



ERS literature update
June-July 2017

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PULMONARY REHABILITATION

Pulmonary Rehabilitation Outcomes after Single or Double Lung Transplantation in Patients with Chronic Obstructive Pulmonary Disease or Interstitial Lung Disease.

Schneeberger T, Gloeckl R, Welte T, Kenn K.

Respiration. 2017 Jun 10. doi: 10.1159/000477351. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28601868>

Pulmonary rehabilitation in COPD - available resources and utilization in Swedish primary and secondary care.

Sundh J, Lindgren H, Hasselgren M, Montgomery S, Janson C, Ställberg B, Lisspers K.

Int J Chron Obstruct Pulmon Dis. 2017 Jun 8;12:1695-1704. doi: 10.2147/COPD.S135111. eCollection 2017.

<https://www.ncbi.nlm.nih.gov/pubmed/28652722>

Impact of pulmonary rehabilitation on postoperative complications in patients with lung cancer and chronic obstructive pulmonary disease.

Saito H, Hatakeyama K, Konno H, Matsunaga T, Shimada Y, Minamiya Y.

Thorac Cancer. 2017 Jul 11. doi: 10.1111/1759-7714.12466. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28696575>

Online versus face-to-face pulmonary rehabilitation for patients with chronic obstructive pulmonary disease: randomised controlled trial.

Bourne S, DeVos R, North M, Chauhan A, Green B, Brown T, Cornelius V, Wilkinson T.

BMJ Open. 2017 Jul 17;7(7):e014580. doi: 10.1136/bmjopen-2016-014580.

<https://www.ncbi.nlm.nih.gov/pubmed/28716786>

Phenotypes and Characterization of COPD: A PULMONARY REHABILITATION PERSPECTIVE.

Raskin J, Marks T, Miller A.

J Cardiopulm Rehabil Prev. 2017 Jul 19. doi: 10.1097/HCR.0000000000000271. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28727671>

Differential Pulmonary Rehabilitation Outcomes in Patients With and Without COPD: ROLE OF GENDER.

Nguyen LP, Beck E, Cayetano K, Li CS, Hardin K.

J Cardiopulm Rehabil Prev. 2017 Jul 19. doi: 10.1097/HCR.000000000000275. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28727669>

Effectiveness of perioperative pulmonary rehabilitation in thoracic surgery.

Vagvolgyi A, Rozgonyi Z, Kerti M, Vadasz P, Varga J.

J Thorac Dis. 2017 Jun;9(6):1584-1591. doi: 10.21037/jtd.2017.05.49.

<https://www.ncbi.nlm.nih.gov/pubmed/28740672>

EXERCISE TESTING AND TRAINING

Relationships between heart rate target determined in different exercise testing in COPD patients to prescribed with individualized exercise training.

Fabre C, Chehere B, Bart F, Mucci P, Wallaert B, Grosbois JM.

Int J Chron Obstruct Pulmon Dis. 2017 May 16;12:1483-1489. doi: 10.2147/COPD.S129889. eCollection 2017.

<https://www.ncbi.nlm.nih.gov/pubmed/28553100>

Effects of a simple prototype respiratory muscle trainer on respiratory muscle strength, quality of life and dyspnea, and oxidative stress in COPD patients: a preliminary study.

Leelarungrayub J, Pinkaew D, Puntumetakul R, Klaphajone J.

Int J Chron Obstruct Pulmon Dis. 2017 May 12;12:1415-1425. doi: 10.2147/COPD.S131062. eCollection 2017.

<https://www.ncbi.nlm.nih.gov/pubmed/28553094>

Physiological Requirements to Perform the Glittre Activities of Daily Living Test by Subjects With Mild-to-Severe COPD.

Souza GF, Moreira GL, Tufanin A, Gazzotti MR, Castro AA, Jardim JR, Nascimento OA.

Respir Care. 2017 May 30. pii: respcare.05113. doi: 10.4187/respcare.05113. [Epub ahead of print]

<http://www.ncbi.nlm.nih.gov/pubmed/28559469>

Prediction of long-term clinical outcomes using simple functional exercise performance tests in patients with COPD: a 5-year prospective cohort study.

Crook S, Frei A, Ter Riet G, Puhan MA.

Respir Res. 2017 Jun 2;18(1):112. doi: 10.1186/s12931-017-0598-6.

<https://www.ncbi.nlm.nih.gov/pubmed/28578705>

Assessment of dyspnea and dynamic hyperinflation in male patients with chronic obstructive pulmonary disease during a six minute walk test and an incremental treadmill cardiorespiratory exercise test.

Alfonso M, Bustamante V, Cebollero P, Antón M, Herrero S, Gáldiz JB.
Rev Port Pneumol (2006). 2017 Jun 1. pii: S2173-5115(17)30071-4. doi:
10.1016/j.rppnen.2017.04.007. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/28579149>

Measurement Properties of Short Lower Extremity Functional Exercise Tests in People With Chronic Obstructive Pulmonary Disease: Systematic Review.

Johnston KN, Potter AJ, Phillips A.
Phys Ther. 2017 Jun 12. doi: 10.1093/ptj/pzx063. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/28605481>

One minute sit-to-stand test is an alternative to 6MWT to measure functional exercise performance in COPD patients.

Reychler G, Boucard E, Peran L, Pichon R, Le Ber-Moy C, Ouksel H, Liistro G, Chambellan A, Beaumont M.
Clin Respir J. 2017 Jun 8. doi: 10.1111/crj.12658. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/28621019>

Heart Rate Recovery After 6-min Walking Test Predicts Acute Exacerbation in COPD.

Rodríguez DA, Kortianou EA, Alison JA, Casas A, Giavedoni S, Barberan-Garcia A, Arbillaga A, Vilaró J, Gimeno-Santos E, Vogiatzis I, Rabinovich R, Roca J.
Lung. 2017 Jun 17. doi: 10.1007/s00408-017-0027-0. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/28624883>

Relation between upper-limb muscle strength with exercise capacity, quality of life, and dyspnea in patients with severe chronic obstructive pulmonary disease.

Kaymaz D, Candemir İÇ, Ergün P, Demir N, Taşdemir F, Demir P.
Clin Respir J. 2017 Jun 15. doi: 10.1111/crj.12659. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/28618190>

Sit-to-stand tests for COPD: A literature review.

Vaidya T, Chambellan A, de Bisschop C.
Respir Med. 2017 Jul;128:70-77. doi: 10.1016/j.rmed.2017.05.003. Epub 2017 May 15.
<https://www.ncbi.nlm.nih.gov/pubmed/28610673>

A randomized clinical trial investigating the efficacy of targeted nutrition as adjunct to exercise training in COPD.

van de Bool C, Rutten EPA, van Helvoort A, Franssen FME, Wouters EFM, Schols AMWJ.
J Cachexia Sarcopenia Muscle. 2017 Jun 12. doi: 10.1002/jcsm.12219. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/28608438>

Role of Breathing Conditions During Exercise Testing on Training Prescription in Chronic Obstructive Pulmonary Disease.

Neunhäuserer D, Steidle-Kloc E, Bergamin M, Weiss G, Ermolao A, Lamprecht B, Studnicka M, Niebauer J.

Am J Phys Med Rehabil. 2017 Jun 21. doi: 10.1097/PHM.0000000000000775. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28644243>

Improvement in respiratory muscle O₂ delivery is associated with less dyspnoea during exercise in COPD.

Louvaris Z, Vogiatzis I, Habazettl H, Wagner H, Wagner PD, Zakyntinos S.

Clin Respir J. 2017 Jul 7. doi: 10.1111/crj.12663. [Epub ahead of print]

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Effect of Yoga Breathing (Pranayama) on Exercise Tolerance in Patients with Chronic Obstructive Pulmonary Disease: A Randomized, Controlled Trial.

Kaminsky DA, Guntupalli KK, Lippmann J, Burns SM, Brock MA, Skelly J, DeSarno M, Pecott-Grimm H, Mohsin A, LaRock-McMahon C, Warren P, Whitney MC, Hanania NA.

J Altern Complement Med. 2017 Jul 17. doi: 10.1089/acm.2017.0102. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28714735>

PHYSICAL ACTIVITY

Factors associated with low-level physical activity in elderly patients with chronic obstructive pulmonary disease.

Lee SH, Kim KU, Lee H, Kim YS, Lee MK, Park HK.

Korean J Intern Med. 2017 Jun 7. doi: 10.3904/kjim.2016.090. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28602061>

Gait deficiencies associated with peripheral artery disease are different than chronic obstructive pulmonary disease.

McCamley JD, Pisciotta EJ, Yentes JM, Wurdeman SR, Rennard SI, Pipinos II, Johanning JM, Myers SA.

Gait Posture. 2017 Jun 27;57:258-264. doi: 10.1016/j.gaitpost.2017.06.018. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28683417>

Physical activity in patients with COPD: the impact of comorbidities.

Mantoani LC, Dell'Era S, MacNee W, Rabinovich RA.

Expert Rev Respir Med. 2017 Jul 12. doi: 10.1080/17476348.2017.1354699. [Epub ahead of print]

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Implementation of Activity Sensor Equipment in the Homes of Chronic Obstructive Pulmonary Disease Patients.

Tillis W, Bond WF, Svendsen J, Guither S.

Telemed J E Health. 2017 May 30. doi: 10.1089/tmj.2016.0201. [Epub ahead of print]

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Evaluation of the Feasibility of a Home-Based TeleYoga Intervention in Participants with Both Chronic Obstructive Pulmonary Disease and Heart Failure.

Donesky D, Selman L, McDermott K, Citron T, Howie-Esquivel J.

J Altern Complement Med. 2017 Jun 27. doi: 10.1089/acm.2015.0279. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28654302>

Inhaler Training Delivered by Internet-Based Home Videoconferencing Improves Technique and Quality of Life.

Thomas RM, Locke ER, Woo DM, Nguyen EHK, Press VG, Layouni TA, Trittschuh EH, Reiber GE, Fan VS.

Respir Care. 2017 Jul 18. pii: respcare.05445. doi: 10.4187/respcare.05445. [Epub ahead of print]

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Evaluating a Web-Based Coaching Program Using Electronic Health Records for Patients With Chronic Obstructive Pulmonary Disease in China: Randomized Controlled Trial.

Wang L, He L, Tao Y, Sun L, Zheng H, Zheng Y, Shen Y, Liu S, Zhao Y, Wang Y.

J Med Internet Res. 2017 Jul 21;19(7):e264. doi: 10.2196/jmir.6743.

<https://www.ncbi.nlm.nih.gov/pubmed/28733270>

Subgroup analysis of telehealthcare for patients with chronic obstructive pulmonary disease: the cluster-randomized Danish Telecare North Trial.

Witt Udsen F, Lilholt PH, Hejlesen OK, Ehlers LH.

Clinicoecon Outcomes Res. 2017 Jul 7;9:391-401. doi: 10.2147/CEOR.S139064. eCollection 2017.

<https://www.ncbi.nlm.nih.gov/pubmed/28740411>

PATIENT REPORTED OUTCOME MEASURES

Development of a self-scored persistent airflow obstruction screening questionnaire in a general Japanese population: the Hisayama study.

Samukawa T, Matsumoto K, Tsukuya G, Koriyama C, Fukuyama S, Uchida A, Mizuno K, Miyahara H, Kiyohara Y, Ninomiya T, Inoue H.

Int J Chron Obstruct Pulmon Dis. 2017 May 15;12:1469-1481. doi: 10.2147/COPD.S130453. eCollection 2017.

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Item usage in a multidimensional computerized adaptive test (MCAT) measuring health-related quality of life.

Paap MCS, Kroeze KA, Terwee CB, van der Palen J, Veldkamp BP.

Qual Life Res. 2017 Jun 23. doi: 10.1007/s11136-017-1624-3. [Epub ahead of print]

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Effect of Baseline Anxiety and Depression Symptoms on Selected Outcomes Following Pulmonary Rehabilitation.

Cullen K, Talbot D, Gillmor J, McGrath C, O'Donnell R, Baily-Scanlan M, Broderick J.

J Cardiopulm Rehabil Prev. 2017 Jul;37(4):279-282. doi: 10.1097/HCR.0000000000000258.

<https://www.ncbi.nlm.nih.gov/pubmed/28640172>

Features of self-management interventions for people with COPD associated with improved health-related quality of life and reduced emergency department visits: a systematic review and meta-analysis.

Newham JJ, Presseau J, Heslop-Marshall K, Russell S, Ogunbayo OJ, Netts P, Hanratty B, Kaner E.

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Ann Am Thorac Soc. 2017 Jul 18. doi: 10.1513/AnnalsATS.201701-026OC. [Epub ahead of print]

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Sönnerrfors P, Faager G, Einarsson U.

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The Association of Depressive Symptoms With Rates of Acute Exacerbations in Patients With COPD: Results From a 3-year Longitudinal Follow-up of the ECLIPSE Cohort.

Yohannes AM, Müllerová H, Lavoie K, Vestbo J, Rennard SI, Wouters E, Hanania NA.
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<https://www.ncbi.nlm.nih.gov/pubmed/28733182>

Clinical and economic burden of dyspnea and other COPD symptoms in a managed care setting.

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Walker S, Andrew S, Hodson M, Roberts CM.
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INTERSTITIAL LUNG DISEASE

Toward Early Identification of Clinically Relevant Interstitial Lung Disease.

Salisbury ML, Lynch DA.
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A New Measure to Assess Asthma's Impact on Quality of Life from the Patient's Perspective.

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Freitas PD, Ferreira PG, Silva AG, Stelmach R, Carvalho-Pinto RM, Fernandes FL, Mancini MC, Sato MN, Martins MA, Carvalho CR.

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Magnet FS, Storre JH, Windisch W.

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Jerpseth H, Dahl V, Nortvedt P, Halvorsen K.

J Clin Nurs. 2017 Jun 15. doi: 10.1111/jocn.13925. [Epub ahead of print]

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Informal caregiving in COPD: A systematic review of instruments and their measurement properties.

Cruz J, Marques A, Machado A, O'Hoski S, Goldstein R, Brooks D.

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Blackmore C, Johnson-Warrington VL, Williams JE, Apps LD, Young HM, Bourne C, Singh SJ.

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Castillo A¹, Edriss H, Selvan K, Nugent K.

Qual Manag Health Care. 2017 Jul/Sep;26(3):152-159. doi:

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Global Initiative for Chronic Obstructive Lung Disease (GOLD) 20th Anniversary: a brief history of time.

Rodriguez-Roisin R, Rabe KF, Vestbo J, Vogelmeier C, Agustí A; all previous and current members of the Science Committee and the Board of Directors of GOLD (goldcopd.org/committees/).

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Lee LW, Lin CM, Li HC, Hsiao PL, Chung AC, Hsieh CJ, Wu PC, Hsu SF.

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Balance and Falls in Acute Exacerbation of Chronic Obstructive Pulmonary Disease: A Prospective Study.

Oliveira CC, Lee AL, McGinley J, Anderson GP, Clark RA, Thompson M, Clarke S, Baker T, Irving LB, Denehy L.

COPD. 2017 Jul 26:1-8. doi: 10.1080/15412555.2017.1342232. [Epub ahead of print]

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