



ERS literature update July-August 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

Use of i-BODE index to determine efficacy of pulmonary rehabilitation in COPD patients.

Candemir İ, Ergun P, Kaymaz D, Demir N.

Tuberk Toraks. 2019 Jun;67(2):116-123. doi: 10.5578/tt.68468.

<https://www.ncbi.nlm.nih.gov/pubmed/31414642>

Effectiveness of pulmonary rehabilitation in elderly patients with COPD: A systematic review and meta-analysis of randomized controlled trials.

Li W, Pu Y, Meng A, Zhi X, Xu G.

Int J Nurs Pract. 2019 Jul 2:e12745. doi: 10.1111/ijn.12745. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31268214>

Home versus outpatient pulmonary rehabilitation in COPD: a propensity-matched cohort study.

Nolan CM, Kaliaraju D, Jones SE, Patel S, Barker R, Walsh JA, Wynne S, Man W.

Thorax. 2019 Jul 5. pii: thoraxjnl-2018-212765. doi: 10.1136/thoraxjnl-2018-212765. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31278173>

Fit 4 surgery, a bespoke app with biofeedback delivers rehabilitation at home before and after elective lung resection.

Kadiri SB, Kerr AP, Oswald NK, Budacan AM, Flanagan S, Golby C, Lightfoot S, Naidu B.

J Cardiothorac Surg. 2019 Jul 5;14(1):132. doi: 10.1186/s13019-019-0951-6.

<https://www.ncbi.nlm.nih.gov/pubmed/31277671>

The effect of pulmonary rehabilitation on carotid chemoreceptor activity and sensitivity in Chronic Obstructive Pulmonary Disease.

Byers BW, Fuhr DP, Moore LE, Bhutani M, Wong EYL, Stickland MK.

J Appl Physiol (1985). 2019 Jul 11. doi: 10.1152/jappphysiol.00799.2018. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31295067>

Effect of pulmonary rehabilitation with assistive use of short-acting β_2 agonist in COPD patients using long-acting bronchodilators.

Tsujimura Y, Hiramatsu T, Kojima E, Tabira K.

Physiother Theory Pract. 2019 Jul 11:1-10. doi: 10.1080/09593985.2019.1641866. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31294667>

Protocol for a feasibility trial to inform the development of a breathlessness rehabilitation programme for chronic obstructive pulmonary disease and chronic heart failure (the COHERE trial).

Jones AV, Evans RA, Esliger DW, Sherar LB, Singh SJ.

BMJ Open. 2019 Jul 16;9(7):e029387. doi: 10.1136/bmjopen-2019-029387.

<https://www.ncbi.nlm.nih.gov/pubmed/31315872>

Improving the uptake: Barriers and Facilitators to Pulmonary Rehabilitation.

McCarron EP, Bailey M, Leonard B, McManus TE.

Clin Respir J. 2019 Jul 25. doi: 10.1111/crj.13068. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31344320>

Reply to: Not all Home-Based Exercise Programs are Home-Based Pulmonary Rehabilitation Programs.

Bhatt SP, Dransfield MT.

Am J Respir Crit Care Med. 2019 Jul 25. doi: 10.1164/rccm.201907-1287LE. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31343262>

Pulmonary rehabilitation, physical activity and aortic stiffness in COPD.

Aldabayan YS, Ridsdale HA, Alrajeh AM, Aldhahir AM, Lemson A, Alqahtani JS, Brown JS, Hurst JR.

Respir Res. 2019 Jul 24;20(1):166. doi: 10.1186/s12931-019-1135-6.

<https://www.ncbi.nlm.nih.gov/pubmed/31340825>

Adherence to Pulmonary Rehabilitation in COPD: A QUALITATIVE EXPLORATION OF PATIENT PERSPECTIVES ON BARRIERS AND FACILITATORS.

Oates GR, Niranjana SJ, Ott C, Scarinci IC, Schumann C, Parekh T, Dransfield MT.

J Cardiopulm Rehabil Prev. 2019 Jul 24. doi: 10.1097/HCR.0000000000000436. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31348127>

Patients with COPD Require more than Pulmonary Rehabilitation to Improve Outcomes.

Prieto-Centurion V, Artis K, Coultas DB.

Am J Respir Crit Care Med. 2019 Jul 29. doi: 10.1164/rccm.201906-1263LE. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31355671>

Reply to: Patients with COPD Require more than Pulmonary Rehabilitation to Improve Outcomes.

Nici L, Singh SJ, Holland AE, ZuWallack RL.

Am J Respir Crit Care Med. 2019 Jul 29. doi: 10.1164/rccm.201907-1383LE. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31355668>

Effect of Pulmonary Rehabilitation on the Value of the Inspiratory Capacity-to-Total Lung Capacity (IC/TLC) Ratio to Determine Response to Pulmonary Rehabilitation in Patients with Chronic Obstructive Pulmonary Disease.

Varol Y, Şahin H, Aktürk Ü, Kömürcüoğlu B.

Turk Thorac J. 2019 Jul 30:1-6. doi: 10.5152/TurkThoracJ.2018.089. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31390329>

Effects of modified pulmonary rehabilitation on patients with moderate to severe chronic obstructive pulmonary disease: A randomized controlled trail.

Xu J, He S, Han Y, Pan J, Cao L.

Int J Nurs Sci. 2017 Jun 27;4(3):219-224. doi: 10.1016/j.ijnss.2017.06.011. eCollection 2017 Jul 10.
<https://www.ncbi.nlm.nih.gov/pubmed/31406744>

Home-based pulmonary rehabilitation for COPD using minimal resources: An economic analysis.

Burge AT, Holland AE, McDonald CF, Abramson MJ, Hill CJ, Lee AL, Cox NS, Moore R, Nicolson C, O'Halloran P, Lahham A, Gillies R, Mahal A.

Respirology. 2019 Aug 16. doi: 10.1111/resp.13667. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31418515>

Biomarkers of DNA damage in COPD patients undergoing pulmonary rehabilitation: Integrating clinical parameters with genomic profiling.

Russo P, Lamonaca P, Milic M, Rojas E, Prinzi G, Cardaci V, Vitiello L, Proietti S, Santoro A, Tomino C, Fini M, Bonassi S.

Mutat Res. 2019 Jul;843:111-117. doi: 10.1016/j.mrgentox.2019.04.003. Epub 2019 Apr 12.
<https://www.ncbi.nlm.nih.gov/pubmed/31421732>

Pulmonary Rehabilitation Reduces Subjective Fatigue in COPD: A Responder Analysis.

Van Herck M, Antons J, Vercoulen JH, Goërtz YMJ, Ebadi Z, Burtin C, Janssen DJA, Thong MSY, Otter J, Coors A, Sprangers MAG, Muris JWM, Prins JB, Spruit MA, Peters JB.

J Clin Med. 2019 Aug 20;8(8). pii: E1264. doi: 10.3390/jcm8081264.
<https://www.ncbi.nlm.nih.gov/pubmed/31434343>

Breathing through a troubled life - a phenomenological-hermeneutic study of chronic obstructive pulmonary disease patients' lived experiences during the course of pulmonary rehabilitation.

Simonj C, Andersen IC, Bodtger U, Birkelund R.

Int J Qual Stud Health Well-being. 2019 Dec;14(1):1647401. doi: 10.1080/17482631.2019.1647401.
<https://www.ncbi.nlm.nih.gov/pubmed/31432771>

Personalized exercise training in chronic lung diseases.

Armstrong M, Vogiatzis I.

Respirology. 2019 Jul 3. doi: 10.1111/resp.13639. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31270909>

Minimum Clinically Important Difference in 30-s Sit-to-Stand Test After Pulmonary Rehabilitation in Subjects With COPD.

Zanini A, Crisafulli E, D'Andria M, Gregorini C, Cherubino F, Zampogna E, Azzola A, Spanevello A, Schiavone N, Chetta A.

Respir Care. 2019 Jul 3. pii: respcare.06694. doi: 10.4187/respcare.06694. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31270178>

Traditional Chinese exercise (TCE) on pulmonary rehabilitation in patients with stable chronic obstructive pulmonary disease: Protocol for a systematic review and network meta-analysis.

Zheng W, Li M, Hong Y, Xie F, Yan Q, Peng Z, Huang H, Liao H, Liu X.

Medicine (Baltimore). 2019 Jul;98(27):e16299. doi: 10.1097/MD.00000000000016299.

<https://www.ncbi.nlm.nih.gov/pubmed/31277166>

Acute effects of photobiomodulation therapy (PBMT) combining laser diodes, light-emitting diodes, and magnetic field in exercise capacity assessed by 6MST in patients with COPD: a crossover, randomized, and triple-blinded clinical trial.

Miranda EF, Diniz WA, Gomes MVN, de Oliveira MFD, de Carvalho PTC, Leal-Junior ECP.

Lasers Med Sci. 2019 Jun;34(4):711-719. doi: 10.1007/s10103-018-2645-z. Epub 2018 Sep 25.

<https://www.ncbi.nlm.nih.gov/pubmed/30255449>

Impact of transcutaneous neuromuscular electrical stimulation or resistance exercise on skeletal muscle mRNA expression in COPD.

Latimer LE, Constantin D, Greening NJ, Calvert L, Menon MK, Steiner MC, Greenhaff PL.

Int J Chron Obstruct Pulmon Dis. 2019 Jun 28;14:1355-1364. doi: 10.2147/COPD.S189896. eCollection 2019.

<https://www.ncbi.nlm.nih.gov/pubmed/31308645>

Predictors in routine practice of 6-min walking distance and oxygen desaturation in patients with COPD: impact of comorbidities.

Perez T, Deslée G, Burgel PR, Caillaud D, Le Rouzic O, Zysman M, Escamilla R, Jebrak G, Chanez P, Court-Fortune I, Brinchault-Rabin G, Nesme-Meyer P, Paillasseur JL, Roche N; Initiatives BPCO Scientific Committee.

Int J Chron Obstruct Pulmon Dis. 2019 Jul 2;14:1399-1410. doi: 10.2147/COPD.S188412. eCollection 2019.

<https://www.ncbi.nlm.nih.gov/pubmed/31308646>

Is Two Better Than One? The Impact of Doubling Training Volume in Severe COPD: A Randomized Controlled Study.

Paneroni M, Vogiatzis I, Belli S, Savio G, Visca D, Zampogna E, Aliani M, Carolis V, Maniscalco M, Simonelli C, Vitacca M.

J Clin Med. 2019 Jul 18;8(7). pii: E1052. doi: 10.3390/jcm8071052.

<https://www.ncbi.nlm.nih.gov/pubmed/31323895>

Effects of breathing exercises using home-based positive pressure in the expiratory phase in patients with COPD.

Lin Q, Zhuo L, Wu Z, Li C, Zhou M, Cai C.

Postgrad Med J. 2019 Jul 22. pii: postgradmedj-2019-136580. doi: 10.1136/postgradmedj-2019-136580. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31332025>

Effect of eccentric exercise on markers of muscle damage in patients with chronic obstructive pulmonary disease.

Mujaddadi A, Moiz JA, Singla D, Naqvi IH, Ali MS, Talwar D.

Physiother Theory Pract. 2019 Jul 25:1-7. doi: 10.1080/09593985.2019.1644690. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31340714>

The Qigong Wuqinxi for chronic obstructive pulmonary disease: Protocol for a systematic review and meta-analysis.

Yu F, Xin M, Liu N, Huang N, Lu J.

Medicine (Baltimore). 2019 Jul;98(30):e16633. doi: 10.1097/MD.00000000000016633.

<https://www.ncbi.nlm.nih.gov/pubmed/31348315>

Exercise Capacity and Activities of Daily Living are Related in Patients With Chronic Obstructive Pulmonary Disease.

Tekerlek H, Cakmak A, Calik-Kutukcu E, Arikan H, Inal-Ince D, Saglam M, Vardar-Yagli N, Oksuz C, Duger T, Savci S, Bozdemir-Ozel C, Sonbahar-Ulu H, Karaduz BN, Coplu L.

Arch Bronconeumol. 2019 Jul 25. pii: S0300-2896(19)30290-X. doi:

10.1016/j.arbres.2019.06.015. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31353052>

The risks and benefits of yoga for patients with chronic obstructive pulmonary disease: a systematic review and meta-analysis.

Cramer H, Haller H, Klose P, Ward L, Chung VC, Lauche R.

Clin Rehabil. 2019 Jul 29:269215519860551. doi: 10.1177/0269215519860551. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31353959>

Cardiopulmonary and Muscular Interactions: Potential Implications for Exercise (In)tolerance in Symptomatic Smokers Without Chronic Obstructive Pulmonary Disease.

Muller PT, Barbosa GW, O'Donnell DE, Neder JA.
Front Physiol. 2019 Jul 10;10:859. doi: 10.3389/fphys.2019.00859. eCollection 2019.
<https://www.ncbi.nlm.nih.gov/pubmed/31354517>

Comparison Between Manual and (Semi-)Automated Analyses of Esophageal Diaphragm Electromyography During Endurance Cycling in Patients With COPD.

Dacha S, Janssens L, Rodrigues A, Louvaris Z, Janssens L, Gosselink R, Langer D.
Front Physiol. 2019 Jul 10;10:885. doi: 10.3389/fphys.2019.00885. eCollection 2019.
<https://www.ncbi.nlm.nih.gov/pubmed/31354525>

Low Resting Diffusion Capacity, Dyspnea and Exercise Intolerance in COPD.

Elbehairy AF, O'Donnell CD, Abd Elhameed A, Vincent SG, Milne KM, James MD, Webb KA, Neder JA, O'Donnell DE.
J Appl Physiol (1985). 2019 Aug 1. doi: 10.1152/jappphysiol.00341.2019. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31369329>

Changes in Cycle-Ergometer Performance during Pulmonary Rehabilitation Predict COPD Exacerbation.

Comes J, Prieur G, Combret Y, Gravier FE, Gouel B, Quieffin J, Lamia B, Bonnevie T, Medrinal C.
COPD. 2019 Aug 7:1-5. doi: 10.1080/15412555.2019.1645106. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31387412>

People With COPD Who Respond to Ground-Based Walking Training Are Characterized by Lower Pre-training Exercise Capacity and Better Lung Function and Have Greater Progression in Walking Training Distance.

Ho JP, Alison JA, Ng LWC, Wootton SL, McKeough ZJ, Jenkins SC, Eastwood PR, Hillman DR, Jenkins C, Spencer LM, Cavalheri V, Hill K.
J Cardiopulm Rehabil Prev. 2019 Aug 6. doi: 10.1097/HCR.0000000000000421. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31393279>

Is inspiratory muscle training (IMT) an acceptable treatment option for people with chronic obstructive pulmonary disease (COPD) who have declined pulmonary rehabilitation (PR) and can IMT enhance PR uptake? A single-group prepost feasibility study in a home-based setting.

O'Connor C, Lawson R, Waterhouse J, Mills GH.
BMJ Open. 2019 Aug 8;9(8):e028507. doi: 10.1136/bmjopen-2018-028507.
<https://www.ncbi.nlm.nih.gov/pubmed/31399454>

Comparison of supplemental oxygen delivery by continuous versus demand based flow systems in hypoxemic COPD patients - A randomized, single-blinded cross-over study.

Gloeckl R, Jarosch I, Schneeberger T, Fiedler C, Lausen M, Weingaertner J, Hitzl W, Kenn K, Koczulla R.
Respir Med. 2019 Aug 5;156:26-32. doi: 10.1016/j.rmed.2019.08.001. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31404750>

CRITICAL POWER FOR THE UPPER LIMB IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE: A PILOT STUDY.

Malaguti C.

Respir Physiol Neurobiol. 2019 Aug 13:103280. doi: 10.1016/j.resp.2019.103280. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31419486>

PHYSICAL ACTIVITY

Depressive Symptoms Are Associated with Self-Reported Physical Limitations That Are Activity Dependent in a Cross-Sectional Analysis of Subjects with Chronic Obstructive Pulmonary Disease.

Odackal J, Lyons G, Harris D.

COPD. 2019 Jul 12:1-7. doi: 10.1080/15412555.2019.1634684. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31298042>

Australia-modified Karnofsky Performance Scale and physical activity in COPD and lung cancer: an exploratory pooled data analysis.

Barbetta C, Allgar V, Maddocks M, Ribeiro C, Wilcock A, Currow DC, Phillips J, Johnson MJ.

BMJ Support Palliat Care. 2019 Jul 11. pii: bmjspcare-2019-001869. doi: 10.1136/bmjspcare-2019-001869. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31296518>

Can a physical activity similar to activities of daily living cause dynamic hyperinflation and change the thoracoabdominal configuration in patients with chronic obstructive pulmonary disease?

Capeletti AM, Sousa ADCS, Feitoza CL, Basso-Vanelli RP, Gomes EL, Costa D.

Int J Chron Obstruct Pulmon Dis. 2019 Jun 13;14:1281-1287. doi: 10.2147/COPD.S196223. eCollection 2019.

<https://www.ncbi.nlm.nih.gov/pubmed/31354257>

The use of wearable technology to monitor physical activity in patients with COPD: a literature review.

Pericleous P, van Staa TP.

Int J Chron Obstruct Pulmon Dis. 2019 Jun 19;14:1317-1322. doi: 10.2147/COPD.S193037. eCollection 2019.

<https://www.ncbi.nlm.nih.gov/pubmed/31354259>

Physical Activity in Overlap Syndrome of COPD and Obstructive Sleep Apnea: Relationship With Markers of Systemic Inflammation.

Fitzgibbons CM, Goldstein RL, Gottlieb DJ, Moy ML.

J Clin Sleep Med. 2019 Jul 15;15(7):973-978. doi: 10.5664/jcsm.7874.

<https://www.ncbi.nlm.nih.gov/pubmed/31383234>

Effect of Physical Activity Coaching on Acute Care and Survival Among Patients With Chronic Obstructive Pulmonary Disease: A Pragmatic Randomized Clinical Trial.

Nguyen HQ, Moy ML, Liu IA, Fan VS, Gould MK, Desai SA, Towner WJ, Yuen G, Lee JS, Park SJ, Xiang AH.

JAMA Netw Open. 2019 Aug 2;2(8):e199657. doi: 10.1001/jamanetworkopen.2019.9657.

<https://www.ncbi.nlm.nih.gov/pubmed/31418811>

TELEMEDICINE*

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

Mobile health tools for the management of chronic respiratory diseases.

Sleurs K, Seys SF, Bousquet J, Fokkens WJ, Gorris S, Pugin B, Hellings PW1.

Allergy. 2019 Jul;74(7):1292-1306. doi: 10.1111/all.13720. Epub 2019 Apr 29.

<https://www.ncbi.nlm.nih.gov/pubmed/30644567>

Identifying an effective mobile health application for the self-management of allergic rhinitis and asthma in Australia.

Tan, R., Cvetkovski, B., Kritikos, V., O'Hehir, R. E., Lourenço, O., Bousquet, J., Bosnic-Anticevich, S.

J Asthma. 2019 Jul 24:1-12. doi: 10.1080/02770903.2019.1640728. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31274044>

Application of artificial intelligence in respiratory medicine: Has the time arrived?

Lovejoy, C. A., Phillips, E., Maruthappu, M.

Respirology. 2019 Aug 12. doi: 10.1111/resp.13676. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31407427>

Video Telehealth Pulmonary Rehabilitation Intervention In COPD Reduces 30-day Readmissions.

Bhatt SP, Patel SB, Anderson EM, Baugh D, Givens T, Schumann C, Sanders JG, Windham ST, Cutter GR, Dransfield MT.

Am J Respir Crit Care Med. 2019 Aug 15;200(4):511-513. doi: 10.1164/rccm.201902-0314LE.

<https://www.ncbi.nlm.nih.gov/pubmed/30978302>

Tele-delivered mindfulness-based cognitive therapy in chronic obstructive pulmonary disease: a mixed-methods feasibility study.

Farver-Vestergaard, I., O'Connor, M., Smith, N. C., Løkke, A., Bendstrup, E., Zachariae, R.

J Telemed Telecare. 2019 Sep;25(8):468-475. doi: 10.1177/1357633X18780563. Epub 2018

Jun 25. <https://www.ncbi.nlm.nih.gov/pubmed/29940797>

Personalised telehealth intervention for chronic disease management: A pilot randomised controlled trial.

Bohingamu Mudiyansele S, Stevens J, Watts JJ, Toscano J, Kotowicz MA, Steinfert CL, Bell J, Byrnes J, Bruce S, Carter S, Hunter C, Barrand C, Hayles R.
J Telemed Telecare. 2019 Jul;25(6):343-352. doi: 10.1177/1357633X18775850. Epub 2018 May 24. <https://www.ncbi.nlm.nih.gov/pubmed/29793387>

Effect of tele-health care on quality of life in patients with severe COPD: a randomized clinical trial.

Tupper, O. D., Gregersen, T. L., Ringbaek, T., Brøndum, E., Frausing, E., Green, A., Ulrik, C. S.
Int J Chron Obstruct Pulmon Dis. 2018 Aug 29;13:2657-2662. doi: 10.2147/COPD.S164121.
eCollection 2018.
<https://www.ncbi.nlm.nih.gov/pubmed/30214183>

Introducing the New COPD Pocket Consultant Guide App: Can A Digital Approach Improve Care? A Statement of the COPD Foundation.

Thomashow B, Crapo JD, Drummond MB, Han MK, Kalhan R, Malanga E, Malanga V, Mannino DM, Rennard S, Sciruba FC, Willard KS, Wise R, Yawn B.
Chronic Obstr Pulm Dis. 2019 Jul 24;6(3):210-220. doi: 10.15326/jcopdf.6.3.2018.0167.
<https://www.ncbi.nlm.nih.gov/pubmed/31075813>

Effects of use of an eHealth platform e-Vita for COPD patients on disease specific quality of life domains.

Talboom-Kamp EPWA, Holstege MS, Chavannes NH, Kasteleyn MJ.
Respir Res. 2019 Jul 10;20(1):146. doi: 10.1186/s12931-019-1110-2.
<https://www.ncbi.nlm.nih.gov/pubmed/31291945>

Can a telemonitoring system lead to decreased hospitalization in elderly patients?

Lyth J, Lind L, Persson HL, Wiréhn AB.
J Telemed Telecare. 2019 Jul 10:1357633X19858178. doi: 10.1177/1357633X19858178.
[Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31291794>

Improving recruitment to a study of telehealth management for COPD: a cluster randomised controlled 'study within a trial' (SWAT) of a multimedia information resource.

Jolly K, Sidhu M; PSM COPD Group, Bower P, Madurasinghe V; MRC START Group.
Trials. 2019 Jul 24;20(1):453. doi: 10.1186/s13063-019-3496-z.
<https://www.ncbi.nlm.nih.gov/pubmed/31340853>

Video Telehealth and Pulmonary Rehabilitation : Need for a Better Understanding.

Gagnon S, Ross B, Bourbeau J.
Am J Respir Crit Care Med. 2019 Aug 6. doi: 10.1164/rccm.201907-1394LE. [Epub ahead of print]
<https://www.ncbi.nlm.nih.gov/pubmed/31386815>

Reply to: Video Telehealth and Pulmonary Rehabilitation: Need for a Better Understanding.

Bhatt SP, Dransfield MT.

Am J Respir Crit Care Med. 2019 Aug 6. doi: 10.1164/rccm.201907-1486LE. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31386818>

Mobile health applications for chronic diseases: A systematic review of features for lifestyle improvement.

Debon R, Coleone JD, Bellei EA, De Marchi ACB.

Diabetes Metab Syndr. 2019 Jul - Aug;13(4):2507-2512. doi: 10.1016/j.dsx.2019.07.016.

Epub 2019 Jul 9.

Technology-Enabled Self-Monitoring of Chronic Obstructive Pulmonary Disease With or Without Asynchronous Remote Monitoring: Protocol for a Randomized Controlled Trial.

Stamenova V, Yang R, Engel K, Liang K, van Lieshout F, Lalingo E, Cheung A, Erwood A, Radina M, Greenwald A, Agarwal P, Sidhu A, Bhatia RS, Shaw J, Shafai R, Bhattacharyya O.

JMIR Res Protoc. 2019 Aug 19;8(8):e13920. doi: 10.2196/13920.

<https://www.ncbi.nlm.nih.gov/pubmed/31429418>

eHealth for people with COPD in the Netherlands: a scoping review.

Hallensleben C, van Luenen S, Rolink E, Ossebaard HC, Chavannes NH.

Int J Chron Obstruct Pulmon Dis. 2019 Jul 26;14:1681-1690. doi: 10.2147/COPD.S207187.

eCollection 2019.

<https://www.ncbi.nlm.nih.gov/pubmed/31440044>

Development and preliminary results of an Electronic Medical Record (EMR)-integrated smartphone telemedicine program to deliver asthma care remotely.

Mammen JR, Java JJ, Halterman J, Berliant MN, Crowley A, Frey SM, Reznik M, Feldman JM, Schoonmaker JD, Arcoleo K.

J Telemed Telecare. 2019 Aug 22:1357633X19870025. doi: 10.1177/1357633X19870025.

[Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31438761>

PATIENT REPORTED OUTCOME MEASURES

Why treatment efficacy on breathlessness in laboratory but not daily life trials? The importance of standardized exertion.

Ekström M.

Curr Opin Support Palliat Care. 2019 Jun 24. doi: 10.1097/SPC.0000000000000444. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/31246594>

Thresholds for clinically important deterioration versus improvement in COPD health status: results from a randomised controlled trial in pulmonary rehabilitation and an observational study during routine clinical practice.

Alma HJ, de Jong C, Jelusic D, Wittmann M, Schuler M, Sanderman R, Schultz K, Kocks J, van der Molen T.

BMJ Open. 2019 Jun 28;9(6):e025776. doi: 10.1136/bmjopen-2018-025776.

<https://www.ncbi.nlm.nih.gov/pubmed/31256021>

Patterns and Predictors of Recovery from Poor Health Status Measured with the Chronic Obstructive Pulmonary Disease (COPD) Assessment Test in Patients with Stable COPD: A Longitudinal Study.

Medina-Mirapeix F, Bernabeu-Mora R, Sánchez-Martínez MP, Gacto-Sánchez M, Martín San Agustín R, Montilla-Herrador J.

J Clin Med. 2019 Jun 29;8(7). pii: E946. doi: 10.3390/jcm8070946.

<https://www.ncbi.nlm.nih.gov/pubmed/31261894>

Health status of patients who suffer from acute and chronic respiratory diseases in Greece in the era of economic crisis.

Koutsimpou P, Gourgoulíanis K, Economou A, Raftopoulos V.

Adv Respir Med. 2019;87(3):167-174. doi: 10.5603/ARM.2019.0028.

<https://www.ncbi.nlm.nih.gov/pubmed/31282558>

Preferences for Use and Design of Electronic Patient-Reported Outcomes in Patients with Chronic Obstructive Pulmonary Disease.

Dumais KM, Dias N, Khurana L, Gary ST, Witherspoon B, Evans CJ, Dallabrida SM.

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