+P.+Stevens); [Anica Law, MD](https://jamanetwork.com/searchresults?author=Anica+Law&q=Anica+Law); [Jaclyn Giannakoulis, MA](https://jamanetwork.com/searchresults?author=Jaclyn+Giannakoulis&q=Jaclyn+Giannakoulis) [Acute Respiratory Distress Syndrome.](https://jamanetwork.com/journals/jama/fullarticle/2673151) JAMA. 2018;319(7):732. doi:10.1001/jama.2018.0483
72. Roberts MB, Glaspey LJ, Mazzarelli A, Jones CW, Kilgannon HJ, Trzeciak S, Roberts BW. [Early Interventions for the Prevention of Posttraumatic Stress Symptoms in Survivors of Critical Illness: A Qualitative Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/29794546) Crit Care Med. 2018 May 22. doi: 10.1097/CCM.0000000000003222
73. Ohtake PJ, Lee AC, Scott JC, Hinman RS, Ali NA, Hinkson CR, Needham DM, Shutter L, Smith-Gabai H, Spires MC, Thiele A, Wiencek C, Smith JM. [Physical Impairments Associated With Post-Intensive Care Syndrome: Systematic Review Based on the World Health Organization's International Classification of Functioning, Disability and Health Framework.](https://www.ncbi.nlm.nih.gov/pubmed/29961847) Phys Ther. 2018 Aug 1;98(8):631-645
74. Griffith DM. [Body Composition After Critical Illness: Fat in All the Wrong Places?](https://www.ncbi.nlm.nih.gov/pubmed/30004969) Crit Care Med. 2018 Aug;46(8):1376-1377
75. Sakusic A, Rabinstein AA. [Cognitive outcomes after critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/30036191) Curr Opin Crit Care. 2018 Oct;24(5):410-414
76. Prince E, Gerstenblith TA, Davydow D, Bienvenu OJ. [Psychiatric Morbidity After Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/30223997) Crit Care Clin. 2018 Oct;34(4):599-608
77. Girard TD. [Sedation, Delirium, and Cognitive Function After Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/30223996) Crit Care Clin. 2018 Oct;34(4):585-598
78. Dinglas VD, Faraone LN, Needham DM. [Understanding patient-important outcomes after critical illness: a synthesis of recent qualitative, empirical, and consensus-related studies.](https://www.ncbi.nlm.nih.gov/pubmed/30063492) Curr Opin Crit Care. 2018 Oct;24(5):401-409
79. Gerth AMJ, Hatch RA, Young JD, Watkinson PJ. [Changes in health-related quality of life after discharge from an intensive care unit: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/30291744)
80. Anaesthesia. 2019 Jan;74(1):100-108.
81. O'Connor LR, Morris NR, Paratz J. [Physiological and clinical outcomes associated with use of one-way speaking valves on tracheostomised patients: A systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/30573194) Heart Lung. 2018 Dec 17. pii: S0147-9563(18)30273-5.
82. Flint LA, David DJ, Smith AK. [Rehabbed to Death.](https://www.ncbi.nlm.nih.gov/pubmed/30699322) N Engl J Med. 2019 Jan 31
83. Kross EK, Pollak KI, Curtis JR. [Addressing the Psychological Symptoms of Critical Illness: The Importance of "Negative" Trials in Guiding Next Steps.](https://www.ncbi.nlm.nih.gov/pubmed/30776299) JAMA. 2019 Feb 19;321(7):649-650
84. Buckley LM. [What About Recovery.](https://www.ncbi.nlm.nih.gov/pubmed/30938799) JAMA. 2019 Apr 2;321(13):1253-1254
85. Rosa RG, Ferreira GE, Viola TW, Robinson CC, Kochhann R, Berto PP, Biason L, Cardoso PR, Falavigna M, Teixeira C. [Effects of post-ICU follow-up on subject outcomes: A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31035186) J Crit Care. 2019 Apr 11;52:115-125
86. Held N, Moss M. [Optimizing Post-Intensive Care Unit Rehabilitation.](https://www.ncbi.nlm.nih.gov/pubmed/30958989) Turk Thorac J. 2019 Apr 1;20(2):147-152
87. Brown SM, Bose S, Banner-Goodspeed V, Beesley S, Dinglas VD, Hopkins RO, Jackson JC, Mir-Kasimov M, Needham DM, Sevin CM; Addressing Post Intensive Care Syndrome 01 (APICS-01) study team. [Approaches to Addressing Post-Intensive Care Syndrome among Intensive Care Unit (ICU) Survivors: A Narrative Review.](https://www.ncbi.nlm.nih.gov/pubmed/31162935) Ann Am Thorac Soc. 2019 Jun 4
88. King J, O'Neill B, Ramsay P, Linden MA, Darweish Medniuk A, Outtrim J, Blackwood B. [Identifying patients' support needs following critical illness: a scoping review of the qualitative literature.](https://www.ncbi.nlm.nih.gov/pubmed/31126335) Crit Care. 2019 May 24;23(1):187.
89. Admon AJ, Tipirneni R, Prescott HC. [A framework for improving post-critical illness recovery through primary care.](https://www.ncbi.nlm.nih.gov/pubmed/31122899) Lancet Respir Med. 2019 May 17
90. Duong P, Sauvé-Schenk K, Egan MY, Meyer MJ, Morrison T. [Operational Definitions and Estimates of Return to Work Poststroke: A Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/30367876) Arch Phys Med Rehabil. 2019 Jun;100(6):1140-1152
91. McPeake J, Mikkelsen ME, Quasim T, Hibbert E, Cannon P, Shaw M, Ankori J, Iwashyna TJ, Haines KJ. [Return to Employment Following Critical Illness and Its Association with Psychosocial Outcomes: A Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31184500) Ann Am Thorac Soc. 2019 Jun 11
92. Haines KJ, McPeake J, Hibbert E, Boehm LM, Aparanji K, Bakhru RN, Bastin AJ, Beesley SJ, Beveridge L, Butcher BW, Drumright K, Eaton TL, Farley T, Firshman P, Fritschle A, Holdsworth C, Hope AA, Johnson A, Kenes MT, Khan BA, Kloos JA, Kross EK, Mactavish P, Meyer J, Montgomery-Yates A, Quasim T, Saft HL, Slack A, Stollings J, Weinhouse G, Whitten J, Netzer G, Hopkins RO, Mikkelsen ME, Iwashyna TJ, Sevin CM. [Enablers and Barriers to Implementing ICU Follow-Up Clinics and Peer Support Groups Following Critical Illness: The Thrive Collaboratives.](https://www.ncbi.nlm.nih.gov/pubmed/31241499) Crit Care Med. 2019 Jun 21
93. Walsh TS, Endacott R. [Learning from aftercare to improve acute care.](https://www.ncbi.nlm.nih.gov/pubmed/31197395) Intensive Care Med. 2019 Jul;45(7):1022-1024
94. Kemp HI, Laycock H, Costello A, Brett SJ. [Chronic pain in critical care survivors: a narrative review.](https://www.ncbi.nlm.nih.gov/pubmed/31126622) Br J Anaesth. 2019 Aug;123(2):e372-e384
95. Rose L, Muttalib F, Adhikari NKJ. [Psychological Consequences of Admission to the ICU: Helping Patients and Families.](https://www.ncbi.nlm.nih.gov/pubmed/31310279) JAMA. 2019 Jul 16;322(3):213-215
96. Geense WW, van den Boogaard M, van der Hoeven JG, Vermeulen H, Hannink G, Zegers M. [Nonpharmacologic Interventions to Prevent or Mitigate Adverse Long-Term Outcomes Among ICU Survivors: A Systematic Review and Meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31464769) Crit Care Med. 2019 Aug 26
97. Batt J, Herridge MS, Dos Santos CC.[From skeletal muscle weakness to functional outcomes following critical illness: a translational biology perspective.](https://www.ncbi.nlm.nih.gov/pubmed/31431489) Thorax. 2019 Aug 20
98. Wilcox ME, Ely EW. [Challenges in conducting long-term outcomes studies in critical care.](https://www.ncbi.nlm.nih.gov/pubmed/31356238) Curr Opin Crit Care. 2019 Oct;25(5):473-488
99. Rylander C. [Historic review of long-term outcomes research.](https://www.ncbi.nlm.nih.gov/pubmed/31361684) Curr Opin Crit Care. 2019 Oct;25(5):523-529
100. Santacruz CA, Pereira AJ, Celis E, Vincent JL. [Which Multicenter Randomized Controlled Trials in Critical Care Medicine Have Shown Reduced Mortality? A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/31567349) Crit Care Med. 2019 Sep 17
101. Ascough L, Morrell-Scott N. [An audit of completion of diaries for rehabilitation in an intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/30281341) Br J Nurs. 2018 Oct 4;27(18):1054-1058
102. Lee M, Kang J, Jeong YJ. [Risk factors for post-intensive care syndrome: A systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31839375) Aust Crit Care. 2019 Dec 12
103. Luetz A, Grunow JJ, Mörgeli R, Rosenthal M, Weber-Carstens S, Weiss B, Spies C. [Innovative ICU Solutions to Prevent and Reduce Delirium and Post-Intensive Care Unit Syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/31826268) Semin Respir Crit Care Med. 2019 Oct;40(5):673-686
104. Suen et al. Developing the family support tool: An interactive, web-based tool to help families navigate the complexities of surrogate decision making in ICUs. <https://doi.org/10.1016/j.jcrc.2019.12.002>
105. Ratschen E, Sheldon TA. [Elephant in the room: animal assisted interventions.](https://www.ncbi.nlm.nih.gov/pubmed/31848134) BMJ. 2019 Dec 17;367:l6260
106. Wilcox ME, Jaramillo-Rocha V, Hodgson C, Taglione MS, Ferguson ND, Fan E. [Long-Term Quality of Life After Extracorporeal Membrane Oxygenation in ARDS Survivors: Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29050526) J Intensive Care Med. 2020 Mar;35(3):233-243
107. Shankar-Hari M, Saha R, Wilson J, Prescott HC, Harrison D, Rowan K, Rubenfeld GD, Adhikari NKJ. [Rate and risk factors for rehospitalisation in sepsis survivors: systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31974919) Intensive Care Med. 2020 Jan 23
108. Levis B, Benedetti A, Ioannidis JPA, et al. [Patient Health Questionnaire-9 scores do not accurately estimate depression prevalence: individual participant data meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/32105798/?from_sort=date&from_term=Levis+B&from_cauthor_id=32105798&from_pos=1) J Clin Epidemiol. 2020 Jun;122:115-128.e1.
109. Dinglas VD, Cherukuri SPS, Needham DM. [Core outcomes sets for studies evaluating critical illness and patient recovery.](https://pubmed.ncbi.nlm.nih.gov/32773613/) Curr Opin Crit Care. 2020 Oct;26(5):489-499.
110. Franks ZM, Alcock JA, Lam T, Haines KJ, Arora N, Ramanan M. [Physical Restraints and Post-Traumatic Stress Disorder in Survivors of Critical Illness: A Systematic Review and Meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33075240/) Ann Am Thorac Soc. 2020 Oct 19. doi: 10.1513/AnnalsATS.202006-738OC
111. Su H, Dreesmann NJ, Hough CL, Bridges E, Thompson HJ. [Factors associated with employment outcome after critical illness: Systematic review, meta-analysis, and meta-regression.](https://pubmed.ncbi.nlm.nih.gov/33210753/) J Adv Nurs. 2021 Feb;77(2):653-663
112. Kusi-Appiah E, Karanikola M, Pant U, Meghani S, Kennedy M, Papathanassoglou E. [Tools for assessment of acute psychological distress in critical illness: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/33648818/) Aust Crit Care. 2021 Feb 26:S1036-7314(20)30351-9
113. Yuan C, Timmins F, Thompson DR. [Post-intensive care syndrome: A concept analysis.](https://pubmed.ncbi.nlm.nih.gov/33220570/) Int J Nurs Stud. 2021 Feb;114:103814
114. Bassi TG, Rohrs EC, Reynolds SC. [Systematic review of cognitive impairment and brain insult after mechanical ventilation.](https://pubmed.ncbi.nlm.nih.gov/33691752/) Crit Care. 2021 Mar 10;25(1):99
115. Parker AM, Sinha P, Needham DM. [Biological Mechanisms of Cognitive and Physical Impairments after Critical Care. Rethinking the Inflammatory Model?](https://pubmed.ncbi.nlm.nih.gov/33142075/) Am J Respir Crit Care Med. 2021 Mar 15;203(6):665-667.
116. Gosse PJ, Kassardjian CD, Masellis M, Mitchell SB. [Virtual care for patients with Alzheimer disease and related dementias during the COVID-19 era and beyond.](https://pubmed.ncbi.nlm.nih.gov/33722828/) CMAJ. 2021 Mar 15;193(11):E371-E377
117. Brandao Barreto B, Luz M, Alves Valente do Amaral Lopes S, Goulart Rosa R, Gusmao-Flores D. [Exploring Patients' Perceptions on ICU Diaries: A Systematic Review and Qualitative Data Synthesis.](https://pubmed.ncbi.nlm.nih.gov/33861546/) Crit Care Med. 2021 Apr 5
118. Hosey MM, Needham DM, Kudchadkar SR. [Fatigue in critical care survivors: multidisciplinary and self-management strategies.](https://pubmed.ncbi.nlm.nih.gov/33878209/) Anaesthesia. 2021 Apr 20
119. Rima A. Mohammad et al. Clinical pharmacist services within intensive care unit recovery clinics: An opinion of the critical care practice and research network of the American College of Clinical Pharmacy. <https://accpjournals.onlinelibrary.wiley.com/doi/full/10.1002/jac5.1311>
120. Cherak SJ, Rosgen BK, Amarbayan M, Wollny K, Doig CJ, Patten SB, Stelfox HT, Fiest KM. [Mental Health Interventions to Improve Psychological Outcomes in Informal Caregivers of Critically Ill Patients: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/33826586/) Crit Care Med. 2021 Apr 8
121. Dol M, Varatharajan S, Neiterman E, McKnight E, Crouch M, McDonald E, Malachowski C, Dali N, Giau E, MacEachen E. [Systematic Review of the Impact on Return to Work of Return-to-Work Coordinators.](https://pubmed.ncbi.nlm.nih.gov/33881671/) J Occup Rehabil. 2021 Apr 21
122. Johanna Josepha Op't Hoog SA, Eskes AM, Johanna van Mersbergen-de Bruin MP, Pelgrim T, van der Hoeven H, Vermeulen H, Maria Vloet LC. [The effects of intensive care unit-initiated transitional care interventions on elements of post-intensive care syndrome: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34120805/) Aust Crit Care. 2021 Jun 10:S1036-7314(21)00067-9
123. Sun X, Huang D, Zeng F, Ye Q, Xiao H, Lv D, Zhao P, Cui X. [Effect of intensive care unit diary on incidence of posttraumatic stress disorder, anxiety, and depression of adult intensive care unit survivors: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/33483993/) J Adv Nurs. 2021 Jul;77(7):2929-2941
124. Brandao Barreto B, Luz M, do Amaral Lopes SAV, Rosa RG, Gusmao-Flores D. [Exploring family members' and health care professionals' perceptions on ICU diaries: a systematic review and qualitative data synthesis.](https://pubmed.ncbi.nlm.nih.gov/34117901/) Intensive Care Med. 2021 Jul;47(7):737-749
125. Simon N, Robertson L, Lewis C, Roberts NP, Bethell A, Dawson S, Bisson JI. [Internet-based cognitive and behavioural therapies for post-traumatic stress disorder (PTSD) in adults.](https://pubmed.ncbi.nlm.nih.gov/34015141/) Cochrane Database Syst Rev. 2021 May 20;5(5):CD011710.
126. Haug VF, Tapking C, Panayi AC, Thiele P, Wang AT, Obed D, Hirche C, Most P, Kneser U, Hundeshagen G. [Long-term sequelae of critical illness in sepsis, trauma and burns: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34252062/) J Trauma Acute Care Surg. 2021 Jul 9
127. Devlin JW, Needham DM. [Long-Term Outcomes after Delirium in the ICU: Addressing Gaps in our Knowledge.](https://pubmed.ncbi.nlm.nih.gov/34186012/) Am J Respir Crit Care Med. 2021 Jun 29
128. Bellon F, Mora-Noya V, Pastells-Peiró R, Abad-Corpa E, Gea-Sánchez M, Moreno-Casbas T. [The efficacy of nursing interventions on sleep quality in hospitalized patients: A systematic review of randomized controlled trials.](https://pubmed.ncbi.nlm.nih.gov/33383270/) Int J Nurs Stud. 2021 Mar;115:103855
129. Connolly B. [Returning to work following critical illness: milestone or millstone?](https://pubmed.ncbi.nlm.nih.gov/34353921/) Thorax. 2021 Aug 5:thoraxjnl-2021-217491
130. Turnbull AE, Ji H, Dinglas VD, Wu AW, Mendez-Tellez PA, Himmelfarb CD, Shanholtz CB, Hosey MM, Hopkins RO, Needham DM. [Understanding patients' perceived health after critical illness: analysis of two prospective, longitudinal studies of ARDS survivors.](https://pubmed.ncbi.nlm.nih.gov/34419426/) Chest. 2021 Aug 19:S0012-3692(21)03687-4.
131. Kosyakovsky LB, Angriman F, Katz E, Adhikari NK, Godoy LC, Marshall JC, Ferreyro BL, Lee DS, Rosenson RS, Sattar N, Verma S, Toma A, Englesakis M, Burstein B, Farkouh ME, Herridge M, Ko DT, Scales DC, Detsky ME, Bibas L, Lawler PR. [Association between sepsis survivorship and long-term cardiovascular outcomes in adults: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/34373953/) Intensive Care Med. 2021 Sep;47(9):931-942
132. Stanculescu D, Bergquist J. [Perspective: Drawing on Findings From Critical Illness to Explain Myalgic Encephalomyelitis/Chronic Fatigue Syndrome.](https://pubmed.ncbi.nlm.nih.gov/35345768/) Front Med (Lausanne). 2022 Mar 8;9:818728
133. Shein SL, Rotta AT. [Long-term Neurocognitive Morbidity After a Single Episode of Respiratory Failure in Children.](https://pubmed.ncbi.nlm.nih.gov/35230414/) JAMA. 2022 Mar 1;327(9):823-825
134. Barrington, H., Young, B., & Williamson, P. R. (2021). [Patient participation in Delphi surveys to develop core outcome sets: systematic review](https://doi.org/10.1136/bmjopen-2021-051066). *BMJ open*, *11*(9), e051066.
135. Pallanch O, Ortalda A, Pelosi P, Latronico N, Sartini C, Lombardi G, Marchetti C, Maimeri N, Zangrillo A, Cabrini L. [Effects on health-related quality of life of interventions affecting survival in critically ill patients: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/35524315/) Crit Care. 2022 May 6;26(1):126
136. Ravinskaya M, Verbeek JH, Langendam M, Daams JG, Hulshof CTJ, Madan I, Verstappen SMM, Hagendijk M, Kunz R, Hoving JL. [Extensive variability of work participation outcomes measured in randomized controlled trials: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/34715311/) J Clin Epidemiol. 2022 Feb;142:60-99
137. Daughtrey H, et al [Measuring Social Health Following Pediatric Critical Illness: A Scoping Review and Conceptual Framework.](https://pubmed.ncbi.nlm.nih.gov/35603750/) J Intensive Care Med. 2022 May 22
138. Williamson PR, Barrington H, Blazeby JM, Clarke M, Gargon E, Gorst SL, Saldanha IJ, Tunis S. [Review finds core outcome set uptake in new studies and systematic reviews needs improvement.](https://pubmed.ncbi.nlm.nih.gov/35779824/) J Clin Epidemiol. 2022 Jun 29:S0895-4356(22)00167-6
139. Granholm A, Kaas-Hansen BS, Kjaer MN, Anthon CT, Sivapalan P, Schjørring OL, Andersen LW, Mathiesen O, Strøm T, Jensen AKG, Perner A, Møller MH. p[atient-important outcomes other than mortality in recent ICU trials: Protocol for a scoping review.](https://pubmed.ncbi.nlm.nih.gov/34089522/) Acta Anaesthesiol Scand. 2021 Aug;65(7):1002-1007.
140. Gazzato A, Scquizzato T, Imbriaco G, Negro A, Caballo Garrido MC, Landoni G, Zangrillo A, Borghi G. [The Effect of Intensive Care Unit Diaries on Posttraumatic Stress Disorder, Anxiety, and Depression: A Systematic Review and Meta-analysis of Randomized Controlled Trials.](https://pubmed.ncbi.nlm.nih.gov/35905428/) Dimens Crit Care Nurs. 2022 Sep-Oct 01;41(5):256-263
141. Jain S, Hauschildt K, Scheunemann LP. [Social determinants of recovery.](https://pubmed.ncbi.nlm.nih.gov/35993295/) Curr Opin Crit Care. 2022 Oct 1;28(5):557-565
142. Fazzini B, Battaglini D, Carenzo L, Pelosi P, Cecconi M, Puthucheary Z. [Physical and psychological impairment in survivors of acute respiratory distress syndrome: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/36116979/) Br J Anaesth. 2022 Aug 26:S0007-0912(22)00455-X
143. Narváez-Martínez MA, Gómez-Tovar LO, Henao-Castaño ÁM. [Scales to measure post intensive care syndrome, a scoping review.](https://pubmed.ncbi.nlm.nih.gov/36049644/) Enferm Clin (Engl Ed). 2022 Aug 29:S2445-1479(22)00112-6
144. McHenry RD, Moultrie CEJ, Quasim T, Mackay DF, Pell JP. [Association Between Socioeconomic Status and Outcomes in Critical Care: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/36728845/) Crit Care Med. 2022 Dec 26
145. Ito Y, Tsubaki M, Kobayashi M, Yagome S, Sakaguchi Y. [**Effect** **size** estimates of risk factors for post-intensive care syndrome-family: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/36642001/) Heart Lung. 2023 Jan 13;59:1-7
146. Su H, Dreesmann NJ, Hough CL, Bridges E, Thompson HJ. [Factors associated with employment outcome after critical illness: Systematic review, meta-analysis, and meta-regression.](https://pubmed.ncbi.nlm.nih.gov/33210753/) J Adv Nurs. 2021 Feb;77(2):653-663
147. Friedrich JO, Harhay MO, Angus DC, Burns KEA, Cook DJ, Fergusson DA, Finfer S, Hébert P, Rowan K, Rubenfeld G, Marshall JC; International Forum for Acute Care Trialists (InFACT). [Mortality As a Measure of Treatment Effect in Clinical Trials Recruiting Critically Ill Patients.](https://pubmed.ncbi.nlm.nih.gov/36661450/) Crit Care Med. 2023 Feb 1;51(2):222-230
148. Brown SE, Shah A, Czuber-Dochan W, Bench S, Stayt L. [Non-pharmacological interventions for self-management of fatigue in adults: An umbrella review of potential interventions to support patients recovering from critical illness.](https://pubmed.ncbi.nlm.nih.gov/36828754/) J Crit Care. 2023 Feb 22:154279
149. Elmer N, REIßHAUER A, Brehm K, Vockeroth C, Liebl ME. [Long-term complications of prone position ventilation with relevance for acute and postacute rehabilitation: a systematic review of the literature.](https://pubmed.ncbi.nlm.nih.gov/36441010/) Eur J Phys Rehabil Med. 2023 Feb;59(1):111-121
150. Herridge MS, Azoulay É. [Outcomes after Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/36884324/) N Engl J Med. 2023 Mar 9;388(10):913-924
151. Nikolovski A, Gamgoum L, Deol A, Quilichini S, Kazemir E, Rhodenizer J, Oliveira A, Brooks D, Alsubheen S. [Psychometric properties of the Hospital Anxiety and Depression Scale (HADS) in individuals with stable chronic obstructive pulmonary disease (COPD): a systematic review.](https://pubmed.ncbi.nlm.nih.gov/36861817/) Disabil Rehabil. 2023 Mar 2:1-9
152. Kearney A, Gargon E, Mitchell JW, Callaghan S, Yameen F, Williamson PR, Dodd S. [A systematic review of studies reporting the development of core outcome sets for use in routine care.](https://pubmed.ncbi.nlm.nih.gov/36948407/) J Clin Epidemiol. 2023 Mar 21;158:34-43
153. Perry-Eaddy MA, Dervan LA, Manning JC, Watson RS, Curley MAQ. [Pediatric Critical Care Outcomes: State of the Science.](https://pubmed.ncbi.nlm.nih.gov/36898776/) Crit Care Clin. 2023 Apr;39(2):309-326
154. Higa KC, Mayer K, Quinn C, Jubina L, Suarez-Pierre A, Colborn K, Jolley SE, Enfield K, Zwischenberger J, Sevin CM, Rove JY. [Sounding the Alarm: What Clinicians Need to Know about Physical, Emotional and Cognitive Recovery After Venoarterial Extracorporeal Membrane Oxygenation.](https://pubmed.ncbi.nlm.nih.gov/37163480/) Crit Care Med. 2023 May 1.
155. Wang G, Antel R, Goldfarb M. [The Impact of Randomized Family-Centered Interventions on Family-Centered Outcomes in the Adult Intensive Care Unit: A Systematic Review.](https://pubmed.ncbi.nlm.nih.gov/37161268/) J Intensive Care Med. 2023 May 9:8850666231173868
156. Dimopoulos S, Leggett NE, Deane AM, Haines KJ, Abdelhamid YA. [Models of intensive care unit follow-up care and feasibility of intervention delivery: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/37263902/) Aust Crit Care. 2023 May 30:S1036-7314(23)00060-7
157. Hu D, Ji X, Li Y, Liang Y, Chen J. [Effect of intensive care unit diary on quality of life of intensive care unit survivors and their relatives: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/37255447/) Nurs Open. 2023 May 31
158. Paul N, Albrecht V, Denke C, Spies CD, Krampe H, Weiss B. [A Decade of Post-Intensive Care Syndrome: A Bibliometric Network Analysis.](https://pubmed.ncbi.nlm.nih.gov/35208494/) Medicina (Kaunas). 2022 Jan 23;58(2):170
159. Zhou SL, Zhang SY, Si HB, Shen B. [Regional versus general anesthesia in older patients for hip fracture surgery: a systematic review and meta-analysis of randomized controlled trials.](https://pubmed.ncbi.nlm.nih.gov/37312156/) J Orthop Surg Res. 2023 Jun 13;18(1):428
160. Eaton TL, Taylor SP. [Health system approaches to providing posthospital care for survivors of sepsis and critical illness.](https://pubmed.ncbi.nlm.nih.gov/37641522/) Curr Opin Crit Care. 2023 Oct 1;29(5):513-518
161. Rose L, Cox CE. [Digital solutions and the future of recovery after critical illness.](https://pubmed.ncbi.nlm.nih.gov/37598320/) Curr Opin Crit Care. 2023 Oct 1;29(5):519-525
162. Sutton L, Bell E, Every-Palmer S, Weatherall M, Skirrow P. [Survivorship outcomes for critically ill patients in Australia and New Zealand: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/37684157/) Aust Crit Care. 2023 Sep 6:S1036-7314(23)00100-5
163. Fan TH, Premraj L, Roberts J, Lydston M, Robba C, Hager D, Suarez JI, Battaglini D, Cho SM. [In-Hospital Neurologic Complications, Neuromonitoring, and Long-Term Neurologic Outcomes in Patients With Sepsis: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/37921513/) Crit Care Med. 2023 Nov 3
164. Boehm LM, Bird CM, Warren AM, Danesh V, Hosey MM, McPeake J, Potter KM, Su H, Eaton TL, Powers MB. [Understanding and Managing Anxiety Sensitivity During Critical Illness and Long-Term Recovery.](https://pubmed.ncbi.nlm.nih.gov/37907373/) Am J Crit Care. 2023 Nov 1;32(6):449-457
165. Boehm LM, Bird CM, Warren AM, Danesh V, Hosey MM, McPeake J, Potter KM, Su H, Eaton TL, Powers MB. [Understanding and Managing Anxiety Sensitivity During Critical Illness and Long-Term Recovery.](https://pubmed.ncbi.nlm.nih.gov/37907373/) Am J Crit Care. 2023 Nov 1;32(6):449-457
166. Latronico N, Rasulo FA, Eikermann M, Piva S. [Illness Weakness, Polyneuropathy and Myopathy: Diagnosis, treatment, and long-term outcomes.](https://pubmed.ncbi.nlm.nih.gov/37957759/) Crit Care. 2023 Nov 13;27(1):439
167. Davies TW, Kelly E, van Gassel RJJ, van de Poll MCG, …Puthucheary ZA. [A systematic review and meta-analysis of the clinimetric properties of the core outcome measurement instruments for clinical effectiveness trials of nutritional and metabolic interventions in critical illness (CONCISE).](https://pubmed.ncbi.nlm.nih.gov/37986015/)
168. Crit Care. 2023 Nov 20;27(1):450
169. Chrisman M, Chesnut SR, Thompson M, Hopper A, Lasiter S. [Physical activity and sedentary behavior in middle-aged intensive care unit survivors discharged home: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/38155051/) Intensive Crit Care Nurs. 2023 Dec 27:103608
170. Kalra A, Kang JK, Khanduja S, Menta AK, Ahmad SA, Liu O, Rodriguez E, Spann M, Hernandez AV, Brodie D, Whitman GJR, Cho SM; for HERALD (Hopkins Education, Research, and Advancement in Life-support Devices). [Long-Term Neuropsychiatric, Neurocognitive, and Functional Outcomes of Patients Receiving ECMO: A Systematic Review and Meta-Analysis.](https://pubmed.ncbi.nlm.nih.gov/38181313/) Neurology. 2024 Feb 13;102(3):e208081
171. Zheng Y, Zhang L, Ma S, Wu B, Chen P, Xu Y, Tan W, Li H, Wu Q, Zheng J. Syst [Care intervention on psychological outcomes among patients admitted to intensive care unit: an umbrella review of systematic reviews and meta-analyses.](https://pubmed.ncbi.nlm.nih.gov/38098025/) Rev. 2023 Dec 14;12(1):237
172. Shankar-Hari M, Saha R, Wilson J, Prescott HC, Harrison D, Rowan K, Rubenfeld GD, Adhikari NKJ. [Rate and risk factors for rehospitalisation in sepsis survivors: systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/31974919/) Intensive Care Med. 2020 Apr;46(4):619-636
173. Nakanishi N, Liu K, Hatakeyama J, Kawauchi A, Yoshida M, Sumita H, Miyamoto K, Nakamura K. [Post-intensive care syndrome follow-up system after hospital discharge: a narrative review.](https://pubmed.ncbi.nlm.nih.gov/38217059/) J Intensive Care. 2024 Jan 12;12(1):2
174. Taylor J, Wilcox ME. [Physical and Cognitive Impairment in Acute Respiratory Failure.](https://pubmed.ncbi.nlm.nih.gov/38432704/) Crit Care Clin. 2024 Apr;40(2):429-450
175. Latronico N, Eikermann M, Ely EW, Needham DM. [Improving management of ARDS: uniting acute management and long-term recovery.](https://pubmed.ncbi.nlm.nih.gov/38395902/) Crit Care. 2024 Feb 23;28(1):58
176. Hippensteel JA, Aggarwal NR, Mikkelsen ME. [A New Era in Critical Care Trials: Linking ICU Practice to Long-Term Outcomes.](https://pubmed.ncbi.nlm.nih.gov/38387023/) Am J Respir Crit Care Med. 2024 Apr 1;209(7):782-784
177. LaBuzetta JN, Bongbong DN, Mlodzinski E, Sheth R, Trando A, Ibrahim N, Yip B, Malhotra A, Dinglas VD, Needham DM, Kamdar BB. [Survivorship After Neurocritical Care: A Scoping Review of Outcomes Beyond Physical Status.](https://pubmed.ncbi.nlm.nih.gov/38622487/) Neurocrit Care. 2024 Apr 15
178. Turgeon J, Venkatamaran V, Englesakis M, Fan E. [Long-term outcomes of patients supported with extracorporeal membrane oxygenation for acute respiratory distress syndrome: a systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/38197932/) Intensive Care Med. 2024 Mar;50(3):350-370
179. Docherty C, Page C, Wilson J, Ross P, Garrity K, Quasim T, Shaw M, McPeake J. [Association between inflammation and post-intensive care syndrome: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/38508699/) Anaesthesia. 2024 Mar 20.
180. Laporte LR, Chavez AVFG, Ranzani OT, Caldas J, Passos RDH, Ramos JGR. [Long-term outcomes for epidemic viral pneumonia survivors after discharge from the intensive care unit: a systematic review.](https://pubmed.ncbi.nlm.nih.gov/38477798/) Einstein (Sao Paulo). 2024 Feb;22(spe1):eRW0352
181. Bourne RS, Herridge MS, Burry LD. [Less inappropriate medication: first steps in medication optimization to improve post-intensive care patient recovery.](https://pubmed.ncbi.nlm.nih.gov/38635046/) Intensive Care Med. 2024 Apr 18.
182. Duong J, Wang G, Lean G, Slobod D, Goldfarb M. [Family-centered interventions and patient outcomes in the adult intensive care unit: A systematic review of randomized controlled trials.](https://pubmed.ncbi.nlm.nih.gov/38759579/) J Crit Care. 2024 May 16;83:154829
183. Samuels A, Sygal V, Burns KEA, Goldfarb M. [Recruitment and Retention Strategies for Randomized Clinical Trials Involving Family Members of ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/38912720/) Crit Care Explor. 2024 Jun 24;6(7):e1112
184. Matvienko-Sikar K, O'Shea J, Kennedy S, Thomas SD, Avery K, Byrne M, McHugh S, O' Connor DB, Saldanha IJ, Smith V, Toomey E, Dwan K, Kirkham JJ. [Selective outcome reporting in trials of behavioural health interventions in health psychology and behavioural medicine journals: a review.](https://pubmed.ncbi.nlm.nih.gov/38923431/) Health Psychol Rev. 2024 Jun 26:1-15
185. Oshima T, Hatakeyama J. [Nutritional therapy for the prevention of post-intensive care syndrome.](https://pubmed.ncbi.nlm.nih.gov/39075627/) J Intensive Care. 2024 Jul 29;12(1):29.
186. Chadda KR, Puthucheary Z. [Persistent inflammation, immunosuppression, and catabolism syndrome (PICS): a review of definitions, potential therapies, and research priorities.](https://pubmed.ncbi.nlm.nih.gov/38177003/) Br J Anaesth. 2024 Mar;132(3):507-518
187. Polcz VE, Barrios EL, Larson SD, Efron PA, Rincon JC. [Charting the course for improved outcomes in chronic critical illness: therapeutic strategies for persistent inflammation, immunosuppression, and catabolism syndrome (PICS).](https://pubmed.ncbi.nlm.nih.gov/38902117/) Br J Anaesth. 2024 Aug;133(2):260-263
188. Huang W, Gao Y, Zhou L, Xiao X, Xu H, Lu L, Deng J, Wu J. [Effects of ICU diaries on psychological disorders and sleep quality in critically ill patients and their family members: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/39137664/) Sleep Med. 2024 Oct;122:84-91
189. Hiser SL, Fatima A, Dinglas VD, Needham DM. [Updates on Post-Intensive Care Syndrome After Acute Respiratory Distress Syndrome: Epidemiology, Core Outcomes, Interventions, and Long-Term Follow-Up.](https://pubmed.ncbi.nlm.nih.gov/39443008/) Clin Chest Med. 2024 Dec;45(4):917-927
190. Honarmand et al [Long-Term Cognitive Function Among Critical Illness Survivors](https://www.criticalcare.theclinics.com/article/S0749-0704(24)00080-0/abstract?dgcid=raven_jbs_aip_email). Critical Care Clinics (2024) in press
191. Herbst et al [Multidisciplinary Team Approaches to Assessing and Addressing Post Intensive Care Syndrome](https://www.criticalcare.theclinics.com/article/S0749-0704(24)00072-1/abstract?dgcid=raven_jbs_aip_email). Critical Care Clinics (2024) in press
192. Su et al. [The Financial Impact of Post Intensive Care Syndrome](https://www.criticalcare.theclinics.com/article/S0749-0704(24)00076-9/abstract?dgcid=raven_jbs_aip_email). Critical Care Clinics (2024) in press
193. Leggett et al. [Care Transitions After Critical Illness](https://www.criticalcare.theclinics.com/article/S0749-0704(24)00085-X/abstract?dgcid=raven_jbs_aip_email). Critical Care Clinics (2024) in press
194. Smith et al. [Post-Intensive Care Syndrome Family](https://www.criticalcare.theclinics.com/article/S0749-0704(24)00081-2/abstract?dgcid=raven_jbs_aip_email).Critical Care Clinics (2024) in press
195. Hall-Melnychuk, Erin L. et al. [Post-Intensive Care Syndrome—Mental Health](https://www.criticalcare.theclinics.com/action/showCitFormats?doi=10.1016%2Fj.ccc.2024.08.005&pii=S0749-0704%2824%2900078-2). Critical Care Clinics (2024) in press
196. Thomas EM, Smith J, Curry A, Salsberry M, Ridgeway K, Hunt B, Desanto K, Falvey JR. [Association of physical function with hospital readmissions among older adults: A systematic review.](https://pubmed.ncbi.nlm.nih.gov/39494712/) J Hosp Med. 2024 Nov 4

## Guidelines

1. National Institute for Health and Clinical Excellence (NICE): Rehabilitation after critical illness. NICE Clinical Guideline No. 83, January 2009 <http://www.nice.org.uk/CG83>
2. Fan E, Cheek F, Chlan L, Gosselink R, Hart N, Herridge MS, Hopkins RO, Hough CL, Kress JP, Latronico N, Moss M, Needham DM, Rich MM, Stevens RD, Wilson KC, Winkelman C, Zochodne DW, Ali NA; ATS Committee on ICU-acquired Weakness in Adults. [An Official American Thoracic Society Clinical Practice Guideline: The Diagnosis of Intensive Care Unit-acquired Weakness in Adults.](http://www.ncbi.nlm.nih.gov/pubmed/25496103) Am J Respir Crit Care Med. 2014 Dec 15;190(12):1437-46

# Patients Experiences

## Research studies

1. Happ MB. [Interpretation of nonvocal behavior and the meaning of voicelessness in critical care.](http://www.ncbi.nlm.nih.gov/pubmed/10728845) Soc Sci Med. 2000 May;50(9):1247-55.
2. Misak CJ. [The critical care experience: a patient's view](http://www.ncbi.nlm.nih.gov/pubmed/15105165). Am J Respir Crit Care Med. 2004 Aug 15;170(4):357-9. Epub 2004 Apr 22. [free full text](http://ajrccm.atsjournals.org/cgi/content/full/170/4/357)
3. Sheen L, Oates J.: [A phenomenological study of medically induced unconsciousness in intensive care](http://www.ncbi.nlm.nih.gov/pubmed/18038531). Aust Crit Care. 2005 Feb;18 (1):25-9, 31-2
4. Johannson, Fjellmann-Wiklund (2005): [Ventilated patients experiences of body awareness at an intensive care unit](http://informahealthcare.com/doi/abs/10.1080/14038190500205808). Advances in Physiotherapy. 2005; 7: 154-161
5. Karlsson V, Forsberg V. [Health is yearning—–Experiences of being conscious during ventilator treatment in a critical care unit](http://www.ncbi.nlm.nih.gov/pubmed/17689082). Intensive and Critical Care Nursing (2008) 24, 41—50
6. Schou L, Egerod I (2008): [A qualitative study into the lived experience of post-CABG patients during mechanical ventilator weaning](http://www.ncbi.nlm.nih.gov/pubmed/18280735). Intensive and Critical Care Nursing 24, 171-179
7. Carroll SM. [Silent, slow lifeworld: the communication experience of nonvocal ventilated patients](http://www.ncbi.nlm.nih.gov/pubmed/17968034). Qual Health Res. 2007 Nov;17(9):1165-77.
8. Perrier E. [Intensive care](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1852036/?tool=pubmed). BMJ. 2007 Apr 14;334(7597):796-7. (link is free full text)
9. Cox CE, Docherty SL, Brandon DH, Whaley C, Attix DK, Clay AS, Dore DV, Hough CL, White DB, Tulsky JA. [Surviving critical illness: acute respiratory distress syndrome as experienced by patients and their caregivers](http://www.ncbi.nlm.nih.gov/pubmed/19865004). Crit Care Med. 2009 Oct;37(10):2702-8. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2771584/?tool=pubmed)
10. Lee CM, Herridge MS, Matte A, Cameron JI. [Education and support needs during recovery in acute respiratory distress syndrome survivors](http://www.ncbi.nlm.nih.gov/pubmed/19775467). Crit Care. 2009;13(5):R153. Epub 2009 Sep 23. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2784376/?tool=pubmed)
11. Tonelli MR, Misak CJ. [Compromised Autonomy and the Seriously Ill Patient](http://www.ncbi.nlm.nih.gov/pubmed/20371527). Chest 2010;137;926-931 [free full text](http://chestjournal.chestpubs.org/content/137/4/926.long)
12. Tanzman ES. Survivor. Ann Intern Med. 2010 Sep 21;153(6):416-7.
13. Misak CJ. ICU-Acquired Weakness: Obstacles and Interventions for Rehabilitation. Am J Respir Crit Care Med. 2011 Apr 1;183(7):845-6. Epub 2010 Oct 22.
14. Tate JA, Devito Dabbs A, Hoffman LA, Milbrandt E, Happ MB. [Anxiety and agitation in mechanically ventilated patients.](http://www.ncbi.nlm.nih.gov/pubmed/21908706) Qual Health Res. 2012 Feb;22(2):157-73.
15. Bienvenu OJ, Williams JB, Yang A, Hopkins RO, Needham DM. [Posttraumatic stress disorder in acute lung injury survivors: evaluating the Impact of Event Scale-Revised.](http://www.ncbi.nlm.nih.gov/pubmed/23699588) Chest. 2012 Nov 22. doi: 10.1378/chest.12-0908
16. Aitken LM, Rattray J, Hull A, Kenardy JA, Le Brocque R, Ullman AJ. [The use of diaries in psychological recovery from intensive care.](http://www.ncbi.nlm.nih.gov/pubmed/24351578) Crit Care. 2013 Dec 18;17(6):253. PubMed PMID: 24351578; PubMed Central PMCID: PMC4056894
17. Schelling G, Kapfhammer H-P. Surviving ICU does mean that the war is over. Editorial. Chest 144 July 1-3.
18. Pandian V, Smith CP, Cole TK, Bhatti NI, Mirski MA, Yarmus LB, Feller-Kopman DJ. [Optimizing Communication in Mechanically Ventilated Patients.](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4242093/?tool=myncbi) J Med Speech Lang Pathol. 2014;21(4):309-318
19. Rier DA. [From three sides now: reflections on an ICU journey as patient, parent, and researcher](http://www.ncbi.nlm.nih.gov/pubmed/24898894). Intensive Care Med. 2014 Aug;40(8):1162-3.
20. Fenn B. [Coma alarm dreams on paediatric intensive care](http://www.ncbi.nlm.nih.gov/pubmed/24711088). Intensive Care Med. 2014 Oct;40(10):1568-9.
21. Regensburg AM. Use of iPads by occupational therapists in a medical intensive care unit. Physical Disabilities Special Interest Section Quarterly Section. 2014; 37(3):1-3
22. Walker W, Wright J, Danjoux G, Howell SJ, Martin D, Bonner S. Project Post Intensive Care eXercise (PIX): A qualitative exploration of intensive care unit survivors’ perceptions of quality of life post-discharge and experience of exercise rehabilitation Journal of the Intensive Care Society 2014 doi:10.1177/1751143714554896
23. Czerwonka AI, Herridge MS, Chan L, Chu LM, Matte A, Cameron JI. [Changing support needs of survivors of complex critical illness and their family caregivers across the care continuum: A qualitative pilot study of Towards RECOVER](http://www.ncbi.nlm.nih.gov/pubmed/25466314). J Crit Care. 2015 Apr;30(2):242-9.
24. Sottile PD, Nordon-Craft A, Malone D, Schenkman M, Moss M. [Patient and family perceptions of physical therapy in the medical intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/26038155) J Crit Care. 2015 May 8. pii: S0883-9441(15)00266-X.
25. Wintermann GB, Brunkhorst FM, Petrowski K, Strauss B, Oehmichen F, Pohl M, Rosendahl J. [Stress disorders following prolonged critical illness in survivors of severe sepsis.](http://www.ncbi.nlm.nih.gov/pubmed/25760659) Crit Care Med. 2015 Jun;43(6):1213-22.
26. Whitehorne K, Gaudine A, Meadus R, Solberg S. [Lived Experience of the Intensive Care Unit for Patients Who Experienced Delirium.](http://www.ncbi.nlm.nih.gov/pubmed/26523004) Am J Crit Care. 2015 Nov;24(6):474-9.
27. Holm A, Dreyer P. [Intensive care unit patients' experience of being conscious during endotracheal intubation and mechanical ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/26178073) Nurs Crit Care. 2015 Jul 15.
28. Kok L, Hillegers MH, Veldhuijzen DS, Cornelisse S, Nierich AP, van der Maaten JM, Rosseel PM, Hofland J, Sep MS, Dieleman JM, Vinkers CH, Peelen LM, Joëls M, van Dijk D; Dexamethasone for Cardiac Surgery Study Group. [The Effect of Dexamethasone on Symptoms of Posttraumatic Stress Disorder and Depression After Cardiac Surgery and Intensive Care Admission: Longitudinal Follow-Up of a Randomized Controlled Trial.](http://www.ncbi.nlm.nih.gov/pubmed/26540396) Crit Care Med. 2015 Nov 4.
29. Prime D, Arkless P, Fine J, Winter S, Wakefield DB, Scatena R. [Patient experiences during awake mechanical ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/26908386) J Community Hosp Intern Med Perspect. 2016 Feb 17;6(1):30426.
30. Aitken LM, Castillo MI, Ullman A, Engström Å, Cunningham K, Rattray J. [What is the relationship between elements of ICU treatment and memories after discharge in adult ICU survivors?](http://www.ncbi.nlm.nih.gov/pubmed/26775552) Aust Crit Care. 2016 Feb;29(1):5-14.
31. Koszalinski RS, Tappen RM, Hickman C, Melhuish T. [Communication Needs of Critical Care Patients Who Are Voiceless.](http://www.ncbi.nlm.nih.gov/pubmed/27315366) Comput Inform Nurs. 2016 Jun 16.
32. Ramsay P, Huby G, Merriweather J, Salisbury L, Rattray J, Griffith D, Walsh T; RECOVER collaborators. [Patient and carer experience of hospital-based rehabilitation from intensive care to hospital discharge: mixed methods process evaluation of the RECOVER randomised clinical trial.](http://www.ncbi.nlm.nih.gov/pubmed/27481624) BMJ Open. 2016 Aug 1;6(8):e012041.
33. Van Rompaey B, Van Hoof A, van Bogaert P, Timmermans O, Dilles T. [The patient's perception of a delirium: A qualitative research in a Belgian intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/26612360) Intensive Crit Care Nurs. 2016 Feb;32:66-74.
34. Nadkarni NM. [After the Fall: The Tapestry of Disturbance and Recovery.](https://www.ncbi.nlm.nih.gov/pubmed/28098631) Crit Care Med. 2017 Feb;45(2):348-355
35. Rubin E. [How Acute Respiratory Distress Syndrome Changed My Life in a Split Second](https://healthmanagement.org/c/icu/issuearticle/from-independent-attorney-to-critically-ill-patient). [ICU Management & Practice](https://healthmanagement.org/c/icu/issue/110619) 2017 June
36. Laerkner E, Egerod I, Olesen F, Hansen HP. [A sense of agency: An ethnographic exploration of being awake during mechanical ventilation in the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/28704639) Int J Nurs Stud. 2017 Jun 30;75:1-9
37. Ferguson K, Bradley JM, McAuley DF, Blackwood B, O'Neill B. [Patients' Perceptions of an Exercise Program Delivered Following Discharge From Hospital After Critical Illness (the Revive Trial).](https://www.ncbi.nlm.nih.gov/pubmed/28826281) J Intensive Care Med. 2017 Jan 1:885066617724738.
38. Wåhlin I, Samuelsson P, Ågren S. [What do patients rate as most important when cared for in the ICU and how often is this met? - An empowerment questionnaire survey.](https://www.ncbi.nlm.nih.gov/pubmed/28364679) J Crit Care. 2017 Aug;40:83-90.
39. Cox CE, Hough CL, Carson SS, White DB, Kahn JM, Olsen MK, Jones DM, Somers TJ, Kelleher SA, Porter LS. [Effects of a Telephone- and Web-based Coping Skills Training Program Compared to an Education Program for Survivors of Critical Illness and Their Family Members: A Randomized Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/28872898) Am J Respir Crit Care Med. 2017 Sep 5. doi: 10.1164/rccm.201704-0720OC
40. Bashar FR, Vahedian-Azimi A, Hajiesmaeili M, Salesi M, Farzanegan B, Shojaei S, Goharani R, Madani SJ, Moghaddam KG, Hatamian S, Moghaddam HJ, Mosavinasab SMM, Elamin EM, Miller AC; MORZAK Collaborative. [Post-ICU psychological morbidity in very long ICU stay patients with ARDS and delirium.](https://www.ncbi.nlm.nih.gov/pubmed/28854401) J Crit Care. 2017 Aug 24;43:88-94
41. Daniel Haines, Johanna Hild, Jianghua He, et al., “[A Retrospective, Pilot Study of De Novo Antidepressant Medication Initiation in Intensive Care Unit Patients and Post-ICU Depression](https://www.hindawi.com/journals/ccrp/2017/5804860/cta/),” Critical Care Research and Practice, vol. 2017, Article ID 5804860, 5 pages, 2017. doi:10.1155/2017/5804860
42. Nedergaard HK, Haberlandt T, Reichmann PD, Toft P, Jensen HI. [Patients' opinions on outcomes following critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/29315454) Acta Anaesthesiol Scand. 2018 Apr;62(4):531-539
43. Wintermann GB, Rosendahl J, Weidner K, Strauß B, Hinz A, Petrowski K. [Self-reported fatigue following intensive care of chronically critically ill patients: a prospective cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/29744108) J Intensive Care. 2018 May 2;6:27
44. Riddersholm S, Christensen S, Kragholm K, Christiansen CF, Rasmussen BS. [Organ support therapy in the intensive care unit and return to work: a nationwide, register-based cohort study.](https://www.ncbi.nlm.nih.gov/pubmed/29616288) Intensive Care Med. 2018 Apr;44(4):418-427
45. Papathanassoglou EDE, Hadjibalassi M, Miltiadous P, Lambrinou E, Papastavrou E, Paikousis L, Kyprianou T. [Effects of an Integrative Nursing Intervention on Pain in Critically Ill Patients: A Pilot Clinical Trial.](https://www.ncbi.nlm.nih.gov/pubmed/29716903) Am J Crit Care. 2018 May;27(3):172-185
46. Hayhurst CJ, Jackson JC, Archer KR, Thompson JL, Chandrasekhar R, Hughes CG. [Pain and Its Long-term Interference of Daily Life After Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/29649027) Anesth Analg. 2018 Apr 11.
47. Berntzen H, Bjørk IT, Wøien H. ["Pain relieved, but still struggling"-Critically ill patients experiences of pain and other discomforts during analgosedation.](https://www.ncbi.nlm.nih.gov/pubmed/28618123) J Clin Nurs. 2018 Jan;27(1-2):e223-e234
48. Kang J, Jeong YJ. [Embracing the new vulnerable self: A grounded theory approach on critical care survivors' post-intensive care syndrome.](https://www.ncbi.nlm.nih.gov/pubmed/30193868) Intensive Crit Care Nurs. 2018 Sep 4.
49. Freeman-Sanderson A, Morris K, Elkins M. [Characteristics of patient communication and prevalence of communication difficulty in the intensive care unit: An observational study.](https://www.ncbi.nlm.nih.gov/pubmed/30348488) Aust Crit Care. 2018 Oct 19.
50. Corner EJ, Murray EJ, Brett SJ. [Qualitative, grounded theory exploration of patients' experience of early mobilisation, rehabilitation and recovery after critical illness.](https://www.ncbi.nlm.nih.gov/pubmed/30804034) BMJ Open. 2019 Feb 24;9(2):e026348
51. Major ME, van Nes F, Ramaekers S, Engelbert RHH, van der Schaaf M. [Survivors of Critical Illness and Their Relatives: A Qualitative Study on Hospital Discharge Experience.](https://www.ncbi.nlm.nih.gov/pubmed/31394924) Ann Am Thorac Soc. 2019 Aug 8
52. Jacques T, Ramnani A, Deshpande K, Kalfon P. [Perceived Discomfort in Patients admitted to Intensive Care (DETECT DISCOMFORT 1): a prospective observational study.](https://www.ncbi.nlm.nih.gov/pubmed/31142240) Crit Care Resusc. 2019 Jun;21(2):103-109
53. Vlake JH, van Genderen ME, Schut A, Verkade M, Wils EJ, Gommers D, van Bommel J. [Patients suffering from psychological impairments following critical illness are in need of information.](https://www.ncbi.nlm.nih.gov/pubmed/31938546) J Intensive Care. 2020 Jan 9;8:6
54. Castillo MI, Mitchell M, Davis C, Powell M, Le Brocque R, Ullman A, Wetzig K, Rattray J, Hull AM, Kenardy J, Aitken LM. [Feasibility and acceptability of conducting a partially randomised controlled trial examining interventions to improve psychological health after discharge from the intensive care unit.](https://www.ncbi.nlm.nih.gov/pubmed/32113735) Aust Crit Care. 2020 Feb 26
55. Heydon E, Wibrow B, Jacques A, Sonawane R, Anstey M. [The needs of patients with post-intensive care syndrome: A prospective, observational study.](https://pubmed.ncbi.nlm.nih.gov/31160217/?from_term=Heydon+E&from_cauthor_id=31160217&from_pos=1) Aust Crit Care. 2020 Mar;33(2):116-122.
56. Op 't Hoog SAJJ, Dautzenberg M, Eskes AM, Vermeulen H, Vloet LCM.[The experiences and needs of relatives of intensive care unit patients during the transition from the intensive care unit to a general ward: A qualitative study.](https://www.ncbi.nlm.nih.gov/pubmed/32089387) Aust Crit Care. 2020 Feb 20.
57. Savas H, Ozdemir Koken Z, Senol Celik S. [Experiences of adult extracorporeal membrane oxygenation patients following discharge: A mixed methods study.](https://pubmed.ncbi.nlm.nih.gov/32216973/?from_term=Savas+H&from_cauthor_id=32216973&from_pos=2) Heart Lung. 2020 Mar 23:S0147-9563(20)30096-0
58. Janssen DGA, Jonker J, van Dijk D, Heerdink ER, Egberts TCG, Slooter AJC. [Psychotropic medication use in former ICU patients with mental health problems: A prospective observational follow-up study.](https://pubmed.ncbi.nlm.nih.gov/32610245/) J Crit Care. 2020 Jun 9;59:112-117
59. Tronstad O, Flaws D, Lye I, Fraser JF, Patterson S. [Doing time in an Australian ICU; the experience and environment from the perspective of patients and family members.](https://pubmed.ncbi.nlm.nih.gov/32943306/) Aust Crit Care. 2021 May;34(3):254-262
60. Fernando SM, Qureshi D, Sood MM, Pugliese M, Talarico R, Myran DT, Herridge MS, Needham DM, Rochwerg B, Cook DJ, Wunsch H, Fowler RA, Scales DC, Bienvenu OJ, Rowan KM, Kisilewicz M, Thompson LH, Tanuseputro P, Kyeremanteng K. [Suicide and self-harm in adult survivors of critical illness: population based cohort study.](https://pubmed.ncbi.nlm.nih.gov/33952509/) BMJ. 2021 May 5;373:n973.
61. Karnatovskaia LV, Schultz JM, Niven AS, Steele AJ, Baker BA, Philbrick KL, Del Valle KT, Johnson KR, Gajic O, Varga K. [System of Psychological Support Based on Positive Suggestions to the Critically Ill Using ICU Doulas.](https://pubmed.ncbi.nlm.nih.gov/33912833/) Crit Care Explor. 2021 Apr 26;3(4):e0403
62. Karnatovskaia LV, Varga K, Niven AS, Schulte PJ, Mujic M, Gajic O, Bauer BA, Clark MM, Benzo RP, Philbrick KL. [A pilot study of trained ICU doulas providing early psychological support to critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/34930440/) Crit Care. 2021 Dec 20;25(1):446
63. Jacquier, S., Nay, M. A., Muller, G., Muller, L., Mathonnet, A., Lefèvre-Benzekri, D., Bretagnol, A., Barbier, F., Kamel, T., Runge, I., Skarzynski, M., Sauvage, B., & Boulain, T. (2022). [Effect of a Musical Intervention During the Implantation of a Central Venous Catheter or a Dialysis Catheter in the Intensive Care Unit: A Prospective Randomized Pilot Study.](https://doi.org/10.1213/ANE.0000000000005696) *Anesthesia and analgesia*, *134*(4), 781–790.
64. van Willigen Z, Ostler C, Thackray D, Cusack R.. [Patient and family experience of physical rehabilitation on the intensive care unit: a qualitative exploration](1.%09https:/pubmed.ncbi.nlm.nih.gov/32317118). Physiotherapy 2020 Dec;109:102-110
65. Pilowsky JK, Elliott R, Roche MA. [Association Between Preexisting Mental Health Disorders and Adverse Outcomes in Adult Intensive Care Patients: A Data Linkage Study.](https://pubmed.ncbi.nlm.nih.gov/36752617/) Crit Care Med. 2023 Feb 8
66. Zhou H, Wu X, Yu L. [The comforting companion: using AI to bring loved one's voices to newborns, infants, and unconscious patients in ICU.](https://pubmed.ncbi.nlm.nih.gov/37024968/) Crit Care. 2023 Apr 6;27(1):135
67. Sayde GE, Prince E. [ICU Survivors of Self-Harm: A Call for Follow-Through.](https://pubmed.ncbi.nlm.nih.gov/37031976/) Chest. 2023 Apr;163(4):738-739
68. Knutsen K, Solbakken R, Gallagher S, Müller RT, Normann B. [Patients' experiences with early rehabilitation in intensive care units: A qualitative study about aspects that influence their participation.](https://pubmed.ncbi.nlm.nih.gov/37962126/) J Adv Nurs. 2023 Nov 14
69. Bruder AL, Gururaja A, Narayani N, Kleinpell R, Schlesinger JJ. [Patients' Perceptions of Virtual Live Music in the Intensive Care Unit.](https://pubmed.ncbi.nlm.nih.gov/38161170/) Am J Crit Care. 2024 Jan 1;33(1):54-59
70. Knutsen K, Solbakken R, Gallagher S, Müller RT, Normann B. [Patients' experiences with early rehabilitation in intensive care units: A qualitative study about aspects that influence their participation.](https://pubmed.ncbi.nlm.nih.gov/37962126/) J Adv Nurs. 2024 May;80(5):1984-1996.

## Reviews

1. Cook DJ, Meade MO, Perry AG. [Qualitative studies on the patient's experience of weaning from mechanical ventilation](http://www.ncbi.nlm.nih.gov/pubmed/11742967). Chest. 2001 Dec;120(6 Suppl):469S-73S. [free full text](http://chestjournal.chestpubs.org/content/120/6_suppl/469S.long)
2. Carroll SM. [Nonvocal ventilated patients perceptions of being understood](http://www.ncbi.nlm.nih.gov/pubmed/14984652). West J Nurs Res. 2004 Feb;26(1):85-103
3. Curtis JR, White DB. [Practical guidance for evidence-based ICU family conferences](http://www.ncbi.nlm.nih.gov/pubmed/18842916). Chest. 2008 Oct;134(4):835-43. [free full text](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2628462/?tool=pubmed)
4. Darbyshire JL, Greig PR, Vollam S, Young JD, Hinton L.["I Can Remember Sort of Vivid People…but to Me They Were Plasticine." Delusions on the Intensive Care Unit: What Do Patients Think Is Going On?](http://www.ncbi.nlm.nih.gov/pubmed/27096605) PLoS One. 2016 Apr 20;11(4):e0153775.
5. Ten Hoorn S, Elbers PW, Girbes AR, Tuinman PR. [Communicating with conscious and mechanically ventilated critically ill patients: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/27756433) Crit Care. 2016 Oct 19;20(1):333.
6. Wade DF, Moon Z, Windgassen SS, Harrison AM, Morris L, Weinman JA. [Non-pharmacological interventions to reduce ICU-related psychological distress: a systematic review.](https://www.ncbi.nlm.nih.gov/pubmed/26505225) Minerva Anestesiol. 2016 Apr;82(4):465-78
7. Barreto BB, Luz M, Rios MNO, Lopes AA, Gusmao-Flores D. [The impact of intensive care unit diaries on patients' and relatives' outcomes: a systematic review and meta-analysis.](https://www.ncbi.nlm.nih.gov/pubmed/31842929) Crit Care. 2019 Dec 16;23(1):411
8. Gaete Ortega D, Papathanassoglou E, Norris CM. [The lived experience of delirium in intensive care unit patients: A meta-ethnography.](https://www.ncbi.nlm.nih.gov/pubmed/30871853) Aust Crit Care. 2020 Mar;33(2):193-202
9. Nin Vaeza N, Martin Delgado MC, Heras La Calle G. [Humanizing Intensive Care: Toward a Human-Centered Care ICU Model.](https://www.ncbi.nlm.nih.gov/pubmed/32058373) Crit Care Med. 2020 Mar;48(3):385-390.
10. Hossain MM, Sultana A, Purohit N. [Mental health outcomes of quarantine and isolation for infection prevention: A systematic umbrella review of the global evidence.](https://pubmed.ncbi.nlm.nih.gov/32512661/) Epidemiol Health. 2020 Jun 2:e2020038.
11. van Oorsouw R, Oerlemans A, van Oorsouw G, van den Boogaard M, van der Wees P, Koenders N. [Patients' lived body experiences in the intensive care unit and beyond - a meta-ethnographic synthesis.](https://pubmed.ncbi.nlm.nih.gov/37498170/) Physiother Theory Pract. 2023 Jul 27:1-33
12. Zhang H, Sheng Y, Yu C, Cheng Q. [Understanding the needs and perceptions of early mobilization for critically ill patients: A systematic review of qualitative studies.](https://pubmed.ncbi.nlm.nih.gov/38029676/) Intensive Crit Care Nurs. 2023 Nov 28;81:103584

## Guidelines

1. National Institute for Health and Clinical Excellence (NICE): Rehabilitation after critical illness. NICE Clinical Guideline No. 83, January 2009 <http://www.nice.org.uk/CG83>

# Relatives & Families

## Research studies

1. Jones C, Skirrow P, Griffins RD et al. [Post-traumatic stress disorder-related symptoms in relatives of patients following intensive care](http://www.ncbi.nlm.nih.gov/pubmed/14767589). Intensive Care Medicine 2004; 30:456-60
2. Melnyk BM, Alpert-Gillis L, Feinstein NF et al. [Creating opportunities for parent empowerment: program effects on the mental health/coping outcomes of critically ill young children and their mothers](http://www.ncbi.nlm.nih.gov/pubmed/15173543). Pediatrics 2004; 113: e597-607
3. Azoulay E, Pochard F, Kentish-Barnes N et al. [Risk of post-traumatic stress symptoms in family members of intensive care unit patients](http://www.ncbi.nlm.nih.gov/pubmed/15665319).AJRCCM 2005; 171: 987-94 [free full text](http://ajrccm.atsjournals.org/cgi/content/full/171/9/987)
4. Lautrette A, Darmon M, Megarbane B et al.  [A communication strategy and brochure for relatives of patients dying in the ICU](http://www.ncbi.nlm.nih.gov/pubmed/17267907). N Eng J Med 2007; 356:469-78. [Erratum appears in N Eng J Med 2007; 357:203] [free full text](http://www.nejm.org/doi/full/10.1056/NEJMoa063446#t=article)
5. Siegel MD, Hayes E, Vanderwerker LC et al. [Psychiatric illness in the next of kin of patients who die in the intensive care unit](http://www.ncbi.nlm.nih.gov/pubmed/18520637). Crit Care Med 2008; 36:1722-8
6. Davidson JE, Daly BJ, Agan D et al. [Facilitated sensemaking: a feasibility study for the provision of a family support program in the intensive care unit](http://www.ncbi.nlm.nih.gov/pubmed/20234207). Critical Care Nursing Quarterly 2010; 33:177-189
7. Pape TL, Rosenow JM, Steiner M, Parrish T, Guernon A, Harton B, Patil V, Bhaumik DK, McNamee S, Walker M, Froehlich K, Burress C, Odle C, Wang X, Herrold AA, Zhao W, Reda D, Mallinson T, Conneely M, Nemeth AJ. [Placebo-Controlled Trial of Familiar Auditory Sensory Training for Acute Severe Traumatic Brain Injury: A Preliminary Report. Neurorehabil](http://www.ncbi.nlm.nih.gov/pubmed/25613986) Neural Repair. 2015 Jan 22
8. Petrinec AB, Mazanec PM, Burant CJ, Hoffer A, Daly BJ. [Coping Strategies and Posttraumatic Stress Symptoms in Post-ICU Family Decision Makers.](http://www.ncbi.nlm.nih.gov/pubmed/25785520) Crit Care Med. 2015 Mar 17
9. Sottile PD, Nordon-Craft A, Malone D, Schenkman M, Moss M. [Patient and family perceptions of physical therapy in the medical intensive care unit.](http://www.ncbi.nlm.nih.gov/pubmed/26038155) J Crit Care. 2015 May 8.
10. Petrinec AB, Mazanec PM, Burant CJ, Hoffer A, Daly BJ. [Coping Strategies and Posttraumatic Stress Symptoms in Post-ICU Family Decision Makers.](http://www.ncbi.nlm.nih.gov/pubmed/25785520) Crit Care Med. 2015 Jun;43(6):1205-12.
11. Andresen M, Guic E, Orellana A, Diaz MJ, Castro R. [Posttraumatic stress disorder symptoms in close relatives of intensive care unit patients: Prevalence data resemble that of earthquake survivors in Chile.](http://www.ncbi.nlm.nih.gov/pubmed/26197780) J Crit Care. 2015 Jun 26.
12. van Beusekom I, Bakhshi-Raiez F, de Keizer NF, Dongelmans DA, van der Schaaf M. [Reported burden on informal caregivers of ICU survivors: a literature review.](http://www.ncbi.nlm.nih.gov/pubmed/26792081) Crit Care. 2016 Jan 21;20(1):16.
13. Nadig N, Huff NG, Cox CE, Ford DW. [Coping as a Multifaceted Construct: Associations With Psychological Outcomes Among Family Members of Mechanical Ventilation Survivors.](http://www.ncbi.nlm.nih.gov/pubmed/27065467) Crit Care Med. 2016 Apr 8.
14. Sottile PD, Lynch Y, Mealer M, Moss M. [Association Between Resilience and Family Member Psychologic Symptoms in Critical Illness.](http://www.ncbi.nlm.nih.gov/pubmed/27097294) Crit Care Med. 2016 Apr 19.
15. Petrinec AB, Mazanec PM, Burant CJ, Hoffer A, Daly BJ. [Coping Strategies and Posttraumatic Stress Symptoms in Post-ICU Family Decision Makers.](http://www.ncbi.nlm.nih.gov/pubmed/25785520) Crit Care Med. 2015 Jun;43(6):1205-12.
16. van den Born–van Zanten, Sascha A.; Dongelmans, Dave A.; Dettling-Ihnenfeldt, Daniela; Vink, Roel; van der Schaaf, Marike Caregiver strain and posttraumatic stress symptoms of informal caregivers of intensive care unit survivors. Rehabilitation Psychology, Vol 61(2), May 2016, 173-178
17. Cameron JI, Chu LM, Matte A, Tomlinson G, Chan L, Thomas C, Friedrich JO, Mehta S, Lamontagne F, Levasseur M, Ferguson ND, Adhikari NK, Rudkowski JC, Meggison H, Skrobik Y, Flannery J, Bayley M, Batt J, dos Santos C, Abbey SE, Tan A, Lo V, Mathur S, Parotto M, Morris D, Flockhart L, Fan E, Lee CM, Wilcox ME, Ayas N, Choong K, Fowler R, Scales DC, Sinuff T, Cuthbertson BH, Rose L, Robles P, Burns S, Cypel M, Singer L, Chaparro C, Chow CW, Keshavjee S, Brochard L, Hébert P, Slutsky AS, Marshall JC, Cook D, Herridge MS; RECOVER Program Investigators (Phase 1: towards RECOVER); Canadian Critical Care Trials Group. [One-Year Outcomes in Caregivers of Critically Ill Patients.](http://www.ncbi.nlm.nih.gov/pubmed/27168433) N Engl J Med. 2016 May 12;374(19):1831-41.
18. Burns KE, Jacob SK, Aguirre V, Gomes J, Mehta S, Rizvi L. [Stakeholder Engagement in Trial Design: Survey of Visitors to Critically Ill Patients Regarding Preferences for Outcomes and Treatment Options during Weaning from Mechanical Ventilation.](http://www.ncbi.nlm.nih.gov/pubmed/27598009) Ann Am Thorac Soc. 2016
19. Mistraletti G, Umbrello M, Mantovani ES, Moroni B, Formenti P, Spanu P, Anania S, Andrighi E, Di Carlo A, Martinetti F, Vecchi I, Palo A, Pinna C, Russo R, Francesconi S, Valdambrini F, Ferretti E, Radeschi G, Bosco E, Malacarne P, Iapichino G; <http://www.intensiva.it> Investigators.. [A family information brochure and dedicated website to improve the ICU experience for patients' relatives: an Italian multicenter before-and-after study.](https://www.ncbi.nlm.nih.gov/pubmed/27830281) Intensive Care Med. 2016 Nov 9.
20. Butler JM, Hirshberg EL, Hopkins RO, Wilson EL, Orme JF, Beesley SJ, Kuttler K, Brown SM. [Preliminary Identification of Coping Profiles Relevant to Surrogate Decision Making in the ICU.](https://www.ncbi.nlm.nih.gov/pubmed/27835704) PLoS One. 2016 Nov 11;11(11):e0166542.
21. Eghbali-Babadi M, Shokrollahi N, Mehrabi T. [Effect of Family-Patient Communication on the Incidence of Delirium in Hospitalized Patients in Cardiovascular Surgery ICU.](https://www.ncbi.nlm.nih.gov/pubmed/28904548) Iran J Nurs Midwifery Res. 2017 Jul-Aug;22(4):327-331
22. Lewis CL, Taylor JZ. [Impact of prior ICU experience on ICU patient family members' psychological distress: A descriptive study.](https://www.ncbi.nlm.nih.gov/pubmed/29033252) Intensive Crit Care Nurs. 2017 Dec;43:129-135.
23. Ågren S, Eriksson A, Fredrikson M, Hollman-Frisman G, Orwelius L. [The health promoting conversations intervention for families with a critically ill relative: A pilot study.](https://www.ncbi.nlm.nih.gov/pubmed/29731406) Intensive Crit Care Nurs. 2018 May 3.
24. Rosa RG, Falavigna M, Robinson CC, da Silva DB, Kochhann R, de Moura RM, Santos MMS, Sganzerla D, Giordani NE, Eugênio C, Ribeiro T, Cavalcanti AB, Bozza F, Azevedo LCP, Machado FR, Salluh JIF, Pellegrini JAS, Moraes RB, Hochegger T, Amaral A, Teles JMM, da Luz LG, Barbosa MG, Birriel DC, Ferraz IL, Nobre V, Valentim HM, Corrêa E Castro L, Duarte PAD, Tregnago R, Barilli SLS, Brandão N, Giannini A, Teixeira C; ICU Visits Study Group Investigators and the BRICNet. [Study protocol to assess the effectiveness and safety of a flexible family visitation model for delirium prevention in adult intensive care units: a cluster-randomised, crossover trial (The ICU Visits Study).](https://www.ncbi.nlm.nih.gov/pubmed/29654049) BMJ Open. 2018 Apr 13;8(4):e021193
25. Mailhot T, Cossette S, Côté J, Bourbonnais A, Côté MC, Lamarche Y, Denault A. [A post cardiac surgery intervention to manage delirium involving families: a randomized pilot study.](https://www.ncbi.nlm.nih.gov/pubmed/28371230) Nurs Crit Care. 2017 Jul;22(4):221-228
26. Bell SK, Roche SD, Mueller A, Dente E, O'Reilly K, Sarnoff Lee B, Sands K, Talmor D, Brown SM. [Speaking up about care concerns in the ICU: patient and family experiences, attitudes and perceived barriers.](https://www.ncbi.nlm.nih.gov/pubmed/30002146) BMJ Qual Saf. 2018 Jul 12. pii: bmjqs-2017-007525
27. Alfheim HB, Småstuen MC, Hofsø K, Tøien K, Rosseland LA, Rustøen T. [**Quality** of **life** in family caregivers of patients in the intensive care unit: A longitudinal study.](https://www.ncbi.nlm.nih.gov/pubmed/30503245) Aust Crit Care. 2018 Nov 29. pii: S1036-7314(18)30165-6
28. Wendlandt B, Ceppe A, Choudhury S, Cox CE, Hanson LC, Danis M, Tulsky JA, Nelson JE, Carson SS. [Modifiable elements of ICU supportive care and communication are associated with surrogates' PTSD symptoms.](https://www.ncbi.nlm.nih.gov/pubmed/30790028) Intensive Care Med. 2019 Feb 21. doi: 10.1007/s00134-019-05550-z
29. Choi J, Son YJ, Tate JA. [Exploring positive aspects of caregiving in family caregivers of adult icu survivors from ICU to four months post-ICU discharge.](https://www.ncbi.nlm.nih.gov/pubmed/31521339) Heart Lung. 2019 Sep 11. pii: S0147-9563(19)30486-8
30. Strathdee SA, Hellyar M, Montesa C, Davidson JE. [The Power of Family Engagement in Rounds: An Exemplar With Global Outcomes.](https://www.ncbi.nlm.nih.gov/pubmed/31575590) Crit Care Nurse. 2019 Oct;39(5):14-20
31. Alfheim HB, Småstuen MC, Hofsø K, Tøien K, Rosseland LA, Rustøen T. [Quality of life in family caregivers of patients in the intensive care unit: A longitudinal study.](https://www.ncbi.nlm.nih.gov/pubmed/30503245) Aust Crit Care. 2019 Nov;32(6):479-485
32. Jeon SH, Stepner M, Rotermann M, Fransoo R, Sanmartin C, Scales DC, Wunsch H, Iwashyna TJ, Garland A. [Effects of Cardiovascular Health Shocks on Spouses' Work and Earnings: A National Study.](https://www.ncbi.nlm.nih.gov/pubmed/31935200) Med Care. 2020 Feb;58(2):128-136
33. Nielsen AH, Angel S, Egerod I, Lund TH, Renberg M, Hansen TB. [The effect of family-authored diaries on posttraumatic stress disorder in intensive care unit patients and their relatives: A randomised controlled trial (DRIP-study).](https://www.ncbi.nlm.nih.gov/pubmed/30795978) Aust Crit Care. 2020 Mar;33(2):123-129.
34. Wang S, Xin HN, Chung Lim Vico C, Liao JH, Li SL, Xie NM, Hu RF. [Effect of an ICU diary on psychiatric disorders, quality of life, and sleep quality among adult cardiac surgical ICU survivors: a randomized controlled trial.](https://pubmed.ncbi.nlm.nih.gov/32143655/?from_term=Hu+RF&from_cauthor_id=32143655&from_pos=1) Crit Care. 2020 Mar 6;24(1):81
35. Parker AM, Nelliot A, Chessare CM, Malik AM, Koneru M, Hosey MM, Ozok AA, Lyons KD, Needham DM. [Usability and acceptability of a mobile application prototype for a combined behavioural activation and physical rehabilitation intervention in acute respiratory failure survivors.](https://pubmed.ncbi.nlm.nih.gov/32340769/?from_term=Parker+AM&from_cauthor_id=32340769&from_pos=2) Aust Crit Care. 2020 Apr 24:S1036-7314(20)30055-2
36. Schneeberger A, Brandstetter S, Bein T, Blecha S, Apfelbacher C. [Stressors and strains of next of kin of patients with ARDS in intensive care: A qualitative interview study using a stress-strain approach.](https://pubmed.ncbi.nlm.nih.gov/31882326/?from_term=Brandstetter+S&from_cauthor_id=31882326&from_pos=5) Intensive Crit Care Nurs. 2020 Apr;57:102783
37. Valsø Å, Rustøen T, Skogstad L, Schou-Bredal I, Ekeberg Ø, Småstuen MC, Myhren H, Sunde K, Tøien K. [Post-traumatic stress symptoms and sense of coherence in proximity to intensive care unit discharge.](https://pubmed.ncbi.nlm.nih.gov/31418993/?from_term=Vals%C3%B8+%C3%85&from_cauthor_id=31418993&from_pos=1) Nurs Crit Care. 2020 Mar;25(2):117-125.
38. Harlan EA, Miller J, Costa DK, Fagerlin A, Iwashyna TJ, Chen EP, Lipman K, Valley TS. [Emotional experiences and coping strategies of family members of critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/32454044/) Chest. 2020 May 23:S0012-3692(20)31505-1.
39. Hochendoner SJ, Villa G, Sokol E, Levy MM, Aliotta JM, Timothy H Amass SJ. [Correlation Between Restraint Use and Engaging Family Members in the Care of ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/33196047/) Crit Care Explor. 2020 Nov 5;2(11):e0255
40. van Sleeuwen D, van de Laar F, Geense W, van den Boogaard M, Zegers M. [Health problems among family caregivers of former intensive care unit (ICU) patients: an interview study.](https://pubmed.ncbi.nlm.nih.gov/32843332/) BJGP Open. 2020 Oct 27;4(4):bjgpopen20X101061
41. Greenberg JA, Basapur S, Quinn TV, Bulger JL, Glover CM, Shah RC. [Psychological Symptoms Among Surrogates of Critically Ill Patients During and Before the COVID-19 Pandemic.](https://pubmed.ncbi.nlm.nih.gov/33444615/) Chest. 2021 Jan 11:S0012-3692(21)00043-X
42. Nadig NR, Sterba KR, Simpson AN, Ruggiero KJ, Hough CT, Goodwin AJ, White K, Ford DW. [Psychological Outcomes in Family Members of Acute Respiratory Failure Patients: Does Inter-ICU Transfer Play a Role?](https://pubmed.ncbi.nlm.nih.gov/33753046/) Chest. 2021 Mar 19:S0012-3692(21)00511-0.
43. Wendlandt B, Chen YT, Lin FC, Toles M, Gaynes B, Hanson L, Carson S. [Posttraumatic Stress Disorder Symptom Trajectories in ICU Family Caregivers.](https://pubmed.ncbi.nlm.nih.gov/33912839/) Crit Care Explor. 2021 Apr 26;3(4):e0409
44. Sevin CM, Boehm LM, Hibbert E, Bastin AJ, Jackson JC, Meyer J, Quasim T, Bakhru RN, Montgomery-Yates A, Slack A, Still M, Netzer G, Mikkelsen ME, Iwashyna TJ, Haines KJ, McPeake J. [Optimizing Critical Illness Recovery: Perspectives and Solutions From the Caregivers of ICU Survivors.](https://pubmed.ncbi.nlm.nih.gov/34079948/) Crit Care Explor. 2021 May 12;3(5):e0420
45. Poulin TG, Krewulak KD, Rosgen BK, Stelfox HT, Fiest KM, Moss SJ. [The impact of patient delirium in the intensive care unit: patterns of anxiety symptoms in family caregivers.](https://pubmed.ncbi.nlm.nih.gov/34740349/) BMC Health Serv Res. 2021 Nov 5;21(1):1202
46. O'Meara A, Akande M, Yagiela L, Hummel K, Whyte-Nesfield M, Michelson KN, Radman M, Traube C, Manning JC, Hartman ME. [Family Outcomes After the Pediatric Intensive Care Unit: A Scoping Review.](https://pubmed.ncbi.nlm.nih.gov/34919003/) J Intensive Care Med. 2021 Dec 17
47. Chen, H. H., Lin, C. H., Wu, C. L., & Chao, W. C. (2022). [Incidence and risk factors of mental illness among the spouses of patients with sepsis: a population-based cohort study](https://doi.org/10.1007/s00134-022-06624-1). *Intensive care medicine*, *48*(3), 369–371.
48. Moss, S. J., Rosgen, B. K., Lucini, F., Krewulak, K. D., Soo, A., Doig, C. J., Patten, S. B., Stelfox, H. T., & Fiest, K. M. (2022). [Psychiatric Outcomes in ICU Patients With Family Visitation: A Population-Based Retrospective Cohort Study.](https://doi.org/10.1016/j.chest.2022.02.051) *Chest*, S0012-3692(22)00419-6.
49. Hetland BD, McAndrew NS, Kupzyk KA, Krutsinger DC, Turnbull AE, Pozehl BJ, Heusinkvelt JM. [Relationships among Demographic, Clinical, and Psychological Factors Associated with Family Caregiver Readiness to Participate in ICU Care.](https://pubmed.ncbi.nlm.nih.gov/35649201/) Ann Am Thorac Soc. 2022 Jun 1
50. Greenberg JA, Basapur S, Quinn TV, Bulger JL, Schwartz NH, Oh SK, Ritz EM, Glover CM, Shah RC. [Daily Written Care Summaries for Families of Critically Ill Patients: A Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/35607975/) Crit Care Med. 2022 May 23.
51. Mohsen S, Moss SJ, Lucini F, Krewulak KD, Stelfox HT, Niven DJ, Sauro KM, Fiest KM. [Impact of Family Presence on Delirium in Critically Ill Patients: A Retrospective Cohort Study.](https://pubmed.ncbi.nlm.nih.gov/36044306/) Crit Care Med. 2022 Aug 31
52. Zhang Q, Knies AK, Pach J, Kimbrough T, Martinez A, Juthani P, Tu S, Monin JK, Vranceanu AM, Hwang DY. [Psychological Attachment Orientation and Long-Term Posttraumatic Stress Symptoms Among Family Members of ICU Patients.](https://pubmed.ncbi.nlm.nih.gov/36050994/) Crit Care Explor. 2022 Aug 29;4(9):e0753
53. Carlton EF, Moniz MH, Scott JW, Prescott HC, Becker NV. [Financial outcomes after pediatric critical illness among commercially insured families.](https://pubmed.ncbi.nlm.nih.gov/37291638/) Crit Care. 2023 Jun 8;27(1):227
54. Soleimani M, Tansaz Z, Kheirollahi N, Babamohamadi H. [The effect of a family-based participatory care program on anxiety in patients with acute coronary syndrome in coronary care units: A randomised controlled clinical trial.](https://pubmed.ncbi.nlm.nih.gov/35618611/) Aust Crit Care. 2023 Jul;36(4):565-572
55. Ahlberg M, Persson C, Berterö C, Ågren S. [Exploring family functioning and - hardiness in families' experiencing adult intensive care - A cross-sectional study.](https://pubmed.ncbi.nlm.nih.gov/37410758/) PLoS One. 2023 Jul 6;18(7):e0288149
56. Mukpradab S, Cussen J, Ranse K, Songwathana P, Marshall AP. [Healthcare professionals perspectives on feasibility and acceptability of family engagement in early mobilisation for adult critically ill patients: A descriptive qualitative study.](https://pubmed.ncbi.nlm.nih.gov/36924051/) J Clin Nurs. 2023 Sep;32(17-18):6574-6584.
57. Kang J. [Being devastated by critical illness journey in the family: A grounded theory approach of post-intensive care syndrome-family.](https://pubmed.ncbi.nlm.nih.gov/37167839/) Intensive Crit Care Nurs. 2023 Oct;78:103448
58. Dijkstra BM, Felten-Barentsz KM, van der Valk MJM, van der Hoeven JG, Schoonhoven L, Vloet LCM. [Exploring patients' and relatives' needs and perceptions regarding family participation in essential care in the intensive care unit: A qualitative study.](https://pubmed.ncbi.nlm.nih.gov/37598505/) Intensive Crit Care Nurs. 2023 Dec;79:103525
59. Ahmad SR, Rhudy L, Fogelson LA, LeMahieu AM, Barwise AK, Gajic O, Karnatovskaia LV. [Humanizing the Intensive Care Unit: Perspectives of Patients and Families on the Get to Know Me Board.](https://pubmed.ncbi.nlm.nih.gov/37736130/) J Patient Exp. 2023 Sep 18;10:23743735231201228
60. Haack TDSR, Rosa RG, Teixeira C, Sganzerla D, Robinson CC, Eugênio CS, Magalhães CR. [Does an educational website improve psychological outcomes and satisfaction among family members of intensive care unit patients?](https://pubmed.ncbi.nlm.nih.gov/37712727/) Crit Care Sci. 2023 Mar 1;35(1):31-36
61. Dijkstra BM, Rood PJT, Teerenstra S, Rutten AMF, Leerentveld C, Burgers-Bonthuis DC, Festen-Spanjer B, Klarenbeek T, Van Den Boogaard M, Ewalds E, Schoonhoven L, Van Der Hoeven JG, Vloet LCM; from the EFfect of FAMily PARTicipation in essential care (EFFAMPART) Study Group. [Effect of a Standardized Family Participation Program in the ICU: A Multicenter Stepped-Wedge Cluster Randomized Controlled Trial.](https://pubmed.ncbi.nlm.nih.gov/37934138/) Crit Care Med. 2023 Nov 7
62. Boerenbeker P, Brandén AS, Chaboyer W, Hilli Y, Johansson L. [Family member's experiences with and evaluation of an ICU Liaison Nurse Service: A qualitative study.](https://pubmed.ncbi.nlm.nih.gov/35396916/) Nurs Crit Care. 2023 Nov;28(6):854-862
63. Hoffmann M, Jeitziner MM, Riedl R, Mueller G, Peer A, Bachlechner A, Heindl P, Burgsteiner H, Schefold JC, von Lewinski D, Eller P, Pieber T, Sendlhofer G, Amrein K. [Effects of an online information tool on post-traumatic stress disorder in relatives of intensive care unit patients: a multicenter double-blind, randomized, placebo-controlled trial (ICU-Families-Study).](https://pubmed.ncbi.nlm.nih.gov/37870597/) Intensive Care Med. 2023 Nov;49(11):1317-1326
64. van Mol MMC, Tummers N, Leerentveld C, Tieben R, Buise M. [The usability of a digital diary from the perspectives of intensive care patients' relatives: A pilot study.](https://pubmed.ncbi.nlm.nih.gov/37897098/) Nurs Crit Care. 2023 Oct 27
65. Wendlandt B, Edwards T, Hughes S, Gaynes BN, Carson SS, Hanson LC, Toles M. [Novel Definitions of Wellness and Distress among Family Caregivers of Patients with Acute Cardiorespiratory Failure: A Qualitative Study.](https://pubmed.ncbi.nlm.nih.gov/38285875/) Ann Am Thorac Soc. 2024 Jan 29.
66. Kentish-Barnes N, Azoulay E, Reignier J, Cariou A, Lafarge A, Huet O, Gargadennec T, Renault A, Souppart V, Clavier P, Dilosquer F, Leroux L, Légé S, Renet A, Brumback LC, Engelberg RA, Pochard F, Resche-Rigon M, Curtis JR. [A randomised controlled trial of a nurse facilitator to promote communication for family members of critically ill patients.](https://pubmed.ncbi.nlm.nih.gov/38573403/) Intensive Care Med. 2024 Apr 4
67. Belser T, Exl MT, Nydahl P, Zumstein-Shaha M, Jeitziner MM. [Experiences of parents visiting an adult family member in the intensive care unit accompanied by their underaged children: A qualitative study.](https://pubmed.ncbi.nlm.nih.gov/38631938/) Aust Crit Care. 2024 Apr 17:S1036-7314(24)00033-X
68. Vasher ST, Lin FC, Carson SS, Wendlandt B. [Social Support Mediates the 6-Month Mental Health-related Quality of Life of Intensive Care Unit Caregivers with Depressive Symptoms.](https://pubmed.ncbi.nlm.nih.gov/38335008/) Ann Am Thorac Soc. 2024 May;21(5):841-844
69. Andersen SK, Chang CH, Arnold RM, Pidro C, Darby JM, Angus DC, White DB; Pairing Re-engineered Intensive Care Teams with Nurse-driven Emotional Support, Relationship building (PARTNER) Investigators. [Impact of a family support intervention on hospitalization costs and hospital readmissions among ICU patients at high risk of death or severe functional impairment.](https://pubmed.ncbi.nlm.nih.gov/38954149/) Ann Intensive Care. 2024 Jul 2;14(1):103
70. Cussen J, Mukpradab S, Tobiano G, Haines KJ, O'Connor L, Marshall AP. [Exploring critically ill patients' functional recovery through family partnerships: A descriptive qualitative study.](https://pubmed.ncbi.nlm.nih.gov/39107155/) Aust Crit Care. 2024 Aug 5:S1036-7314(24)00120-6
71. Mukpradab S, Ireland M, Tobiano G, Ranse K, Coyer F, Sosnowski K, Heyland DK, Marshall AP. [Psychometric Testing of an Instrument Assessing Family Knowledge, Contemplation, Confidence and Readiness for Engaging in Early Mobilisation of Critically Ill Patients: A Multi-Site Cross-Sectional Design.](https://pubmed.ncbi.nlm.nih.gov/39227184/) J Adv Nurs. 2024 Sep 3.

## Reviews

1. Kynoch K, Chang A, Coyer F, McArdle A. [The effectiveness of interventions to meet family needs of critically ill patients in an adult intensive care unit: a systematic review update.](https://www.ncbi.nlm.nih.gov/pubmed/27532144) JBI Database System Rev Implement Rep. 2016 Mar;14(3):181-234.
2. Haines KJ, Kelly P, Fitzgerald P, Skinner EH, Iwashyna TJ. [The Untapped Potential of Patient and Family Engagement in the Organization of Critical Care.](https://www.ncbi.nlm.nih.gov/pubmed/28234753) Crit Care Med. 2017 Feb 23. doi: 10.1097/CCM.0000000000002282
3. Naretto G, Boratti A. [Storeroom 99: a place for words to support families of ICU patients.](https://www.ncbi.nlm.nih.gov/pubmed/28560478) Intensive Care Med. 2017 Sep;43(9):1407-1408
4. Nassar Junior AP, Besen BAMP, Robinson CC, Falavigna M, Teixeira C, Rosa RG. [Flexible Versus Restrictive Visiting Policies in ICUs: A Systematic Review and Meta-Analysis.](https://www.ncbi.nlm.nih.gov/pubmed/29642108) Crit Care Med. 2018 Apr 10.
5. Burns KEA, Misak C, Herridge M, Meade MO, Oczkowski S; Patient and Family Partnership Committee of the Canadian Critical Care Trials Group. [Patient and Family Engagement in the ICU. Untapped Opportunities and Underrecognized Challenges.](https://www.ncbi.nlm.nih.gov/pubmed/29624408) Am J Respir Crit Care Med. 2018 Aug 1;198(3):310-319
6. Haines KJ. [Engaging Families in Rehabilitation of People Who Are Critically Ill: An Underutilized Resource.](https://www.ncbi.nlm.nih.gov/pubmed/30113660) Phys Ther. 2018 Sep 1;98(9):737-744
7. Dinglas VD, Faraone LN, Needham DM. [Understanding patient-important outcomes after critical illness: a synthesis of recent qualitative, empirical, and consensus-related studies.](https://www.ncbi.nlm.nih.gov/pubmed/30063492) Curr Opin Crit Care. 2018 Oct;24(5):401-409
8. Brummel NE. [Measuring Outcomes After Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/30223991) Crit Care Clin. 2018 Oct;34(4):515-526
9. Haines KJ, Quasim T, McPeake J. [Family and Support Networks Following Critical Illness.](https://www.ncbi.nlm.nih.gov/pubmed/30223998) Crit Care Clin. 2018 Oct;34(4):609-623
10. Vijayaraghavan BKT, Willaert X, Cuthbertson BH. [Should ICU clinicians follow patients after ICU discharge? No.](https://www.ncbi.nlm.nih.gov/pubmed/30054688) Intensive Care Med. 2018 Sep;44(9):1542-1544
11. Meyer J, Brett SJ, Waldmann C. [Should ICU clinicians follow patients after ICU discharge? Yes.](https://www.ncbi.nlm.nih.gov/pubmed/30054690) Intensive Care Med. 2018 Sep;44(9):1539-1541
12. Johnson CC, Suchyta MR, Darowski ES, Collar EM, Kiehl AL, Van J, Jackson JC, Hopkins RO. [Psychological Sequelae in Family Caregivers of Critically-Ill Intensive Care Unit Patients: A Systematic Review.](https://www.ncbi.nlm.nih.gov/pubmed/30950647) Ann Am Thorac Soc. 2019 Apr 5.
13. Zante B, Camenisch SA, Schefold JC. [Interventions in Post-Intensive Care Syndrome-Family: A Systematic Literature Review.](https://pubmed.ncbi.nlm.nih.gov/32590386/) Crit Care Med. 2020 Jun 25.
14. van Delft LMM, Valkenet K, Slooter AJC, Veenhof C. [Family participation in physiotherapy-related tasks of critically ill patients: A mixed methods systematic review.](https://pubmed.ncbi.nlm.nih.gov/33260011/) J Crit Care. 2020 Nov 24;62:49-57.
15. Schofield R, Dibb B, Coles-Gale R, Jones CJ. [The experience of relatives using intensive care diaries: A systematic review and qualitative synthesis.](https://pubmed.ncbi.nlm.nih.gov/33905992/) Int J Nurs Stud. 2021 Mar 19;119:103927.
16. Misak C, Herridge M, Ely EW, Clay A, Mikkelsen ME. [Patient and Family Engagement in Critical Illness.](https://pubmed.ncbi.nlm.nih.gov/34091487/) Crit Care Med. 2021 Jun 5
17. Goitein L. [My Loved One Is in the Intensive Care Unit-What Should I Know?](https://pubmed.ncbi.nlm.nih.gov/36121668/) JAMA Intern Med. 2022 Sep 19
18. Brauchle M, Deffner T, Nydahl P; ICU Kids Study Group. [Ten recommendations for child-friendly visiting policies in critical care.](https://pubmed.ncbi.nlm.nih.gov/36715706/) Intensive Care Med. 2023 Jan 30
19. Cussen J, Mukpradab S, Tobiano G, Cooke C, Pearcy J, Marshall AP. [Early mobility and family partnerships in the intensive care unit: A scoping review of reviews.](https://pubmed.ncbi.nlm.nih.gov/37749618/) Nurs Crit Care. 2023 Sep 25
20. Shirasaki K, Hifumi T, Nakanishi N, Nosaka N, Miyamoto K, Komachi MH, Haruna J, Inoue S, Otani N. [Postintensive care syndrome family: A comprehensive review.](https://pubmed.ncbi.nlm.nih.gov/38476451/) Acute Med Surg. 2024 Mar 11;11(1):e939

## Guidelines

1. Davidson JE, Powers K, Hedayat KM et al. [Clinical practice guidelines for support of the family in the patient-centered intensive care unit: American College of Critical Care Medicine Task Force 2004-2005](http://www.ncbi.nlm.nih.gov/pubmed/17205007). Crit Care Med 2007; 35:605-622.
2. National Institute for Health and Clinical Excellence (NICE): Rehabilitation after critical illness. NICE Clinical Guideline No. 83, January 2009 <http://www.nice.org.uk/CG83>
3. Davidson JE, Aslakson RA, Long AC, Puntillo KA, Kross EK, Hart J, Cox CE, Wunsch H, Wickline MA, Nunnally ME, Netzer G, Kentish-Barnes N, Sprung CL, Hartog CS, Coombs M, Gerritsen RT, Hopkins RO, Franck LS, Skrobik Y, Kon AA, Scruth EA, Harvey MA, Lewis-Newby M, White DB, Swoboda SM, Cooke CR, Levy MM, Azoulay E, Curtis JR. [Guidelines for Family-Centered Care in the Neonatal, Pediatric, and Adult ICU.](https://www.ncbi.nlm.nih.gov/pubmed/27984278) Crit Care Med. 2017 Jan;45(1):103-128.

# Other

1. Harhay MO, Casey JD, Clement M, Collins SP, Gayat É, Gong MN, Jaber S, Laterre PF, Marshall JC, Matthay MA, Monroe RE, Rice TW, Rubin E, Self WH, Mebazaa A. [Contemporary strategies to improve clinical trial design for critical care research: insights from the First Critical Care Clinical Trialists Workshop.](https://www.ncbi.nlm.nih.gov/pubmed/32072303) Intensive Care Med. 2020 Feb 18.
2. Neuman HB, Kaji AH, Haut ER. [Practical Guide to Implementation Science.](https://www.ncbi.nlm.nih.gov/pubmed/31995157) JAMA Surg. 2020 Jan 29.
3. Semler MW, Bernard GR, Aaron SD, Angus DC, Biros MH, Brower RG, Calfee CS, Colantuoni EA, Ferguson ND, Gong MN, Hopkins RO, Hough CL, Iwashyna TJ, Levy BD, Martin TR, Matthay MA, Mizgerd JP, Moss M, Needham DM, Self WH, Seymour CW, Stapleton RD, Thompson BT, Wunderink RG, Aggarwal NR, Reineck LA. [Identifying Clinical Research Priorities in Adult Pulmonary and Critical Care: NHLBI Working Group Report.](https://pubmed.ncbi.nlm.nih.gov/32150460/?from_term=Semler+MW&from_cauthor_id=32150460&from_pos=1) Am J Respir Crit Care Med. 2020 Mar 9
4. Leisman DE, Harhay MO, Lederer DJ, Abramson M, Adjei AA, Bakker J, Ballas ZK, Barreiro E, Bell SC, Bellomo R, Bernstein JA, Branson RD, Brusasco V, Chalmers JD, Chokroverty S, Citerio G, Collop NA, Cooke CR, Crapo JD, Donaldson G, Fitzgerald DA, Grainger E, Hale L, Herth FJ, Kochanek PM, Marks G, Moorman JR, Ost DE, Schatz M, Sheikh A, Smyth AR, Stewart I, Stewart PW, Swenson ER, Szymusiak R, Teboul JL, Vincent JL, Wedzicha JA, Maslove DM. [Development and Reporting of Prediction Models: Guidance for Authors From Editors of Respiratory, Sleep, and Critical Care Journals.](https://pubmed.ncbi.nlm.nih.gov/32141923/?from_term=Leisman+DE&from_cauthor_id=32141923&from_pos=1) Crit Care Med. 2020 May;48(5):623-633.
5. Kinney AR, Eakman AM, Graham JE. [Novel Effect Size Interpretation Guidelines and an Evaluation of Statistical Power in Rehabilitation Research.](https://pubmed.ncbi.nlm.nih.gov/32272106/?from_term=Kinney+AR&from_cauthor_id=32272106&from_pos=1) Arch Phys Med Rehabil. 2020 Apr 6:S0003-9993(20)30172-6
6. Semler MW, Bernard GR, Aaron SD, Angus DC, Biros MH, Brower RG, Calfee CS, Colantuoni EA, Ferguson ND, Gong MN, Hopkins RO, Hough CL, Iwashyna TJ, Levy BD, Martin TR, Matthay MA, Mizgerd JP, Moss M, Needham DM, Self WH, Seymour CW, Stapleton RD, Thompson BT, Wunderink RG, Aggarwal NR, Reineck LA. [Identifying Clinical Research Priorities in Adult Pulmonary and Critical Care: NHLBI Working Group Report.](https://pubmed.ncbi.nlm.nih.gov/32150460/) Am J Respir Crit Care Med. 2020 Mar 9;202(4):511-23.
7. McNett M, O'Mathúna D, Tucker S, Roberts H, Mion LC, Balas MC. [A Scoping Review of Implementation Science in Adult Critical Care Settings.](https://pubmed.ncbi.nlm.nih.gov/33354675/) Crit Care Explor. 2020 Dec 16;2(12):e0301
8. Duncan Millar J, van Wijck F, Pollock A, Ali M. [International consensus recommendations for outcome measurement in poststroke arm rehabilitation trials.](https://pubmed.ncbi.nlm.nih.gov/33215905/) Eur J Phys Rehabil Med. 2020 Nov 20.
9. Stubbs B, Vancampfort D, Rosenbaum S, Ward PB, Richards J, Soundy A, Veronese N, Solmi M, Schuch FB. [Dropout from exercise randomized controlled trials among people with depression: A meta-analysis and meta regression.](https://pubmed.ncbi.nlm.nih.gov/26551405/) J Affect Disord. 2016 Jan 15;190:457-466.
10. Armijo-Olivo S, Machalicek W, DE Oliveira-Souza AI, Dennett L, Ballenberger N. [Attrition, missing data, compliance, and related biases in randomized controlled trials of rehabilitation interventions: towards improving reporting and conduct.](https://pubmed.ncbi.nlm.nih.gov/33165311/) Eur J Phys Rehabil Med. 2020 Dec;56(6):817-828.
11. Amiri M, Kumbhare D. [Randomized controlled trials in non-pharmacological rehabilitation research: a scoping review of the reporting of sample size calculation, randomization procedure, and statistical analyses.](https://pubmed.ncbi.nlm.nih.gov/32935956/) Eur J Phys Rehabil Med. 2020 Dec;56(6):790-798.
12. Colantuoni E, Li X, Hashem MD, Girard TD, Scharfstein DO, Needham DM. J [A structured methodology review showed analyses of functional outcomes are frequently limited to "survivors only" in trials enrolling patients at high risk of death.](https://pubmed.ncbi.nlm.nih.gov/33838275/) Clin Epidemiol. 2021 Sep;137:126-132
13. Ciani O, Salcher-Konrad M, Meregaglia M, Smith K, Gorst SL, Dodd S, Williamson PR, Fattore G. [Patient-reported outcome measures in core outcome sets targeted overlapping domains but through different instruments.](https://pubmed.ncbi.nlm.nih.gov/33689837/) J Clin Epidemiol. 2021 Aug;136:26-36.
14. Furlan AD, Irvin E. [Conducting a Systematic Review and Meta-analysis in Rehabilitation.](https://pubmed.ncbi.nlm.nih.gov/34864770/) Am J Phys Med Rehabil. 2021 Dec 3.
15. Lowe JR, Wallace SJ, Sam S, Young A. [Minimum data and core outcomes for subacute rehabilitation: A scoping review.](https://pubmed.ncbi.nlm.nih.gov/34873966/) Clin Rehabil. 2021 Dec 7:2692155211060468
16. Elkins MR, Pinto RZ, Verhagen A, Grygorowicz M, Söderlund A, Guemann M, Gómez-Conesa A, Blanton S, Brismée JM, Ardern C, Agarwal S, Jette A, Karstens S, Harms M, Verheyden G, Sheikh U. [Statistical inference through estimation: recommendations from the International Society of Physiotherapy Journal Editors.](https://pubmed.ncbi.nlm.nih.gov/34952811/) J Physiother. 2022 Jan;68(1):1-4.
17. Szeszulski J, Guastaferro K. [Optimization of implementation strategies using the Multiphase Optimization STratgey (MOST) framework: Practical guidance using the factorial design.](https://pubmed.ncbi.nlm.nih.gov/38906703/) Transl Behav Med. 2024 Sep 3;14(9):505-513
18. Högvall LM, Herling SF, Egerod I, Petosic A, Danielsen MER, Rüdiger U, Rustøen T, Berntzen H. [The patient experience of a nurse-written ICU-diary intervention: A cross sectional survey.](https://pubmed.ncbi.nlm.nih.gov/39366128/) Intensive Crit Care Nurs. 2025 Feb;86:103846
19. Ahmad SR, Rhudy L, Barwise AK, Ozkan MC, Gajic O, Karnatovskaia LV. [Perspectives of Clinicians on the Value of the Get to Know Me Board in the ICU Chest.](https://pubmed.ncbi.nlm.nih.gov/39427707/) 2024 Oct 18:S0012-3692(24)05321-2
20. Menza R, Howie-Esquivel J, Bongiovanni T, Tang J, Johnson JK, Leutwyler H. [Personalized music for cognitive and psychological symptom management during mechanical ventilation in critical care: A qualitative analysis.](https://pubmed.ncbi.nlm.nih.gov/39446914/) PLoS One. 2024 Oct 24;19(10):e0312175

**Credits**

This work, created by D.M. Needham and P. Nydahl.