



ERS literature update September-October 2020

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

Efficacy of adding activity of daily living simulation training to traditional pulmonary rehabilitation on dyspnea and health-related quality-of-life.

Mahoney K, Pierce J, Papo S, Imran H, Evans S, Wu WC.

PLoS One. 2020 Aug 27;15(8):e0237973. doi: 10.1371/journal.pone.0237973. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32853275/>

Changes in the ability to participate in and satisfaction with social roles and activities in patients in outpatient rehabilitation.

Tamminga SJ, van Vree FM, Volker G, Roorda LD, Terwee CB, Goossens PH, Vliet Vlieland TPM.

J Patient Rep Outcomes. 2020 Sep 1;4(1):73. doi: 10.1186/s41687-020-00236-3.

<https://pubmed.ncbi.nlm.nih.gov/32870463/>

Association between patient-reported outcomes and exercise test outcomes in patients with COPD before and after pulmonary rehabilitation.

Meys R, Stoffels AAF, Houben-Wilke S, Janssen DJA, Burtin C, van Hees HWH, Franssen FME, van den Borst B, Wouters EFM, Spruit MA; BASES-consortium.

Health Qual Life Outcomes. 2020 Sep 5;18(1):300. doi: 10.1186/s12955-020-01505-x.

<https://pubmed.ncbi.nlm.nih.gov/32891156/>

12-months follow-up of pulmonary tele-rehabilitation versus standard pulmonary rehabilitation: A multicentre randomised clinical trial in patients with severe COPD.

Godtfredsen N, Frølich A, Bieler T, Beyer N, Kallemsø T, Wilcke T, Østergaard L, Frost Andreassen H, Martinez G, Lavesen M, Hansen H.

Respir Med. 2020 Aug 28;172:106129. doi: 10.1016/j.rmed.2020.106129. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32905893/>

Effect of a pulmonary rehabilitation programme of 8 weeks compared to 12 weeks duration on exercise capacity in people with chronic obstructive pulmonary disease (PuRe Duration): protocol for a randomised controlled trial.

Bishop J, Spencer L, Alison J.

BMJ Open Respir Res. 2020 Sep;7(1):e000687. doi: 10.1136/bmjresp-2020-000687.

<https://pubmed.ncbi.nlm.nih.gov/32933927/>

Effect of sitting and lying Liuzijue for lung rehabilitation in acute exacerbation of chronic obstructive pulmonary disease patients with non-invasive ventilation: Study protocol for a randomized controlled trial.

Medicine (Baltimore). 2020 Sep 18;99(38):e22111. doi: 10.1097/MD.00000000000022111.

Yi J, Wang F, Yue R, Lin Q, Ding R, Xie X, Jiang H, Jian F, Li Y, Zhong Q.

<https://pubmed.ncbi.nlm.nih.gov/32957331/>

Benefits of pulmonary rehabilitation in patients with advanced lymphangioleiomyomatosis (LAM) compared with COPD - a retrospective analysis.

Gloeckl R, Nell C, Schneeberger T, Jarosch I, Boensch M, Watz H, Wirtz H, Welte T, Kenn K, Rembert Koczulla A.

Orphanet J Rare Dis. 2020 Sep 22;15(1):255. doi: 10.1186/s13023-020-01540-3.

<https://pubmed.ncbi.nlm.nih.gov/32962746/>

Patient characteristics and predictors of completion of a pulmonary rehabilitation programme in Auckland, New Zealand.

Candy S, Jepsen N, Coomarasamy C, Curry J, Dodson G, Pomelile J, Versey M, Reeve J. N Z Med J. 2020 Sep 25;133(1522):30-41.

<https://pubmed.ncbi.nlm.nih.gov/32994614/>

Taking Charge: A Proposed Psychological Intervention to Improve Pulmonary Rehabilitation Outcomes for People with COPD.

McNaughton A, Levack W, McNaughton H.

Int J Chron Obstruct Pulmon Dis. 2020 Sep 11;15:2127-2133. doi: 10.2147/COPD.S267268. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32982205/>

Effect of 12-week pulmonary rehabilitation on cognitive function in patients with stable chronic obstructive pulmonary disease: study protocol for a single-center randomised controlled trial.

Duan H, Li P, Wang Z, Chen H, Wang T, Wu W, Liu X.

BMJ Open. 2020 Oct 16;10(10):e037307. doi: 10.1136/bmjopen-2020-037307.

<https://pubmed.ncbi.nlm.nih.gov/33067278/>

Comprehensive Pulmonary Rehabilitation is an Effective Way for Better Postoperative Outcomes in Surgical Lung Cancer Patients with Risk Factors: A Propensity Score-Matched Retrospective Cohort Study.

Zhou K, Lai Y, Wang Y, Sun X, Mo C, Wang J, Wu Y, Li J, Chang S, Che G.

Cancer Manag Res. 2020 Sep 23;12:8903-8912. doi: 10.2147/CMAR.S267322. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/33061586/>

Efficacy of Unsupervised Home-Based Pulmonary Rehabilitation for Patients with Chronic Obstructive Pulmonary Disease.

Lee JH, Lee HY, Jang Y, Lee JS, Oh YM, Lee SD, Lee SW.

Int J Chron Obstruct Pulmon Dis. 2020 Sep 28;15:2297-2305. doi: 10.2147/COPD.S268683. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/33061347/>

The Cost-Effectiveness of Pulmonary Rehabilitation for COPD in Different Settings: A Systematic Review.

Liu S, Zhao Q, Li W, Zhao X, Li K.

Appl Health Econ Health Policy. 2020 Oct 20. doi: 10.1007/s40258-020-00613-5. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33079374/>

Long-term benefits of pulmonary rehabilitation in COPD patients: a 2-year follow-up study.

Yohannes AM, Dryden S, Casaburi R, Hanania NA.

Chest. 2020 Oct 21;S0012-3692(20)34927-8. doi: 10.1016/j.chest.2020.10.032. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33098829/>

Assessment of knowledge, attitude, and practice towards pulmonary rehabilitation among COPD patients: A multicenter and cross-sectional survey in China.

Xie L, Liu Z, Hao S, Wu Q, Sun L, Luo H, Yu R, Li X, Wu X, Li S.

Respir Med. 2020 Oct 20;174:106198. doi: 10.1016/j.rmed.2020.106198. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33120194/>

Long-Term Effectiveness of a Home-Based Pulmonary Rehabilitation in Older People with Chronic Obstructive Pulmonary Disease: A Retrospective Study.

Gephine S, Le Rouzic O, Machuron F, Wallaert B, Chenivresse C, Saey D, Maltais F, Mucci P, Grosbois J-M.

Int J Chron Obstruct Pulmon Dis. 2020 Oct 15;15:2505-2514. doi: 10.2147/COPD.S268901. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/33116467/>

Evidence for pulmonary rehabilitation in chronic respiratory diseases in sub-Saharan Africa: a systematic review.

Bickton FM, Fombe C, Chisati E, Rylance J.

Int J Tuberc Lung Dis. 2020 Oct 1;24(10):991-999. doi: 10.5588/ijtld.19.0526.

<https://pubmed.ncbi.nlm.nih.gov/33126930/>

EXERCISE TESTING AND TRAINING

Cognitive and motor performances in dual task in patients with chronic obstructive pulmonary disease: a comparative study.

Ozsoy I, Ozsoy G, Kararti C, Buyukturan B, Yilmaz F, Buyukturan O, Erturk A.

Ir J Med Sci. 2020 Sep 3. doi: 10.1007/s11845-020-02357-6. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32885377/>

Submaximal eccentric cycling in people with COPD: acute whole-body cardiopulmonary and muscle metabolic responses.

Ward TJC, Lindley MR, Ferguson RA, Constantin D, Singh SJ, Bolton CE, Evans RA, Greenhaff PL, Steiner MC.
Chest. 2020 Sep 1:S0012-3692(20)34312-9. doi: 10.1016/j.chest.2020.08.2082. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32888931/>

Short physical performance battery as a practical tool to assess mortality risk in chronic obstructive pulmonary disease.

Fermont JM, Mohan D, Fisk M, Bolton CE, Macnee W, Cockcroft JR, McEniery C, Fuld J, Cheriyan J, Tal-Singer R, Müllerova H, Wood AM, Wilkinson IB, Polkey MI; ERICA consortium. Age Ageing. 2020 Sep 7:afaa138. doi: 10.1093/ageing/afaa138. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32894757/>

Effect of Passive Stretching of Respiratory Muscles on Chest Expansion and 6-Minute Walk Distance in COPD Patients.

Int J Environ Res Public Health. 2020 Sep 6;17(18):E6480. doi: 10.3390/ijerph17186480.

Rehman A, Ganai j, Aggarwal R, Alghadir AH, Iqbal ZA.

<https://pubmed.ncbi.nlm.nih.gov/32899902/>

Dyspnea and Exercise Limitation in Mild COPD: The Value of CPET.

James MD, Milne KM, Phillips DB, Neder JA, O'Donnell DE.

Front Med (Lausanne). 2020 Aug 13;7:442. doi: 10.3389/fmed.2020.00442. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32903547/>

Influence of Baduanjin on lung function, exercise capacity, and quality of life in patients with mild chronic obstructive pulmonary disease.

Yang Y, Chen K, Tang W, Xie X, Xiao W, Xiao J, Luo X, Wang W.

Medicine (Baltimore). 2020 Sep 11;99(37):e22134. doi: 10.1097/MD.00000000000022134.

<https://pubmed.ncbi.nlm.nih.gov/32925765/>

The effect of teach-back training intervention of breathing exercise on the level of dyspnea, six-minutes walking test and FEV1/FVC ratio in patients with chronic obstructive pulmonary disease; a randomized controlled trial.

Hasanpour Dehkordi A, Ebrahimi-Dehkordi S, Banitalebi-Dehkordi F, Salehi Tali S, Kheiri S, Soleimani Babadi A. Expert Rev Respir Med. 2020 Sep 14. doi:

10.1080/17476348.2020.1822740. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32921199/>

Assessment of knee extensor and flexor function using isokinetic test in COPD: impact on exercise capacity.

Li P, Wang Z, Lu Y, Li N, Xiao L, Su J, Duan H, Liu X, Wu W.

Int J Tuberc Lung Dis. 2020 Aug 1;24(8):776-781. doi: 10.5588/ijtld.19.0588.

<https://pubmed.ncbi.nlm.nih.gov/32912381/>

Beta-alanine supplementation in patients with COPD receiving non-linear periodised exercise training or neuromuscular electrical stimulation: protocol of two randomised, double-blind, placebo-controlled trials.

BMJ Open. 2020 Sep 13;10(9):e038836. doi: 10.1136/bmjopen-2020-038836.

Meys R, Stoffels AAF, de Brandt J, van Hees HWH, Franssen FME, Sillen MJH, Wouters EFM, Burtin C, Klijn P, bij de Vaate E, van den Borst B, Otker JM, Donkers J, Schleich FN, Hayot M, Pomiès P, Everaert I, Derave W, Spruit MA, BASES consortium.

<https://pubmed.ncbi.nlm.nih.gov/32928863/>

Exercise & Sports Science Australia (ESSA) position statement on exercise and chronic obstructive pulmonary disease.

Morris NR, Hill K, Walsh J, Sabapathy S.

J Sci Med Sport. 2020 Sep 1;S1440-2440(20)30739-8. doi: 10.1016/j.jsams.2020.08.007.

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<https://pubmed.ncbi.nlm.nih.gov/32928654/>

Balneotherapy and hydrotherapy in chronic respiratory disease.

Khaltaev N, Solimene U, Vitale F, Zanasi A.

J Thorac Dis. 2020 Aug;12(8):4459-4468. doi: 10.21037/jtd-gard-2019-009.

<https://pubmed.ncbi.nlm.nih.gov/32944359/>

Cardio-pulmonary-exercise testing, stress-induced right ventricular diastolic dysfunction and exercise capacity in non-severe chronic obstructive pulmonary disease.

Cherneva RV, Denchev SV, Cherneva ZV.

Pulmonology. 2020 Sep 14;S2531-0437(20)30139-2. doi: 10.1016/j.pulmoe.2020.06.005.

Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32943349/>

Effect of different form of upper limb muscles training on dyspnea in chronic obstructive pulmonary disease: A study protocol.

Beaumont M, Péran L, Berriet AC, Le Ber C, Le Mevel P, Courtois-Communier E, Couturaud F. Medicine (Baltimore). 2020 Sep 18;99(38):e22131. doi: 10.1097/MD.00000000000022131.

<https://pubmed.ncbi.nlm.nih.gov/32957334/>

Is Structured Exercise Performed with Supplemental Oxygen a Promising Method of Personalized Medicine in the Therapy of Chronic Diseases?

Freitag N, Doma K, Neunhaeuserer D, Cheng S, Bloch W, Schumann M.

J Pers Med. 2020 Sep 19;10(3):E135. doi: 10.3390/jpm10030135.

<https://pubmed.ncbi.nlm.nih.gov/32961816/>

Novel versus Traditional Inspiratory Muscle Training Regimens as Home-Based, Stand-Alone Therapies in COPD: Protocol for a Randomized Controlled Trial.

Formiga MF, Dosbaba F, Hartman M, Batalik L, Plutinsky M, Brat K, Ludka O, Cahalin LP.

Int J Chron Obstruct Pulmon Dis. 2020 Sep 11;15:2147-2155. doi: 10.2147/COPD.S266234. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32982207/>

Non-invasive ventilation improves exercise tolerance and peripheral vascular function after high-intensity exercise in COPD-HF patients.

da Luz Goulart C, Caruso FR, Garcia de Araújo AS, Tinoco Arêas GP, Garcia de Moura SC, Catai AM, Mendes RG, Phillips SA, Arena R, Gonçalves da Silva AL, Borghi-Silva A. Respir Med. 2020 Sep 25;173:106173. doi: 10.1016/j.rmed.2020.106173. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33007709/>

Never-smokers with occupational COPD have better exercise capacities and ventilatory efficiency than matched smokers with COPD.

Soumagne T, Guillien A, Roche N, Dalphin JC, Degano B.

J Appl Physiol (1985). 2020 Oct 1. doi: 10.1152/jappphysiol.00306.2020. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33002379/>

The Correlation of Sit-to-Stand Tests with COPD Assessment Test and GOLD Staging Classification.

Kakavas S, Papanikolaou A, Kompogiorgas S, Stavrinoudakis E, Karayiannis D, Balis E.

COPD. 2020 Oct 6;1-7. doi: 10.1080/15412555.2020.1825661. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33023324/>

Noninvasive Ventilation Accelerates Oxygen Uptake Recovery Kinetics in Patients With Combined Heart Failure and Chronic Obstructive Pulmonary Disease.

Mazzuco A, Souza AS, Goulart CDL, Medeiros WM, Sperandio PA, Alencar MCN, Arbex FF, Neder JA, Arena R, Borghi-Silva A.

J Cardiopulm Rehabil Prev. 2020 Oct 15. doi: 10.1097/HCR.0000000000000499. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33074848/>

The Effect of Adding Neuromuscular Electrical Stimulation with Endurance and Resistance Training on Exercise Capacity and Balance in Patients with Chronic Obstructive Pulmonary Disease: A Randomized Controlled Trial.

Acheche A, Mekki M, Paillard T, Tabka Z, Trabelsi Y.

Can Respir J. 2020 Sep 29;2020:9826084. doi: 10.1155/2020/9826084. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/33062081/>

A systematic review and meta-analysis of Liuzijue in stable patients with chronic obstructive pulmonary disease.

Xiao L, Duan H, Li P, Wu W, Shan C, Liu X.

BMC Complement Med Ther. 2020 Oct 14;20(1):308. doi: 10.1186/s12906-020-03104-1.

<https://pubmed.ncbi.nlm.nih.gov/33054800/>

High-intensity exercise impairs extradiaphragmatic respiratory muscle perfusion in patients with COPD.

Louvaris Z, Rodrigues A, Dacha S, Gojevic T, Janssens W, Vogiatzis I, Gosselink R, Langer D.

J Appl Physiol (1985). 2020 Oct 29. doi: 10.1152/jappphysiol.00659.2020. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33119468/>

A feasibility pragmatic clinical trial of a primary care network exercise and education program for people with COPD.

Hurley KMT, Selzler A-M, Rodgers WM, Stickland MK.

Pilot Feasibility Stud. 2020 Oct 26;6:162. doi: 10.1186/s40814-020-00705-y. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/33117559/>

Combating With COPD by QiGong Physical and Mental Exercise.

Serin EK.

Holist Nurs Pract. 2020 Oct 27. doi: 10.1097/HNP.0000000000000416. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33116055/>

Factors Associated with Exercise-Induced Desaturation in Patients with Chronic Obstructive Pulmonary Disease.

Chang C-H, Lin H-C, Yang C-H, Gan S-T, Huang C-H, Chung F-T, Hu H-C, Lin S-M, Chang C-H.

Int J Chron Obstruct Pulmon Dis. 2020 Oct 23;15:2643-2652. doi: 10.2147/COPD.S272511. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/33122902/>

A Prediction Equation to Assess Resting Energy Expenditure in Japanese Patients with COPD.

Morikawa K, Tabira K, Takemura H, Inaba S, Kusuki H, Hashitsume Y, Suzuki Y, Tenpaku Y, Yasuma T, D'Alessandro-Gabazza CN, Gabazza E, Hataji O.

J Clin Med. 2020 Oct 27;9(11):E3455. doi: 10.3390/jcm9113455.

<https://pubmed.ncbi.nlm.nih.gov/33121107/>

PHYSICAL ACTIVITY

Age and Attitudes Towards an Internet-Mediated, Pedometer-Based Physical Activity Intervention for Chronic Obstructive Pulmonary Disease: Secondary Analysis.

Robinson SA, Wan ES, Shimada SL, Richardson CR, Moy ML.

JMIR Aging. 2020 Sep 9;3(2):e19527. doi: 10.2196/19527.

<https://pubmed.ncbi.nlm.nih.gov/32902390/>

First-Line Treatment with Tiotropium/Olodaterol Improves Physical Activity in Patients with Treatment-Naïve Chronic Obstructive Pulmonary Disease.

Int J Chron Obstruct Pulmon Dis. 2020 Sep 14;15:2115-2126. doi: 10.2147/COPD.S268905. eCollection 2020.

Takahashi K, Uchida M, Kato G, Takamori A, Kinoshita T, Yoshida M, Tajiri R, Kojima K, Inoue H, Kobayashi H, Sadamatsu H, Tashiro H, Tanaka M, Hayashi S, Kawaguchi A, Kimura S, Sueoka-Aragane N, Kawayama T, Saga-naïve COPD Physical Activity Evaluation (SCOPE) Study Investigator Group.

<https://pubmed.ncbi.nlm.nih.gov/32982204/>

Smoking and Physical Activity Patterns of U.S. Military Veterans With Chronic Obstructive Pulmonary Disease: An Analysis of 2017 Behavioral Risk Factor Surveillance System.

Greiner B, Ottwell R, Corcoran A, Hartwell M.
Mil Med. 2020 Oct 3:usaa330. doi: 10.1093/milmed/usaa330. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33007087/>

Patterns of Physical Activity Progression in Patients With COPD.

Koreny M, Demeyer H, Benet M, Arbillaga-Etxarri A, Balcells E, Barberan-Garcia A, Gimeno-Santos E, Hopkinson NS, De Jong C, Karlsson N, Louvaris Z, Polkey MI, Puhan MA, Rabinovich RA, Rodríguez-Roisin R, Vall-Casas P, Vogiatzis I, Troosters T, Garcia-Aymerich J; Urban Training Study Group and PROactive Consortium members; Urban Training Study Group, Arbillaga-Etxarri A, Benet M, Delgado A, Garcia-Aymerich J, Gimeno-Santos E, Torrent-Pallicer J, Vilaró J, Barberan-Garcia A, Balcells E, Chiaradía DAR, Marín A, Ortega P, Celorrio N, Teagudo MM, Montellà N, Muñoz L, Toran P, Simonet P, Jané C, Martín-Cantera C, Borrell E, Vall-Casas P; PROactive Consortium members, Ivanoff N, Karlsson N, Corriol-Rohou S, Jarrod I, Erzen D, Brindicci C, Higenbottam T, Scuri M, McBride P, Kamel N, Tabberer M, Troosters T, Dobbels F, Garcia-Aymerich J, de Boer P, Kulich K, Glendenning A, Rudell K, Wilson FJ, Polkey MI, Hopkinson NS, Vogiatzis I, Nikai E, van der Molen T, De Jong C, Rabinovich RA, MacNee B, Puhan MA, Frei A.
Arch Bronconeumol. 2020 Oct 8:S0300-2896(20)30280-5. doi: 10.1016/j.arbres.2020.08.001. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33041107/>

Reliability and Validity of Patient-Reported, Rater-Based, and Hybrid Physical Activity Assessments in COPD: A Systematic Review.

Gore S, Chindam T, Goldberg A, Huang MH, Shoemaker M, Blackwood J.
COPD. 2020 Oct 15:1-11. doi: 10.1080/15412555.2020.1830963. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33054418/>

Daily Activities: The Impact of COPD and Cognitive Dysfunction.

Brunette AM, Warner K, Holm KE, Meschede K, Wamboldt FS, Kozora E, Moser DJ, Make BJ, Crapo JD, Moreau KL, Weinberger HD, Bowler R, Hoth KF.
Arch Clin Neuropsychol. 2020 Oct 26;acaa090. doi: 10.1093/arclin/acaa090. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/33103191/>

TELEMEDICINE*

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

Raised illness mastering - a phenomenological hermeneutic study of chronic obstructive pulmonary disease patients' experiences while participating in a long-term telerehabilitation programme.

Simonÿ C, Andersen IC, Bodtger U, Nyberg M, Birkelund R.
Disabil Rehabil Assist Technol. 2020 Aug 26;1-8. doi: 10.1080/17483107.2020.1804630. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32845801/>

Use of an eHealth tool for exercise training and online contact in people with severe chronic obstructive pulmonary disease on long-term oxygen treatment: A feasibility study.

Sönnerfors P, Wadell K, Dohrn IM, Nyberg A, Runold M, Halvarsson A.

Health Informatics J. 2020 Sep 3;1460458220945429. doi: 10.1177/1460458220945429.

Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32880209/>

Telemedicine in COPD: An Overview by Topics.

Barbosa MT, Sousa CS, Morais-Almeida M, Simões MJ, Mendes P.

COPD. 2020 Sep 7:1-17. doi: 10.1080/15412555.2020.1815182. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32892650/>

Features of a mobile health intervention to manage chronic obstructive pulmonary disease: a qualitative study.

Alwashmi MF, Fitzpatrick B, Davis E, Farrell J, Gamble J-M, Hawboldt J.

Ther Adv Respir Dis. Jan-Dec 2020;14:1753466620951044. doi: 10.1177/1753466620951044.

<https://pubmed.ncbi.nlm.nih.gov/32894025/>

A mobile health application to support self-management in patients with chronic obstructive pulmonary disease: a randomised controlled trial.

Wang LH, Guo YM, Wang M, Zhao Y.

Clin Rehabil. 2020 Sep 9;269215520946931. doi: 10.1177/0269215520946931. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32907384/>

Challenges and opportunities for telehealth in the management of chronic obstructive pulmonary disease: a qualitative case study in Greece.

Gaveikaite V, Grundstrom C, Winter S, Schonenberg H, Isomursu M, Chouvarda I, Maglaveras N.

BMC Med Inform Decis Mak. 2020 Sep 10;20(1):216. doi: 10.1186/s12911-020-01221-y.

<https://pubmed.ncbi.nlm.nih.gov/32912224/>

Does an mHealth system reduce health service use for asthma?

To T, ced MD, McGihon R, Zhu J, Gupta S, Liciskai C.

ERJ Open Res. 2020 Sep 14;6(3):00340-2019. doi: 10.1183/23120541.00340-2019.

eCollection 2020 Jul.

<https://pubmed.ncbi.nlm.nih.gov/32963990/>

Evaluating the Implementation of a Remote-Monitoring Program for Chronic Obstructive Pulmonary Disease: Qualitative Methods from a Service Design Perspective.

van Lieshout F, Yang R, Stamenova V, Agarwal P, Cornejo Palma D, Sidhu A, Engel K, Erwood A, Bhatia RS, Bhattacharyya O, Shaw J.

J Med Internet Res. 2020 Oct 9;22(10):e18148. doi: 10.2196/18148.

<https://pubmed.ncbi.nlm.nih.gov/33034565/>

Ten Rules for Implementation of a Telemedicine Program to Care for Patients with Asthma.

Persaud YK, Portnoy J.

J Allergy Clin Immunol Pract. 2020 Oct 8;S2213-2198(20)31095-3. doi: 10.1016/j.jaip.2020.10.005. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/33039648/>

Using mHealth to Provide Mobile App Users With Visualization of Health Checkup Data and Educational Videos on Lifestyle-Related Diseases: Methodological Framework for Content Development.

Aida A, Svensson T, Svensson AK, Urushiyama H, Okushin K, Oguri G, Kubota N, Koike K, Nangaku M, Kadowaki T, Yamauchi T, Chung UI.

JMIR Mhealth Uhealth. 2020 Oct 21;8(10):e20982. doi: 10.2196/20982.

<https://pubmed.ncbi.nlm.nih.gov/33084586/>

A Telemonitoring and Hybrid Virtual Coaching Solution "CAir" for Patients with Chronic Obstructive Pulmonary Disease: Protocol for a Randomized Controlled Trial.

Gross C, Kohlbrenner D, Clarenbach CF, Ivankay A, Brunschwiler T, Nordmann Y, V Wangenheim F.

JMIR Res Protoc. 2020 Oct 22;9(10):e20412. doi: 10.2196/20412.

<https://pubmed.ncbi.nlm.nih.gov/33090112/>

Shorter time to clinical decision in work-related asthma using a digital tool.

Bjerg A, Ljungberg H, Dierschke K, Åkerberg-Krook E, Andersson UBK, Olin AC, Lindberg E, Yuan X, Lyström J, Wålinder R, Victor S, Andersson M, Bertilsson H, Carleborg A, Nordlund B. ERJ Open Res. 2020 Sep 14;6(3):00259-2020. doi: 10.1183/23120541.00259-2020. PMID: 32963995; PMCID: PMC7487349.

<https://pubmed.ncbi.nlm.nih.gov/32963995/>

Toward a Digital Platform for the Self-Management of Noncommunicable Disease: Systematic Review of Platform-Like Interventions.

Tighe SA, Ball K, Kensing F, Kayser L, Rawstorn JC, Maddison R.

J Med Internet Res. 2020 Oct 28;22(10):e16774. doi: 10.2196/16774. PMID: 33112239.

<https://pubmed.ncbi.nlm.nih.gov/33112239/>

Wearable Stethoscope for Long-Term Ambulatory Respiratory Health Monitoring. Sensors (Basel).

Yilmaz G, Rapin M, Pessoa D, Rocha BM, de Sousa AM, Rusconi R, Carvalho P, Wacker J, Paiva RP, Chételat O. A 2020 Sep 8;20(18):5124. doi: 10.3390/s20185124. PMID: 32911861; PMCID: PMC7571051.

<https://pubmed.ncbi.nlm.nih.gov/32911861/>

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