



ERS literature update July-August 2022

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

A qualitative assessment of the pulmonary rehabilitation decision-making needs of patients living with COPD.

Barradell AC, Bourne C, Alkhatlan B, Larkin M, Singh SJ.

NPJ Prim Care Respir Med. 2022 Jun 29;32(1):23. doi: 10.1038/s41533-022-00285-9.

<https://pubmed.ncbi.nlm.nih.gov/35768417/>

Pulmonary rehabilitation for patients with chronic obstructive pulmonary disease.

Zhao C, Song R, Zhu X, Bi Y.

Asian J Surg. 2022 Jun 28:S1015-9584(22)00557-7. doi: 10.1016/j.asjsur.2022.05.013. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35778243/>

Is the repeated pulmonary rehabilitation program as effective as the first one in COPD patients?

Şahin H, Naz İ.

Tuberk Toraks. 2022 Jun;70(2):122-131. doi: 10.5578/tt.20229802.

<https://pubmed.ncbi.nlm.nih.gov/35785876/>

Clinical evidence for improving exercise tolerance and quality of life with pulmonary rehabilitation in patients with idiopathic pulmonary fibrosis: A systematic review and meta-analysis.

Lei S, Li X, Xie Y, Li J.

Clin Rehabil. 2022 Aug;36(8):999-1015. doi: 10.1177/02692155221095481. Epub 2022 Apr 28.

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Clinical significance and safety of combined treatment with chemotherapy and pulmonary rehabilitation regarding health-related quality of life and physical function in nontuberculous mycobacterial pulmonary disease.

Omatsu S, Tabusadani M, Yamane K, Takao S, Kuroyama Y, Matsumura Y, Mori K, Ono K, Kawahara K, Senjyu H, Koza R.

Respir Investig. 2022 Jul 14:S2212-5345(22)00086-7. doi: 10.1016/j.resinv.2022.06.006.

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<https://pubmed.ncbi.nlm.nih.gov/35843830/>

Effects of Pulmonary Rehabilitation Including Inspiratory Muscle Training in Patients with Chronic Obstructive Pulmonary Disease after Stratification by the Degree of Static Hyperinflation.

Sillen MJH, Vaes AW, Groenen MTJ, Franssen FME, Spruit MA.

Lung. 2022 Jul 19. doi: 10.1007/s00408-022-00554-x. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35852621/>

International perspectives on outcome measurement in pulmonary rehabilitation of people with COPD: A qualitative study.

Souto-Miranda S, Vaes AW, Gloeckl R, Grongstad A, Spruit MA, Marques A.

Respir Med. 2022 Jul 20;201:106936. doi: 10.1016/j.rmed.2022.106936. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35878502/>

Effectiveness of Outpatient Pulmonary Rehabilitation in Patients with Surgically Resected Lung Cancer: A Retrospective Real-World Analysis.

Illini O, Valipour A, Gattinger D, Petrovic M, Fabikan H, Hochmair MJ, Zwick RH.

Cancers (Basel). 2022 Jul 18;14(14):3479. doi: 10.3390/cancers14143479.

<https://pubmed.ncbi.nlm.nih.gov/35884540/>

An Overview of Cochrane Systematic Reviews for pulmonary rehabilitation interventions in people with COPD: a mapping synthesis.

Zampogna E, Ferriero G, Visca D, Patrini M, Negrini S, Arienti C.

Panminerva Med. 2022 Jul 29. doi: 10.23736/S0031-0808.22.04757-7. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35904775/>

Cognitive impairment, frailty and rehabilitation outcome in older cardiorespiratory patients. DEC_FRAinRIAB: Study protocol.

Vigorè M, Granata N, Braga SS, Piaggi G, Audifreddi S, Ferrari M, La Rovere MT, Pierobon A.

PLoS One. 2022 Aug 4;17(8):e0272132. doi: 10.1371/journal.pone.0272132. eCollection 2022.

<https://pubmed.ncbi.nlm.nih.gov/35925981/>

A feasibility trial of pulmonary rehabilitation for patients with COPD in a low resource setting: Jaffna, Sri Lanka.

Sooriyakanthan M, Orme MW, Sivapalan K, Selvaratnam G, Singh SJ, Wimalasekera S.

BMC Pulm Med. 2022 Aug 8;22(1):302. doi: 10.1186/s12890-022-02092-x.

<https://pubmed.ncbi.nlm.nih.gov/35941622/>

Effectiveness comparison of inpatient vs. outpatient pulmonary rehabilitation: a systematic review.

Molinier V, Alexandre F, Heraud N.

BMC Health Serv Res. 2022 Aug 12;22(1):1028. doi: 10.1186/s12913-022-08345-z.

<https://pubmed.ncbi.nlm.nih.gov/35962341/>

Factors associated with poor long-term adherence after completing a pulmonary rehabilitation programme in patients with chronic obstructive pulmonary disease.

Aguilar PM, Segura CC, Mayen AT, de Lucas EZ, Bueno EV, Santos MM, Walther RÁ. Work. 2022 Aug 18. doi: 10.3233/WOR-210907. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/35988245/>

Efficacy of Repeating Pulmonary Rehabilitation in People with COPD: A Systematic Review.
Burge AT, Malaguti C, Hoffman M, Shiell A, McDonald CF, Berlowitz DJ, Holland AE. Int J Chron Obstruct Pulmon Dis. 2022 Aug 17;17:1871-1882. doi: 10.2147/COPD.S368336. eCollection 2022.
<https://pubmed.ncbi.nlm.nih.gov/35999942/>

EXERCISE TESTING AND TRAINING

The Six-Minute Stepper Test Is Valid to Evaluate Functional Capacity in Hospitalized Patients With Exacerbated COPD.

Ribeiro DB, Terrazas AC, Yamaguti WP. Front Physiol. 2022 Jun 24;13:853434. doi: 10.3389/fphys.2022.853434. eCollection 2022.
<https://pubmed.ncbi.nlm.nih.gov/35812335/>

Effect of modified Total Body Recumbent Stepper training on exercise capacity and thioredoxin in COPD: a randomized clinical trial.

Duan W, Zeng D, Huang J, Gu J, Li S, Zhou W, Ma J, Jiang Y, Zhu L, Xiang X, Dai A. Sci Rep. 2022 Jul 1;12(1):11139. doi: 10.1038/s41598-022-15466-2.
<https://pubmed.ncbi.nlm.nih.gov/35778539/>

Exertional Dyspnoea responses reported in the Dyspnoea Challenge and measures of disease severity in COPD.

Aitken CR, Walsh JR, Stewart GM, Sabapathy S, Adams L, Morris NR. Respir Physiol Neurobiol. 2022 Jun 28:103941. doi: 10.1016/j.resp.2022.103941. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/35777721/>

Intensive Intervention Improves Outcomes for Chronic Obstructive Pulmonary Disease Patients: A Medical Consortium-Based Management.

Zhao S, Zheng L, Zhu M, Shui Y, Bao X, Zhao J. Can Respir J. 2022 Jun 27;2022:6748330. doi: 10.1155/2022/6748330. eCollection 2022.
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The Timed Up and Go test predicts frailty in patients with COPD.

Albarrati AM, Gale NS, Munnery MM, Reid N, Cockcroft JR, Shale DJ. NPJ Prim Care Respir Med. 2022 Jul 6;32(1):24. doi: 10.1038/s41533-022-00287-7.
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Validity of the Activities-specific Balance Confidence Scale in individuals with chronic obstructive pulmonary disease.

Alsubheen SA, Beauchamp MK, Ellerton C, Goldstein R, Alison JA, Dechman G, Haines KJ, Harrison SL, Holland AE, Lee AL, Marques A, Spencer L, Stickland M, Skinner EH, Brooks D.

Expert Rev Respir Med. 2022 Jul 6. doi: 10.1080/17476348.2022.2099378. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35792741/>

Ergogenic value of oxygen supplementation in chronic obstructive pulmonary disease.

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Intern Emerg Med. 2022 Jul 12. doi: 10.1007/s11739-022-03037-2. Online ahead of print.

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Effects of eccentric, concentric and eccentric/concentric training on muscle function and mass, functional performance, cardiometabolic health, quality of life and molecular adaptations of skeletal muscle in COPD patients: a multicentre randomised trial.

Peñailillo L, Valladares-Ide D, Jannas-Velas S, Flores-Opazo M, Jalón M, Mendoza L, Nuñez I, Díaz-Patiño O.

BMC Pulm Med. 2022 Jul 19;22(1):278. doi: 10.1186/s12890-022-02061-4.

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Predicting 6-minute walking test outcomes in patients with chronic obstructive pulmonary disease without physical performance measures.

Romero D, Blanco-Almazán D, Groenendaal W, Lijnen L, Smeets C, Ruttens D, Catthoor F, Jané R.

Comput Methods Programs Biomed. 2022 Jul 11;225:107020. doi:

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Scientific Evidence of Traditional Chinese Exercise (Qigong) for Chronic Obstructive Pulmonary Disease: An Overview of Systematic Reviews and Meta-Analyses.

Shi H, Liu T, Dong C, Zhen K, Wang Y, Liu P, Si G, Wang L, Wang M.

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Effectiveness of a long-term home-based exercise training program in patients with COPD following pulmonary rehabilitation: A multi-center randomized controlled trial.

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<https://pubmed.ncbi.nlm.nih.gov/35952766/>

Mapping the global research landscape and hotspot of exercise therapy and chronic obstructive pulmonary disease: A bibliometric study based on the web of science database from 2011 to 2020.

Zhou Y, Liu X, Wu W.

Front Physiol. 2022 Aug 11;13:947637. doi: 10.3389/fphys.2022.947637. eCollection 2022.

<https://pubmed.ncbi.nlm.nih.gov/36035492/>

The impact of endoscopic lung volume reduction on physical activity coaching in patients with severe emphysema.

Blondeel A, Demeyer H, Ceulemans LJ, Coolen J, Everaerts S, Geysen H, Verleden GM, Van Raemdonck D, Dooms C, Troosters T, Janssens W.

ERJ Open Res. 2022 Jun 27;8(2):00150-2022. doi: 10.1183/23120541.00150-2022.

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<https://pubmed.ncbi.nlm.nih.gov/35769416/>

Increased Blood Eosinophil Count Is Related to Less Daily Physical Activity in Patients With Chronic Obstructive Pulmonary Disease.

Galera R, Mergelina C, Casitas R, Martínez-Cerón E, García Río F.

Arch Bronconeumol. 2022 Jul 2:S0300-2896(22)00482-3. doi: 10.1016/j.arbres.2022.06.005.

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<https://pubmed.ncbi.nlm.nih.gov/35842322/>

Objective physical activity level is associated with rectus femoris muscle echo-intensity in patients with chronic obstructive pulmonary disease.

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

Clin Respir J. 2022 Jul 22. doi: 10.1111/crj.13528. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35869592/>

Physical activity and chronic obstructive pulmonary disease: a scoping review.

Xiang X, Huang L, Fang Y, Cai S, Zhang M.

BMC Pulm Med. 2022 Aug 5;22(1):301. doi: 10.1186/s12890-022-02099-4.

<https://pubmed.ncbi.nlm.nih.gov/35932050/>

Experience of physical activity in patients with COPD: A systematic review and qualitative meta-synthesis.

Tian J, Zhou F, Zhang XG, Wang HY, Peng SH, Li X, Cao J, Zhang H.

Geriatr Nurs. 2022 Aug 5;47:211-219. doi: 10.1016/j.gerinurse.2022.07.013. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35940039/>

Impairment and characteristics of postural control sub-components in people with COPD: a scoping review.

Pichon R, Van Hove O, Ménard M, Hearing D, Crétual A.

Disabil Rehabil. 2022 Aug 24:1-16. doi: 10.1080/09638288.2022.2107083. Online ahead of print.

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Verma VK, Lin WY.

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

Digital tools in allergy and respiratory care.

Verhoeven E, Rouadi P, Jaoude EA, Abouzakouk M, Ansotegui I, Al-Ahmad M, Al-Nesf MA, Azar C, Bahna S, Cuervo-Pardo L, Diamant Z, Douagui H, Maximiliano Gómez R, Díaz SG, Han JK, Idriss S, Irani C, Karam M, Klimek L, Nsouli T, Scadding G, Senior B, Smith P, Yáñez A, Zaitoun F, Hellings PW.

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Validation of the algorithm for the monitoring and control of asthma through telemedicine. The Consensus COMETA Project.

Almonacid Sánchez C, Blanco-Aparicio M, Domínguez-Ortega J, Giner Donaire J, Molina Paris J, Sánchez Marcos N, Plaza V.

J Investig Allergol Clin Immunol. 2022 Jun 27:0. doi: 10.18176/jiaci.0841. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35797114/>

Home based pulmonary tele-rehabilitation under telemedicine system for COPD: a cohort study.

Zhang L, Maitinuer A, Lian Z, Li Y, Ding W, Wang W, Wu C, Yang X.

BMC Pulm Med. 2022 Jul 24;22(1):284. doi: 10.1186/s12890-022-02077-w.

<https://pubmed.ncbi.nlm.nih.gov/35871652/>

Telemedicine and virtual respiratory care in the era of COVID-19.

Pinnock H, Murphie P, Vogiatzis I, Poberezhets V.

ERJ Open Res. 2022 Jul 25;8(3):00111-2022. doi: 10.1183/23120541.00111-2022. eCollection 2022 Jul.

<https://pubmed.ncbi.nlm.nih.gov/35891622/>

Experiences of patients with chronic obstructive pulmonary disease receiving integrated telehealth nursing services during COVID-19 lockdown.

Arnaert A, Ahmad H, Mohamed S, Hudson E, Craciunas S, Girard A, Debe Z, Dantica JL, Denoncourt C, Côté-Leblanc G.

BMC Nurs. 2022 Aug 1;21(1):205. doi: 10.1186/s12912-022-00967-2.

<https://pubmed.ncbi.nlm.nih.gov/35915510/>

Impact of a pharmacist-led outpatient telemedicine clinic on chronic obstructive pulmonary disease in a veteran population.

Howard O, Thomas A, Henry H, Wallace J.

J Am Pharm Assoc (2003). 2022 Jun 28:S1544-3191(22)00225-4. doi: 10.1016/j.japh.2022.06.011. Online ahead of print.

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Perceptions of Individuals With Chronic Lung Disease on Home Use of Pulse Oximetry.

Joshi E, Mann JM, Goodwin ME, Collins AL, Atkins NE, Khor YH, McDonald CF. Respir Care. 2022 Jul;67(7):801-806. doi: 10.4187/respcare.09708. Epub 2022 May 3. PMID: 35504723.

<https://pubmed.ncbi.nlm.nih.gov/35504723/>

PATIENT REPORTED OUTCOME MEASURES

Sex Differences in the International Primary Care Airways Group Questionnaire for Screening of Chronic Obstructive Pulmonary Disease: A Retrospective, Cross-Sectional Study.

Machiguchi H, Arizono S, Tawara Y, Oomagari M, Yanagita Y, Tanaka T, Senju H, Kozu R. Int J Chron Obstruct Pulmon Dis. 2022 Jun 22;17:1467-1476. doi: 10.2147/COPD.S364088. eCollection 2022.

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Synergistic Impact of the Symptom Cluster on Health-Related Quality of Life in Patients With Chronic Obstructive Pulmonary Disease: A Secondary Data Analysis.

Fei F, Koffman J, Zhang X, Gao W.

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Health-Related Quality of Life and Daily Physical Activity Level in Patients with COPD- a Cluster Analysis.

Carvalho da Silva MM, Arcuri JF, Pott H Jr, Sentanin AC, Zorrer Franco FJB, da Costa Trondoli LHP, Di Lorenzo VAP.

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<https://pubmed.ncbi.nlm.nih.gov/35829649/>

Experiences of physiotherapists regarding a standard set of measurement instruments to improve quality of care for patients with chronic obstructive pulmonary disease: a mixed methods study.

Verburg AC, Zincken J, Kiers H, van Dulmen SA, van der Wees PJ.

J Patient Rep Outcomes. 2022 Jul 19;6(1):79. doi: 10.1186/s41687-022-00487-2.

<https://pubmed.ncbi.nlm.nih.gov/35852671/>

Disease-Specific Anxiety in Chronic Obstructive Pulmonary Disease: Translation and Initial Validation of a Questionnaire.

Farver-Vestergaard I, Rubio-Rask S, Timm S, Christiansen CF, Hilberg O, Løkke A.

Front Psychol. 2022 Jul 5;13:907939. doi: 10.3389/fpsyg.2022.907939. eCollection 2022.

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Comparability of a provisioned device versus bring your own device for completion of patient-reported outcome measures by participants with chronic obstructive pulmonary disease: qualitative interview findings.

Newton L, Knight-West O, Eremenco S, Hudgens S, Crescioni M, Symonds T, Reasner DS, Byrom B, O'Donohoe P, Vallow S; Patient-Reported Outcome (PRO) Consortium; Electronic Clinical Outcome Assessment (eCOA) Consortium.

J Patient Rep Outcomes. 2022 Aug 4;6(1):86. doi: 10.1186/s41687-022-00492-5.

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Change in individual chronic obstructive pulmonary disease assessment test item scores after short-term bronchodilator therapy and its impact on exacerbation in treatment-naïve patients with chronic obstructive pulmonary disease.

Kim BG, Shin SH, Gil HI, Zo S, Im Y, Song JY, Lee CY, Kang D, Cho J, Park HY.

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<https://pubmed.ncbi.nlm.nih.gov/35924010/>

Development and preliminary validation of the chronic obstructive pulmonary disease scale quality of life instruments for chronic diseases-chronic obstructive pulmonary disease based on classical test theory and generalizability theory.

Wan C, Yang Z, Zhao Z, Quan P, Wu B, Yang Y.

Chron Respir Dis. 2022 Jan-Dec;19:14799731221104099. doi: 10.1177/14799731221104099.

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Filling the Gap: A Feasibility Study of a COPD-Specific Breathlessness Service.

Mooren K, Wester D, Kerstjens H, Bergkamp E, Spathis A, Engels Y.

COPD. 2022;19(1):324-329. doi: 10.1080/15412555.2022.2099821.

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INTERSTITIAL LUNG DISEASE

The relationship between interstitial lung abnormalities, mortality, and multimorbidity: a cohort study.

Sanders JL, Axelsson G, Putman R, Menon A, Dupuis J, Xu H, Wang S, Murabito J, Vasan R, Araki T, Nishino M, Washko GR, Hatabu H, O'Connor G, Gudmundsson G, Gudnason V, Hunninghake GM.

Thorax. 2022 Jul 1;thoraxjnl-2021-218315. doi: 10.1136/thoraxjnl-2021-218315. Online ahead of print.

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Decreased peak expiratory flow rate associated with mortality in idiopathic pulmonary fibrosis: A preliminary report.

Fujita K, Ohkubo H, Nakano A, Takeda N, Fukumitsu K, Fukuda S, Kanemitsu Y, Uemura T, Tajiri T, Maeno K, Ito Y, Oguri T, Ozawa Y, Murase T, Niimi A.

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Hoyer N, Prior TS, Bendstrup E, Shaker SB.

BMJ Open Respir Res. 2022 Jul;9(1):e001276. doi: 10.1136/bmjresp-2022-001276.
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Forced Oscillation Measurements in Patients with Idiopathic Interstitial Pneumonia Subjected to Pulmonary Rehabilitation.

Kostorz-Nosal S, Jastrzębski D, Kubicki P, Galle D, Gałeczka-Turkiewicz A, Toczyłowska B, Ziara D.

J Clin Med. 2022 Jun 24;11(13):3657. doi: 10.3390/jcm11133657.

<https://pubmed.ncbi.nlm.nih.gov/35806942/>

Interstitial lung disease incidence and mortality in the UK and the European Union: an observational study, 2001-2017.

Salciccioli JD, Marshall DC, Goodall R, Crowley C, Shalhoub J, Patel P, Molyneaux PL.

ERJ Open Res. 2022 Jul 11;8(3):00058-2022. doi: 10.1183/23120541.00058-2022. eCollection 2022 Jul.

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Management of musculoskeletal pain in patients with idiopathic pulmonary fibrosis: a review.

Kašiković Lečić S, Javorac J, Živanović D, Lovrenski A, Tegeltija D, Zvekić Svorcan J, Maksimović J.

Ups J Med Sci. 2022 Jul 11;127. doi: 10.48101/ujms.v127.8739. eCollection 2022.

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Management of progressive pulmonary fibrosis associated with connective tissue disease.

Molina-Molina M, Castellví I, Valenzuela C, Ramirez J, Rodríguez Portal JA, Franquet T, Narváez J.

Expert Rev Respir Med. 2022 Aug 1. doi: 10.1080/17476348.2022.2107508. Online ahead of print.

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Sleep-related breathing disorders in idiopathic pulmonary fibrosis are frequent and may be associated with pulmonary vascular involvement.

Hagmeyer L, Herkenrath SD, Tremel M, Pietzke-Calcagnile A, Anduleit N, Randerath W.

Sleep Breath. 2022 Aug 4. doi: 10.1007/s11325-022-02686-z. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35922615/>

Assessment of health-related quality of life in Australian patients with idiopathic pulmonary fibrosis: a comparison of the EQ-5D-5L and the AQoL-8D.

Cox IA, Campbell J, de Graaff B, Otahal P, Corte TJ, Moodley Y, Hopkins P, Macansh S, Walters EH, Palmer AJ.

Qual Life Res. 2022 Aug 4. doi: 10.1007/s11136-022-03205-z. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/35927542/>

Frequency and impact on clinical outcomes of sarcopenia in patients with idiopathic pulmonary fibrosis.

Fujita K, Ohkubo H, Nakano A, Mori Y, Fukumitsu K, Fukuda S, Kanemitsu Y, Uemura T, Tajiri T, Maeno K, Ito Y, Oguri T, Ozawa Y, Murase T, Niimi A.
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Epidemiology and real-life experience in progressive pulmonary fibrosis.

Valenzuela C, Cottin V.
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Assessment of listing criteria for lung transplant candidates with interstitial lung disease.

Nagata S, Ohsumi A, Handa T, Yamada Y, Tanaka S, Yutaka Y, Nakajima D, Tanizawa K, Hirai T, Date H.
Gen Thorac Cardiovasc Surg. 2022 Aug 7. doi: 10.1007/s11748-022-01861-z. Online ahead of print.
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Suspected Interstitial Lung Disease in COPD Gene.

Rose JA, Menon AA, Hino T, Hata A, Nishino M, Lynch DA, Rosas IO, El-Chemaly S, Raby BA, Ash SY, Choi B, Washko GR, Silverman EK, Cho MH, Hatabu H, Putman RK, Hunninghake GM.
Am J Respir Crit Care Med. 2022 Aug 5. doi: 10.1164/rccm.202203-0550OC. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/35930450/>

Cluster phenotypes in a non-idiopathic pulmonary fibrosis fibrotic interstitial lung diseases cohort in Singapore.

Kam MLW, Tiew PY, Chai HZ, Low SY.
J Thorac Dis. 2022 Jul;14(7):2481-2492. doi: 10.21037/jtd-22-40.
<https://pubmed.ncbi.nlm.nih.gov/35928611/>

Outcome of patients who were incidentally diagnosed with idiopathic pulmonary fibrosis: How early in the disease should we identify patients?

Yamazaki R, Nishiyama O, Yoshikawa K, Tohda Y, Matsumoto H.
Respir Med. 2022 Jul 16;201:106933. doi: 10.1016/j.rmed.2022.106933. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/35930918/>

Patient Characteristics and Survival for Progressive Pulmonary Fibrosis Using Different Definitions.

Khor YH, Farooqi M, Hambly N, Kolb M, Ryerson CJ; Austin ILD Registry and CARE-PF Investigators.
Am J Respir Crit Care Med. 2022 Aug 9. doi: 10.1164/rccm.202205-0910LE. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/35943331/>

IPF Respiratory Symptoms Management - Current Evidence.

Janowiak P, Szymanowska-Narloch A, Siemińska A.

Front Med (Lausanne). 2022 Jul 28;9:917973. doi: 10.3389/fmed.2022.917973. eCollection 2022.

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Effect of a home-based pulmonary rehabilitation program on functional capacity and health-related quality of life in people with interstitial lung disease - A randomized controlled trial protocol.

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