Appendix for report

Post covid – treatment and rehabilitation: living review

Report 328 (2022)

Appendix 3 Excluded studies

Excluded studies

Articles that seemed relevant based on their abstracts, but later were excluded based on their full texts, as they did not meet the inclusion critera.

Study	Main reason for exclusion
Handheld breathing device could reduce breathlessness and improve physical fitness in long COVID patients. Operating Theatre Journal. 2022(378):2-.	Wrong study design
Innovating in response to Long Covid. Frontline (20454910). 2022;28(2):48-51.	Wrong study design
Post COVID-19 organizing pneumonia treated with mycophenolate mofetil. Respirology (Carlton, Vic). 2021;26:473-4. Available from https://doi.org/10.1111/resp.14150_969	Wrong study design
Pulmonary function after nintedanib treatment in post-COVID-19 pulmonary fibrosis. Respirology (Carlton, Vic). 2021;26:94-5. Available from https://doi.org/10.1111/resp.14150_55	Wrong study design
SSRIs show rapid effects in post-COVID depression. Brown University Psychopharmacology Update. 2022;33(3):8-. Available from https://doi.org/10.1002/pu.30844	Wrong study design
Women with long COVID-19 may need targeted rehabilitation to help counter problems with physical activity tolerance. Operating Theatre Journal 2021:20-20.	Wrong study design
Abdelalim AA, Mohamady AA, Elsayed RA, Elawady MA, Ghallab AF. Corticosteroid nasal spray for recovery of smell sensation in COVID-19 patients: A randomized controlled trial. Am J Otolaryngol. 2021;42(2):102884. Available from https://doi.org/10.1016/j.amjoto.2020.102884	Wrong population
Abdelmaksoud AA, Ghweil AA, Hassan MH, Rashad A, Khodeary A, Aref ZF, et al. Olfactory Disturbances as Presenting Manifestation Among Egyptian Patients with COVID-19: Possible Role of Zinc. Biol Trace Elem Res. 2021;199(11):4101-8. Available from https://doi.org/10.1007/s12011-020-02546-5	Wrong population
Abodonya, A. M., Abdelbasset, W. K., Awad, E. A., Elalfy, I. E., Salem, H. A., Elsayed, S. H. (2021). Inspiratory muscle training for recovered COVID-19 patients after weaning from mechanical ventilation: A pilot control clinical study. Medicine, 100(13), e25339. Available from https://doi.org/10.1097/MD.0000000000025339	Wrong population
Abreus Mora JL, González Curbelo VB, Mena Pérez O, Abreus Vázquez JA, Del Sol Santiago FJ, Bernal Valladares EJ. PHYSICAL REHABILITATION AND COVID-19. Universidad y Sociedad. 2022;14:172-83. Available from https://rus.ucf.edu.cu/index.php/rus/article/view/2620	Wrong study design
Abuhelaiqa E, Alkadi MM, Khan S, Nauman A, Othman M, Al-Malki HA. Sustained low-efficiency dialysis vs. Continuous renal replacement therapy in critically ill COVID-19 Patients. J Am Soc Nephrol. 2021;32:105. Available from https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1489273	Wrong study design
Acat M, Yildiz Gulhan P, Oner S, Turan MK. The performance of artificial intelligence supported Thoracic CT to evaluate the radiologic improvement in patients with COVID-19 pneumonia: comparision pirfenidon vs. corticosteroid. Int J Clin Pract. 2021:e14961.	Wrong population
Acosta-Dighero R, Rodriguez-Nunez I, Solis-Grant MJ, Torres-Castro R, Garcia-Soto C. Post COVID-19 rehabilitation: A current challenge. Rehabilitacion post COVID-19: un desafio vigente. 2020;148(10):1531-2. Available from https://doi.org/10.4067/S0034-98872020001001531	Wrong study design
Affeldt S, Alcorn P, Duke T, Raynes E. Role of physical therapy in reducing length	Wrong

of stay and occurrence of post intensive care syndrome among COVID 19 patients admitted to the intensive care unit. The FASEB Journal. 2021;35. Available from https://doi.org/10.1096/fasebj.2021.35.S1.03232	population
Agostini F, Mangone M, Ruiu P, Paolucci T, Santilli V, Bernetti A. Rehabilitation setting during and after Covid-19: An overview on recommendations. J Rehabil Med. 2021;53(1):jrm00141. Available from https://doi.org/10.2340/16501977-2776	Wrong study design
Ahmed I, Inam AB, Belli S, Ahmad J, Khalil W, Jafar MM. Effectiveness of aerobic exercise training program on cardio-respiratory fitness and quality of life in patients recovered from COVID-19. Eur J Physiother. 2021. Available from https://doi.org/10.1080/21679169.2021.1909649	Wrong study design
Aiyegbusi OL, Hughes SE, Turner G, Rivera SC, McMullan C, Chandan JS, et al. Symptoms, complications and management of long COVID: a review. J R Soc Med. 2021;114(9):428-42. 2021;14(6):1672-3. Available from https://doi.org/10.1177/01410768211032850	Wrong study design
Al Chikhanie Y, Veale D, Vergès S, Hérengt F. Suivi à 6 mois de patients post-COVID19 réanimés, intubés et réhabilités. Revue des Maladies Respiratoires Actualités 2022;14:181-81. Available from https://doi.org/10.1016/j.rmra.2021.11.313	Wrong study design
Alawna M, Amro M, Mohamed AA. Aerobic exercises recommendations and specifications for patients with COVID-19: a systematic review. Eur Rev Med Pharmacol Sci. 2020;24(24):13049-55. Available from https://doi.org/10.26355/eurrev_202012_24211	Wrong population
Albu S, Rivas Zozaya N, Murillo N, Garcia-Molina A, Figueroa Chacon CA, Kumru H. Multidisciplinary outpatient rehabilitation of physical and neurological sequelae and persistent symptoms of covid-19: a prospective, observational cohort study. Disabil Rehabil. 2021:1-8. Available from https://www.tandfonline.com/doi/full/10.1080/09638288.2021.1977398	Wrong control
Alcazar-Navarrete B, Molina Paris J, Martin Sanchez FJ. Management and Follow up of Respiratory Patients in the Post-COVID-19 Era: Are We Ready Yet? Seguimiento del paciente con enfermedad respiratoria en la era post-COVID-19: estamos preparados? 2020;56(10):685-6. Available from https://doi.org/10.1016/j.arbr.2020.08.005	Wrong study design
Alenskaya TL. Innovative methods of rehabilitation at the outpatient and homestages in patients after pneumonia covid-19. Meditsinskiy Sovet. 2021;2021(4):220-9. Available from https://doi.org/10.21518/2079-701X-2021-4-220-229	Wrong study design
Alexandre F, Castanyer A, Vernet A, Aliaga-Parera JL, Oliver N, Oliver N, et al. Late Breaking Abstract - Effects of pulmonary rehabilitation on major symptoms of long COVID (post-COVID-19 syndrome): preliminary results. Eur Respir J. 2021;58:2-. Available from https://doi.org/10.1183/13993003.congress-2021.PA3896	Wrong study design
Alizadeh S, Taklavi S, Alilou MM, Feizipour H. The effectiveness of existential therapy on death anxiety and meaning of life in recovered patients of COVID-19. Urmia Medical Journal. 2021;32(5):388-98. Available from http://umj.umsu.ac.ir/article-1-5557-en.html	Wrong population
AlZaben M, Al Adwan F. The Effectiveness of a Counselling Program in Reducing the Death Anxiety and Improving Self-Efficacy Among a Sample of Female Middle-Aged Teachers Recovered from COVID-19 Virus. Omega. 2022:302228221086704. Available from https://doi.org/10.1177/00302228221086704	Wrong population
Ambrosino P, Molino A, Calcaterra I, Formisano R, Stufano S, Spedicato GA, et al. Clinical Assessment of Endothelial Function in Convalescent COVID-19 Patients Undergoing Multidisciplinary Pulmonary Rehabilitation. Biomedicines. 2021;9(6). Available from https://doi.org/10.3390/biomedicines9060614	Wrong study design
An X, Duan L, Zhang YH, Jin D, Zhao S, Zhou RR, et al. The three syndromes and six Chinese patent medicine study during the recovery phase of COVID-19. Chin	Wrong study design

Med. 2021;16(1):44. Available from https://doi.org/10.1186/s13020-021-00454-x	
An YW, Yuan B, Wang JC, Wang C, Liu TT, Song S, et al. Clinical characteristics and impacts of traditional Chinese medicine treatment on the convalescents of COVID-19. Int J Med Sci. 2021;18(3):646-51. Available from https://doi.org/10.7150/ijms.52664	Wrong population
Andina-Martinez D, Alonso-Cadenas JA, Cobos-Carrascosa E, Bodegas I, Oltra-Benavent M, Plazaola A, et al. SARS-CoV-2 acute bronchiolitis in hospitalized children: neither frequent nor more severe. Pediatr Pulmonol. 2021. Available from https://doi.org/10.1002/ppul.25731	Wrong intervention
Andrenelli E, Negrini F, de Sire A, Lazzarini SG, Patrini M, Ceravolo MG, et al. Rehabilitation and COVID-19: update of the rapid living systematic review by Cochrane Rehabilitation Field as of October 31st, 2021. Eur J Phys Rehabil Med. 2022. Available from https://doi.org/10.23736/S1973-9087.22.07434-2	Wrong study design
Antoniou KM, Vasarmidi E, Russell A-M, Andrejak C, Crestani B, Delcroix M, et al. European Respiratory Society Statement on Long COVID-19 Follow-Up. The European respiratory journal 2022. Available from https://doi.org/10.1183/13993003.02174-2021	Wrong study design
Arentz S, Hunter J, Khamba B, Mravunac M, Lee Z, Alexander K, et al. Honeybee products for the treatment and recovery from viral respiratory infections including SARS-COV-2: A rapid systematic review. Integrative medicine research. 2021:100779. Available from https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8483994/pdf/main.pdf	Wrong population
Arienti C, Kiekens C, Bettinsoli R, Engkasan JP, Frischknecht R, Gimigliano F, et al. Cochrane Rehabilitation: 2020 annual report. Eur J Phys Rehabil Med. 2021;57(2):303-8. Available from https://doi.org/10.23736/s1973-9087.21.06877-5	Wrong study design
Asly M, Hazim A. Rehabilitation of post-COVID-19 patients. The Pan African medical journal. 2020;36:168. Available from https://doi.org/10.11604/pamj.2020.36.168.23823	Wrong study design
Austelle C, Badran B, Huffman S, Dancy M, Kautz S, George M. At-home telemedicine controlled taVNS twice daily for 4 weeks reduces long COVID symptoms of anxiety and fatigue. Brain Stimul. 2021;14(6):1703. Available from https://doi.org/10.1016/j.brs.2021.10.368	Wrong study design
Avancini A, Belluomini L, Benato G, Trestini I, Tregnago D, Menis J, et al. Exercise for counteracting post-acute COVID-19 syndrome in patients with cancer: an old but gold strategy? Acta Oncol. Department of Oncology, University of Verona Hospital Trust, Verona, Italy Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona, Verona, Italy Philadelphia, Pennsylvania: Taylor & Francis Ltd; 2022. p. 388-92. Available from https://doi.org/10.1080/0284186X.2021.2009565	Wrong study design
Ayoubkhani D, Bermingham C, Pouwels K, Glickman M, Nafilyan V, Zaccardi F, et al. Changes in the trajectory of Long Covid symptoms following COVID-19 vaccination: community-based cohort study (preprint). Available from https://doi.org/10.1101/2021.12.09.21267516	Wrong study design
Ayoubkhani D, Bermingham C, Pouwels KB, Glickman M, Nafilyan V, Zaccardi F, et al. Trajectory of long covid symptoms after covid-19 vaccination: community based cohort study. BMJ (Clinical research ed). 2022;377:e069676. Available from https://doi.org/10.1136/bmj-2021-069676	Wrong population
Azzolino D, Passarelli PC, D'Addona A, Cesari M. Nutritional strategies for the rehabilitation of COVID-19 patients. Eur J Clin Nutr. 2021;75(4):728-30. Available from https://doi.org/10.1038/s41430-020-00795-0	Wrong study design
Babliuk L, Fediaeva S, Babova I, Mesoedova V, Tamazlykar S. Rehabilitation of post-COVID patients with chronic fatigue and cognitive disorders syndromes. Balneo and Prm Research Journal. 2022;13(1):9-. Available from https://doi.org/10.12680/balneo.2022.497	Wrong study design
Bagri NK, Deepak RK, Meena S, Gupta SK, Prakash S, Setlur K, et al. Outcomes of	Wrong

multisystem inflammatory syndrome in children temporally related to COVID-19: a longitudinal study. Rheumatol Int. 2021. Available from https://doi.org/10.1007/s00296-021-05030-y	population
Baig M, Joo M, Nada KMSA, Deer R, Seashore J. Pulmonary Rehabilitation and Its Role in Long-Term COVID-19 Recovery. Am J Respir Crit Care Med. 2021;203(9). Available from https://doi.org/10.1164/ajrccm-conference.2021.203.1_MeetingAbstracts.A4118	Wrong study design
Baily-Scanlan C, Kehoe B, Moloney E. Implementation of a Virtual Pulmonary Rehabilitation Programme for patients with chronic respiratory disease in response to the COVID-19 pandemic. Ir. J. Med. Sci. 2021;190:192-92. Available from https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1576752	Wrong study design
Bangash MN, Owen A, Alderman JE, Chotalia M, Patel JM, Parekh D. COVID-19 recovery: potential treatments for post-intensive care syndrome. The Lancet Respiratory medicine. 2020;8(11):1071-3. Available from https://doi.org/10.1016/S2213-2600(20)30457-4	Wrong study design
Barbara C, Clavario P, De Marzo V, Lotti R, Guglielmi G, Porcile A, et al. Effects of exercise rehabilitation in patients with long COVID-19. European journal of preventive cardiology. 2022. Available from https://doi.org/10.1093/eurjpc/zwac019	Wrong study design
Bari E, Ferrarotti I, Saracino L, Perteghella S, Torre ML, Richeldi L, et al. Mesenchymal stromal cell secretome for post-covid-19 pulmonary fibrosis: A new therapy to treat the long-term lung sequelae? Cells. 2021;10(5). Available from https://doi.org/10.3390/cells10051203	Wrong study design
Baricich A, Borg MB, Cuneo D, Cadario E, Azzolina D, Balbo PE, et al. Midterm functional sequelae and implications in rehabilitation after COVID-19: a cross-sectional study. Eur J Phys Rehabil Med. 2021;57(2):199-207. Available from https://doi.org/10.23736/s1973-9087.21.06699-5	Wrong study design
Barker-Davies, R. M., O'Sullivan, O., Senaratne, K., Baker, P., Cranley, M., Dharm-Datta, S., et al. (2020). The Stanford Hall consensus statement for post-COVID-19 rehabilitation. British journal of sports medicine, 2020;54(16), 949-59. Available from https://doi.org/10.1136/bjsports-2020-102596	Wrong study design
Barrett C, Pelow L. A clinical audit to determine the outcome of inpatient exercise rehabilitation on outcomes including functional capacity, dyspnoea and muscle strength in patients diagnosed with COVID-19. Ir J Med Sci. 2021;190:S8-S. Available from https://irishthoracicsociety.com/eposter/a-clinical-audit-to-determine-the-outcome-of-inpatient-exercise-rehabilitation-on-outcomes-including-functional-capacity-dyspnoea-and-muscle-strength-in-patients-diagnosed-with-covid-19/	Wrong study design
Barros A, Anderson Vajão Silva F, Araújo de Carvalho S. Atuação da fisioterapia respiratória em pacientes pós Covid-19: Uma revisão sistemática. Brazilian Journal of Health Review. 2021;4:24663-75. Available from: https://doi.org/10.34119/bjhrv4n6-084	Wrong study design
Barros CMSS, Freire RS, Frota E, Rezende Santos AG, Farias MEL, Rodrigues MGA, et al. Short-Course of Methylprednisolone Improves Respiratory Functional Parameters After 120 Days in Hospitalized COVID-19 Patients (Metcovid Trial): A Randomized Clinical Trial. Frontiers in medicine 2021;8:758405. Available from https://doi.org/10.3389/fmed.2021.758405	Wrong population
Basu D, Chavda VP, Mehta AA. Therapeutics for COVID-19 and post COVID-19 complications: An update. Current research in pharmacology and drug discovery 2022:100086. Available from https://doi.org/10.1016/j.crphar.2022.100086	Wrong study design
Baum P, Bleckwenn M, Laufs U. [Diagnostics and treatment of post-covid-syndrome: a multidisciplinary approach]. Post-Covid-Syndrom: Wie diagnostizieren, wie behandeln? 2022;164:36-39. Available from https://doi.org/10.1007/s15006-021-0541-0	Wrong study design
Bazdyrev E, Rusina P, Panova M, Novikov F, Grishagin I, Nebolsin V. Lung Fibrosis after COVID-19: Treatment Prospects. Pharmaceuticals (Basel) 2021;14. Available	Wrong study design

from https://doi.org/10.3390/ph14080807	
Becker F, Laake JH, Hofso K. Rehabilitation after Covid-19. Tidsskr. Nor. Laegeforen. 2020;140:880-83. Available from https://doi.org/10.4045/tidsskr.20.0352	Wrong study design
Belcaro G, Cornelli U, Cesarone MR, Scipione C, Scipione V, Hu S, et al. Preventive effects of Pycnogenol R on cardiovascular risk factors (including endothelial function) and microcirculation in subjects recovering from coronavirus disease 2019 (COVID-19). Minerva Med. 2021. Available from https://doi.org/10.23736/s0026-4806.21.07650-3	Wrong population
Benzakour LBG. Update of the Potential Treatments for Psychiatric and Neuropsychiatric Symptoms in the Context of the Post-COVID-19 Condition: Still a Lot of Suffering and Many More Things to Learn. Trauma Care. 2022;2(2):131-50. Available from https://doi.org/10.3390/traumacare2020011	Wrong study design
Bertolucci F, Sagliocco L, Tolaini M, Posteraro F. Comprehensive rehabilitation treatment for sub-acute COVID-19 patients: an observational study. Eur J Phys Rehabil Med. 2021;57(2):208-15. Available from https://doi.org/10.23736/s1973-9087.21.06674-0	Wrong study design
Birch S, Alraek T, Grobe S. Reflections on the potential role of acupuncture and Chinese herbal medicine in the treatment of Covid-19 and subsequent health problems. Integrative medicine research. 2021;10:100780. Available from https://doi.org/10.1016/j.imr.2021.100780	Wrong study design
Birtolo LI, Prosperi S, Monosilio S, Cimino S, Filomena D, Alfarano M, et al. Follow-up of hospitalized COVID-19 survivors: Assessment of short- and long-term cardiovascular sequelae after SARS-CoV-2 infection. European Heart Journal, Supplement 2021;23:G97. Available from https://doi.org/10.1093/eurheartj/suab135.039	Wrong study design
Boglione L, Meli G, Poletti F, Rostagno R, Moglia R, Cantone M, et al. Risk factors and incidence of Long-COVID syndrome in hospitalized patients: does remdesivir have a protective effect? QJM : monthly journal of the Association of Physicians. 2021. Available from https://doi.org/10.1093/qjmed/hcab297	Wrong population
Bogolepova AN, Osinovskaya NA, Kovalenko EA, Makhnovich EV. Fatigue and cognitive impairment in post-COVID syndrome: possible treatment approaches. Nevrologiya, Neiropsikhiatriya, Psikhosomatika. 2021;13(4):88-93. Available from https://doi.org/10.14412/2074-2711-2021-4-88-93	Wrong study design
Boisvert I, Bujold M, Saury S. État des connaissances - Pratiques visant à mesurer ou réduire les symptômes psychologiques des personnes qui présentent une affection post-COVID-19 2022.	Wrong study design
Bontsevich R, Vovk Y, Solovyova L. COVID-19: treatment of early chronic COVID syndrome. Eur Respir J. 2021;58:2-. Available from https://doi.org/10.1183/13993003.congress-2021.PA3674	Wrong study design
Bordas-Martinez J, Luzardo-Gonzalez A, Arencibia A, Tormo F, Mateu L, Vicens-Zygmunt V, et al. Effects of Early Physical Therapy and Follow-Up in Acute Severe Coronavirus Disease 2019 Pneumonia: A Retrospective Observational Study. Frontiers in medicine. 2022;9:866055. Available from https://doi.org/10.3389/fmed.2022.866055	Wrong population
Borg K, Stam H. Rehabilitation of post-Covid-19 syndrome – once again a call for action! Journal of Rehabilitation Medicine (Stiftelsen Rehabiliteringsinformation). 2021;53(1):1-. Available from https://doi.org/10.2340/16501977-2783	Wrong study design
Botek M, Krejci J, Valenta M, McKune A, Sladeckova B, Konecny P, et al. Molecular Hydrogen Positively Affects Physical and Respiratory Function in Acute Post-COVID-19 Patients: A New Perspective in Rehabilitation. Int J Environ Res Public Health. 2022;19(4). Available from https://doi.org/10.3390/ijerph19041992	Wrong population
Boutou AK, Asimakos A, Kortianou E, Vogiatzis I, Tzouvelekis A. Long COVID-19 Pulmonary Sequelae and Management Considerations. Journal of personalized medicine. 2021;11(9). Available from https://www.mdpi.com/2075-4426/11/9/838	Wrong study design

Brennan A, Broughan JM, McCombe G, Brennan J, Collins C, Fawsitt R, et al. Enhancing the management of long COVID in general practice: a scoping review. BJGP open. 2022. Available from https://doi.org/10.3399/BJGPO.2021.0178	Wrong population
Bressi B, Paltrinieri S, Fugazzaro S, Costi S. Letter to the editor: Respiratory rehabilitation in elderly patients with COVID-19: A randomized controlled study. Complement Ther Clin Pract. 2021;43. Available from https://doi.org/10.1016/j.ctcp.2021.101368	Wrong study design
Brodsky MB, Gilbert RJ. The Long-Term Effects of COVID-19 on Dysphagia Evaluation and Treatment. Arch Phys Med Rehabil. 2020;101(9):1662-4. Available from https://doi.org/10.1016/j.apmr.2020.05.006	Wrong study design
Brugliera L, Spina A, Castellazzi P, Cimino P, Tettamanti A, Houdayer E, et al. Rehabilitation of COVID-19 patients. J Rehabil Med. 2020;52(4). Available from https://doi.org/10.2340/16501977-2678	Wrong study design
Brugliera L, Spina A, Giordani A, Iannaccone S. Response to: Nutritional strategies for the rehabilitation of COVID-19 patients. Eur J Clin Nutr. 2021;75(4):731-2. Available from https://doi.org/10.1038/s41430-020-00801-5	Wrong study design
Buonsenso D, Munblit D, De Rose C, Sinatti D, Ricchiuto A, Carfi A, et al. Preliminary evidence on long COVID in children. Acta Paediatrica, International Journal of Paediatrics. 2021;110(7):2208-11. Available from https://doi.org/10.1111/apa.15870	Wrong study design
Burnfield J, Votto J, Hays A, Stuart M, Lewis L, Prettyman E, et al. Six Minute Walk Test Changes during Long-Term Acute Care Hospital Rehabilitation for Patients Post COVID-19. Arch Phys Med Rehabil. 2022;103(3):e13-e4. Available from https://doi.org/10.1016/j.apmr.2022.01.036	Wrong study design
Byambasukh O, Avirmed B, Shirmen B, Khasag A. Exercise intervention and the development of long COVID: A survey of patients admitted to the hospital in Mongolia. Journal of Diabetes Investigation. 2021;12:33. Available from https://doi.org/10.1111/jdi.13663	Wrong study design
Büsching GZZSJ-PSTKR. Effectiveness of Pulmonary Rehabilitation in Severe and Critically Ill COVID-19 Patients: A Controlled Study. Int. J. Environ. Res. Public Health 2021;18:8956-56. Available from https://doi.org/10.3390/ijerph18178956	Wrong control
Caballero-Garcia A, Perez-Valdecantos D, Guallar P, Caballero-Castillo A, Roche E, Noriega DC, et al. Effect of Vitamin D Supplementation on Muscle Status in Old Patients Recovering from COVID-19 Infection. Medicina (Kaunas). 2021;57(10). Available from https://doi.org/10.3390/medicina57101079	Wrong population
Cadth. Post-COVID-19 condition: a condition-level review 2022. Available from https://www.cadth.ca/post-covid-19-condition-condition-level-review	Wrong study design
Cahalan R, Mockler S. SingStrong for Long Covid: A singing and breathing pilot intervention for respiratory symptoms and general health in Long Covid: A mixed-methods study. Ir. J. Med. Sci. 2021;190:200-00. Available from https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1576699	Wrong study design
Cahalan RM, Meade C, Mockler S. SingStrong-A singing and breathing retraining intervention for respiratory and other common symptoms of long COVID: A pilot study. Canadian journal of respiratory therapy : CJRT = Revue canadienne de la therapie respiratoire : RCTR. 2022;58:20-7. Available from https://doi.org/10.29390/cjrt-2021-074	Wrong study design
Camargo-Martínez, W., Lozada-Martínez, I., Escobar-Collazos, A., Navarro-Coronado, A., Moscote-Salazar, L., Pacheco-Hernández, A., Janjua, T., & Bosque-Varela, P. Post-COVID 19 neurological syndrome: Implications for sequelae's treatment. Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia, 2021;88, 219-25. Available from https://doi.org/10.1016/j.jocn.2021.04.001	Wrong intervention
Canter B, Weerahandi HM, Mak W, Raschen L, Burack O, Reinhardt J, et al. Rehabilitation intensity in covid-19 patients in a skilled nursing facility. J Am Geriatr Soc. 2021;69:S285. Available from https://pesquisa.bvsalud.org/global-	Wrong study design

literature-on-novel-coronavirus-2019-ncov/resource/en/covidwho-1194918	
Carda S, Invernizzi M, Bavikatte G, Bensmail D, Bianchi F, Deltombe T, et al. The role of physical and rehabilitation medicine in the COVID-19 pandemic: The clinician's view. Ann Phys Rehabil Med. 2020;63(6):554-6. Available from https://doi.org/10.1016/j.rehab.2020.04.001	Wrong study design
Carraro U, Albertin G, Martini A, Giuriati W, Guidolin D, Masiero S, et al. To contrast and reverse skeletal muscle weakness by Full-Body In-Bed Gym in chronic COVID-19 pandemic syndrome. Eur J Transl Myol. 2021;31(1). Available from https://doi.org/10.4081/ejtm.2021.9641	Wrong study design
Carson E, Hemenway AN. A Scoping Review of Pharmacological Management of Postacute Sequelae of Severe Acute Respiratory Syndrome Coronavirus 2 Infection in 2021. Am J Ther. 2022;29(3):305-e321. Available from https://doi.org/10.1097/MJT.0000000000001486	Wrong study design
Catalan IP, Marti CR, Sota DPdl, Alvarez AC, Gimeno MJE, Juana SF, et al. Corticosteroids for COVID-19 symptoms and quality of life at 1 year from admission. J Med Virol. 2022;94(1):205-10 Available from https://doi.org/10.1002/jmv.27296	Wrong population
Ceban F, Leber A, Jawad MY, Yu M, Lui LMW, Subramaniapillai M, et al. Registered clinical trials investigating treatment of long COVID: a scoping review and recommendations for research. Infectious diseases (London, England). 2022:1-11. Available from https://doi.org/10.1080/23744235.2022.2043560	Wrong study design
Centeno-Cortez AK, Diaz-Chavez B, Santoyo-Saavedra DR, Alvarez-Mendez PA, Pereda-Samano R, Acosta-Torres LS. [Respiratory physiotherapy in post-acute COVID-19 adult patients: Systematic review of literature]. Fisioterapia respiratoria en pacientes adultos post-COVID-19: revision sistematica de la literatura. 2022;60(1):59-66. Available from https://pubmed.ncbi.nlm.nih.gov/35271227/	Wrong study design
Centers for Disease Control and Prevention. Patient History and Physical Exam: Evaluating and Caring for Patients with Post-COVID Conditions 2021. Available from https://www.cdc.gov/coronavirus/2019-ncov/hcp/clinical-care/post-covid-workup.html	Wrong study design
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Heald A, Riste L, Walther A, Stedman M, Mukherjee A, Perrin R. Reducing fatigue-	Wrong study

related symptoms in Long COVID-19: finding an intervention that works. BJPsych Open. 2021;7:S254-S5. Available from https://doi.org/10.1192/bjo.2021.681	design
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Maldonado-Belmonte MJ, Fernández-Jiménez E, Sánchez-Polo MT. On verbal working memory. Descriptive study in post-intensive care syndrome patients after COVID-19 infection in a functional rehabilitation unit in Spain. A pilot study. Eur. Psychiatry 2021;64:S664-S65. Available from https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1357364	Wrong study design
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Marin T, Maxel X, Robin A, Stubbe L. Evidence-based assessment of potential therapeutic effects of adjunct osteopathic medicine for multidisciplinary care of acute and convalescent COVID-19 patients. Explore (New York, NY). 2021;17(2):141-7. Available from https://doi.org/10.1016/j.explore.2020.09.006	Wrong study design
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McGregor G, Sandhu H, Bruce J, Sheehan B, McWilliams D, Yeung J, et al. Rehabilitation Exercise and psycholoGical support After covid-19 InfectioN' (REGAIN): a structured summary of a study protocol for a randomised controlled trial. Trials. 2021;22(1):8. Available from https://doi.org/10.1186/s13063-020-04978-9	Wrong study design
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Milne A, Maskell S, Sharp C, Hamilton FW, Arnold DT. Impact of dexamethasone on persistent symptoms of COVID-19: an observational study (preprint). 2021. Available from https://doi.org/10.1101/2021.11.17.21266392	Wrong population
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Mu M. Effect on Novel Corona-Virus Pneumonia Patients' Rehabilitation Training of Tibetan Folk Music. Basic Clin Pharmacol Toxicol. 2020;127:267-.	Wrong study design
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Naeije R, Caravita S. Phenotyping long COVID. Eur. Respir. J. 2021;58. Available from https://doi.org/10.1183/13993003.01763-2021	Wrong study design
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Rossi Ferrario S, Panzeri A, Cerutti P, Sacco D. The Psychological Experience and Intervention in Post-Acute COVID-19 Inpatients. Neuropsychiatr Dis Treat. 2021;17:413-22. Available from https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7884934/	Wrong control group
Rota V, Redolfi A, Monteleone S, Arienti C, Falso M. Can COVID-19 result in cognitive dysfunctions? The need for a multidisciplinary approach in rehabilitation for post-COVID-19 people. Eur J Phys Rehabil Med. 2022;58(1):150-1. Available from https://doi.org/10.23736/S1973-9087.21.07013-1	Wrong study design
Routray P, Samal S, Mishra D. Long term morbidity and mortality in covid patients discharged from hospital with or without steroid as discharge medication. Intensive Care Medicine Experimental. 2021;9	Wrong study design
Rozanski GM, Ren I, Sastre C, Iverson B, Tabacof L, Putrino D, Cortes M. Effectiveness of a web-based cognitive rehabilitation program for individuals with long COVID syndrome. PM and R 2021;13:S195	Wrong study design
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Scherlinger M, Pijnenburg L, Chatelus E, Sibilia J, Gottenberg JE, Arnaud L, et al. Effet de la vaccination anti-SARS-CoV-2 sur les symptômes prolongés post-Covid : résultat de l'enquête nationale VAXILONG. Revue du Rhumatisme. 2021;88:A215-A6. Available from https://doi.org/10.1016/j.rhum.2021.10.350	Wrong study design
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Schneeberger T, Jarosch I, Koczulla AR. What can pulmonary rehabilitation accomplish? Dtsch Med Wochenschr. 2020;145(24):1782-5. Available from https://doi.org/10.1055/a-1129-3375	Wrong study design
Sedighimehr N, Fathi J, Hadi N, Rezaeian ZS. Rehabilitation, a necessity in hospitalized and discharged people infected with COVID-19: a narrative review. Phys Ther Rev. 2021. Available from https://doi.org/10.1080/10833196.2021.1899472	Wrong study design
Sepúlveda-Loyola W, Gutiérrez-Espinoza H, Órdenes-Mora J, Araya-Quintanilla F. Práctica basada en evidencia en la rehabilitación post COVID-19: Una mirada desde la Fisioterapia. Fisioterapia 2021. Available from https://www.elsevier.es/es-revista-fisioterapia-146-articulo-practica-basada-evidencia-rehabilitacion-post-covid-19-S0211563821001553	Wrong study design
Shah W, Hillman T, Playford ED, Hishmeh L. Managing the long term effects of covid-19: Summary of NICE, SIGN, and RCGP rapid guideline. The BMJ. 2021;372. Available from https://doi.org/10.1136/bmj.n136	Wrong study design
Shakula AV, Miroshnikov AI. Underwater Vacuum Whirlpool in Medical Rehabilitation of Patients with Postcovid Syndrome. Physical & Rehabilitation Medicine, Medical Rehabilitation 2021;3:159-62. Available from https://doi.org/10.36425/rehab63175	Wrong study design
Shan MX, Tran YM, Vu KT, Eapen BC. Postacute inpatient rehabilitation for COVID-19. BMJ Case Rep. 2020;13(8). Available from https://doi.org/10.1136/bcr-2020-237406	Wrong study design
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Singhania SVK, Simon C, Raut A, Parvatkar N. Pulmonary sequelae of moderate-to-	Wrong

severe COVID pneumonia, a 3-month follow-up study. Lung India : official organ of Indian Chest Society 2021;38:397-99. Available from https://doi.org/10.4103/lungindia.lungindia_58_21	population
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Sophie B, Alan KO, Jemina F, Florian L, Sylvain C, Aline S, et al. Virtual reality intervention alleviates dyspnea in patients recovering from COVID pneumonia. A. Dan, Division of Lung Diseases, University Hospital, Geneva Medical School, University of Geneva, Switzerland B. Olaf, Laboratory of Cognitive Neuroscience, Brain Mind Institute, Center for Neuroprosthetics, Faculty of Life Sciences, Ecole Polytechnique Federale de Lausanne, (EPFL), Geneva, Switzerland 2021. Available from https://doi.org/10.1101/2021.10.26.21265510	Wrong population
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Srinivasan V, Kandakurti PK, Alagesan J, Suganthirababu P, Kishore Jebasingh T, Jenifer Augustina S, et al. Efficacy of pursed lip breathing with bhastrika pranayama vs incentive spirometry in rehabilitating post Covid 19 follow up-a randomized control study. Turkish Journal of Physiotherapy and Rehabilitation. 2021;32(3):402-7. Available from https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1250736	Wrong population
Stainer A, Faverio P, Busnelli S, Luppi F, Monzani A, Ammatuna F, et al. Pulmonary sequelae in patients with COVID-19: results after 3 months of follow-up. Eur Respir J. 2021;58:2-. Available from https://doi.org/10.1183/13993003.congress-2021.PA2535	Wrong study design
Steinberg C, Patel N, Patel R, Jaywant A, Gellhorn A. The Covid Recovery Unit (CRU): An Interdisciplinary Model for Rehabilitation on Acute Care. Arch Phys Med Rehabil. 2021;102(4):e17-e. Available from https://doi.org/10.1016/j.apmr.2021.01.052	Wrong study design
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Stokel-Walker C. On the road to Recovery - The world's biggest covid-19 treatment trial. The BMJ 2021;373. Available from https://doi.org/10.1136/bmj.n1299	Wrong study design
Surendra VU, Mohapatra AK, Roy FA, Sanjai N. A review of pulmonary rehabilitation in patients with covid-19. Critical Reviews in Physical and Rehabilitation Medicine. 2020;32(4):269-83. Available from https://doi.org/10.1615/CritRevPhysRehabilMed.2020036542	Wrong study design
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Tomoko S, Chisato H, Reiko Y, Masanobu H, Rui N, Atsushi O. REMOTE REHABILITATION FOR PATIENTS WITH COVID-19. Journal of Rehabilitation Medicine (Stiftelsen Rehabiliteringsinformation) 2020;52:1-8. Available from https://doi.org/10.2340/16501977-2731	Wrong population
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Townsend L, Dyer AH, Jones K, Dunne J, Mooney A, Gaffney F, et al. Persistent fatigue following SARS-CoV-2 infection is common and independent of severity of initial infection. PLoS One. 2020;15(11):e0240784. Available from https://doi.org/10.1371/journal.pone.0240784	Wrong intervention
Tran VT, Perrodeau E, Saldanha J, Pane I, Ravaud P. Efficacy of COVID-19 Vaccination on the Symptoms of Patients With Long COVID: A Target Trial Emulation Using Data From the ComPaRe e-Cohort in France (preprint); 2021. Available from https://doi.org/10.2139/ssrn.3932953	Wrong study design
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Udina C, Ars J, Morandi A, Vilaro J, Caceres C, Inzitari M. Rehabilitation in adult post-COVID-19 patients in post-acute care with Therapeutic Exercise. The Journal of frailty & aging. 2021;10(3):297-300. Available from https://doi.org/10.14283/jfa.2021.1	Wrong study design
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Van Herck M, Goertz Y, Houben-Wilke S, Machado F, Meys R, Delbressine J, et al. Severe fatigue in long COVID - a follow-up study. Eur Respir J. 2021;58:2-. Available from https://doi.org/10.1183/13993003.congress-2021.OA1186	Wrong study design
Van Herck M, Goertz YMJ, Houben-Wilke S, Machado FVC, Meys R, Delbressine JM, et al. Severe Fatigue in Long COVID: Web-Based Quantitative Follow-up Study in Members of Online Long COVID Support Groups. J Med Internet Res. 2021;23(9):e30274. Available from https//doi.org/ 10.2196/30274	Wrong intervention
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OLFACTORY DISORDERS. C. Vandersteen, ENT surgery departement of Institut Universitaire de la Face et du Cou (IUFC), de Valombrose Centre Hospitalier Universitaire (CHU) Université Côte, 31 Avenue, D'Azur (UCA), France2022 2022. Available from https://doi.org/10.1101/2022.02.27.22271572	
Venkatesan P. NICE guideline on long COVID. The Lancet Respiratory medicine. 2021;9(2):129. Available from https://doi.org/10.1016/S2213-2600(21)00031-X	Wrong study design
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Vetrici MA, Mokmeli S, Bohm AR, Monici M, Sigman SA. Evaluation of Adjunctive Photobiomodulation (PBMT) for COVID-19 Pneumonia via Clinical Status and Pulmonary Severity Indices in a Preliminary Trial. Journal of inflammation research. 2021;14:965-79. Available from https://pubmed.ncbi.nlm.nih.gov/33776469/	Wrong population
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Yelin D, Margalit I. Challenges and Management of Long COVID in Individuals with Hematological Illnesses. Acta Haematol. 2022. Available from https://doi.org/10.1159/000522437	Wrong study design
Yelin D, Moschopoulos CD, Margalit I, Gkrania-Klotsas E, Landi F, Stahl J-P, et al. ESCMID rapid guidelines for assessment and management of long COVID. Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases. 2022. Available from https://doi.org/10.1016/j.cmi.2022.02.018	Wrong study design
Yong SJ, Liu S. Proposed subtypes of post-COVID-19 syndrome (or long-COVID) and their respective potential therapies. Rev. Med. Virol. 2021:e2315. Available from https://doi.org/10.1002/rmv.2315	Wrong study design
Yunliang T, Jian J, Peng S, Moyi L, Huangjun Y, Chongchong L, et al. Liuzijue is a promising exercise option for rehabilitating discharged COVID-19 patients. Medicine. 2021;100(6):1-6. Available from https://doi.org/10.1097/MD.0000000000024564	Wrong study design
Zampogna E, Paneroni M, Belli S, Aliani M, Gandolfo A, Visca D, et al. Pulmonary Rehabilitation in Patients Recovering from COVID-19. Respiration; international review of thoracic diseases. 2021:1-7. Available from https://doi.org/10.1159/000514387	Wrong study design
Zana S, Vecchiato C, Dussin M, Ranieri M, Veronese N. Multicomponent Rehabilitation After COVID-19 for Nursing Home Residents. J Am Med Dir Assoc.	Wrong study design

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Zhen Y. Effect of Aerobics on Rehabilitation Training of New Coronavirus Pneumonia Patients. Basic Clin Pharmacol Toxicol. 2020;127:272-. Available from https://onlinelibrary.wiley.com/doi/epdf/10.1111/bcpt.13461	Wrong study design
Zheng Y, Zhang X. Effect of Music on Novel Coronavirus Pneumonia Patients' Rehabilitation Training after Recovery. Basic Clin Pharmacol Toxicol. 2020;127:267-8.	Wrong study design
Zhu P, Wang Z, Guo X, Feng Z, Chen C, Zheng A, et al. Pulmonary Rehabilitation Accelerates the Recovery of Pulmonary Function in Patients With COVID-19. Frontiers in cardiovascular medicine. 2021;8:691609. Available from https://doi.org/10.3389/fcvm.2021.691609	Wrong population
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Studies with high risk of bias

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Study
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Martin I, Braem F, Baudet L, Poncin W, Fizaine S, Aboubakar F, et al. Follow-up of functional exercise capacity in patients with COVID-19: It is improved by telerehabilitation. Respir Med. 2021;183:106438. Available from https://doi.org/10.1016/j.rmed.2021.106438
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Potentially relevant studies in languages other than English

Study
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Fatuev OE. Rehabilitation of patients after a new coronavirus infection COVID-19 in a sanatorium-resort institution. Physical & Rehabilitation Medicine, Medical Rehabilitation. 2022;4(1):63-7. Available from https://journals.ecovector.com/2658-6843/article/view/104442/80457/zh_CN
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