



ERS literature update September-October 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 retinal blood vessel diameters in patients with COPD undergoing a pulmonary rehabilitation program.

Vaes AW, Spruit MA, Goswami N, Theunis J, Franssen FME, De Boever P.

Microvasc Res. 2021 Sep 4:104238. doi: 10.1016/j.mvr.2021.104238. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34492257/>

Effects of Pulmonary Rehabilitation on Diaphragm Thickness and Contractility in Patients with Chronic Obstructive Pulmonary Disease.

Güneş S, Genç A, Kurtaiş Y, Çiftci F, Hayme S, Kaya A.

Turk J Med Sci. 2021 Sep 28. doi: 10.3906/sag-2105-345. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34579511/>

Factors influencing participation in educational workshops as part of a pulmonary rehabilitation program in patients with chronic obstructive pulmonary disease: a retrospective study.

Smondack P, Gravier FE, Combret Y, Muir JF, Cuvelier A, Debeaumont D, Medrinal C, Prieur G, Bonnevie T.

Expert Rev Respir Med. 2021 Oct 8. doi: 10.1080/17476348.2022.1991793. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34623218/>

Pulmonary Rehabilitation in Management of Chronic Obstructive Pulmonary Disease.

Alharbi MG, Kalra HS, Suri M, Soni N, Okpaleke N, Yadav S, Shah S, Iqbal Z, Hamid P.

Cureus. 2021 Oct 1;13(10):e18414. doi: 10.7759/cureus.18414. eCollection 2021 Oct.

<https://pubmed.ncbi.nlm.nih.gov/34646587/>

The use of near-infrared spectroscopy for the evaluation of a 4-week rehabilitation program in patients with COPD.

Szucs B, Petrekanits M, Fekete M, Varga JT.

Physiol Int. 2021 Oct 14. doi: 10.1556/2060.2021.00185. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34662293/>

Combined effect of pulmonary rehabilitation and music therapy in patients with chronic obstructive pulmonary disease.

Okamoto J, Furukawa Y, Kobinata N, Yoshikawa H, Araki F, Yagyu A, Iwasaka Y.

J Phys Ther Sci. 2021 Oct;33(10):779-783. doi: 10.1589/jpts.33.779. Epub 2021 Oct 13.

<https://pubmed.ncbi.nlm.nih.gov/34658524/>

Pulmonary rehabilitation in a postcoronavirus disease 2019 world: feasibility, challenges, and solutions.

Wen J, Milne S, Sin DD.

Curr Opin Pulm Med. 2021 Oct 21. doi: 10.1097/MCP.0000000000000832. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34690256/>

Does branched-chain amino acid supplementation improve pulmonary rehabilitation effect in COPD?

de Bisschop C, Caron F, Ingrand P, Bretonneau Q, Dupuy O, Meurice JC.

Respir Med. 2021 Oct 12;189:106642. doi: 10.1016/j.rmed.2021.106642. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34678585/>

Barriers to enrollment in pulmonary rehabilitation: medical knowledge analysis.

Gushken F, Degani-Costa LH, Colognese TCP, Rodrigues MT, Zanetti M, Bonamigo-Filho JL, Matos LDNJ.

Einstein (Sao Paulo). 2021 Oct 25;19:eAO6115. doi: 10.31744/einstein_journal/2021AO6115. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/34705946/>

Pulmonary rehabilitation in idiopathic pulmonary fibrosis and COPD: a propensity matched real-world study.

Nolan CM, Polgar O, Schofield SJ, Patel S, Barker RE, Walsh JA, Ingram KA, George PM, Molyneaux PL, Maher TM, Man WD.

Chest. 2021 Oct 23:S0012-3692(21)04208-2. doi: 10.1016/j.chest.2021.10.021. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34699771/>

Usefulness of Pulmonary Rehabilitation in Non-small Cell Lung Cancer Patients Based on Pulmonary Function Tests and Muscle Analysis Using Computed Tomography Images.

Choi J, Yang Z, Lee J, Lee JH, Kim HK, Yong HS, Lee SY.

Cancer Res Treat. 2021 Oct 20. doi: 10.4143/crt.2021.769. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34696566/>

EXERCISE TESTING AND TRAINING

Clinician-Led Balance Training in Pulmonary Rehabilitation.

O'Hoski S, Harrison SL, Butler S, Goldstein R, Brooks D.

Physiother Can. 2021 Summer;73(3):235-243. doi: 10.3138/ptc-2019-0111.

<https://pubmed.ncbi.nlm.nih.gov/34456440/>

Responsiveness and Minimal Clinically Important Difference of the Brief-BESTest in People with COPD after Pulmonary Rehabilitation.

Paixão C, Rebelo P, Oliveira A, Jácome C, Cruz J, Martins V, Simão P, Marques A.

Phys Ther. 2021 Sep 6:pzab209. doi: 10.1093/ptj/pzab209. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/34499161/>

A prospective study on physical performance of Chinese chronic obstructive pulmonary disease males with type 2 diabetes.

Liu J, Song X, Zheng S, Ding H, Wang H, Sun X, Ren X.
Medicine (Baltimore). 2021 Sep 3;100(35):e27126. doi: 10.1097/MD.00000000000027126.
<https://pubmed.ncbi.nlm.nih.gov/34477156/>

Predictors of improvement in resting heart rate after exercise training in patients with chronic obstructive pulmonary disease.

Naz İ, Şahin H, Aktaş B.
Ir J Med Sci. 2021 Sep 11. doi: 10.1007/s11845-021-02771-4. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/34510377/>

Impact of chronic obstructive pulmonary disease on passive viscoelastic components of the musculoarticular system.

Valle MS, Casabona A, Di Fazio E, Crimi C, Russo C, Malaguarnera L, Crimi N, Cioni M.
Sci Rep. 2021 Sep 10;11(1):18077. doi: 10.1038/s41598-021-97621-9.
<https://pubmed.ncbi.nlm.nih.gov/34508166/>

Identifying a Heart Rate Recovery Criterion After a 6-Minute Walk Test in COPD.

Zhao D, Abbasi A, Casaburi R, Adami A, Tiller NB, Yuan W, Yee C, Jendzjowsky NG, MacDonald DM, Kunisaki KM, Stringer WW, Porszasz J, Make BJ, Bowler RP, Rossiter HB; COPDGene Investigators.
Int J Chron Obstruct Pulmon Dis. 2021 Sep 4;16:2545-2560. doi: 10.2147/COPD.S311572. eCollection 2021.
<https://pubmed.ncbi.nlm.nih.gov/34511898/>

Respiratory physiotherapy interventions focused on exercise training and enhancing physical activity levels in people with chronic obstructive pulmonary disease are likely to be cost-effective: a systematic review.

Leemans G, Taeymans J, Van Royen P, Vissers D.
J Physiother. 2021 Sep 15:S1836-9553(21)00098-9. doi: 10.1016/j.jphys.2021.08.018. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/34538589/>

Respiratory Muscle Weakness and its Association with Exercise Capacity in Patients with Chronic Obstructive Pulmonary Disease.

Souza Y, Suzana ME, Medeiros S, Macedo J, Costa CHD.
Clin Respir J. 2021 Sep 22. doi: 10.1111/crj.13449. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/34551459/>

Effects of specific inspiratory muscle training combined with whole-body endurance training program on balance in COPD patients: Randomized controlled trial.

Tounsi B, Acheche A, Lelard T, Tabka Z, Trabelsi Y, Ahmaidi S.

PLoS One. 2021 Sep 23;16(9):e0257595. doi: 10.1371/journal.pone.0257595. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/34555068/>

Ultrasound assessment of the rectus femoris in patients with chronic obstructive pulmonary disease predicts poor exercise tolerance: an exploratory study.

Deng M, Liang C, Yin Y, Shu J, Zhou X, Wang Q, Hou G, Wang C.

BMC Pulm Med. 2021 Sep 25;21(1):304. doi: 10.1186/s12890-021-01663-8.

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Functionally relevant threshold of inspiratory muscle strength in patients with chronic obstructive pulmonary disease.

Iwakura M, Wakasa M, Okura K, Kawagoshi A, Sugawara K, Takahashi H, Shioya T.

Respir Med. 2021 Sep 24;188:106625. doi: 10.1016/j.rmed.2021.106625. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34592537/>

A new protocol for exercise testing in COPD; improved prediction algorithm for W(MAX) and validation of the endurance test in a placebo-controlled double bronchodilator study.

Tufvesson E, Radner F, Simonsen A, Papapostolou G, Jarenbäck L, Jönsson S, Nihlen U,

Tunsäter A, Ankerst J, Peterson S, Bjermer L, Eriksson G.

Ther Adv Respir Dis. 2021 Jan-Dec;15:17534666211037454. doi:

10.1177/17534666211037454.

<https://pubmed.ncbi.nlm.nih.gov/34590519/>

Whole-body & muscle responses to aerobic exercise training and withdrawal in ageing & COPD.

Latimer LE, Constantin-Teodosiu D, Popat B, Constantin D, Houchen-Wolloff L, Bolton CE, Steiner MC, Greenhaff PL.

Eur Respir J. 2021 Sep 29:2101507. doi: 10.1183/13993003.01507-2021. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34588196/>

Impact of resistance training on the 6-minute walk test in individuals with chronic obstructive pulmonary disease: a systematic review and meta-analysis.

Ferté JB, Boyer FC, Taiar R, Pineau C, Barbe C, Rapin A.

Ann Phys Rehabil Med. 2021 Oct 6:101582. doi: 10.1016/j.rehab.2021.101582. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34626862/>

Use of Singing for Lung Health as an alternative training modality within pulmonary rehabilitation for COPD: an RCT.

Kaasgaard M, Rasmussen DB, Andreasson KH, Hilberg O, Løkke A, Vuust P, Bodtger U.

Eur Respir J. 2021 Oct 8:2101142. doi: 10.1183/13993003.01142-2021. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34625480/>

Can static hyperinflation predict exercise capacity in COPD?

Ladeira I, Oliveira P, Gomes J, Lima R, Guimarães M.

Pulmonology. 2021 Oct 8:S2531-0437(21)00188-4. doi: 10.1016/j.pulmoe.2021.08.011.

Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34629326/>

Effect of sitting and lying Liuzijue exercise for pulmonary rehabilitation in acute exacerbation of chronic obstructive pulmonary disease patients with non-invasive ventilation: a randomized controlled trial.

Liao S, Wang F, Lin Q, Jian F, Li Y, Zhong Q, Huang Y, Lin Y, Wang H.

Ann Palliat Med. 2021 Sep;10(9):9914-9926. doi: 10.21037/apm-21-2157.

<https://pubmed.ncbi.nlm.nih.gov/34628916/>

Qualitative Components of Dyspnea during Incremental Exercise across the COPD Continuum.

Philips DB, Neder JA, Elbehairy AF, Milne KM, James MD, Vincent SG, Day AG, de-Torres JP, Webb KA, O'Donnell DE.

Med Sci Sports Exerc. 2021 Jul 7. doi: 10.1249/MSS.0000000000002741. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34649264/>

Effect of nocturnal oxygen therapy on exercise performance of COPD patients at 2048 m: data from a randomized clinical trial.

Gutweniger S, Latshang TD, Aeschbacher SS, Huber F, Flueck D, Lichtblau M, Ulrich S, Hasler ED, Scheiwiller PM, Ulrich S, Bloch KE, Furian M.

Sci Rep. 2021 Oct 13;11(1):20355. doi: 10.1038/s41598-021-98395-w.

<https://pubmed.ncbi.nlm.nih.gov/34645842/>

Nasal High-Flow during Exercise in Patients with COPD: A Systematic Review and Meta-Analysis.

Prieur G, Delorme M, Leuret M, Combret Y, Machefert M, Medrinal C, Smondack P, Gravier FE, Lamia B, Bonnevie T, Reychler G.

Ann Am Thorac Soc. 2021 Oct 13. doi: 10.1513/AnnalsATS.202104-436SR. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34644515/>

Automatic oxygen titration versus constant oxygen flow rates during walking in COPD: a randomised controlled, double-blind, crossover trial.

Schneeberger T, Jarosch I, Leitl D, Gloeckl R, Hitzl W, Dennis CJ, Geyer T, Criée CP, Koczulla AR, Kenn K.

Thorax. 2021 Oct 16:thoraxjnl-2020-216509. doi: 10.1136/thoraxjnl-2020-216509. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34656996/>

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

Alexiou C, Ward L, Hume E, Armstrong M, Wilkinson M, Vogiatzis I.

Chron Respir Dis. 2021 Jan-Dec;18:14799731211041506. doi: 10.1177/14799731211041506.
<https://pubmed.ncbi.nlm.nih.gov/34666528/>

Diaphragmatic excursion is correlated with the improvement in exercise tolerance after pulmonary rehabilitation in patients with chronic obstructive pulmonary disease.

Shiraishi M, Higashimoto Y, Sugiya R, Mizusawa H, Takeda Y, Fujita S, Nishiyama O, Kudo S, Kimura T, Chiba Y, Fukuda K, Tohda Y, Matsumoto H.

Respir Res. 2021 Oct 22;22(1):271. doi: 10.1186/s12931-021-01870-1.

<https://pubmed.ncbi.nlm.nih.gov/34686189/>

Isolated Resistance Training Programs to Improve Peripheral Muscle Function in Outpatients with Chronic Obstructive Pulmonary Diseases: A Systematic Review.

Pancera S, Lopomo NF, Bianchi LNC, Pedersini P, Villafañe JH.

Healthcare (Basel). 2021 Oct 19;9(10):1397. doi: 10.3390/healthcare9101397.

<https://pubmed.ncbi.nlm.nih.gov/34683077/>

PHYSICAL ACTIVITY

Targeting exertional breathlessness to improve physical activity: the role of primary care.

Román-Rodríguez M, Kocks JWH.

NPJ Prim Care Respir Med. 2021 Sep 9;31(1):41. doi: 10.1038/s41533-021-00254-8.

<https://pubmed.ncbi.nlm.nih.gov/34504091/>

Factors associated with physical activity among COPD patients with mild or moderate airflow obstruction.

R van Buul A, J Kasteleyn M, Poberezhets V, N Bonten T, De Mutsert R, S Hiemstra P, le Cessie S, R Rosendaal F, H Chavannes N, Taube C.

Monaldi Arch Chest Dis. 2021 Sep 14. doi: 10.4081/monaldi.2021.1891. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34523325/>

High 24-Hour Respiratory Symptoms and Low Physical Activity in the Stable COPD Romanian Cohort of SPACE Study.

Mihaltan F, Rajnoveanu RM, Arghir OC, Alecu S, Postolache PA.

Int J Chron Obstruct Pulmon Dis. 2021 Sep 6;16:2533-2544. doi: 10.2147/COPD.S321197. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/34522093/>

Embedding a Behavior Change Program Designed to Reduce Sedentary Time Within a Pulmonary Rehabilitation Program Is Feasible in People With COPD.

Wshah A, Selzler AM, Hill K, Brooks D, Goldstein R.

J Cardiopulm Rehabil Prev. 2021 Sep 13. doi: 10.1097/HCR.0000000000000624. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34520411/>

An Exploration of the Application of Step Counter-Based Physical Activity Promotion Programs in Patients With Chronic Obstructive Pulmonary Disease: A Systematic Review.

Han X, Li P, Yang Y, Liu X, Xia J, Wu W.

Front Public Health. 2021 Sep 23;9:691554. doi: 10.3389/fpubh.2021.691554. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/34631641/>

Effect of counselling during pulmonary rehabilitation on self-determined motivation to be physically active for people with chronic obstructive pulmonary disease: a pragmatic RCT.

Rausch Osthoff AK, Beyer S, Gisi D, Rezek S, Schwank A, Meichtry A, Sievi NA, Hess T, Wirz M. BMC Pulm Med. 2021 Oct 12;21(1):317. doi: 10.1186/s12890-021-01685-2.

<https://pubmed.ncbi.nlm.nih.gov/34641819/>

TELEMEDICINE*

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

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

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

Wien Klin Wochenschr. 2021 Aug 30. doi: 10.1007/s00508-021-01930-y. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34460006/>

Developing a Web Platform to Optimize the Self-Management of People Living with a Chronic Respiratory Disease.

Tanguay P, Décary S, Martineau-Roy J, Gravel EM, Gervais I, St-Jean P, Tousignant M, Marquis N.

Physiother Can. 2021 Spring;73(2):136-144. doi: 10.3138/ptc-2019-0110.

<https://pubmed.ncbi.nlm.nih.gov/34456423/>

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

Criner GJ, Cole T, Hahn KA, Kastango K, Eudicone JM, Gilbert I.

Pulm Ther. 2021 Aug 31. doi: 10.1007/s41030-021-00168-3. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/34463947/>

Remote-Management of COPD: Evaluating the Implementation of Digital Innovation to Enable Routine Care (RECEIVER): the protocol for a feasibility and service adoption observational cohort study.

Taylor A, Lowe DJ, McDowell G, Lua S, Burns S, McGinness P, Carlin CM.

BMJ Open Respir Res. 2021 Aug;8(1):e000905. doi: 10.1136/bmjresp-2021-000905.

<https://pubmed.ncbi.nlm.nih.gov/34462271/>

"We are so close; yet too far": perceived barriers to smartphone-based telerehabilitation among healthcare providers and patients with Chronic Obstructive Pulmonary Disease in India.

Bairapareddy KC, Alaparathi GK, Jitendra RS, Prathiksha, Rao PP, Shetty V, Chandrasekaran B.

Heliyon. 2021 Aug 23;7(8):e07857. doi: 10.1016/j.heliyon.2021.e07857. eCollection 2021 Aug.

<https://pubmed.ncbi.nlm.nih.gov/34485736/>

A randomised trial of a web-based physical activity self-management intervention in COPD.

Robinson SA, Cooper JA Jr, Goldstein RL, Polak M, Cruz Rivera PN, Gagnon DR, Samuelson A, Moore S, Kadri R, Richardson CR, Moy ML.

ERJ Open Res. 2021 Aug 31;7(3):00158-2021. doi: 10.1183/23120541.00158-2021. eCollection 2021 Jul.

<https://pubmed.ncbi.nlm.nih.gov/34476247/>

Determinants of the Use of Health and Fitness Mobile Apps by Patients With Asthma: Secondary Analysis of Observational Studies.

Neves AL, Jácome C, Taveira-Gomes T, Pereira AM, Almeida R, Amaral R, Alves-Correia M, Mendes S, Chaves-Loureiro C, Valério M, Lopes C, Carvalho J, Mendes A, Ribeiro C, Prates S, Ferreira JA, Teixeira MF, Branco J, Santalha M, Vasconcelos MJ, Lozoya C, Santos N, Cardia F, Moreira AS, Taborda-Barata L, Pinto CS, Ferreira R, Morais Silva P, Monteiro Ferreira T, Câmara R, Lobo R, Bordalo D, Guimarães C, Espírito Santo M, Ferraz de Oliveira J, Cálix Augusto MJ, Gomes R, Vieira I, da Silva S, Marques M, Cardoso J, Morete A, Aroso M, Cruz AM, Nunes C, Câmara R, Rodrigues N, Abreu C, Albuquerque AL, Vieira C, Santos C, Páscoa R, Chaves-Loureiro C, Alves A, Neves Â, Varanda Marques J, Reis B, Ferreira-Magalhães M, Almeida Fonseca J.

J Med Internet Res. 2021 Sep 22;23(9):e25472. doi: 10.2196/25472.

<https://pubmed.ncbi.nlm.nih.gov/34550077/>

Effectiveness of Telemonitoring for Reducing Exacerbation Occurrence in COPD Patients With Past Exacerbation History: A Systematic Review and Meta-Analysis.

Lu JW, Wang Y, Sun Y, Zhang Q, Yan LM, Wang YX, Gao JH, Yin Y, Wang QY, Li XL, Hou G.

Front Med (Lausanne). 2021 Sep 10;8:720019. doi: 10.3389/fmed.2021.720019. eCollection 2021.

<https://pubmed.ncbi.nlm.nih.gov/34568376/>

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 Sep-Oct;50(5):675-684. doi: 10.1016/j.hrtlng.2021.03.081. Epub 2021 Jun 6.

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

Chronic patient remote monitoring through the application of big data and internet of things.

Morales-Botello ML, Gachet D, de Buenaga M, Aparicio F, Busto MJ, Ascanio JR.

Health Informatics J. 2021 Jul-Sep;27(3):14604582211030956. doi: 10.1177/14604582211030956.

<https://pubmed.ncbi.nlm.nih.gov/34256646/>

Revealing the Nature of Chronic Obstructive Pulmonary Disease Using Self-tracking and Analysis of Contact Patterns: Longitudinal Study.

Phanareth K, Dam AL, Hansen MABC, Lindskrog S, Vingtoft S, Kayser L.
J Med Internet Res. 2021 Oct 19;23(10):e22567. doi: 10.2196/22567.
<https://pubmed.ncbi.nlm.nih.gov/34665151/>

Examining the Trends in Online Health Information-Seeking Behavior About Chronic Obstructive Pulmonary Disease in Singapore: Analysis of Data From Google Trends and the Global Burden of Disease Study.

Fang Y, Shepherd TA, Smith HE.
J Med Internet Res. 2021 Oct 18;23(10):e19307. doi: 10.2196/19307.
<https://pubmed.ncbi.nlm.nih.gov/34661539/>

Development of a smartphone application for Korean patients with chronic obstructive pulmonary disease: Self-monitoring based action plans.

Choi JY, George M, Yun SY.
Appl Nurs Res. 2021 Oct;61:151475. doi: 10.1016/j.apnr.2021.151475.
<https://pubmed.ncbi.nlm.nih.gov/34544569/>

Assessing the usability of wearable devices to measure gait and physical activity in chronic conditions: a systematic review.

Keogh A, Argent R, Anderson A, Caulfield B, Johnston W.
J Neuroeng Rehabil. 2021 Sep 15;18(1):138. doi: 10.1186/s12984-021-00931-2.
<https://pubmed.ncbi.nlm.nih.gov/34526053/>

Remote Assessment of Lung Disease and Impact on Physical and Mental Health (RALPMH): Protocol for a Prospective Observational Study.

Ranjan Y, Althobiani M, Jacob J, Orini M, Dobson RJ, Porter J, Hurst J, Folarin AA.
JMIR Res Protoc. 2021 Oct 7;10(10):e28873. doi: 10.2196/28873.
<https://pubmed.ncbi.nlm.nih.gov/34319235/>

PATIENT REPORTED OUTCOME MEASURES

Screening Tools for Depression and Anxiety in Patients with Chronic Obstructive Pulmonary Disease - A Systematic Review.

Larsen CH, Bendstrup E, Neergaard MA.
COPD. 2021 Sep 5:1-7. doi: 10.1080/15412555.2021.1972091. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/34486457/>

Brief Spanish Zung Self-Rating Anxiety Scale: Dimensionality, Internal Consistency, Nomological Validity, and Differential Item Functioning Among Chronic Obstructive Pulmonary Disease Patients in Colombia.

Campo-Arias A, Blanco-Ortega JD, Pedrozo-Pupo JC.
J Nurs Meas. 2021 Sep 13:JNM-D-20-00125. doi: 10.1891/JNM-D-20-00125. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/34518431/>

The fatigue and quality of life in patients with chronic pulmonary diseases.

Szymanska-Chabowska A, Juzwyszyn J, Tański W, Świątkowski F, Kobecki J, Chabowski M. Sci Prog. 2021 Jul-Sep;104(3):368504211044034. doi: 10.1177/00368504211044034. <https://pubmed.ncbi.nlm.nih.gov/34541942/>

Impact of Lung Function and Exacerbations on Health-Related Quality of Life in COPD Patients Within One Year: Real-World Analysis Based on Claims Data.

Stöber A, Lutter JI, Schwarzkopf L, Kirsch F, Schramm A, Vogelmeier CF, Leidl R. Int J Chron Obstruct Pulmon Dis. 2021 Sep 21;16:2637-2651. doi: 10.2147/COPD.S313711. eCollection 2021. <https://pubmed.ncbi.nlm.nih.gov/34588773/>

Use of the Evaluating Respiratory Symptoms™ in COPD as an Outcome Measure in Clinical Trials: A Rapid Systematic Review.

Bushnell DM, Wilson R, Gutzwiller FS, Leidy NK, Hache C, Thach C, Vogelmeier CF. Chronic Obstr Pulm Dis. 2021 Oct 1. doi: 10.15326/jcopdf.2021.0235. Online ahead of print. <https://pubmed.ncbi.nlm.nih.gov/34614551/>

Adaptation and validation of the Chinese version of Dyspnoea-12 scale in individuals with chronic obstructive pulmonary disease.

Choi TCM, Chan LLY, Tsang HC, Vong YP, Cheng YK, To YL, Choo KL, Yorke J. Clin Respir J. 2021 Oct;15(10):1081-1087. doi: 10.1111/crj.13411. Epub 2021 Jul 6. <https://pubmed.ncbi.nlm.nih.gov/34145767/>

Modified Medical Research Council and COPD Assessment Test Cutoff Points.

Munari AB, Gulart AA, Araújo J, Zanotto J, Sagrillo LM, Karloh M, Mayer AF. Respir Care. 2021 Oct 20;respca.08889. doi: 10.4187/respca.08889. Online ahead of print. <https://pubmed.ncbi.nlm.nih.gov/34670858/>

Psychometric properties of the Arabic version of the anxiety inventory for respiratory disease in patients with COPD.

Albarrati A, Alzahrani M, Alnahdi AH, Taher M, Alqahtani MM, Nazer RI. Disabil Rehabil. 2021 Oct 22:1-7. doi: 10.1080/09638288.2021.1983039. Online ahead of print. <https://pubmed.ncbi.nlm.nih.gov/34686081/>

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. <https://pubmed.ncbi.nlm.nih.gov/34682352/>

INTERSTITIAL LUNG DISEASE

Survival after inpatient or outpatient pulmonary rehabilitation in patients with fibrotic interstitial lung disease: a multicentre retrospective cohort study.

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