



ERS literature update November-December 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

Analysis of pulmonary rehabilitation therapy on the improvement of pulmonary function and quality of life in patients with stable COPD.

Huang S, Zeng G, Chen R.

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<https://pubmed.ncbi.nlm.nih.gov/34714017/>

Exercise-Based Rehabilitation Delivery Models in Comorbid Chronic Pulmonary Disease and Chronic Heart Failure.

Borghesi-Silva A, Garcia-Araújo AS, Winkermann E, Caruso FR, Bassi-Dibai D, Goulart CDL, Dixit S, Back GD, Mendes RG.

Front Cardiovasc Med. 2021 Oct 13;8:729073. doi: 10.3389/fcvm.2021.729073. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/34722662/>

Clinical effectiveness and components of Home-pulmonary rehabilitation for people with chronic respiratory diseases: a systematic review protocol.

Uzzaman MN, Chan SC, Shunmugam RH, Engkasan JP, Agarwal D, Habib GMM, Hanafi NS, Jackson T, Jebaraj P, Khoo EM, Liew SM, Mirza FT, Pinnock H, Rabinovich RA.

BMJ Open. 2021 Oct 12;11(10):e050362. doi: 10.1136/bmjopen-2021-050362.

<https://pubmed.ncbi.nlm.nih.gov/34642195/>

Home-based Pulmonary Rehabilitation is Effective in Frail COPD Patients with Chronic Respiratory Failure.

Gephine S, Saey D, Grosbois JM, Maltais F, Mucci P.

Chronic Obstr Pulm Dis. 2021 Nov 9. doi: 10.15326/jcopdf.2021.0250. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34755502/>

Trajectories of COPD patients' response to repeated pulmonary rehabilitation programs.

Al Chikhanie Y, Bailly S, Amroussia I, Veale D, Hérent F, Verges S.

Respir Med. 2021 Nov 5;190:106678. doi: 10.1016/j.rmed.2021.106678. Online ahead of print.

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A Home-Based Multimedia Pulmonary Rehabilitation Program Improves Clinical Symptoms and Physical Performance of Patients with Chronic Obstructive Pulmonary Disease.

Santiworakul A, Piya-Amornphan N, Jianramas N.

Int J Environ Res Public Health. 2021 Oct 31;18(21):11479. doi: 10.3390/ijerph182111479.
<https://pubmed.ncbi.nlm.nih.gov/34769994/>

Pulmonary rehabilitation for COPD: A narrative review and call for further implementation in Saudi Arabia.

Aldhahir AM, Alghamdi SM, Alqahtani JS, Alqahtani KA, Al Rajah AM, Alkathlan BS, Singh SJ, Mandal S, Hurst JR.

Ann Thorac Med. 2021 Oct-Dec;16(4):299-305. doi: 10.4103/atm.atm_639_20.

<https://pubmed.ncbi.nlm.nih.gov/34820017/>

Home-based pulmonary rehabilitation early after hospitalisation in COPD (early HomeBase): protocol for a randomised controlled trial.

Cox NS, Lahham A, McDonald CF, Mahal A, O'Halloran P, Hepworth G, Spencer L, McNamara RJ, Bondarenko J, Macdonald H, Gavin S, Burge AT, Le Maitre C, Ringin C, Webb E, Nichols A, Tsai LL, Luxton N, van Hilten S, Santos M, Crute H, Byrne M, Boursinos H, Broe J, Corbett M, Marceau T, Warrick B, Boote C, Melinz J, Holland AE.

BMJ Open Respir Res. 2021 Nov;8(1):e001107. doi: 10.1136/bmjresp-2021-001107.

<https://pubmed.ncbi.nlm.nih.gov/34819323/>

Predictors of Outpatient Pulmonary Rehabilitation Uptake, Adherence, Completion, and Treatment Response Among Male U.S. Veterans with COPD.

Bamonti PM, Boyle JT, Goodwin CL, Wan ES, Silberbogen AK, Finer EB, Moy ML.

Arch Phys Med Rehabil. 2021 Nov 29:S0003-9993(21)01573-2. doi:

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Pulmonary Rehabilitation for Patients After COPD Exacerbation.

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Respir Care. 2021 Dec 7:respcare.09066. doi: 10.4187/respcare.09066. Online ahead of print.

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Pain among Individuals with Chronic Respiratory Diseases Attending Pulmonary Rehabilitation.

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<https://pubmed.ncbi.nlm.nih.gov/34880534/>

Evidence Around the Impact of Pulmonary Rehabilitation and Exercise on Redox Status in COPD: A Systematic Review.

Watson A, Wilkinson TMA, Freeman A.

Front Sports Act Living. 2021 Nov 26;3:782590. doi: 10.3389/fspor.2021.782590. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/34901852/>

Changes in Exercise Capacity and Health-Related Quality of Life at Four and Eight Weeks of a Pulmonary Rehabilitation Program in People with COPD.

Bishop JA, Spencer LM, Dwyer TJ, McKeough ZJ, McAnulty A, Alison JA.

COPD. 2021 Dec 19;1-9. doi: 10.1080/15412555.2021.2013793. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/34927525/>

Efficacy of pulmonary rehabilitation on patients with non-cystic bronchiectasis according to disease severity.

Deniz S, Şahin H, Erbaycu AE.

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A primary care medical home approach to pulmonary rehabilitation.

Yurchak S, Rawlinson A, Schaub J, Shpilkerman YI, Makarowski C, Goddard K, Bhutani M, Comeau AC.

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EXERCISE TESTING AND TRAINING

Effect of liuzijue qigong on patients with stable chronic obstructive pulmonary disease: A systematic review and meta-analysis.

Gao P, Tang F, Liu W, He K, Mo Y.

Medicine (Baltimore). 2021 Oct 15;100(41):e27344. doi: 10.1097/MD.00000000000027344.

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Effect of interval compared to continuous exercise training on physiological responses in patients with chronic respiratory diseases: A systematic review and meta-analysis.

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Chron Respir Dis. 2021 Jan-Dec;18:14799731211041506. doi: 10.1177/14799731211041506.

<https://pubmed.ncbi.nlm.nih.gov/34666528/>

The Upper Extremity Functional Index: Reliability and Validity in Patients with Chronic Obstructive Pulmonary Disease.

Alnahdi AH, Albarrati A.

Int J Environ Res Public Health. 2021 Oct 10;18(20):10608. doi: 10.3390/ijerph182010608.

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Tai Chi for anxiety and depression symptoms in cancer, stroke, heart failure, and chronic obstructive pulmonary disease: A systematic review and meta-analysis.

Cai Q, Cai SB, Chen JK, Bai XH, Jing CX, Zhang X, Li JQ.

Complement Ther Clin Pract. 2021 Nov 2;46:101510. doi: 10.1016/j.ctcp.2021.101510.

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Impact of fan therapy during exercise on breathlessness and recovery time in patients with COPD: a pilot randomised controlled crossover trial.

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Effects of eccentric vs concentric cycling training on patients with moderate COPD.

Inostroza M, Valdés O, Tapia G, Núñez O, Kompen MJ, Nosaka K, Peñailillo L.

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High-intensity interval training and pulmonary hemodynamics in COPD with hypoxemia.

Aakerøy L, Nørstebø EA, Thomas KM, Holte E, Hegbom K, Brønstad E, Steinshamn S.

Eur Clin Respir J. 2021 Oct 11;8(1):1984642. doi: 10.1080/20018525.2021.1984642. eCollection 2021.

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A pilot study on the feasibility and effectiveness of treadmill-based perturbations for assessing and improving walking stability in chronic obstructive pulmonary disease.

McCrum C, Vaes AW, Delbressine JM, Koopman M, Liu WY, Willems P, Meijer K, Spruit MA. Clin Biomech (Bristol, Avon). 2021 Nov 21;91:105538. doi:

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Harnessing Digital Health to Objectively Assess Functional Performance in Veterans with Chronic Obstructive Pulmonary Disease.

Zhou H, Park C, Poursina O, Zahiri M, Nguyen H, Torres Ruiz I, Nguyen CK, Bryant MS, Sharafkhaneh A, Bandi VD, Najafi B.

Gerontology. 2021 Nov 29:1-11. doi: 10.1159/000520401. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34844245/>

Effects of Exercise Intervention on Peripheral Skeletal Muscle in Stable Patients With COPD: A Systematic Review and Meta-Analysis.

Li P, Li J, Wang Y, Xia J, Liu X.

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Effects of high-flow nasal cannula with oxygen on self-paced exercise performance in COPD: A randomized cross-over trial.

Chao KY, Liu WL, Nassef Y, Tseng CW, Wang JS.

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Effects of high flow nasal cannula on exercise endurance in patients with chronic obstructive pulmonary disease.

Chen YH, Huang CC, Lin HL, Cheng SL, Wu HP.

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PHYSICAL ACTIVITY

Energy expenditure per minute in different activities and body positions and its association with the classification as physically active or inactive in daily life in individuals with COPD.

Brito IL, Schneider L, Hirata RP, Fonseca J, Paes T, Machado FV, Rodrigues A, Hernandez NA, Pitta F.

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The ability of physical activity in reducing mortality risks and cardiovascular loading and in extending life expectancy in patients with COPD.

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<https://pubmed.ncbi.nlm.nih.gov/34737308/>

The Effect of a web-based physical activity intervention on COPD knowledge: A secondary cohort study.

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Differences in Sedentary Time, Light Physical Activity, and Steps Associated with Better COPD Quality of Life.

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Chronic Obstr Pulm Dis. 2021 Nov 15. doi: 10.15326/jcopdf.2021.0230. Online ahead of print.

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Minakata Y, Sasaki S, Azuma Y, Kawabe K, Ono H.

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Rebelo P, Brooks D, Marques A.

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Shimoda M, Takao S, Kokutou H, Yoshida N, Fujiwara K, Furuuchi K, Osawa T, Nakamoto K, Tanaka Y, Morimoto K, Yano R, Okumura M, Uchiyama T, Yoshimori K, Ohta K, Senjyu H.

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What Motivates Patients with COPD to Be Physically Active? A Cross-Sectional Study

Pimenta S, Silva CG, Flora S, Hipólito N, Burtin C, Oliveira A, Morais N, Brites-Pereira M, Carreira BP, Januário F, Andrade L, Martins V, Rodrigues F, Brooks D, Marques A, Cruz J.

J Clin Med. 2021 Nov 29;10(23):5631. doi: 10.3390/jcm10235631.

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Factors Associated with Reduction of Sedentary Time Following Tiotropium/Olodaterol Therapy in Treatment-Naive Chronic Obstructive Pulmonary Disease.

Takahashi K, Tashiro H, Tajiri R, Takamori A, Uchida M, Kato G, Kurihara Y, Sadamatsu H, Kinoshita T, Yoshida M, Kawaguchi A, Kimura S, Sueoka-Aragane N, Kawayama T; Saga-naïve COPD Physical Activity Evaluation (SCOPE) Study Investigator Group.

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The Arabic version of the Lower Extremity Functional Scale is a reliable and valid measure of activity limitation in people with chronic obstructive pulmonary disease.

Alnahdi AH, Albarrati A.

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J Health Psychol. 2021 Dec 29:13591053211059386. doi: 10.1177/13591053211059386. Online ahead of print.

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TELEMEDICINE*

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

An Embodied Conversational Agent in an eHealth Self-management Intervention for Chronic Obstructive Pulmonary Disease and Chronic Heart Failure: Exploratory Study in a Real-life Setting.

Ter Stal S, Sloots J, Ramlal A, Op den Akker H, Lenferink A, Tabak M.

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Irina BP, Steluta MM, Emanuela T, Diana M, Cristina OD, Mirela F, Cristian O.

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A home-based pulmonary rehabilitation mHealth system to enhance the exercise capacity of patients with COPD: development and evaluation.

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Rawal H, Cornelison SD, Flynn SM, Ohar JA.

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Ambrosino N, Pierucci P.

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Sculley JA, Musick H, Krishnan JA.

Curr Opin Pulm Med. 2021 Dec 1. doi: 10.1097/MCP.0000000000000851. Online ahead of print.

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Feasibility of RESP-FIT: Technology-Enhanced Self-Management Intervention for Adults with COPD.

Miller S, Teufel R 2nd, Nichols M, Davenport P, Mueller M, Silverman E, Madisetti M, Pittman M, Kelechi T, Strange C.

Int J Chron Obstruct Pulmon Dis. 2021 Dec 3;16:3263-3273. doi: 10.2147/COPD.S326675. eCollection 2021.

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Efficacy of Web-Based Supportive Interventions in Quality of Life in COPD Patients, a Systematic Review and Meta-Analysis.

Calvache-Mateo A, López-López L, Heredia-Ciuró A, Martín-Núñez J, Rodríguez-Torres J, Ortiz-Rubio A, Valenza MC.

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Effects of Person-Centered Care Using a Digital Platform and Structured Telephone Support for People With Chronic Obstructive Pulmonary Disease and Chronic Heart Failure: Randomized Controlled Trial.

Ali L, Wallström S, Fors A, Barenfeld E, Fredholm E, Fu M, Goudarzi M, Gyllensten H, Lindström Kjellberg I, Swedberg K, Vanfleteren LEGW, Ekman I.

J Med Internet Res. 2021 Dec 13;23(12):e26794. doi: 10.2196/26794.

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Application of Artificial Intelligence in Emergency Nursing of Patients with Chronic Obstructive Pulmonary Disease.

Hong L, Cheng X, Zheng D.

Contrast Media Mol Imaging. 2021 Nov 24;2021:6423398. doi: 10.1155/2021/6423398. eCollection 2021.

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A Digital Health Platform for Integrated and Proactive Patient-Centered Multimorbidity Self-management and Care (ProACT): Protocol for an Action Research Proof-of-Concept Trial.

Dinsmore J, Hannigan C, Smith S, Murphy E, Kuiper JML, O'Byrne E, Galvin M, Jacobs A, Sillevs Smitt M, van Leeuwen C, McAleer P, Tompkins L, Brady AM, McCarron M, Doyle J. JMIR Res Protoc. 2021 Dec 15;10(12):e22125. doi: 10.2196/22125.

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Song S, Xue X, Zhao YC, Li J, Zhu Q, Zhao M.

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Reliability of Commercial Voice Assistants' Responses to Health-Related Questions in Noncommunicable Disease Management: Factorial Experiment Assessing Response Rate and Source of Information.

Bérubé C, Kovacs ZF, Fleisch E, Kowatsch T.

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Anan SR, Hossain MA, Milky MZ, Khan MM, Masud M, Aljahdali S.

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The relationship between objective app engagement and medication adherence in asthma and COPD: a retrospective analysis.

Kaye L, Gondalia R, Thompson A, Stempel DA, Barrett MA.

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Gómez-Antúnez M, Recio-Iglesias J, Almagro P, Díez-Manglano J, López-García F, Boixeda R. Curr Med Res Opin. 2021 Dec 24:1-7. doi: 10.1080/03007995.2021.2014162. Epub ahead of print. PMID: 34894948.

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Role of new digital technologies and telemedicine in pulmonary rehabilitation: Smart devices in the treatment of chronic respiratory diseases.

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Wien Klin Wochenschr. 2021 Nov;133(21-22):1201-1207. doi: 10.1007/s00508-021-01930-y.

Epub 2021 Aug 30. PMID: 34460006; PMCID: PMC8599213.

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Use of a Digital Chronic Obstructive Pulmonary Disease Respiratory Tracker in a Primary Care Setting: A Feasibility Study.

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Importance of Imaging in Work up of Cardiovascular Diseases by Using Telemedicine in Rural India.

Dwivedi S, Sharma V, Roy K. J Assoc Physicians India. 2021 Nov;69(11):11-12. PMID: 34781608.

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Vagg T, Shanthikumar S, Morrissy D, Chapman WW, Plant BJ, Ranganathan S.

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Performance of the EQ-5D-5L Plus Respiratory Bolt-On in the Birmingham Chronic Obstructive Pulmonary Disease Cohort Study.

Hoogendoorn M, Jowett S, Dickens AP, Jordan R, Enocson A, Adab P, Versteegh M, Mölken MR.

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

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