



ERS literature update July-August 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

Pulmonary rehabilitation in minimal versus high resource settings in COPD: a non-inferiority and economic evaluation.

Marques A, Antão J, Rodrigues G, Paixão C, Rebelo P, Machado A, Souto-Miranda S, Grave AS, Dias C, Marinho R, Mendes MA, Oliveira A, Alvarelhão JJ.
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Effectiveness of remote gamification pulmonary rehabilitation intervention based on the health action process approach theory in older adults with chronic obstructive pulmonary disease: a pilot randomized controlled trial.

Jiang Y, Sun M, Nuerdawulieti B, Huang X, Hou Y, Nan J, Cui S, Nan X.
Front Med (Lausanne). 2025 Jun 19;12:1576256. doi: 10.3389/fmed.2025.1576256.
eCollection 2025.
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Barriers and facilitators to pulmonary rehabilitation in COPD: a mixed-methods systematic review.

Qin H, Jia P, Yan Q, Li X, Zhang Y, Jiang H, Yang H, Li L.
BMC Pulm Med. 2025 Jul 3;25(1):314. doi: 10.1186/s12890-025-03769-9.
<https://pubmed.ncbi.nlm.nih.gov/40611129/>

The clinical nursing effect of empowerment-based continuing nursing combined with pulmonary rehabilitation for chronic obstructive pulmonary disease.

Wang Q, Tang H, Zhang M.
BMC Pulm Med. 2025 Jul 3;25(1):315. doi: 10.1186/s12890-025-03683-0.
<https://pubmed.ncbi.nlm.nih.gov/40611096/>

How to culturally adapt the pulmonary rehabilitation programme for people living with COPD in Sri Lanka: a qualitative study.

Perera C, Jayamaha A, Orme M, Amarasekara TD, Yusuf Z, Barradell A, Manifold J, Barton A, Karunathilake R, Fernando A, Wimalasekera SW, Singh SJ.
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<https://pubmed.ncbi.nlm.nih.gov/40695532/>

Effects of pulmonary rehabilitation combined with inspiratory muscle training on lung function and exercise capacity in older patients with COPD: a systematic review and meta-analysis.

Xie J, Zhu Y, Wang Y, Mo Y, Shi X, Liang WM, Ren FF, Bai Z, Nie F.

Front Med (Lausanne). 2025 Jul 9;12:1621375. doi: 10.3389/fmed.2025.1621375. eCollection 2025.

<https://pubmed.ncbi.nlm.nih.gov/40703265/>

The American Association of Cardiovascular and Pulmonary Rehabilitation National Pulmonary Rehabilitation Registry: Design and Participant Characteristics.

Brown TM, Zhang Y, Bauldoff G, Garvey C, Howard G.

J Cardiopulm Rehabil Prev. 2025 Jul 28. doi: 10.1097/HCR.0000000000000975. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/40719677/>

Exercise-based pulmonary rehabilitation for individuals with chronic obstructive pulmonary disease: What is the potential role of biomarkers? A narrative review.

Candia C, Fuschillo S, Ambrosino P, Motta A, Ambrosino N, Maniscalco M.

Respir Med. 2025 Jul 31;247:108282. doi: 10.1016/j.rmed.2025.108282. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/40752631/>

Effect of Home-Based Pulmonary Rehabilitation Management on Bone Mineral Density and Function for Stable Chronic Obstructive Pulmonary Disease Patients With Osteoporosis: A Randomized Controlled Trial.

Wang K, Yang S, Ren L, He C, Jia C.

Physiother Res Int. 2025 Oct;30(4):e70097. doi: 10.1002/pri.70097.

<https://pubmed.ncbi.nlm.nih.gov/40765137/>

PURE PRIME: Implementing PULmonary REhabilitation in PRIMary carE: a protocol for a randomized controlled feasibility trial.

Walsh JA, McKeough ZJ, Dale MT, Alison JA, Dennis SM.

Prim Health Care Res Dev. 2025 Aug 15;26:e71. doi: 10.1017/S1463423625100340.

<https://pubmed.ncbi.nlm.nih.gov/40815090/>

EXPLORING PULMONARY REHABILITATION PROGRAMS IMPLEMENTED AND CONDUCTED IN LATIN AMERICA FOR PEOPLE WITH CHRONIC RESPIRATORY CONDITIONS: A SCOPING REVIEW.

Sepúlveda-Loyola W, Tang C, Álvarez-Bustos A, Cuyul-Vásquez I, Ensor N, Grzelkovski G, Schneider N, Winter A, Blackstock FC, Smith S, Chadha N, Camp PG.

Respir Med. 2025 Aug 22:108310. doi: 10.1016/j.rmed.2025.108310. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/40850353/>

Long-term effects of face-to-face supervision versus telephone supervision during a community-based pulmonary rehabilitation programme in people with COPD using minimal equipment: a randomized controlled trial.

Sacristán-Galisteo C, Del Corral T, Gómez-Pesquera C, Rodríguez-Barrientos R, Fontana-Campos M, Arbillaga-Etxarri A, López-de-Uralde-Villanueva I, Rodríguez-González-Moro JM, Martín-Casas P.

BMC Prim Care. 2025 Aug 27;26(1):268. doi: 10.1186/s12875-025-02962-3.

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Respiratory Rehabilitation Index (R2I): Unsupervised Clustering Approach to Identify COPD Subgroups Associated with Rehabilitation Outcomes.

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EXERCISE TESTING AND TRAINING

Functional status in COPD: Comparison with healthy controls and impact of an exacerbation.

Hermans F, Arents E, Blondeel A, Cardinaels N, Janssens W, Troosters T, Derom E, Demeyer H.

Chron Respir Dis. 2025 Jan-Dec;22:14799731251358593. doi: 10.1177/14799731251358593. Epub 2025 Jul 8.

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Impact of Low Hand Grip Strength on Quality of Life, Utilization of Healthcare, and Mental Health in Individuals with Airflow Limitation.

Kim SH, Zo S, Kong SA, Cho JH, Do JG, Shin SH, Park HY.

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The Effect of Aerobic Training on Healthy Small Airways-A Forced Oscillation Technique Approach to Optimize Long Term Care in COPD.

Stavarache IE, Cernomaz TA, Grosu-Creangă IA, Trofor A.

J Clin Med. 2025 Jul 4;14(13):4755. doi: 10.3390/jcm14134755.

<https://pubmed.ncbi.nlm.nih.gov/40649129/>

The modified Borg cycle strength test (mBCST): Feasibility and physiological response in people with COPD and healthy older adults.

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Exp Physiol. 2025 Jul 10. doi: 10.1113/EP092151. Online ahead of print.

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Adolescent and Current Exercise Habits in Chronic Obstructive Pulmonary Disease: Associations with Body Composition, Physical Activity, and Pulmonary Function.

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Liu S, Xu D.

Front Public Health. 2025 Jul 10;13:1612741. doi: 10.3389/fpubh.2025.1612741. eCollection 2025.

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How do people with COPD walk? A European study on digitally measured real-world gait.

Delgado-Ortiz L, Buekers J, Chynkiamis N, Demeyer H, Frei A, Gimeno-Santos E, Hansen C, Hausdorff JM, Hopkinson NS, Jansen CP, Kirsten A, Koch S, Maetzler W, Megaritis D, Puhan MA, Singleton D, Vogiatzis I, Watz H, Del Din S, Caulfield B, Becker C, Rochester L, Troosters T, Garcia-Aymerich J.

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Meta-Analysis of the Effect of Aerobic Exercise Combined with Respiratory Training on Stable Chronic Obstructive Pulmonary Disease.

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<https://pubmed.ncbi.nlm.nih.gov/40749107/>

Current status and influencing factors of kinesiphobia in elderly patients with chronic obstructive pulmonary disease: A cross-sectional study.

Wang Y, Xiong C, Xie X, He G, Zou X.

Heart Lung. 2025 Jul 31;74:247-252. doi: 10.1016/j.hrtlng.2025.07.017. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/40749538/>

Development and Comparison of Reference Equations for the Six-Minute Walk Test in Spanish Healthy Adults Aged 45-85 Years.

Gimeno-Santos E, Vilaró J, Arbilla-Etxarri A, Herrero-Cortina B, Ramon MA, Corberó AB, Fernández-Domínguez JC, Zárate-Tejero C, Barberan-Garcia A, Del Corral T, Jiménez-Reguera B, López A, López-Fernández D, Treves PM, Martínez-Alejos R, Muñoz G, Ríos-Cortés A, Ruiz-López K, Miguel-Pagola MS, Sánchez-Cayado N, Valeiro B, Valenza MC, Valenza G, Varas AB, Córdoba S, Vega A, Linares M, Madrid EM, Souto S, Vendrell M, García-Aymerich J.

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<https://pubmed.ncbi.nlm.nih.gov/40764492/>

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Kim S, Rhee CK, Lee CY, Kim DK, Um SJ, Lim SY, Park YB, Yoon HK, Yoo KH, Lee WY; KOCOS cohort and the Korean Pulmonary Rehabilitation Study Group.

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Association between 6-min walk test and initiation of home oxygen therapy within 3 years in chronic obstructive pulmonary disease managed by primary care physicians.

Muraoka H, Tsuburai T, Komase Y, Tanaka S, Moriuchi A, Kaneko S, Nishida M, Shibuya Ueno J, Matsushima A, Shinozaki Y, Nishiyama K, Nishi Y, Numata Y, Tsuruoka H, Oyama B, Hida N, Mineshita M, Inoue T, Nishine H.

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<https://pubmed.ncbi.nlm.nih.gov/40859513/>

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Int J Chron Obstruct Pulmon Dis. 2025 Aug 22;20:2945-2965. doi: 10.2147/COPD.S524591. eCollection 2025.

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PHYSICAL ACTIVITY

Physical activity levels in Danish adults with and without asthma - A national recurrent cross-sectional case-control study from 2010 to 2021.

Hansen H, Godtfredsen N, Ulrik CS, Hansen J, Elsborg P, Petersen CB, Molsted S.

Respir Med. 2025 Jul 1:108240. doi: 10.1016/j.rmed.2025.108240. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/40609703/>

Sedentary behaviors, physical activity, and risk of allergic rhinitis and asthma: evidence from cohort and Mendelian randomization studies.

Wang X, Gao Y, Lou L, Yang W, Xu W, Zhao Y, Ren J.

BMC Pulm Med. 2025 Jul 3;25(1):320. doi: 10.1186/s12890-025-03779-7.

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The Association Between Daily Step Count, Step Frequency and the Risk of Chronic Obstructive Pulmonary Disease: A Cross-Sectional Study Using NHANES Data.

Yuan L, Tian Z, Jia X, Chen Z.

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Assessing Self-Reported Physical Activity Levels in Chronic Obstructive Pulmonary Disease (COPD) Patients: A Comprehensive Analysis Using the Behavioral Risk Factor Surveillance System-Web Enabled Analysis Tool (BRFSS-WEAT) Data.

De Vos J, Nair S, Mathew T, Patel MM, Kaka MC.

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Deng Q, van 't Hul A, van Hees H, Djamin R, Vaes AW, Spruit MA.

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Cutoff points for sedentary behavior and their capacity to predict mortality in individuals with COPD: A 12- year follow-up study.

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Associations between sedentary behavior, physical activity frequency, and asthma: insights from the National Health and Nutrition Examination Survey 2009-2018.

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TELEMEDICINE

Clinical and Cost-Effectiveness of Telehealth-Supported Home Oxygen Therapy on Adherence, Hospital Readmission, and Health-Related Quality of Life in Patients With Chronic Obstructive Pulmonary Disease: Systematic Review and Meta-Analysis of Randomized Controlled Trials.

Hu C, Liao X, Fang Y, Zhu S, Lan X, Cheng G.

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<https://pubmed.ncbi.nlm.nih.gov/40666254/>

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Gao B, Wang S, Zhao L, Liao H, Qumu S, Wang P, Yang T, Jiang S.

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Fakhrulddin SS, Bhatt V.

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Larrateguy S, Otto-Yáñez M, Bogado J, Larrateguy L, Barros-Poblete M, Mazzucco G, Blanco I, Gimeno-Santos E, Torres-Castro R.

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Ann Am Thorac Soc. 2025 Aug;22(8):1140-1146. doi: 10.1513/AnnalsATS.202408-896OC.

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Foppiani A, Calcaterra V, Montanari C, Bertoli S, Battezzati A, Zuccotti G.
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Acceptability of a digital pulmonary rehabilitation app as an adjunct or alternative to usual care for people with chronic lung diseases: A qualitative study of patients' views and experiences.

Knight-Davidson P, Meshe OF, Jenkins TO, Edwards GD, Patel S, Moore C, Hayden K, Ball G, Ingram KA, Nolan CM, Man WDC.
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<https://pubmed.ncbi.nlm.nih.gov/40803315/>

Real-World Comparison of Telemonitoring Versus Conventional Care in Patients With Chronic Obstructive Pulmonary Disease and Those With Asthma-Impact on Clinical Outcomes and Patient Characteristics: Retrospective Cohort Study.

Roubos LAC, Westland H, Hulstein-Brink NL, Visser RC, van den Berg JWK, Leenen JP.
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