



ERS literature update April-May 2018

Composed for group 1.02 by Anouk W. Vaes, PhD and Sarah Houben-Wilke, PhD of the department of Development and Education in CIRO, Horn, the Netherlands

PULMONARY REHABILITATION

Rate of, and barriers and enablers to, pulmonary rehabilitation referral in COPD: A systematic scoping review.

Milner SC, Boruff JT, Beaufort C, Ahmed S, Janaudis-Ferreira T.

Respir Med. 2018 Apr;137:103-114. doi: 10.1016/j.rmed.2018.02.021. Epub 2018 Feb 28.

<https://www.ncbi.nlm.nih.gov/pubmed/29605192>

Tai Chi and Pulmonary Rehabilitation Compared for Treatment-Naive Patients With COPD: A Randomized Controlled Trial.

Polkey MI, Qiu ZH, Zhou L, Zhu MD, Wu YX, Chen YY, Ye SP, He YS, Jiang M, He BT, Mehta B, Zhong NS, Luo YM.

Chest. 2018 Mar 28. pii: S0012-3692(18)30313-1. doi: 10.1016/j.chest.2018.01.053. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/29625777>

Influence of Disease Severity and Exercise Limitation on Exercise Training Intensity and Load and Health Benefits From Pulmonary Rehabilitation in Patients with COPD: AN EXPLORATORY STUDY.

Huynh VC, Fuhr DP, Byers BW, Selzler AM, Moore LE, Stickland MK.

J Cardiopulm Rehabil Prev. 2018 Apr 11. doi: 10.1097/HCR.0000000000000321. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/29652760>

Understanding influences on the uptake of pulmonary rehabilitation in the East of England: an Inclusive Design/mixed-methods study protocol.

Liu Y, Dickerson T, Early F, Fuld J, Clarkson PJ.

BMJ Open. 2018 Apr 24;8(4):e020750. doi: 10.1136/bmjopen-2017-020750.

<https://www.ncbi.nlm.nih.gov/pubmed/29691248>

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Kanar B, Ozben B, Yildirim E, Ozmen İ, Aydin R. Echocardiography. 2018 May 11. doi: 10.1111/echo.14019. [Epub ahead of print]

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Self-Efficacy Predicts Success in an Exercise Training-Only Model of Pulmonary Rehabilitation for People With COPD.

Blackstock FC, Webster KE, McDonald CF, Hill CJ.

J Cardiopulm Rehabil Prev. 2018 May 11. doi: 10.1097/HCR.0000000000000322. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/29757825>

Effectiveness of a perioperative pulmonary rehabilitation program following coronary artery bypass graft surgery in patients with and without COPD.

Chen JO, Liu JF, Liu YQ, Chen YM, Tu ML, Yu HR, Lin MC, Lin CC, Liu SF.

Int J Chron Obstruct Pulmon Dis. 2018 May 16;13:1591-1597. doi: 10.2147/COPD.S157967. eCollection 2018.

<https://www.ncbi.nlm.nih.gov/pubmed/29805258>

EXERCISE TESTING AND TRAINING

Quadriceps concentric-eccentric force and muscle architecture in COPD patients vs healthy men.

Coratella G, Rinaldo N, Schena F².

Hum Mov Sci. 2018 Apr 3;59:88-95. doi: 10.1016/j.humov.2018.03.015. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/29625361>

Inflammatory and Metabolic Responses to Different Resistance Training on Chronic Obstructive Pulmonary Disease: A Randomized Control Trial.

Silva BSA, Lira FS, Rossi FE, Ramos D, Uzeloto JS, Freire APCF, de Lima FF, Gobbo LA, Ramos EMC.

Front Physiol. 2018 Mar 23;9:262. doi: 10.3389/fphys.2018.00262. eCollection 2018.

<https://www.ncbi.nlm.nih.gov/pubmed/29628896>

Is Inspiratory Muscle Weakness a Determinant of Endurance Exercise Tolerance During NIV-Supported Exercise in Patients With COPD?

Koch R, Rapello GVG, Müller PT.

J Cardiopulm Rehabil Prev. 2018 Apr 11. doi: 10.1097/HCR.0000000000000329. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/29652758>

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Berry MJ, Sheilds KL, Adair NE.

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<https://www.ncbi.nlm.nih.gov/pubmed/29658804>

Effects of inspiratory muscle training in COPD patients: A systematic review and meta-analysis.

Beaumont M, Forget P, Couturaud F, Reyckler G.

Clin Respir J. 2018 Apr 17. doi: 10.1111/crj.12905. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/29665262>

Effect of Bronchodilation and Exercise Training with Behavior Modification on Exercise Tolerance and Downstream Effects on Symptoms and Physical Activity in COPD.

Troosters T, Maltais F, Leidy N, Lavoie KL, Sedeno M, Janssens W, Garcia-Aymerich J, Erzen D, De Sousa D, Korducki L, Hamilton A, Bourbeau J.

Am J Respir Crit Care Med. 2018 Apr 17. doi: 10.1164/rccm.201706-1288OC. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/29664681>

The degree of arm elevation impacts the endurance and cardiopulmonary adaptations of COPD patients performing upper-limb exercise: a cross-over study.

Paneroni M, Simonelli C, Laveneziana P, Gobbo M, Saleri M, Bianchi L, Vitacca M.

Eur J Phys Rehabil Med. 2018 Apr 20. doi: 10.23736/S1973-9087.18.04962-6. [Epub ahead of print]

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Influence of expiratory positive airway pressure on cardiac autonomic modulation at rest and in submaximal exercise in COPD patients.

da L Goulart C, San Martin EA, Mansour KMK, Schneiders PB, da Silva ALG.

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Wu LL, Lin ZK, Weng HD, Qi QF, Lu J, Liu KX.

Int J Chron Obstruct Pulmon Dis. 2018 Apr 17;13:1239-1250. doi: 10.2147/COPD.S159042. eCollection 2018.

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Mobility limitations related to reduced pulmonary function among aging people with chronic obstructive pulmonary disease.

Medina-Mirapeix F, Bernabeu-Mora R, Sánchez-Martínez MP, Montilla-Herrador J, Bernabeu-Mora M, Escolar-Reina P.

PLoS One. 2018 May 1;13(5):e0196152. doi: 10.1371/journal.pone.0196152. eCollection 2018.

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Efficacy of combined electrostimulation in patients with acute exacerbation of COPD: randomised clinical trial.

Lopez Lopez L, Granados Santiago M, Donaire Galindo M, Torres Sanchez I, Ortiz Rubio A, Valenza MC.

Med Clin (Barc). 2018 Apr 25. pii: S0025-7753(18)30212-4. doi: 10.1016/j.medcli.2018.03.012. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/29705158>

Whole-body vibration training increases physical measures and quality of life without altering inflammatory-oxidative biomarkers in patients with moderate COPD.

Neves CDC, Lacerda ACR, Lage VKS, Soares AA, Chaves MGA, Lima LP, Silva TJ, Vieira ÉLM, Teixeira AL, Leite HR, Matos MA, Mendonça VA.

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Volpato E, Banfi P, Nicolini A, Pagnini F.

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Andrianopoulos V, Vogiatzis I, Gloeckl R, Bals R, Koczulla RA, Kenn K.

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Heart Rate Recovery, Physical Activity Level, and Functional Status in Subjects With COPD.

Morita AA, Silva LKO, Bisca GW, Oliveira JM, Hernandez NA, Pitta F, Furlanetto KC.

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Ryrsø CK, Thaning P, Siebenmann C, Lundby C, Lange P, Pedersen BK, Hellsten Y, Iepsen UW. *Scand J Med Sci Sports*. 2018 May 26. doi: 10.1111/sms.13227. [Epub ahead of print]

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Orme MW, Weedon AE, Saukko PM, Esliger DW, Morgan MD, Steiner MC, Downey JW, Sherar LB, Singh SJ.

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