ERS literature update
August-September 2017

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

Comparison of a structured home-based rehabilitation programme with conventional supervised pulmonary rehabilitation: a randomised non-inferiority trial.
Horton EJ, Mitchell KE, Johnson-Warrington V, Apps LD, Sewell L, Morgan M, Taylor RS, Singh SJ.
Thorax. 2017 Jul 29. pii: thoraxjnl-2016-208506. doi: 10.1136/thoraxjnl-2016-208506. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/28756402

Effectiveness of Pulmonary Rehabilitation in COPD Patients Receiving Long-Term Oxygen Therapy.
Sahin H, Varol Y, Naz I, Tuksavul F.
Clin Respir J. 2017 Aug 4. doi: 10.1111/crj.12680. [Epub ahead of print]
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Experiences of patients undergoing pulmonary rehabilitation during an exacerbation of chronic respiratory disease.
Vincent EE, Chaplin EJ, Williams JE, Harvey-Dunstan T, Greening NJ, Steiner MC, Morgan MD, Singh SJ.
Chron Respir Dis. 2017 Aug;14(3):298-308. doi: 10.1177/1479972317695812. Epub 2017 Mar 9.
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Are All Steps Created Equal? Revisiting Pedometer Use During Pulmonary Rehabilitation for Individuals Living with COPD.
Sasso J, Gelinas JC, Eves ND.
Am J Respir Crit Care Med. 2017 Aug 8. doi: 10.1164/rccm.201706-1316LE. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/28787172

Reply to: Are All Steps Created Equal? Revisiting Pedometer Use During Pulmonary Rehabilitation for Individuals Living with COPD.
Nolan CM, Maddocks M, Canavan JL, Jones SE, Delogu V, Kaliaraju D, Banya W, Kon SS, Polkey MI, Man WD.

Am J Respir Crit Care Med. 2017 Aug 8. doi: 10.1164/rccm.201707-1513LE. [Epub ahead of print]
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Safety of Rehabilitation Program for COPD Patients.
Pleguezuelos E, Guirao L, Moreno E, Samitier B, Ortega P, Vila X, Majó M, González MV, Ovejero L, Juanola J, Gómez A, Miravitlles M.
Arch Bronconeumol. 2017 Aug 5. pii: S0300-2896(17)30221-1. doi: 10.1016/j.arbres.2017.06.012. [Epub ahead of print]
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An evaluation of activity tolerance, patient-reported outcomes and satisfaction with the effectiveness of pulmonary daoyin on patients with chronic obstructive pulmonary disease.
Zhang HL, Li JS, Yu XQ, Li SY, Halmurat U, Xie Y, Wang YF, Li FS, Wang MH.
Int J Chron Obstruct Pulmon Dis. 2017 Aug 4;12:2333-2342. doi: 10.2147/COPD.S117461. eCollection 2017.
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Treating breathlessness via the brain: changes in brain activity over a course of pulmonary rehabilitation.
Herigstad M, Faull OK, Hayen A, Evans E, Hardinge FM, Wiech K, Pattinson KTS.
Eur Respir J. 2017 Sep 12;50(3). pii: 1701029. doi: 10.1183/13993003.01029-2017. Print 2017 Sep..
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Effect of a rehabilitation-based chronic disease management program targeting severe COPD exacerbations on readmission patterns.
Lalmolda C, Coll-Fernández R, Martínez N, Baré M, Teixidó Colet M, Epelde F, Monsó E.
Int J Chron Obstruct Pulmon Dis. 2017 Aug 23;12:2531-2538. doi: 10.2147/COPD.S138451. eCollection 2017.
https://www.ncbi.nlm.nih.gov/pubmed/28883720

EXERCISE TESTING AND TRAINING

Effectiveness of home-based exercise in older patients with advanced chronic obstructive pulmonary disease: A 3-year cohort study.
Wakabayashi R, Kusunoki Y, Hattori K, Motegi T, Furutate R, Itoh A, Jones RC, Hyland ME, Kida K.
Geriatr Gerontol Int. 2017 Aug 1. doi: 10.1111/ggi.13134. [Epub ahead of print]
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More Breathing, Less Fitness: Lessons from Exercise Physiology in COPD-heart Failure Overlap.
Arce SC, De Vito EL.
Am J Respir Crit Care Med. 2017 Aug 1. doi: 10.1164/rccm.201707-1430ED. [Epub ahead of print]
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Effects of Expiratory Positive Airway Pressure on Exercise Tolerance, Dynamic Hyperinflation, and Dyspnea in COPD.
Gass R, Merola P, Monteiro MB, Cardoso DM, Paiva DN, Teixeira PJ, Knorst MM, Berton DC.
Respir Care. 2017 Aug 1. pii: respcare.05556. doi: 10.4187/respcare.05556. [Epub ahead of print]
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Effect on health-related quality of life of ongoing feedback during a 12-month maintenance walking programme in patients with COPD: a randomized controlled trial.
Wootton SL, McKeough Z, Ng CLW, Jenkins S, Hill K, Eastwood PR, Hillman D, Jenkins C, Cecins N, Spencer L, Alison J.
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A Modified Method for Examining the Walking Pattern and Pace of COPD Patients in a 6-min Walk Test Before and After the Inhalation of Procaterol.
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Validity and reliability of strain gauge measurement of volitional quadriceps force in patients with COPD.
Machado Rodrigues F, Demeyer H, Hornikx M, Camillo CA, Calik-Kutukcu E, Burtin C, Janssens W, Troosters T, Osadnik C.
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Relationships between respiratory parameters, exercise capacity and psychosocial factors in people with chronic obstructive pulmonary disease.
Awotidebe TO, Awopeju OF, Bisiriyu LA, Ativie RN, Oke KI, Adedoyin RA, Olusola OD, Erhabor GE.
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Oxygen delivery and the restoration of the muscle energetic balance following exercise: implications for delayed muscle recovery in patients with COPD.
Layec G, Hart CR, Trinity JD, Kwon OS, Rossman MJ, Broxterman RM, Le Fur Y, Jeong EK, Richardson RS.
Am J Physiol Endocrinol Metab. 2017 Jul 1;313(1):E94-E104. doi: 10.1152/ajpendo.00462.2016. Epub 2017 Mar 14.
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Hand grip strength and chronic obstructive pulmonary disease in Korea: an analysis in KNHANES VI.
Lee SH, Kim SJ, Han Y, Ryu YJ, Lee JH, Chang JH.
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Behnia M, Wheatley C, Avolio A, Johnson B.
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Trethewey R, Esliger D, Petherick E, Evans R, Greening N, James B, Kingsnorth A, Morgan M, Orme M, Sherar L, Singh S, Toms N, Steiner M.
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Gait abnormalities of COPD are not directly related to respiratory function.
Morlino P, Balbi B, Guglielmetti S, Giardini M, Grasso M, Giordano C, Schieppati M, Nardone A.
Gait Posture. 2017 Aug 18;58:352-357. doi: 10.1016/j.gaitpost.2017.08.020. [Epub ahead of print]
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Systematic review of the association between exercise tests and patient-reported outcomes in patients with chronic obstructive pulmonary disease.
Punekar YS, Riley JH, Lloyd E, Driessen M, Singh SJ.
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Cardiorespiratory Responses to Short Bouts of Resistance Training Exercises in Individuals With Chronic Obstructive Pulmonary Disease: A COMPARISON OF EXERCISE INTENSITIES.

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J Cardiopulm Rehabil Prev. 2017 Sep;37(5):356-362. doi: 10.1097/HCR.0000000000000282.
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Gelinas JC, Lewis NC, Harper MI, Melzer B, Agar G, Rolf JD, Eves ND.
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de Blasio F, Santaniello MG, de Blasio F, Mazzarella G, Bianco A, Lionetti L, Franssen FME, Scalfi L.
Eur J Clin Nutr. 2017 Sep 13. doi: 10.1038/ejcn.2017.147. [Epub ahead of print]
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ACTIVATE: the effect of aclidinium/formoterol on hyperinflation, exercise capacity, and physical activity in patients with COPD.
Watz H, Troosters T, Beeh KM, Garcia-Aymerich J, Paggiaro P, Molins E, Notari M, Zapata A, Jarreta D, Garcia Gil E.
Int J Chron Obstruct Pulmon Dis. 2017 Aug 24;12:2545-2558. doi: 10.2147/COPD.S143488. eCollection 2017.
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Bernabeu-Mora R, Giménez-Giménez LM, Montilla-Herrador J, García-Guillamón G, García-Vidal JA, Medina-Mirapeix F.
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Int J Chron Obstruct Pulmon Dis. 2017 Aug 28;12:2583-2592. doi: 10.2147/COPD.S132117. eCollection 2017.

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Fujimoto Y, Oki Y, Kaneko M, Sakai H, Misu S, Yamaguchi T, Mitani Y, Yasuda H, Ishikawa A.
Int J Chron Obstruct Pulmon Dis. 2017 Sep 6;12:2669-2675. doi: 10.2147/COPD.S143477. eCollection 2017.
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Cycle ergometer and inspiratory muscle training offer modest benefit compared with cycle ergometer alone: a comprehensive assessment in stable COPD patients.
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The validation of the sit-to-stand test for COPD patients.
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The validation of the sit-to-stand test for COPD patients.
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Eur Respir J. 2017 Sep 20;50(3). pii: 1701203. doi: 10.1183/13993003.01203-2017. Print 2017 Sep.
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Non-invasive ventilation during cycle exercise training in patients with chronic respiratory failure on long-term ventilatory support: A randomized controlled trial.
Vitacca M, Kaymaz D, Lanini B, Vagheggini G, Ergün P, Gigliotti F, Ambrosino N, Paneroni M.
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PHYSICAL ACTIVITY

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Mesquita R, Spina G, Pitta F, Donaire-Gonzalez D, Deering BM, Patel MS, Mitchell KE, Alison J, van Gestel AJ, Zogg S, Gagnon P, Abascal-Bolado B, Vagaggini B, Garcia-Aymerich J, Jenkins SC, Romme EA, Kon SS, Albert PS, Waschki B, Shrikrishna D, Singh SJ, Hopkinson NS, Miedinger D, Benzo RP, Maltais F, Paggiaro P, McKeough ZJ, Polkey MI, Hill K, Man WD, Clarenbach CF, Hernandes NA, Savi D, Wootton S, Furlanetto KC, Cindy Ng LW, Vaes AW, Jenkins C, Eastwood PR, Jarreta D, Kirsten A, Brooks D, Hillman DR, Sant'Anna T, Meijer K, Dürr S, Rutten EP, Kohler M, Probst VS, Tal-Singer R, Gil EG, den Brinker AC, Leuppi JD, Calverley PM, Smeenk FW, Costello RW, Gramm M, Goldstein R, Groenen MT, Magnussen H, Wouters EF, ZuWallack RL, Amft O, Watz H, Spruit MA.
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Effectiveness of Smartphone Devices in Promoting Physical Activity and Exercise in Patients with Chronic Obstructive Pulmonary Disease: A Systematic Review.
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Collaborators: (13)
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TELEMEDICINE

The Effect of Integration of Self-Management Web Platforms on Health Status in Chronic Obstructive Pulmonary Disease Management in Primary Care (e-Vita Study): Interrupted Time Series Design.
Talboom-Kamp EP, Verdijk NA, Kasteleyn MJ, Harmans LM, Talboom IJ, Looijmans-van den Akker I, van Geloven N, Numans ME, Chavannes NH.
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Web-based Health Information Seeking and eHealth Literacy among Patients Living with Chronic Obstructive Pulmonary Disease (COPD).
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Perceptions of Patients With Chronic Obstructive Pulmonary Disease and Their Physiotherapists Regarding the Use of an eHealth Intervention.
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Ambrosino N, Fracchia C.

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Promoting Physical Activity Using the Internet: Is It Feasible and Acceptable for Patients With Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis?
Liacos A, Burge AT, Cox NS, Holland AE.
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PATIENT REPORTED OUTCOME MEASURES

Subjective cognitive complaints and neuropsychological performance in former smokers with and without chronic obstructive pulmonary disease.
Brunette AM, Holm KE, Wamboldt FS, Kozora E, Moser DJ, Make BJ, Crapo JD, Meschede K, Weinberger HD, Moreau KL, Bowler RP, Hoth KF.
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Lenferink A[1], Brusse-Keizer M, van der Valk PD, Frith PA, Zwerink M, Monninkhof EM, van der Palen J, Effing TW.
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Clinical-effectiveness of self-management interventions in chronic obstructive pulmonary disease: An overview of reviews.
Murphy LA, Harrington P, Taylor SJ, Teljeur C, Smith SM, Pinnock H, Ryan M.
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Systematic review of the association between exercise tests and patient-reported outcomes in patients with chronic obstructive pulmonary disease.
Punekar YS, Riley JH, Lloyd E, Driessen M, Singh SJ.
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A Cross-sectional Assessment of Health-related Quality of Life among Patients with Chronic Obstructive Pulmonary Disease.
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Song HY, Nam KA.
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Commonly used patient-reported outcomes do not improve prediction of COPD exacerbations - a multicenter 4.5 year prospective cohort study.
Strassmann A, Frei A, Haile SR, Ter Riet G, Puhan MA.
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Mohammed J, Derom E, De Wandele I, Rambaut L, Calders P.
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INTERSTITIAL LUNG DISEASE

Oxygen Therapy for Interstitial Lung Disease: Physicians' Perceptions and Experiences.
Khor YH, Goh NS, McDonald CF, Holland AE.
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Supplemental oxygen and dypsnoea in interstitial lung disease: absence of evidence is not evidence of absence.
Schaeffer MR, Molgat-Seon Y, Ryerson CJ, Guenette JA.

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Supplemental Oxygen in Interstitial Lung Disease: An Art in Need of Science.
Johannson KA, Pendharkar SR, Mathison K, Fell CD, Guenette JA, Kalluri M, Kolb M, Ryerson CJ.
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Factors affecting dyspnea after the 6-minute walk test in idiopathic pulmonary fibrosis patients presenting with exercise-induced hypoxemia.
Morino A, Takahashi H, Chiba H, Ishiai S.
J Phys Ther Sci. 2017 Aug;29(8):1458-1462. doi: 10.1589/jpts.29.1458. Epub 2017 Aug 10.
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Morino A, Takahashi H, Chiba H, Ishiai S.
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Prognosis and longitudinal changes of physical activity in idiopathic pulmonary fibrosis.
Bahmer T, Kirsten AM, Waschki B, Rabe KF, Magnussen H, Kirsten D, Gramm M, Hummler S, Brunnemer E, Kreuter M[6,7], Watz H.
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Validity, responsiveness and minimum clinically important difference of the incremental shuttle walk in idiopathic pulmonary fibrosis: a prospective study.
Nolan CM, Delogu V, Maddocks M, Patel S, Barker RE, Jones SE, Kon SSC, Maher TM, Cullinan P, Man WD.
Thorax. 2017 Sep 7. pii: thoraxjnl-2017-210589. doi: 10.1136/thoraxjnl-2017-210589. [Epub ahead of print]
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