



ERS literature update May-June 2025

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

Mechanisms of exercise limitation and pulmonary rehabilitation in patients with cystic lung diseases.

Baldi BG, Bridi GDP, Heiden GI, Salge JM, Queiroz DS, Carvalho CRR, Carvalho CRF. Expert Rev Respir Med. 2025 May 2. doi: 10.1080/17476348.2025.2501277. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/40314321/>

Use of Pulmonary Rehabilitation for Lung Cancer Patients in Korea: Analysis of the National Health Insurance Service Database.

Kim SH, Hong CH, Jeong JH, Kim J, Cho JS, Yoon JA, Eom JS, Lee BJ, Jang MH, Shin MJ, Shin YB. J Korean Med Sci. 2025 May 5;40(17):e150. doi: 10.3346/jkms.2025.40.e150.

<https://pubmed.ncbi.nlm.nih.gov/40329791/>

Optimising participation in a pulmonary rehabilitation programme for people living with chronic respiratory diseases in rural India: a feasibility study.

Jebaraj P, Paul B, Isaac R, Reddy SR, Kumar R, Vikas B, Das D, Norrie J, Weller D, Pinnock H; RESPIRE Collaboration.

J Glob Health. 2025 May 9;15:04143. doi: 10.7189/jogh.15.04143.

<https://pubmed.ncbi.nlm.nih.gov/40340958/>

From acute phase to rehabilitation: bridging the gap and improving the pathway for Chronic Obstructive Pulmonary Diseases patients (Summary of a Pulmonologists' Audit - September-December 2024).

Vitacca M, Beccaria M, Bianchi L, Ceruti P, Marvisi M, Betti M, Bezzi M, Tursi F.

Multidiscip Respir Med. 2025 May 16;20. doi: 10.5826/mrm.2025.1023.

<https://pubmed.ncbi.nlm.nih.gov/40376845/>

Effects of pulmonary rehabilitation program in a community based hospital in California.

Ubhi B, Shaheen R, Ireland K, Alismail A.

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<https://pubmed.ncbi.nlm.nih.gov/40399984/>

The Effectiveness and Feasibility of Virtual Pulmonary Rehabilitation in Patients with Chronic Respiratory Diseases: A Systematic Review and Meta-analysis.

Qu M, Yang L, Liu K, Tang T, Sun X, Chen Y, Cai H.

Respir Med. 2025 May 18:108159. doi: 10.1016/j.rmed.2025.108159. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/40393637/>

Effects of a 10-week pulmonary rehabilitation program based on the 5A nursing model in patients with interstitial lung disease: a quasi-experimental study.

Li M, Chang Y, Fan J, Liang B, Qu D.

BMC Nurs. 2025 May 26;24(1):591. doi: 10.1186/s12912-025-03213-7.

<https://pubmed.ncbi.nlm.nih.gov/40420264/>

Efficacy of Motion-Sensing Game-Assisted Pulmonary Rehabilitation in Patients With Chronic Obstructive Pulmonary Disease: Systematic Review and Meta-Analysis of Randomized Controlled Trials.

Hu C, Lan X, Luo Y, Zhu S, Cheng G.

JMIR Serious Games. 2025 May 29;13:e69562. doi: 10.2196/69562.

<https://pubmed.ncbi.nlm.nih.gov/40440563/>

Knowledge, attitude and practice of Chinese medical staff in early pulmonary rehabilitation during acute exacerbation of chronic obstructive pulmonary disease: a cross-sectional study.

Wang T, Wang Z, Yao L, Jia F, Li Y, Cai P, Li Q, Liu Y, Wang T, Chen Y.

BMJ Open. 2025 May 27;15(5):e087610. doi: 10.1136/bmjopen-2024-087610.

<https://pubmed.ncbi.nlm.nih.gov/40436459/>

Optimal Pulmonary Rehabilitation Program and Timing of Program Initiation for Patients With Chronic Obstructive Pulmonary Disease: A Systematic Review and Network Meta-Analysis.

Chen TA, Mao ST, Chen TT, Yeh YK, Chen KY, Tseng CH.

J Cardiopulm Rehabil Prev. 2025 Jun 2. doi: 10.1097/HCR.0000000000000954. Online ahead of print.

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The impact of pulmonary rehabilitation on sleep quality in patients with chronic obstructive pulmonary disease: A systematic review and meta-analysis.

Dai S, Kwok CS.

PLoS One. 2025 Jun 4;20(6):e0318424. doi: 10.1371/journal.pone.0318424. eCollection 2025.

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Understanding facilitators and barriers to adherence in home-based pulmonary rehabilitation for chronic obstructive pulmonary disease patients using the Health Belief Model: a qualitative study.

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Which people with severe asthma attend pulmonary rehabilitation? Insights from the German Asthma Net.

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ERJ Open Res. 2025 Jun 2;11(3):00689-2024. doi: 10.1183/23120541.00689-2024.
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The Basic Science of Behavior Change in COPD: Testing Self-Determination Theory to Support Home-Based Rehabilitation With Health Coaching.

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Exercise Dysfunction and Pulmonary Rehabilitation Strategies in COPD Patients at High-Altitudes: A Review.

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Investigation of Knowledge, Attitudes, and Practices Related to Pulmonary Rehabilitation Among AECOPD Patients During the Transitional Period After Discharge and Analysis of Influencing Factors.

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Br J Hosp Med (Lond). 2025 Jun 25;86(6):1-13. doi: 10.12968/hmed.2025.0146. Epub 2025 Jun 18.
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Long-term benefits of pulmonary rehabilitation with respiratory muscle training in people with COPD: A retrospective cohort study.

Zhu B, Xue F, Li M, Chen Y.
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<https://pubmed.ncbi.nlm.nih.gov/40554001/>

EXERCISE TESTING AND TRAINING

The value of extra-diaphragmatic inspiratory muscle surface electromyography during postural control tasks in patients with chronic obstructive pulmonary disease.

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Respir Med. 2025 Jul;243:108127. doi: 10.1016/j.rmed.2025.108127. Epub 2025 Apr 25.
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Optimal Exercise Modalities and Doses for Alleviating Dyspnea Symptoms and Enhancing Exercise Capacity in Patients with Chronic Obstructive Pulmonary Disease: A Network and Dose-Response Meta-Analysis.

Xie J, Guo J, Wang B.
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The effectiveness of dual-task exercises in individuals with chronic obstructive pulmonary disease: a study protocol for a randomized controlled trial.

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Pulmonary adaptations to 12 weeks of supervised high intensity interval training in COPD: A non-randomized controlled pilot study.

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<https://pubmed.ncbi.nlm.nih.gov/40411808/>

Immediate and Late Effects of a Single, Low-Intensity Inspiratory Muscle Intervention on Voice and Breathing in Chronic Obstructive Pulmonary Disease.

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Daynes E, Barker RE, Jones AV, Walsh JA, Nolan CM, Man WD, Singh SJ, Greening NJ, Houchen-Wolloff L, Evans RA. Eur Respir Rev. 2025 May 28;34(176):240198. doi: 10.1183/16000617.0198-2024.
<https://pubmed.ncbi.nlm.nih.gov/40436612/>

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The relationship between inspiratory muscle strength and exercise tolerance in patients with coronary heart disease.

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Effects of mind-body exercise in chronic cardiopulmonary dyspnoea patients-a network meta-analysis of randomized controlled trials.

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<https://pubmed.ncbi.nlm.nih.gov/40524454/>

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Characteristics of Physical Exercise Programs and Their Effects on Quality of Life and Functional Capacity in Individuals with Chronic Obstructive Pulmonary Disease: A Scoping Review.

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PHYSICAL ACTIVITY

Development and Psychometric Evaluation of an Instrument to Assess Physical Activity Participation Behavior Among Chinese Patients with Chronic Obstructive Pulmonary Disease.

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Health inequity: Possibilities of initiating pulmonary telerehabilitation programs for adults with chronic obstructive pulmonary disorders in conflict and low-resourced areas; A mixed-method phenomenological study.

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Iriberry Pascual M, Echevarria Guerrero E, Sobradillo Ecnarro P, Garcia Echeberria L, Marina Malanda N, Tabernero Huguet E.

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Debeij SM, van Dam van Isselt EF, Kasteleyn MJ, Krabben HV, Siemonsma P, Achterberg WP, Haaksma ML.

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Effect of telenursing empowerment programme on self-efficacy and health status of patients with chronic obstructive pulmonary disease: randomised controlled trial.

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PATIENT REPORTED OUTCOME MEASURES

Correlation between self-management, psychological cognitive impairment, and quality of life in elderly chronic obstructive pulmonary disease patients.

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A Brief and Effective Questionnaire for COPD Screening in High-Altitude Areas.

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Alishapour E, Nayeri MA, Bahrami R, Haghshenas A, Mehrabi S.

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Analysis of change in health-related quality of life in patients with COPD over 6 years, including information on dropouts: Results from the German COSYCONET cohort.

Fahrenberg C, Niedermaier T, Alter P, Jörres RA, Vogelmeier CF, Holle R.

Respir Med. 2025 May 14:108153. doi: 10.1016/j.rmed.2025.108153. Online ahead of print.

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Yang M, Wang Z, Zhao Y, He J, Lin D, Wang Y, Liu Y.

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INTERSTITIAL LUNG DISEASE

Treatable traits in interstitial lung disease: a narrative review.

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Ther Adv Respir Dis. 2025 Jan-Dec;19:17534666251335774. doi:

10.1177/17534666251335774. Epub 2025 May 3.

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Respir Med. 2025 Jun;242:108098. doi: 10.1016/j.rmed.2025.108098. Epub 2025 Apr 11.
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Relationships between disease severity and measures of health status in people with interstitial lung disease in India: an observational study.

Amin R, Vaishali K, Maiya GA, Mohapatra AK, Acharya V, Dale MT, Alison JA.
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Diagnostics (Basel). 2025 Apr 29;15(9):1139. doi: 10.3390/diagnostics15091139.
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