



ERS literature update May-June 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

Pulmonary Rehabilitation Improves Self-Management Ability in Subjects With Obstructive Lung Disease.

Janssen SM, Vliet Vlieland TP, Volker G, Spruit MA, Abbink JJ.

Respir Care. 2021 May 4;respcare.07852. doi: 10.4187/respcare.07852. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33947790/>

Effect of home-based pulmonary rehabilitation on health-related quality of life, lung function, exercise tolerance, and dyspnea in chronic obstructive pulmonary disorder patients in a tertiary care center in South India.

Priya N, Isaac BTJ, Thangakunam B, Christopher DJ.

Lung India. 2021 May-Jun;38(3):211-215. doi: 10.4103/lungindia.lungindia_895_20.

<https://pubmed.ncbi.nlm.nih.gov/33942743/>

Safety of in-hospital early rehabilitation in chronic obstructive pulmonary disease exacerbations: a systematic review and meta-analysis.

Valenzuela PL, Saco-Ledo G, Rivas-Baeza B, Martínez-Velilla N, Izquierdo M, Lucia A.

Ann Phys Rehabil Med. 2021 Apr 30;101528. doi: 10.1016/j.rehab.2021.101528. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33940246/>

Perceptions and experiences of older patients and healthcare professionals regarding shared decision-making in pulmonary rehabilitation: A qualitative study.

Jiang Y, Guo J, Sun P, Chen Z, Liu F, Wang S, Ding Z.

Clin Rehabil. 2021 May 12;2692155211010279. doi: 10.1177/02692155211010279. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33977773/>

Evaluation of an Enhanced Pulmonary Rehabilitation Program: A Randomised Controlled Trial.

Selzler A-M, Jourdain T, Wald J, Sedeno M, Janaudis-Ferreira T, Goldstein R, Bourbeau J, Stickland MK.

Ann Am Thorac Soc. 2021 May 18. doi: 10.1513/AnnalsATS.202009-1160OC. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34004123/>

The severity of acute exacerbations of COPD and the effectiveness of pulmonary rehabilitation.

Vitacca M, Ambrosino N, Belli S, Vigna M, Zampogna E, Aliani M, Piaggi G, Paneroni M. *Respir Med.* 2021 May 14;184:106465. doi: 10.1016/j.rmed.2021.106465. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34023740/>

Benefits of pulmonary rehabilitation in COPD patients with mild cognitive impairment - A pilot study.

Andrianopoulos V, Gloeckl R, Schneeberger T, Jarosch I, Vogiatzis I, Hume E, Koczulla RA, Kenn K.

Respir Med. 2021 May 23;185:106478. doi: 10.1016/j.rmed.2021.106478. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34038843/>

Home-based versus outpatient pulmonary rehabilitation program for patients with chronic obstructive pulmonary disease: A protocol for systematic review and meta-analysis.

Shi G, Chen C.

Medicine (Baltimore). 2021 May 28;100(21):e26099. doi: 10.1097/MD.00000000000026099.

<https://pubmed.ncbi.nlm.nih.gov/34032747/>

Individualized, low-cost and accessible pulmonary rehabilitation program based on functional clinical tests for individuals with COPD-a study protocol of a randomized controlled trial.

da Silva MMC, Arcuri JF, Di Lorenzo VAP.

Trials. 2021 May 26;22(1):367. doi: 10.1186/s13063-021-05267-9.

<https://pubmed.ncbi.nlm.nih.gov/34039406/>

Effects of the Health Belief Model-Based Intervention on Anxiety, Depression, and Quality of Life in Chronic Obstructive Pulmonary Disease.

Zhang Y, Zhao X.

Neuroimmunomodulation. 2021 Jun 1;1-8. doi: 10.1159/000512993. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34062535/>

"Willingness to Pay": The Value Attributed to Program Location by Pulmonary Rehabilitation Participants.

COPD. 2021 Jun 1;1-7. doi: 10.1080/15412555.2021.1924127. Online ahead of print.

Burge AT, Holland AE, McDonald CF, Hill CJ, Lee AL, Cox NS, Moore R, Nicolson C, O'Halloran P, Lahhama A, Gillies R, Mahald A.

<https://pubmed.ncbi.nlm.nih.gov/34060968/>

Effects of a Home-Based Pulmonary Rehabilitation Program in Patients with Chronic Obstructive Pulmonary Disease in GOLD B Group: A Pilot Study.

Vilarinho R, Serra L, Coxo R, Carvalho J, Esteves C, Mesquita Montes A, Caneiras C.

Healthcare (Basel). 2021 May 4;9(5):538. doi: 10.3390/healthcare9050538.

<https://pubmed.ncbi.nlm.nih.gov/34064453/>

Perspective of Pulmonary Rehabilitation Centers in Latin America.

Barreto GZ, Ivanaga IT, Chiavegato L, Gazzotti MR, Nascimento OA, Jardim JR. COPD. 2021 Jun 14;1-5. doi: 10.1080/15412555.2021.1934822. Online ahead of print. <https://pubmed.ncbi.nlm.nih.gov/34120549/>

Influence of an Acute Exacerbation During Pulmonary Rehabilitation in Patients With Chronic Obstructive Pulmonary Disease Awaiting Lung Transplantation.

Gloeckl R, Jarosch I, Leitl D, Schneeberger T, Nell C, Langer D, Koczulla AR, Kenn K. J Cardiopulm Rehabil Prev. 2021 Jul 1;41(4):267-270. doi: 10.1097/HCR.0000000000000613. <https://pubmed.ncbi.nlm.nih.gov/34158456/>

Safety and efficacy of inpatient pulmonary rehabilitation for patients hospitalised with an acute exacerbation of chronic obstructive pulmonary disease: a systematic review protocol.

Zhu K, Gill J, Kirkham A, Chen J, Ellis A, Crosbie S, Denson-Camp H, Peters H, Camp P. BMJ Open. 2021 Jun 23;11(6):e043377. doi: 10.1136/bmjopen-2020-043377. <https://pubmed.ncbi.nlm.nih.gov/34162633/>

Understanding the Influences of COPD Patient's Capability on the Uptake of Pulmonary Rehabilitation in the UK Through an Inclusive Design Approach.

Liu Y, Dickerson T, Early F, Fuld J, Jiang C, Clarkson PJ. Int J Chron Obstruct Pulmon Dis. 2021 Jun 16;16:1717-1740. doi: 10.2147/COPD.S305145. eCollection 2021. <https://pubmed.ncbi.nlm.nih.gov/34168438/>

EXERCISE TESTING AND TRAINING

Reliability and Learning Effect of the Glittre ADL-Test in Patients with Chronic Obstructive Pulmonary Disease.

Araujo CLP, Gulart AA, Schneider BF, Moraes LR, Munari AB, Mayer AF, Lago PD. COPD. 2021 May 5:1-13. doi: 10.1080/15412555.2021.1919609. Online ahead of print. <https://pubmed.ncbi.nlm.nih.gov/33949911/>

Whole-body vibration training versus conventional balance training in patients with severe COPD-a randomized, controlled trial.

Gloeckl R, Schneeberger T, Leitl D, Reinold T, Nell C, Jarosch I, Kenn K, Koczulla AR. Respir Res. 2021 May 4;22(1):138. doi: 10.1186/s12931-021-01688-x. <https://pubmed.ncbi.nlm.nih.gov/33947416/>

Handgrip Strength as a Reflection of General Muscle Strength in Chronic Obstructive Pulmonary Disease.

Fonseca J, Machado FVC, Santin LC, Andrello AC, Schneider LP, Fernandes Belo L, Rodrigues A, Fernandes Rugila D, Furlanetto KC, Hernandez NA, Pitta F. COPD. 2021 May 7:1-12. doi: 10.1080/15412555.2021.1919608. Online ahead of print. <https://pubmed.ncbi.nlm.nih.gov/33961519/>

Effect of interval training with non-invasive ventilation in severe chronic obstructive pulmonary disease-a prospective cohort study with matched control group.

Fekete M, Kerti M, Fazekas-Pongor V, Balazs P, Csizmadia Z, Nemeth AN, Tarantini S, Varga JT.

Ann Palliat Med. 2021 Apr 20;apm-21-378. doi: 10.21037/apm-21-378. Online ahead of print.

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Effects of water-based Liuzijue exercise on peak exercise capacity, functional exercise capacity, and quality of life in people with COPD.

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Clin Respir J. 2021 May 17. doi: 10.1111/crj.13399. Online ahead of print.

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Effects of resistance training on exercise ability in chronic obstructive pulmonary disease subjects: a systematic review and meta-analysis.

Yu B, Tong S, Wu Y, Abdelrahim MEA, Cao M.

Int J Clin Pract. 2021 May 18;e14373. doi: 10.1111/ijcp.14373. Online ahead of print.

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Managing the experience of breathlessness with Tai Chi: A qualitative analysis from a randomized controlled trial in COPD.

Gilliam EA, Kilgore KL, Liu Y, Bernier L, Criscitiello S, Litrownik D, Wayne PM, Moy ML, Yeh GY.

Respir Med. 2021 May 15;184:106463. doi: 10.1016/j.rmed.2021.106463. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34023739/>

Effects of low and high resistance training intensities on clinical outcomes in patients with COPD - a randomized trial.

Gianjoppe-Santos J, Barusso-Grüninger M, Pires Di Lorenzo VA.

Physiother Theory Pract. 2021 May 20:1-12. doi: 10.1080/09593985.2021.1929616. Online ahead of print.

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Effect of inspiratory muscle training on dyspnea-related kinesiophobia in chronic obstructive pulmonary disease: A randomized controlled trial.

Saka S, Gurses HN, Bayram M.

Complement Ther Clin Pract. 2021 May 14;44:101418. doi: 10.1016/j.ctcp.2021.101418. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34034036/>

A comparison between Qigong exercise and cycle ergometer exercise for the rehabilitation of chronic obstructive pulmonary disease: A pilot randomized controlled trial (CONSORT).

Dong X, Wang X, Jia N, Chen X, Ding M.

Medicine (Baltimore). 2021 May 28;100(21):e26010. doi: 10.1097/MD.00000000000026010.

<https://pubmed.ncbi.nlm.nih.gov/34032718/>

The Impact of Yoga on Inspiratory Muscle Performance in Veterans with COPD: A Pilot Study.

DeLuca ND, Vajta Gomez JP, Vital I, Cahalin LP, Campos MA.

Int J Yoga Therap. 2021 May 27. doi: 10.17761/2021-D-19-00066. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34044450/>

Ventilatory adaptation during eccentric cycling in patients with severe COPD: potential implications for exercise training.

Nahmias O, Ritter O, Sagawa Y, Roux P, Degano B, Soumagne T.

Respir Physiol Neurobiol. 2021 May 29;103706. doi: 10.1016/j.resp.2021.103706. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34062283/>

Effect of Dynamic Hyperinflation on Cardiac Response to Exercise of Patients With Chronic Obstructive Pulmonary Disease.

Galera R, Casitas R, Martínez-Cerón E, Rodríguez-Fraga O, Utrilla C, Torres I, Cubillos-Zapata C, García-Río F.

Arch Bronconeumol. 2021 Jun;57(6):406-414. doi: 10.1016/j.arbr.2020.09.008.

<https://pubmed.ncbi.nlm.nih.gov/34088392/>

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Baffa GS, Goulart CDL, Caruso FR, Garcia de Araújo AS, Batista Dos Santos P, Roscani MG, Prone FR, Bonjorno JC, Mendes RG, Borghi-Silva A.

Heart Lung. 2021 Jun 1;50(5):609-614. doi: 10.1016/j.hrtlng.2021.04.004. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34087678/>

Exploring Tai Chi Exercise and Mind-Body Breathing in Patients with COPD in a Randomized Controlled Feasibility Trial.

Kraemer KM, Litrownik D, Moy ML, Wayne PM, Beach D, Klings ES, Reyes Nieva H, Pinheiro A, Davis RB, Yeh GY.

COPD. 2021 Jun 9;1-11. doi: 10.1080/15412555.2021.1928037. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34106027/>

Impact of Exercise Capacity Upon Respiratory Functions, Perception of Dyspnea, and Quality of Life in Patients with Chronic Obstructive Pulmonary Disease.

Liu W, Liu Y, Li X.

Int J Chron Obstruct Pulmon Dis. 2021 Jun 1;16:1529-1534. doi: 10.2147/COPD.S311221. eCollection 2021.

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Effect of portable non-invasive ventilation on thoracoabdominal volumes in recovery from intermittent exercise in patients with COPD.

Chynkiamis N, Lane ND, Megaritis D, Manifold J, Loizou I, Alexiou C, Riazati S, LoMauro A, Bourke SC, Vogiatzis I.

J Appl Physiol (1985). 2021 Jun 10. doi: 10.1152/jappphysiol.00081.2021. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34110232/>

Feasibility of a 6-Month Home-Based Fall Prevention Exercise Program in Older Adults with COPD.

Beauchamp MK, Ellerton C, Kirkwood R, Brooks D, Richardson J, Goldstein RS, Pugsley S, Hatzoglou D.

Int J Chron Obstruct Pulmon Dis. 2021 Jun 3;16:1569-1579. doi: 10.2147/COPD.S309537. eCollection 2021.

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Effect of Strength Versus Strength and Endurance Upper Limb Exercise Training in Patients With Chronic Obstructive Pulmonary Disease: A RANDOMIZED CLINICAL TRIAL.

Karagiannis C, Savva C, Korakakis V, Adamide T, Georgiou A, Matheou I, Prodromou A, Xanthos T.

J Cardiopulm Rehabil Prev. 2021 Jun 10. doi: 10.1097/HCR.0000000000000620. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34117184/>

The correlation between quadriceps muscle strength and endurance and exercise performance in patients with COPD.

Vaes AW, Sillen MJH, Goertz YMJ, Machado F, Van Herck M, Burtin C, Franssen FME, van 't Hul AJ, Spruit MA.

J Appl Physiol (1985). 2021 Jun 17. doi: 10.1152/jappphysiol.00149.2021. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34138649/>

A Machine Learning Approach to the Interpretation of Cardiopulmonary Exercise Tests: Development and Validation.

Inbar O, Inbar O, Reuveny R, Segel MJ, Greenspan H, Scheinowitz M.

Pulm Med. 2021 May 31;2021:5516248. doi: 10.1155/2021/5516248. eCollection 2021.

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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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<https://pubmed.ncbi.nlm.nih.gov/34154893/>

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Neves CDC, Lage VKS, Lima LP, Matos MA, Vieira ÉLM, Teixeira AL, Figueiredo PHS, Costa HS, Lacerda ACR, Mendonça VA.

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<https://pubmed.ncbi.nlm.nih.gov/34166733/>

Rib cage distortion and dynamic hyperinflation during two exercise intensities in people with COPD.

Vieira DSR, Mendes LPS, Alencar MCN, Hoffman M, Albuquerque ALP, Silveira BMF, Aguiar SC, Parreira VF.

Respir Physiol Neurobiol. 2021 Jun 23:103724. doi: 10.1016/j.resp.2021.103724. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34174483/>

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Stoffels AAF, De Brandt J, Meys R, van Hees HWH, Vaes AW, Klijn P, Burtin C, Franssen FME, van den Borst B, Sillen MJH, Janssen DJA, Spruit MA; BASES consortium.

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PHYSICAL ACTIVITY

Sedentary behavior is associated with chronic obstructive pulmonary disease: A generalized propensity score-weighted analysis.

Lei Y, Zou K, Xin J, Wang Z, Liang K, Zhao L, Ma X.

Medicine (Baltimore). 2021 May 7;100(18):e25336. doi: 10.1097/MD.00000000000025336.

<https://pubmed.ncbi.nlm.nih.gov/33950922/>

Barriers toward Physical Activity in COPD: A Quantitative Cross-Sectional, Questionnaire-Based Study.

Sritharan SS, Østergaard EB, Callesen J, Elkjaer M, Sand L, Hilberg O, Skaarup SH, Løkke A.

COPD. 2021 May 10:1-16. doi: 10.1080/15412555.2021.1922371. Online ahead of print.

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Sociodemographic Characteristics and Physical Activity in Patients with COPD: A 3-Month Cohort Study.

Dragnich AG, Yee N, Gylys-Colwell I, Locke ER, Nguyen HQ, Moy ML, Magzamen S, Fan VS.

COPD. 2021 May 10:1-13. doi: 10.1080/15412555.2021.1920902. Online ahead of print.

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Energy expenditure and physical activity in COPD by doubly labelled water method and an accelerometer.

Sato H, Nakamura H, Nishida Y, Shirahata T, Yogi S, Akagami T, Soma M, Inoue K, Niitsu M, Mio T, Miyashita T, Nagata M, Nakae S, Yamada Y, Tanaka S, Katsukawa F.

ERJ Open Res. 2021 May 4;7(2):00407-2020. doi: 10.1183/23120541.00407-2020.

<https://pubmed.ncbi.nlm.nih.gov/34007842/>

Isotonic quadriceps endurance is better associated with daily physical activity than quadriceps strength and power in COPD: an international multicentre cross-sectional trial.
Frykholm E, Gephine S, Saey D, Lemson A, Klijn P, Bij de Vaate E, Maltais F, van Hees H, Nyberg A.

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TELEMEDICINE*

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

Experiences and Factors Affecting Usage of an eHealth Tool for Self-Management Among People With Chronic Obstructive Pulmonary Disease: Qualitative Study.

Marklund S, Tistad M, Lundell S, Östrand L, Sörlin A, Boström C, Wadell K, Nyberg A.

J Med Internet Res. 2021 Apr 30;23(4):e25672. doi: 10.2196/25672.

<https://pubmed.ncbi.nlm.nih.gov/33929327/>

Acute Exacerbation of a Chronic Obstructive Pulmonary Disease Prediction System Using Wearable Device Data, Machine Learning, and Deep Learning: Development and Cohort Study.

Wu CT, Li GH, Huang CT, Cheng YC, Chen CH, Chien JY, Kuo PH, Kuo LC, Lai F.

JMIR Mhealth Uhealth. 2021 May 6;9(5):e22591. doi: 10.2196/22591.

<https://pubmed.ncbi.nlm.nih.gov/33955840/>

Transformations of practice in online exercise training for patients with COPD led by physiotherapists - a qualitative study.

Rayce K, Huniche L, Kidholm K, Vestbo J, Duedal Pedersen C, Rosenbek Minet.

Disabil Rehabil. 2021 May 13;1-10. doi: 10.1080/09638288.2021.1921063. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33984258/>

Preliminary Qualitative Evaluation of Patient-Related Perspectives Related to the Implementation of a Predictive Algorithm in a Telehealth System for COPD.

Bender C, Hangaard S, Kronborg T, Hejlesen OK, Secher PH.

Stud Health Technol Inform. 2021 May 27;281:545-549. doi: 10.3233/SHTI210230.

<https://pubmed.ncbi.nlm.nih.gov/34042635/>

Mobile application for monitoring patients under home oxygen therapy: a protocol for a randomized controlled trial.

Naranjo-Rojas A, Perula-de-Torres LÁ, Cruz-Mosquera FE, Molina-Recio G.

BMC Fam Pract. 2021 May 26;22(1):104. doi: 10.1186/s12875-021-01450-8.

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Chronic Obstructive Pulmonary Disease Patients' Acceptance in E-Health Clinical Trials.

Alghamdi SM, Al Rajah AM, Aldabayan YS, Aldhahir AM, Alqahtani JS, Alzahrani AA.

Int J Environ Res Public Health. 2021 May 14;18(10):5230. doi: 10.3390/ijerph18105230.

<https://pubmed.ncbi.nlm.nih.gov/34069028/5>

Perceptions of patients with chronic obstructive pulmonary disease towards telemedicine: A qualitative systematic review.

Li W, Liu W, Liu S, Li J, Wang W, Li K.

Heart Lung. 2021 Jun 6;50(5):675-684. doi: 10.1016/j.hrtlng.2021.03.081. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34107391/>

Recruiting patients to a digital self-management study whilst in hospital for a chronic obstructive pulmonary disease exacerbation: A feasibility analysis.

Whelan M, Biggs C, Areia C, King E, Lawson B, Newhouse N, Ding X, Velardo C, Bafadhel M, Tarassenko L, Watkinson P, Clifton D, Farmer A.

Digit Health. 2021 May 27;7:20552076211020876. doi: 10.1177/20552076211020876. eCollection 2021 Jan-Dec.

<https://pubmed.ncbi.nlm.nih.gov/34104470/>

Perspectives of older adults with chronic disease on the use of wearable technology and video games for physical activity.

Simmich J, Mandrusiak A, Russell T, Smith S, Hartley N.

Digit Health. 2021 May 30;7:20552076211019900. doi: 10.1177/20552076211019900. eCollection 2021 Jan-Dec.

<https://pubmed.ncbi.nlm.nih.gov/34104468/>

Web-Based Self-management Program (SPACE for COPD) for Individuals Hospitalized With an Acute Exacerbation of Chronic Obstructive Pulmonary Disease: Nonrandomized Feasibility Trial of Acceptability.

Houchen-Wolloff L, Orme M, Barradell A, Clinch L, Chaplin E, Gardiner N, Singh SJ.

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<https://pubmed.ncbi.nlm.nih.gov/34114960/>

Access to, use, knowledge, and preferences for information technology and technical equipment among people with chronic obstructive pulmonary disease (COPD) in Sweden. A cross-sectional survey study.

Sönnerrfors P, Skavberg Roaldsen K, Ståhle A, Wadell K, Halvarsson A.

BMC Med Inform Decis Mak. 2021 Jun 10;21(1):185. doi: 10.1186/s12911-021-01544-4.

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Li X, Zhou HP, Zhou ZJ, Du N, Zhong EH, Zhai K, Liu N, Zhou L.

Chin Med J (Engl). 2021 Jun 16. doi: 10.1097/CM9.0000000000001529. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34133349/>

Effect of internet-based self-management on pulmonary function rehabilitation and living quality in patients with chronic obstructive pulmonary disease.

Huang Q, Lin P, Dang J, Fu L, Ding L.
Am J Transl Res. 2021 May 15;13(5):5224-5231. eCollection 2021.
<https://pubmed.ncbi.nlm.nih.gov/34150112/>

The Accessibility, Feasibility, Safety of a Standardized Community-Based Tele-Pulmonary Rehab Program for COPD: A 3-Year Real-World Prospective Study.

Alwakeel AJ, Sicondolfo A, Robitaille C, Bourbeau J, Saad N.
Ann Am Thorac Soc. 2021 Jun 25. doi: 10.1513/AnnalsATS.202006-638OC. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/34170802/>

Testing the accuracy of a novel digital peak flow meter aligned with a smartphone app compared to a lab spirometer: A pilot work.

Sakkatos P, Williams A.
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Feasibility and Acceptability of an Asthma App to Monitor Medication Adherence: Mixed Methods Study.

Jácome C, Almeida R, Pereira AM, Amaral R, Mendes S, Alves-Correia M, Vidal C, López Freire S, Méndez Brea P, Araújo L, Couto M, Antolín-Amérigo D, de la Hoz Caballer B, Barra Castro A, Gonzalez-De-Olano D, Todo Bom A, Azevedo J, Leiria Pinto P, Pinto N, Castro Neves A, Palhinha A, Todo Bom F, Costa A, Chaves Loureiro C, Maia Santos L, Arrobas A, Valério M, Cardoso J, Emiliano M, Gerardo R, Cidrais Rodrigues JC, Oliveira G, Carvalho J, Mendes A, Lozoya C, Santos N, Menezes F, Gomes R, Câmara R, Rodrigues Alves R, Moreira AS, Bordalo D, Alves C, Ferreira JA, Lopes C, Silva D, Vasconcelos MJ, Teixeira MF, Ferreira-Magalhães M, Taborda-Barata L, Cálix MJ, Alves A, Almeida F.
JGIM. 2021 May 25;36(5):e26442. doi: 10.2196/26442. PMID: 34032576.
<https://pubmed.ncbi.nlm.nih.gov/34032576/>

Digital Health Europe (DHE) Twinning on severe asthma-kick-off meeting report.

Bousquet J, Bedbrook A, Czarlewski W, De Carlo G, Fonseca JA, González Ballester MA, Illario M, Koskinen S, Laatikainen T, Onorato GL, Palkonen S, Patella V, Pham-Thi N, Puggioni F, Ventura MT, Joos G, Kuna P, Louis R, Makris M, Zalud P, Zuberbier T, Bachert C, Brussino L, Carreiro-Martins P, Carrion Y Ribas C, Chalubinski M, Costa EM, de Vries G, Gemicoglu B, Gennimata D, Micheli Y, Niedoszytko M, Regateiro FS, Romantowski J, Taborda-Barata L, Toppila-Salmi S, Tsiligianni I, Viart F, Laune D.
J Thorac Dis. 2021 May;13(5):3215-3225. doi: 10.21037/jtd-21-792. PMID: 34164213; PMCID: PMC8182538.
<https://pubmed.ncbi.nlm.nih.gov/34164213/>

Impact of Technology-Based Interventions on Patient-Reported Outcomes in Asthma: A Systematic Review.

Doshi H, Hsia B, Shahani J, Mowrey W, Jariwala SP.
J Allergy Clin Immunol Pract. 2021 Jun;9(6):2336-2341. doi: 10.1016/j.jaip.2021.01.027. Epub 2021 Feb 4. PMID: 33548519.

<https://pubmed.ncbi.nlm.nih.gov/33548519/>

PATIENT REPORTED OUTCOME MEASURES

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