ERS literature update
November-December 2019

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

Influence Of Socioeconomic Deprivation On Short- And Long-Term Outcomes Of Home-Based Pulmonary Rehabilitation In Patients With Chronic Obstructive Pulmonary Disease.
Grosbois JM, Heluain-Robiquet J, Machuron F, Terce G, Chenivesse C, Wallaert B, Le Rouzic O.
Int J Chron Obstruct Pulmon Dis. 2019 Oct 31;14:2441-2449. doi: 10.2147/COPD.S224348. eCollection 2019.
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Establishing a pulmonary rehabilitation programme in primary care in Greece: A FRESH AIR implementation study.
Anastasaki M, Trigoni M, Pantouvaki A, Trouli M, Mavrogianni M, Chavannes N, Pooler J, van Kampen S, Jones R, Lionis C, Tsiligianni I.
Chron Respir Dis. 2019 Jan-Dec;16:1479973119882939. doi: 10.1177/1479973119882939.
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Coexistence of malnutrition, frailty, physical frailty and disability in patients with COPD starting a pulmonary rehabilitation program.
Ter Beek L, van der Vaart H, Wempe JB, Krijnen WP, Roodenburg JLN, van der Schans CP, Jager-Wittenaar H.
Clin Nutr. 2019 Nov 16. pii: S0261-5614(19)33143-7. doi: 10.1016/j.clnu.2019.11.016. [Epub ahead of print]
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Patients with COPD who underwent pulmonary rehabilitation in Turkey: prevalence, distribution, and mortality.
Özdemir T, Candemir I, Ergün P, Türkkani MH, Koç O.
Turk J Med Sci. 2019 Nov 26. doi: 10.3906/sag-1901-224. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/31769642

Longevity of pulmonary rehabilitation benefit for chronic obstructive pulmonary disease-health care utilisation in the subsequent 2 years.
Walsh JR, Pegg J, Yerkovich ST, Morris N, McKeough ZJ, Comans T, Paratz JD, Chambers DC.
BMJ Open Respir Res. 2019 Nov 24;6(1):e000500. doi: 10.1136/bmjresp-2019-000500. eCollection 2019.
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EXERCISE TESTING AND TRAINING

Effect of Virtual Reality-Based Rehabilitation on Physical Fitness in Patients with Chronic Obstructive Pulmonary Disease.
Rutkowski S, Rutkowska A, Jastrzębski D, Racheniuk H, Pawełczyk W, Szczegielniak J.
J Hum Kinet. 2019 Oct 18;69:149-157. doi: 10.2478/hukin-2019-0022. eCollection 2019 Oct.
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Effect of yoga on FEV1, 6-minute walk distance (6-MWD) and quality of life in patients with COPD group B.
Yudhawati R, Rasjid Hs M.
Adv Respir Med. 2019;87(5):261-268. doi: 10.5603/ARM.2019.0047.
https://www.ncbi.nlm.nih.gov/pubmed/31680225

Chronic obstructive pulmonary disease patients increase medio-lateral stability and limit changes in antero-posterior stability to curb energy expenditure.
Fallahtafti F, Curtze C, Samson K, Yentes JM.
Gait Posture. 2019 Oct 21;75:142-148. doi: 10.1016/j.gaitpost.2019.10.025. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/31683184

Effects of Different Modes of Upper Limb Training in Individuals With Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.
Kruapanich C, Tantisuwat A, Thaveeratitham P, Lertmaharit S, Ubolnuar N, Mathiyakom W.
Ann Rehabil Med. 2019 Oct;43(5):592-614. doi: 10.5535/arm.2019.43.5.592. Epub 2019 Oct 31.
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Acute Effects of the 6-Minute Pegboard and Ring Test in COPD.
Dos Reis IMM, Basso-Vanelli RP, Beltrame T, Frade MCM, de Abreu RM, Cid MM, Catai AM, Oliveira AB, Jamami M.
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The Mini-Balance Evaluation System Test Can Predict Falls in Clinically Stable Outpatients With COPD: A 12-MO PROSPECTIVE COHORT STUDY.
Pereira ACAC, Xavier RF, Lopes AC, da Silva CCBM, Oliveira CC, Fernandes FLA, Stelmach R, Carvalho CRF.
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https://www.ncbi.nlm.nih.gov/pubmed/31689266

Active video games as an adjunct to pulmonary rehabilitation of patients with chronic obstructive pulmonary disease: a systematic review and meta-analysis.
Wang YQ, Liu X, Ma RC, Yin YY, Yang Z, Cao HP, Xie J.
Am J Phys Med Rehabil. 2019 Oct 25. doi: 10.1097/PHM.0000000000001341. [Epub ahead of print]
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Exercise Training Modalities for People with Chronic Obstructive Pulmonary Disease.
Nolan CM, Rochester CL.
COPD. 2019 Nov 4:1-12. doi: 10.1080/15412555.2019.1637834. [Epub ahead of print]
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Association Between the Results of the Timed Up-and-Go Test Adjusted for Disease Severity and Sarcopenia in Patients with Chronic Obstructive Pulmonary Disease: a Pilot Study.
Kovelis D, Gomes ARS, Mazzarin C, de Miranda A, Valderramas S.
Clinics (Sao Paulo). 2019 Nov 7;74:e930. doi: 10.6061/clinics/2019/e930. eCollection 2019.
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Diagnostic Validity of Cardiopulmonary Exercise Testing for Screening Pulmonary Hypertension in Patients With Chronic Obstructive Pulmonary Disease.
Kader MN, Moiz JA, Bhati P, Ali MS, Talwar D.
J Cardiopulm Rehabil Prev. 2019 Nov 8. doi: 10.1097/HCR.0000000000000456. [Epub ahead of print]
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Physiological Responses to the 6-min Step Test in Patients With Chronic Obstructive Pulmonary Disease.
Munari AB, Venâncio RS, Klein SR, Gulart AA, Silva IJCS, Sonza A, Dal Lago P, Mayer AF.
J Cardiopulm Rehabil Prev. 2019 Nov 8. doi: 10.1097/HCR.0000000000000469. [Epub ahead of print]
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Are the measurement properties of incremental exercise tests similar between patients with COPD and CHF?
Harvey-Dunstan TC, Singh SJ, Steiner MC, Morgan MD, Evans RA.
Chron Respir Dis. 2019 Jan-Dec;16:1479973119887965. doi: 10.1177/1479973119887965.
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Effects of Non-Invasive Ventilation Combined with Oxygen Supplementation on Exercise Performance in COPD Patients with Static Lung Hyperinflation and Exercise-Induced Oxygen Desaturation: A Single Blind, Randomized Cross-Over Trial.
Koopman M, Spruit MA, Franssen FME, Delbressine J, Wouters EFM, Mathew D, Vink A, Vanfleteren LEGW.

J Clin Med. 2019 Nov 18;8(11). pii: E2012. doi: 10.3390/jcm8112012.
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Randomized feasibility study of twice a day functional electrostimulation in patients with severe chronic obstructive pulmonary disease hospitalized for acute exacerbation.
Lopez-Lopez L, Torres-Sanchez I, Rodriguez-Torres J, Cabrera-Martos I, Cahalin LP, Valenza MC.
Physiother Theory Pract. 2019 Nov 26:1-8. doi: 10.1080/09593985.2019.1694611. [Epub ahead of print]
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Quadriceps Endurance Increases Following Cycling Exercise With Non-Invasive Ventilation In Moderate-To-Severe COPD Patients. A Non-Randomized Controlled Study.
Labeix P, Berger M, Court Fortune I, Feasson L, Verges S, Costes F.
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Effects of combining functional exercises with exercise training on daily physical activities and functionality in patients with COPD: a protocol for a randomized clinical trial.
de Lima FF, Camillo CA, Grigoletto I, Uzeloto JS, Vanderlei FM, Ramos D, Ramos EMC.
Trials. 2019 Dec 5;20(1):680. doi: 10.1186/s13063-019-3780-y.
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Clinical Effects Of Acupuncture On The Pathophysiological Mechanism Of Chronic Obstructive Pulmonary Disease During Exercise.
Maekura T, Miki K, Miki M, Kitada S, Maekura R.
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Kofod LM, Hage T, Christiansen LH, Skalkam K, Martinez G, Godtfredsen NS, Molsted S.
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PHYSICAL ACTIVITY

Physical Activity Behaviour in People with COPD Residing in Spain: A Cross-Sectional Analysis.
Sánchez Castillo S, Smith L, Díaz Suárez A, López Sánchez GF.
Lung. 2019 Nov 4. doi: 10.1007/s00408-019-00287-4. [Epub ahead of print]
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Lavoie KL, Sedeno M, Hamilton A, Li PZ, De Sousa D, Troosters T, Maltais F, Bourbeau J.
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Use of pedometers as a tool to promote daily physical activity levels in patients with COPD: a systematic review and meta-analysis.
Armstrong M, Winnard A, Chynkiamis N, Boyle S, Burtin C, Vogiatzis I.
Eur Respir Rev. 2019 Nov 13;28(154). pii: 190039. doi: 10.1183/16000617.0039-2019. Print 2019 Dec 31.
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Effect of Using a Wheeled Walker on Physical Activity and Sedentary Time in People with Chronic Obstructive Pulmonary Disease: A Randomised Cross-Over Trial.
Hill K, Ng LWC, Cecins N, Formico VR, Cavalheri V, Jenkins SC.
Lung. 2019 Dec 11. doi: 10.1007/s00408-019-00297-2. [Epub ahead of print]
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Physical Activity in Patients with Chronic Obstructive Pulmonary Disease on Long-Term Oxygen Therapy: A Cross-Sectional Study.
Paneroni M, Ambrosino N, Simonelli C, Bertacchini L, Venturelli M, Vitacca M.
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TELEMEDICINE*

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

Mood Monitoring Over One Year for People With Chronic Obstructive Pulmonary Disease Using a Mobile Health System: Retrospective Analysis of a Randomized Controlled Trial.
Whelan ME, Velardo C, Rutter H, Tarassenko L, Farmer AJ.
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Remote Pulmonary Function Test Monitoring in Cloud Platform via Smartphone Built-in Microphone.
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Clinical effect on uncontrolled asthma using a novel digital automated self-management solution: a physician-blinded randomised controlled crossover trial.
Ljungberg H, Carleborg A, Gerber H, Öfverström C, Wolodarski J, Menshi F, Engdahl M, Eduards M, Nordlund B. Eur Respir J. 2019 Nov 14;54(5):1900983. doi: 10.1183/13993003.00983-2019.
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The Good, the Bad, and the Unknown of Telemedicine in Asthma and Allergy Practice.
Wu AC, Rehman N, Portnoy J. J Allergy Clin Immunol Pract. 2019 Nov-Dec;7(8):2580-2582. doi: 10.1016/j.jaip.2019.08.017.
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Guo P, Qiao W, Sun Y, Liu F, Wang C. Telemed J E Health. 2019 Dec 2;10.1089/tmj.2019.0190. doi: 10.1089/tmj.2019.0190. [Epub ahead of print].
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Bousquet J, Anto JM, Bachert C, Bosnic-Anticevich S, Erhola M, Haahtela T, Hellings PW, Kuna P, Pfaar O, Samolinski B, Schünemann HJ, Sheikh A, Wallace D; ARIA study group. Eur Respir J. 2019 Dec 4;54(6):1901023. doi: 10.1183/13993003.01023-2019.
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Ainsworth B, Greenwell K, Stuart B, Raftery J, Mair F, Bruton A, Yardley L, Thomas M. BMJ Open. 2019 Nov 12;9(11):e032465. doi: 10.1136/bmjopen-2019-032465. PMID: 31722952; PMCID: PMC6858238.
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Using digital technology for home monitoring, adherence and self-management in cystic fibrosis: a state-of-the-art review.
Calthorpe RJ, Smith S, Gathercole K, Smyth AR. Thorax. 2020 Jan;75(1):72-77. doi: 10.1136/thoraxjnl-2019-213233. Epub 2019 Oct 8. PMID: 31594802.
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PATIENT REPORTED OUTCOME MEASURES

Responsiveness of PROMIS® to change in chronic obstructive pulmonary disease.
Yount SE, Atwood C, Donohue J, Hays RD, Irwin D, Leidy NK, Liu H, Spritzer KL, DeWalt DA. J Patient Rep Outcomes. 2019 Oct 29;3(1):65. doi: 10.1186/s41687-019-0155-9.
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A study on the validity and reliability of the turkish version of clinical chronic obstructive pulmonary disease questionnaire.
Taspinar B, Erbay U, Taspinar F, Aksoy CC.
J Back Musculoskelet Rehabil. 2019 Oct 15. doi: 10.3233/BMR-181439. [Epub ahead of print]
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Identification and assessment of breathlessness in clinical practice: a systematic review and narrative synthesis.
Elliott-Button HL, Johnson MJ, Nwulu U, Clark J.
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Esquinas C, Ramon MA, Nuñez A, Molina J, Quintano JA, Roman-Rodríguez M, Naberan K, Llor C, Roncero C, Miravitlles M, Barrecheguren M.
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Philip K, Gaduzo S, Rogers J, Laffan M, Hopkinson NS.
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Clinical validation of the Swedish version of Dyspnoea-12 instrument in outpatients with cardiorespiratory disease.
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BMJ Open Respir Res. 2019 Sep 18;6(1):e000418. doi: 10.1136/bmjresp-2019-000418. eCollection 2019.
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Evaluation of meaning of life and self-care agency in nursing care given to chronic obstructive pulmonary patients according to health promotion model.
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CAT score single item analysis in patients with COPD: Results from COSYCONET.
Marietta von Siemens S, Alter P, Lutter JI, Kauczor HU, Jobst B, Bals R, Trudzinski FC, Söhler S, Behr J, Watz H, Waschki B, Bewig B, Jones PW, Welte T, Vogelmeier CF, Jörres RA, Kahnert K; COSYCONET study group.
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Concordance of patients' beliefs about chronic obstructive pulmonary disease, their comorbidities, and their medications.
McInerney GE, Muellers K, O'Conor R, Wolf MS, Leventhal H, Wisnivesky JP, Federman AD.
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Satisfaction with chronic obstructive pulmonary disease treatment: results from a multicenter, observational study.
Contoli M, Rogliani P, Di Marco F, Braido F, Corsico AG, Amici CA, Piro R, Sarzani R, Lessi P, Scognamillo C, Scichilone N, Santus P; SAT Study Group.
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Validity and reliability of the Turkish version of the copd exercise Self-Regulatory efficacy scale.
Ünal Aslan KS, Çetinkaya F.
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Convergent Validity and Minimal Clinically Important Difference of the Maugeri Foundation Respiratory Failure Questionnaire (MRF-28) and the Chronic Obstructive Pulmonary Disease-Specific Health-Related Quality of Life questionnaire (VQ11).
Coquart JB, Heutte N, Terce G, Grosbois JM.
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INTERSTITIAL LUNG DISEASE

Demographic and clinical predictors of progression and mortality in connective tissue disease-associated interstitial lung disease: a retrospective cohort study.
Chan C, Ryerson CJ, Dunne JV, Wilcox PG.
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Longitudinal clinical outcomes in a real-world population of patients with idiopathic pulmonary fibrosis: the PROOF registry.
Wuyts WA, Dahlqvist C, Slabbynck H, Schlesser M, Gusbin N, Compere C, Maddens S, Lee YC, Kirchgaessler KU, Bartley K, Bondue B.
Respir Res. 2019 Oct 24;20(1):231. doi: 10.1186/s12931-019-1182-z.
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Moor CC, Wijsenbeek MS, Balestro E, Biondini D, Bondue B, Cottin V, Flewett R, Galvin L, Jones S, Molina-Molina M, Planas-Cerezales L, Prasse A, Prosch H, Russell AM, Viegas M, Wanke G, Wuyts W, Kreuter M, Bonella F.
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Uncovering the mechanisms of exertional dyspnoea in combined pulmonary fibrosis and emphysema.
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Cardiopulmonary Exercise Testing Allows Discrimination Between Idiopathic Non-specific Interstitial Pneumonia and Idiopathic Pulmonary Fibrosis in Mild to Moderate Stages of the Disease.
Hagmeyer L, Herkenrath S, Anduleit N, Treml M, Randerath W.
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Cost-effectiveness of Ambulatory Oxygen in improving quality of life in fibrotic lung disease: Preliminary evidence from the AmbOx Trial.
Whitty JA, Rankin J, Visca D, Tsipouri V, Mori L, Spencer L, Adamali H, Maher TM, Hopkinson NS, Birring SS, Farquhar M, Wells AU, Sestini P, Renzoni EA.
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Zamani A.

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Idiopathic Pulmonary Fibrosis: Best Practice in Monitoring and Managing a Relentless Fibrotic Disease.
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ASTHMA

Working for Better Asthma Control: How Can We Improve the Dialogue Between Patients and Healthcare Professionals?
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