



ERS literature update March-April 2021

Composed for group 1.02 by Anouk W. Vaes, PhD and Sarah Houben-Wilke, PhD of the Department of Research and Development in Ciro, Horn, The Netherlands

PULMONARY REHABILITATION

COPD discharge bundle and pulmonary rehabilitation referral and uptake following hospitalisation for acute exacerbation of COPD.

Barker RE, Kon SS, Clarke SF, Wenneberg J, Nolan CM, Patel S, Walsh JA, Polgar O, Maddocks M, Farquhar M, Hopkinson NS, Bell D, Wedzicha JA, Man WD.

Thorax. 2021 Mar 2;thoraxjnl-2020-215464. doi: 10.1136/thoraxjnl-2020-215464. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33653933/>

Efficacy of pulmonary rehabilitation for bronchiectasis and related factors: which patients should receive the most treatment?

Candemir I, Ergun P, Satar S, Karamanlı H, Kaymaz D, Demir N.

Adv Respir Med. 2021;89(1):15-22. doi: 10.5603/ARM.a2021.0029.

<https://pubmed.ncbi.nlm.nih.gov/33660244/>

Assessment of Stress, Depressive and Anxiety Symptoms in Patients with COPD during In-Hospital Pulmonary Rehabilitation: An Observational Cohort Study.

Wrzeciono A, Czech O, Buchta K, Zabłotni S, Gos E, Tłuczykont Ł, Górecka D, Pastuła A, Adamczyk M, Jach E, Świerkowski I, Szary P, Szczegielniak J.

Medicina (Kaunas). 2021 Feb 25;57(3):197. doi: 10.3390/medicina57030197.

<https://pubmed.ncbi.nlm.nih.gov/33669130/>

Efficacy of a long-term pulmonary rehabilitation maintenance program for COPD patients in a real-life setting: a 5-year cohort study.

Blervaque L, Préfaut C, Forthin H, Maffre F, Bourrelier M, Héraud N, Catteau M, Pomiès P, Jaffuel D, Molinari N, Hayot M, Gouzi F.

Respir Res. 2021 Mar 10;22(1):79. doi: 10.1186/s12931-021-01674-3.

<https://pubmed.ncbi.nlm.nih.gov/33691702/>

The effectiveness of pulmonary rehabilitation in connection with lung transplantation in Hungary.

Kerti M, Bohacs A, Madurka I, Kovats Z, Gieszer B, Elek J, Renyi-Vamos F, Varga JT.

Ann Palliat Med. 2021 Mar 9;apm-20-1783. doi: 10.21037/apm-20-1783. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33691452/>

How to Ensure Referral and Uptake for COPD Rehabilitation-Part 1: Disentangling Factors in the Cross-Sectorial Workflow of Patients with COPD to Understand why Most Patients are not Referred to Rehabilitation.

Thude BR, Brink A, Hansen MS, Morsø L.

Int J Integr Care. 2021 Mar 2;21(1):9. doi: 10.5334/ijic.5502.

<https://pubmed.ncbi.nlm.nih.gov/33716592/>

How to Ensure Referral and Uptake for COPD Rehabilitation - Part 2: A Case of Integrated Care on How to Translate Findings of Cross-Sectorial Workflow to Improve Cross-Sectorial Rehabilitation.

Morsø L, Hansen MS, Brink A, Thams M, Thude BR.

Int J Integr Care. 2021 Mar 2;21(1):10. doi: 10.5334/ijic.5503.

<https://pubmed.ncbi.nlm.nih.gov/33716593/>

Healthcare and Societal Costs in Patients with COPD and Breathlessness after Completion of a Comprehensive Rehabilitation Program.

Verberkt CA, van den Beuken-van Everdingen MHJ, Dirksen CD, Schols JMGA, Vanfleteren LEGW, Franssen FME, Groenen MTJ, Wouters EFM, Janssen DJA.

COPD. 2021 Mar 10:1-24. doi: 10.1080/15412555.2020.1868420. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33719787/>

Comparing the effects of self-management and hospital-based pulmonary rehabilitation programs in COPD patients.

Kilic B, Cicek HS, Avci MZ.

Niger J Clin Pract. 2021 Mar;24(3):362-368. doi: 10.4103/njcp.njcp_165_20.

<https://pubmed.ncbi.nlm.nih.gov/33723110/>

Impact of pulmonary rehabilitation in sleep in COPD patients measured by actigraphy.

Thapamagar SB, Ellstrom K, Anholm JD, Fargo RA, Dandamudi N.

PLoS One. 2021 Mar 16;16(3):e0248466. doi: 10.1371/journal.pone.0248466. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/33724995/>

Operational Modeling with Health Economics to Support Decision Making for COPD Patients.

Yakutcan U, Demir E, Hurst JR, Taylor PC, Ridsdale HA.

Health Serv Res. 2021 Mar 22. doi: 10.1111/1475-6773.13652. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33754333/>

Integrating Comprehensive Geriatric Assessment for people with COPD and frailty starting pulmonary rehabilitation: the Breathe Plus feasibility trial protocol.

Brighton LJ, Evans CJ, Farquhar M, Bristowe K, Kata A, Higman J, Ogden M, Nolan C, Yi D, Gao W, Koulopoulou M, Hasan S, Steves CJ, Man WD-C, Maddocks M.

ERJ Open Res. 2021 Mar 29;7(1):00717-2020. doi: 10.1183/23120541.00717-2020.

eCollection 2021 Jan.

<https://pubmed.ncbi.nlm.nih.gov/33816606/>

How is the education component of pulmonary rehabilitation delivered in practice - is it patient-centred?

Roberts NJ, Kidd L, Kirkwood K, Cross J, Partridge MR.

Clin Respir J. 2021 Apr 7. doi: 10.1111/crj.13371. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33825323/>

The Effect Of Pulmonary Rehabilitation On Smoking And Health Outcomes In Copd Patients.

Sahin H, Naz I.

Clin Respir J. 2021 Apr 8. doi: 10.1111/crj.13373. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33829651/>

Experiences in responders and non-responders to pulmonary rehabilitation among people with chronic obstructive pulmonary disease: a clinical study with convergent mixed analysis.

Simonj C, Højfeldt CR, Clausen B, Birkelund R, Bodtger U.

Disabil Rehabil. 2021 Apr 8:1-9. doi: 10.1080/09638288.2021.1907455. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33832393/>

Influence of Climatic Variables on Chronic Obstructive Pulmonary Disease Patient Attendance to a Pulmonary Rehabilitation Programme.

Almadana Pacheco V, Benito Bernáldez C, Gómez-Bastero Fernández AP, Rodríguez AMM, López Gutiérrez Y, Valido Morales AS.

Clin Respir J. 2021 Apr 13. doi: 10.1111/crj.13376. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33848400/>

Long-term pulmonary rehabilitation progressively reduces hospitalizations and mortality in a cohort of patients with severe and very severe copd: a 5-year follow up.

Reis LF, Guimarães FS, Lopes AJ, Menezes SL, Pacheco AG, Mello FC.

Eur J Phys Rehabil Med. 2021 Apr 16. doi: 10.23736/S1973-9087.21.06279-1. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33861037/>

Preferences of patients with asthma or COPD for treatments in pulmonary rehabilitation.

Damm K, Lingner H, Schmidt K, Aumann-Suslin I, Buhr-Schinner H, van der Meyden J, Schultz K.

Health Econ Rev. 2021 Apr 17;11(1):14. doi: 10.1186/s13561-021-00308-0.

<https://pubmed.ncbi.nlm.nih.gov/33866476/>

The effect of Tai Chi on the pulmonary rehabilitation of chronic obstructive pulmonary disease: a systematic review and meta-analysis.

Liu X, Fu C, Hu W, Hao S, Xie L, Wu X, Wang J, Liu Z, Lin Q, Li S.

Ann Palliat Med. 2021 Apr 15:apm-20-940. doi: 10.21037/apm-20-940. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33894710/>

Effect of muscle training on dyspnea in patients with chronic obstructive pulmonary disease: A meta-analysis of randomized controlled trials.

Zhang F, Zhong Y, Qin Z, Li X, Wang W.

Medicine (Baltimore). 2021 Mar 5;100(9):e24930. doi: 10.1097/MD.00000000000024930.

<https://pubmed.ncbi.nlm.nih.gov/33655957/>

Muscle weakness assessment in non-hypoxemic COPD out-patients at tertiary care hospitals.

Zuberi FF, Zuberi BF, Ali F, Bader N.

Pak J Med Sci. Mar-Apr 2021;37(2):536-542. doi: 10.12669/pjms.37.2.3127.

<https://pubmed.ncbi.nlm.nih.gov/33679946/>

Efficacy of unsupervised exercise in adults with obstructive lung disease: a systematic review and meta-analysis.

Taylor D, Jenkins AR, Parrott K, Benham A, Targett S, Jones AW.

Thorax. 2021 Mar 8;thoraxjnl-2020-216007. doi: 10.1136/thoraxjnl-2020-216007. Online ahead of print.

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Effect of High-Flow Oxygen on Exercise Performance in COPD Patients. Randomized Trial.

Bitos K, Furian M, Mayer L, Schneider SR, Buenzli S, Mademilov MZ, Sheraliev UU, Marazhapov NH, Abdraeva AK, Aidaralieva SD, Muratbekova AM, Sooronbaev TM, Ulrich S, Bloch KE.

Front Med (Lausanne). 2021 Feb 19;7:595450. doi: 10.3389/fmed.2020.595450. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/33693009/>

Walking and mindfulness improve the exercise capacity of patients with chronic obstructive pulmonary disease: A randomised controlled trial.

Lin FL, Yeh ML.

Clin Rehabil. 2021 Mar 11:269215521992917. doi: 10.1177/0269215521992917. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33706570/>

Clinical impact of forced vital capacity on exercise performance in patients with chronic obstructive pulmonary disease.

Moon SM, Lim JH, Hong YS, Shin KC, Lee CY, Kim DJ, Lee SH, Jung KS, Lee CH, Yoo KH, Lee H, Park HY.

J Thorac Dis. 2021 Feb;13(2):837-846. doi: 10.21037/jtd-20-1098a.

<https://pubmed.ncbi.nlm.nih.gov/33717557/>

The effectiveness of continuous chest wall vibration with concurrent aerobic training on dyspnea and functional exercise capacity in patients with chronic obstructive pulmonary disease: a randomized controlled trial.

Pancera S, Buraschi R, Bianchi LNC, Porta R, Negrini S, Arienti C.

Arch Phys Med Rehabil. 2021 Mar 26:S0003-9993(21)00254-9. doi: 10.1016/j.apmr.2021.03.006. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33781780/>

Reliability of Quadriceps Femoris Muscle Strength Assessment Using a Portable Dynamometer and Protocol Tolerance in Patients With Chronic Obstructive Pulmonary Disease.

Sentanin AC, de Facio CA, de Silva MMC, Sousa FC, Arcuri JF, Mendes RG, Di Lorenzo VAP. Phys Ther. 2021 Apr 1:pzab107. doi: 10.1093/ptj/pzab107. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33792725/>

Effects of an Integrated Exercise Program Including "Functional" Inspiratory Muscle Training in Geriatric Individuals with and without Chronic Obstructive Pulmonary Disease.

Ozsoy I, Kahraman BO, Ozsoy G, Ilcin N, Tekin N, Savci S. Ann Geriatr Med Res. 2021 Mar;25(1):45-54. doi: 10.4235/agmr.21.0014. Epub 2021 Mar 30.
<https://pubmed.ncbi.nlm.nih.gov/33794587/>

Effectiveness of Non-Presential Individualized Exercise Training Program(NIETO) in Lower Limb Physical Performance in Advanced COPD.

Sánchez-Nieto JM, Fernández-Muñoz I, Carrillo-Alcaraz A, Bernabeu-Mora R. J Clin Med. 2021 Mar 2;10(5):1010. doi: 10.3390/jcm10051010.
<https://pubmed.ncbi.nlm.nih.gov/33801347/>

Increasing Walking Speed to Achieve a Pre-training Endurance Shuttle Walk Time of 5-10 min May Improve Test Responsiveness in People With Chronic Obstructive Pulmonary Disease.

Hill K, Ling Chao Y, Cavalheri V, Ng LWC, Wootton SL, McKeough ZJ, Jenkins SC, Eastwood PR, Hillman DR, Jenkins C, Cecins N, Spencer LM, Alison JA. J Cardiopulm Rehabil Prev. 2021 Apr 5. doi: 10.1097/HCR.0000000000000575. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33828046/>

Effectiveness of thoracic kinesio taping on respiratory function and muscle strength in patients with chronic obstructive pulmonary disease: A protocol of randomized, double-blind placebo-controlled trial.

Zeng R, Tian K, Xiao Z. Medicine (Baltimore). 2021 Apr 9;100(14):e25269. doi: 10.1097/MD.00000000000025269.
<https://pubmed.ncbi.nlm.nih.gov/33832089/>

Reduced exercise tolerance in mild chronic obstructive pulmonary disease: The contribution of combined abnormalities of diffusing capacity for carbon monoxide and ventilatory efficiency.

Phillips DB, James MD, Elbehairy AF, Milne KM, Vincent SG, Domnik NJ, de-Torres JP, Neder JA, O'Donnell DE; Canadian Respiratory Research Network (CRRN). Respirology. 2021 Apr 7. doi: 10.1111/resp.14045. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33829588/>

Intercept of minute ventilation versus carbon dioxide output relationship as an index of ventilatory inefficiency in chronic obstructive pulmonary disease.

Lin F, Nie S, Zhao R, Cao M, Yuan W, Li Y, Tan C, Xu B, Wang H.
J Thorac Dis. 2021 Mar;13(3):1553-1563. doi: 10.21037/jtd-20-2725.
<https://pubmed.ncbi.nlm.nih.gov/33841947/>

The effectiveness of supplemental oxygen during exercise training in patients with chronic obstructive pulmonary disease who show severe exercise-induced desaturation: a protocol for a meta-regression analysis and systematic review.

Kawachi S, Yamamoto S, Nishie K, Yamaga T, Shibuya M, Sakai Y, Fujimoto K.
Syst Rev. 2021 Apr 14;10(1):110. doi: 10.1186/s13643-021-01667-9.
<https://pubmed.ncbi.nlm.nih.gov/33853692/>

Validity of the 6-Minute Walk Test in Patients with End-Stage Lung Diseases Wearing an Oronasal Surgical Mask in Times of the COVID-19 Pandemic.

Just IA, Schoenrath F, Passinger P, Stein J, Kemper D, Knosalla C, Falk V, Knierim J.
Respiration. 2021 Apr 20;1-6. doi: 10.1159/000515606. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33878758/>

Effects of Proprioceptive Neuromuscular Facilitation Stretching Combined with Aerobic Training on Pulmonary Function in COPD Patients: A Randomized Controlled Trial.

Liu K, Yu X, Cui X, Su Y, Sun L, Yang J, Han W.
Int J Chron Obstruct Pulmon Dis. 2021 Apr 13;16:969-977. doi: 10.2147/COPD.S300569.
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<https://pubmed.ncbi.nlm.nih.gov/33880021/>

Acute effects of expiratory positive airway pressure on exercise tolerance in patients with COPD.

Pereira HL, Vieira DS, Britto RR, Da Silva LS, Ribeiro-Samora GA, Carmona BL, Fregonezi GA, Parreir VF.
Physiother Theory Pract. 2021 Apr 22;1-9. doi: 10.1080/09593985.2021.1917024. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33886428/>

Validation of a breath-holding test as a screening test for exercise-induced hypoxemia in chronic respiratory diseases.

Ideguchi H, Ichiyasu H, Fukushima K, Okabayashi H, Akaike K, Hamada S, Nakamura K, Hirotsako S, Kohrogi H, Sakagami T, Fujii K.
Chron Respir Dis. 2021 Jan-Dec;18:14799731211012965. doi: 10.1177/14799731211012965. PMID: 33906454
<https://pubmed.ncbi.nlm.nih.gov/33906454/>

Correlation of 4-meter gait speed with clinical indicators of chronic obstructive pulmonary disease.

Nakano T, Kimura S, Yamashita T, Yoshimi M, Tao Y, Takata S.
Respir Investig. 2021 Apr 23:S2212-5345(21)00051-4. doi: 10.1016/j.resinv.2021.03.008.
Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33903076/>

The Effect of Long-Acting Dual Bronchodilator Therapy on Exercise Tolerance, Dynamic Hyperinflation and Dead Space during Constant Work Rate Exercise in COPD.

Stringer WW, Porszasz J, Cao M, Rossiter HB, Siddiqui S, Rennard SI, Casaburi R. J Appl Physiol (1985). 2021 Apr 29. doi: 10.1152/jappphysiol.00774.2020. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33914661/>

Effect of pulmonary hypertension on exercise tolerance in patients with COPD: a prognostic systematic review and meta-analysis.

Torres-Castro R, Gimeno-Santos E, Vilaró J, Roqué-Figuls M, Moisés J, Vasconcello-Castillo L, Orizaga T, Barberà JA, Blanco I.

Eur Respir Rev. 2021 Apr 29;30(160):200321. doi: 10.1183/16000617.0321-2020. Print 2021 Jun 30.

<https://pubmed.ncbi.nlm.nih.gov/33927006/>

PHYSICAL ACTIVITY

Towards a better understanding of physical activity in people with COPD: predicting physical activity after pulmonary rehabilitation using an integrative competence model.

Carl JA, Geidl W, Schuler M, Mino E, Leibert N, Wittmann M, Schultz K, Pfeifer K. Chron Respir Dis. Jan-Dec 2021;18:1479973121994781. doi: 10.1177/1479973121994781.

<https://pubmed.ncbi.nlm.nih.gov/33703932/>

Behavioural modification interventions alongside pulmonary rehabilitation improve COPD patients' experiences of physical activity.

Armstrong M, Hume E, McNeillie L, Chambers F, Wakenshaw L, Burns G, Marshall KH, Vogiatzis I.

Respir Med. 2021 Mar 9;180:106353. doi: 10.1016/j.rmed.2021.106353. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33735798/>

Minimal clinically important difference for daily pedometer step count in COPD.

Polgar O, Patel S, Walsh JA, Barker RE, Clarke SF, Man WD, Nolan CM.

ERJ Open Res. 2021 Mar 22;7(1):00823-2020. doi: 10.1183/23120541.00823-2020. eCollection 2021 Jan.

<https://pubmed.ncbi.nlm.nih.gov/33778056/>

Mechanisms associated with increased physical activity in patients undergoing self-management behaviour modification in the randomised PHYSACTO trial.

Bourbeau J, Sedeno M, Li PZ, Troosters T, Hamilton A, De Sousa D, Maltais F, Erzen D, Lavoie KL.

ERJ Open Res. 2021 Mar 29;7(1):00533-2020. doi: 10.1183/23120541.00533-2020. eCollection 2021 Jan.

<https://pubmed.ncbi.nlm.nih.gov/33816600/>

Sedentary time in people with obstructive airway diseases.

Cordova-Rivera L, Gardiner PA, Gibson PG, Winkler EAH, Urroz PD, McDonald VM. Respir Med. 2021 Mar 24;181:106367. doi: 10.1016/j.rmed.2021.106367. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33831731/>

The Maugeri daily activity profile: a tool to assess physical activity in patients with chronic obstructive pulmonary disease.

Zampogna E, Bertolotti G, Ambrosino N, Lo Bello G, Cherubino F, Ianni A, Paneroni M, Pignatti P, Visca D, Zanini A, Giordano A.

Monaldi Arch Chest Dis. 2021 Apr 2. doi: 10.4081/monaldi.2021.1680. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33840180/>

Monitoring Physical Activity with a Wearable Sensor in Patients with COPD during In-Hospital Pulmonary Rehabilitation Program: A Pilot Study.

Rutkowski S, Buekers J, Rutkowska A, Cieřlik B, Szczegielniak J. Sensors (Basel). 2021 Apr 13;21(8):2742. doi: 10.3390/s21082742. PMID: 33924536.

<https://pubmed.ncbi.nlm.nih.gov/33924536/>

TELEMEDICINE*

**Composed in collaboration with Dr. Vitalii Poberezhets (Chair of Group 01.04 - m-Health/e-health)*

Pulmonary Rehabilitation in a Post-COVID-19 World: Telerehabilitation as a New Standard in Patients with COPD.

Tsutsui M, Gerayeli F, Sin DD.

Int J Chron Obstruct Pulmon Dis. 2021 Feb 19;16:379-391. doi: 10.2147/COPD.S263031.

eCollection 2021.PMID: 33642858

<https://pubmed.ncbi.nlm.nih.gov/33642858/>

Telehealth's New Horizon: Providing Smart Hospital-Level Care in the Home.

Rosen JM, Adams LV, Geiling J, Curtis KM, Mosher RE, Ball PA, Grigg EB, Hebert KA, Grodan JR, Jurmain JC, Loucks C, Macedonia CR, Kun L.

Telemed J E Health. 2021 Mar 3. doi: 10.1089/tmj.2020.0448. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33656918/>

Does remote patient monitoring reduce acute care use? A systematic review.

Taylor ML, Thomas EE, Snoswell CL, Smith AC, Caffery LJ.

BMJ Open. 2021 Mar 2;11(3):e040232. doi: 10.1136/bmjopen-2020-040232.

<https://pubmed.ncbi.nlm.nih.gov/33653740/>

A qualitative study of clinician perceptions regarding the potential role for digital health interventions for the management of COPD.

Slevin P, Kessie T, Cullen J, Butler MW, Donnelly SC, Caulfield B.

Health Informatics J. 2021 Jan-Mar;27(1):1460458221994888. doi:

10.1177/1460458221994888.

<https://pubmed.ncbi.nlm.nih.gov/33653189/>

eHealth Program to Reduce Hospitalizations Due to Acute Exacerbation of Chronic Obstructive Pulmonary Disease: Retrospective Study.

van Buul AR, Derksen C, Hoedemaker O, van Dijk O, Chavannes NH, Kasteleyn MJ. JMIR Form Res. 2021 Mar 18;5(3):e24726. doi: 10.2196/24726.

<https://pubmed.ncbi.nlm.nih.gov/33734091/>

The impact of the involvement of a healthcare professional on the usage of an eHealth platform: a retrospective observational COPD study.

van Zelst CM, Kasteleyn MJ, van Noort EMJ, Rutten-van Molken MPMH, Braunstahl G-J, Chavannes NH, In 't Veen JCCM.

Respir Res. 2021 Mar 21;22(1):88. doi: 10.1186/s12931-021-01685-0.

<https://pubmed.ncbi.nlm.nih.gov/33743686/>

Together for the Future - Development of a Digital Website to Support Chronic Obstructive Pulmonary Disease Self-Management: A Qualitative Study.

Kjellsdotter A, Andersson S, Berglund M.

J Multidiscip Healthc. 2021 Apr 6;14:757-766. doi: 10.2147/JMDH.S302013. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/33854327/>

Digital interventions for the management of chronic obstructive pulmonary disease.

Janjua S, Banchoff E, Threapleton CJ, Prigmore S, Fletcher J, Disler RT.

Cochrane Database Syst Rev. 2021 Apr 19;4:CD013246. doi:

10.1002/14651858.CD013246.pub2.

<https://pubmed.ncbi.nlm.nih.gov/33871065/>

Feasibility of a Health Coaching and Home-Based Rehabilitation Intervention With Remote Monitoring for COPD: A Mixed-Methods Randomized Study.

Benzo RP, Ridgeway J, Hoult JP, Novotny P, Thomas BE, Lam NM, V Benzo M, Kramer K, Seifert S.

Respir Care. 2021 Apr 27:respcare.08580. doi: 10.4187/respcare.08580. Online ahead of print. PMID: 33906954

<https://pubmed.ncbi.nlm.nih.gov/33906954/>

Development of a Novel Intervention (Mindful Steps) to Promote Long-Term Walking Behavior in Chronic Cardiopulmonary Disease: Protocol for a Randomized Controlled Trial.

Litrownik D, Gilliam EA, Wayne PM, Richardson CR, Kadri R, Rist PM, Moy ML, Yeh GY.

JMIR Res Protoc. 2021 Apr 29;10(4):e27826. doi: 10.2196/27826.

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Feasibility of an online platform delivery of pulmonary rehabilitation for individuals with chronic respiratory disease.

Lewis A, Knight E, Bland M, Middleton J, Mitchell E, McCrum K, Conway J, Bevan-Smith E.

BMJ Open Respir Res. 2021 Mar;8(1):e000880. doi: 10.1136/bmjresp-2021-000880. PMID: 33762360; PMCID: PMC7993314.

<https://pubmed.ncbi.nlm.nih.gov/33762360/>

Development of Respercise® a Digital Application for Standardizing Home Exercise in COPD Clinical Trials.

Yonchuk JG, Mohan D, LeBrasseur NK, George AR, Singh S, Tal-Singer R. *Chronic Obstr Pulm Dis.* 2021 Apr 27;8(2):269-276. doi: 10.15326/jcopdf.2020.0194. PMID: 33780603.

<https://pubmed.ncbi.nlm.nih.gov/33780603/>

The impact of a telemedicine intervention on home non-invasive ventilation in a rural population with advanced COPD

Leonard R, Forte M, Mehta D, Mujahid H, Stansbury R.. *Clin Respir J.* 2021 Mar 11. doi: 10.1111/crj.13354. Epub ahead of print. PMID: 33709528.

<https://pubmed.ncbi.nlm.nih.gov/33709528/>

Telerehabilitation in Subjects With Respiratory Disease: A Scoping Review.

Taito S, Yamauchi K, Kataoka Y. *Respir Care.* 2021 Apr;66(4):686-698. doi: 10.4187/respcare.08365. Epub 2021 Feb 2. PMID: 33531356.

<https://pubmed.ncbi.nlm.nih.gov/33531356/>

PATIENT REPORTED OUTCOME MEASURES

International psychometric validation of the Living with Chronic Illness Scale in Spanish-speaking patients with chronic obstructive pulmonary disease.

Corchon S, Rodriguez-Blazquez C, Carvajal-Carrascal G, Fuentes-Ramirez A, Ruiz de Ocenda MI, Caparros N, Timonet-Andreu E, Navarta-Sanchez MV, Ambrosio L.

BMJ Open. 2021 Mar 12;11(3):e039973. doi: 10.1136/bmjopen-2020-039973.

<https://pubmed.ncbi.nlm.nih.gov/33712522/>

Psychometric Properties of Patient-Reported Outcome Measures Assessing Self-Efficacy in Patients with Chronic Obstructive Pulmonary Disease (COPD): A Systematic Review.

Alsubheen SA, Wshah A, Goldstein R, Brooks D.

COPD. 2021 Mar 12:1-10. doi: 10.1080/15412555.2021.1897559. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33709848/>

Content validity of preference-based measures for economic evaluation in chronic obstructive pulmonary disease.

Mehdipour A, O'Hoski S, Beauchamp MK, Wald J, Kuspinar A.

Health Qual Life Outcomes. 2021 Mar 20;19(1):101. doi: 10.1186/s12955-021-01744-6.

<https://pubmed.ncbi.nlm.nih.gov/33743746/>

Face and content validity of the Carer Support Needs Assessment Tool (CSNAT), and feasibility of the CSNAT intervention, for carers of patients with chronic obstructive pulmonary disease.

Micklewright K, Farquhar M.

Chronic Illn. 2021 Mar 24:1742395321999433. doi: 10.1177/1742395321999433. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33761766/>

Cross-cultural adaptation and validation of the Norwegian version of the Leicester Cough Questionnaire in chronic obstructive pulmonary disease.

Haukeland-Parker S, Hasvik E, Jelsness-Jørgensen LP, Birring S, Johannessen HH. *Physiother Theory Pract.* 2021 Apr 10:1-10. doi: 10.1080/09593985.2021.1911012. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33840375/>

INTERSTITIAL LUNG DISEASE

How Do We Define a Meaningful Change in Quality of Life for Patients with Sarcoidosis?

Aronson KI, Swigris JJ.

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(LONG-TERM) IMPACT OF COVID-19

**Composed in collaboration with Roy Meys (PhD student of the department of Research and Development in Ciro, Horn, the Netherlands; an overview of the most recent papers published in this field can also be found on <https://www.ciro-horn.nl/en/ciro-academy/overview-covid-19-publications>)*

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