



ERS literature update July-August 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

Experiences of Pulmonary Rehabilitation in People Living with COPD and Frailty: A Qualitative Interview Study.

Brighton LJ, Bristowe K, Bayly J, Ogden M, Farquhar M, Evans CJ, Man WD, Maddocks M. Ann Am Thorac Soc. 2020 Jul 9. doi: 10.1513/AnnalsATS.201910-800OC. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32644823/>

Effect of pulmonary rehabilitation programs including lower limb endurance training on dyspnea in stable COPD: A systematic review and meta-analysis.

Higashimoto Y, Ando M, Sano A, Saeki S, Nishikawa Y, Fukuda K, Tohda Y. Respir Investig. 2020 Jul 10:S2212-5345(20)30095-2. doi: 10.1016/j.resinv.2020.05.010. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32660900/>

A Virtual Reality-Supported Intervention for Pulmonary Rehabilitation of Patients With Chronic Obstructive Pulmonary Disease: Mixed Methods Study.

Jung T, Moorhouse N, Shi X, Amin MF. J Med Internet Res. 2020 Jul 7;22(7):e14178. doi: 10.2196/14178.

<https://pubmed.ncbi.nlm.nih.gov/32673224/>

Influence of pulmonary rehabilitation in patients with Chronic Obstructive Pulmonary Disease exacerbator phenotype.

Ivo Bohn Júnior, Cassia Cinara da Costa, Rafael Machado de Souza, Álvaro Huber Dos Santos, Paulo José Zimermann Teixeira.

J Bras Pneumol. 2020;46(6):e20190309. doi: 10.36416/1806-3756/e20190309. Epub 2020 Jul 15.

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A comparative study of the effectiveness of hospital-based versus home-based pulmonary rehabilitation in candidates for bronchoscopic lung volume reduction.

Pehlivan E, Yazar E, Balcı A, Turan D, Demirkol B, Çetinkaya E.

Heart Lung. 2020 Jul 21:S0147-9563(20)30271-5. doi: 10.1016/j.hrtlng.2020.06.011. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32709500/>

Effect of Pulmonary Rehabilitation in Patients with Asthma COPD Overlap Syndrome: A Randomized Control Trial.

Munazza Orooj, Jamal Ali Moiz, Aqsa Mujaddadi, Mir Shad Ali, Deepak Talwar.
Oman Med J. 2020 Jun 30;35(3):e136. doi: 10.5001/omj.2020.54. eCollection 2020 May.
<https://pubmed.ncbi.nlm.nih.gov/32704387/>

Physical Therapy and Rehabilitation in Chronic Obstructive Pulmonary Disease Patients Admitted to the Intensive Care Unit.

Martí JD, McWilliams D, Gimeno-Santos E.
Semin Respir Crit Care Med. 2020 Jul 28. doi: 10.1055/s-0040-1709139. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32725615/>

Incorporating Comprehensive Assessment Parameters to Better Characterize and Plan Rehabilitation for Persons with Chronic Obstructive Pulmonary Disease.

Augustin IML, Spruit MA, Franssen FME, Gaffron S, van Merode F, Wouters EFM.
J Am Med Dir Assoc. 2020 Jul 25:S1525-8610(20)30429-1. doi: 10.1016/j.jamda.2020.05.026.
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<https://pubmed.ncbi.nlm.nih.gov/32723539/>

Pulmonary Rehabilitation for COPD: Highly Effective but Often Overlooked.

Arnold MT, Dolezal BA, Cooper CB.
Tuberc Respir Dis (Seoul). 2020 Aug 10. doi: 10.4046/trd.2020.0064. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32773722/>

A Lay Health Worker Intervention to Increase Uptake and Completion of Pulmonary Rehabilitation in Chronic Obstructive Pulmonary Disease: Assessing Fidelity of Intervention Delivery.

White P, Gilworth G, McMillan V, Lewin S, Taylor SJC, Wright AJ.
COPD. 2020 Aug 17:1-5. doi: 10.1080/15412555.2020.1797658. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32799698/>

Pulmonary Rehabilitation.

Bourbeau J, Gagnon S, Ross B.
Clin Chest Med. 2020 Sep;41(3):513-528. doi: 10.1016/j.ccm.2020.06.003.
<https://pubmed.ncbi.nlm.nih.gov/32800203/>

Positivity and pulmonary rehabilitation: antidotes to chronic lung conditions.

Morgan J.
Lancet Respir Med. 2020 Jul;8(7):667-668. doi: 10.1016/S2213-2600(20)30014-X. Epub 2020 Jan 22.
<https://pubmed.ncbi.nlm.nih.gov/31981483/>

Vitamin B12 Supplementation and NT-proBNP Levels in COPD Patients: A Secondary Analysis of a Randomized and Controlled Study in Rehabilitation.

Paulin FV, Goelzer LS, Müller PT.
Front Neurosci. 2020;14:740. Published 2020 Jul 14. doi:10.3389/fnins.2020.00740

<https://pubmed.ncbi.nlm.nih.gov/32760247/>

Estimating health service utilization potential using the supply-concentric demand-accumulation spatial availability index: a pulmonary rehabilitation case study.

Matthews KA, Gaglioti AH, Holt JB, Wheaton AG, Croft JB.

Int J Health Geogr. 2020 Aug 3;19(1):30. doi: 10.1186/s12942-020-00224-2.

<https://pubmed.ncbi.nlm.nih.gov/32746848/>

Long-term efficacy of pulmonary rehabilitation with home-based or low frequent maintenance programs in patients with chronic obstructive pulmonary disease: a meta-analysis.

Imamura S, Inagaki T, Terada J, Nagashima K, Katsura H, Tatsumi K.

Ann Palliat Med. 2020 Aug 14;apm-19-581. doi: 10.21037/apm-19-581. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32819118/>

Adherence to early pulmonary rehabilitation after COPD exacerbation and risk of hospital readmission: a secondary analysis of the COPD-EXA-REHAB study.

Kjærgaard J, Juhl CB, Lange P, Wilcke T.

BMJ Open Respir Res. 2020 Aug;7(1):e000582. doi: 10.1136/bmjresp-2020-000582.

<https://pubmed.ncbi.nlm.nih.gov/32816829/>

Early home-based pulmonary rehabilitation following acute exacerbation of COPD: A feasibility study using an action research approach.

Chron Respir Dis. Jan-Dec 2020;17:1479973120949207. doi: 10.1177/1479973120949207.

Wageck B, Cox NS, Bondarenko J, Corbett M, Nichols A, Moore R, Holland AE.

<https://pubmed.ncbi.nlm.nih.gov/32815732/>

EXERCISE TESTING AND TRAINING

Diagnostic ability of the Timed Up & Go test for balance impairment prediction in chronic obstructive pulmonary disease.

Liwsrisakun C, Pothirat C, Chaiwong W, Techatawepisarn T, Limsukon A, Bumroongkit C, Deesomchok A, Theerakittikul T, Tajarernmuang P.

J Thorac Dis. 2020 May;12(5):2406-2414. doi: 10.21037/jtd.2020.03.47.

<https://pubmed.ncbi.nlm.nih.gov/32642146/>

Validity and Responsiveness of the Glittre-ADL Test without a Backpack in People with Chronic Obstructive Pulmonary Disease.

Mendes LPS, Parreira VF, Spencer LM, Vieira DSR, Alison JA.

COPD. 2020 Jun 29:1-9. doi: 10.1080/15412555.2020.1756236. Online ahead of print.

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Interval Versus Continuous Aerobic Exercise Training in Overweight and Obese Patients With Chronic Obstructive Pulmonary Disease: A RANDOMIZED CONTROLLED STUDY.

Ercin DOZ, Alkan H, Findikoglu G, Dursunoglu N, Evyapan F, Ardic F.

J Cardiopulm Rehabil Prev. 2020 Jul;40(4):268-275. doi: 10.1097/HCR.0000000000000519.
<https://pubmed.ncbi.nlm.nih.gov/32604255/>

Alterations in central hemodynamic in patients with COPD after acute high intensity exercise.

Behnia M, Wheatley-Guy CM, Johnson BD, Avolio A, Kim CH.
Pulmonology. 2020 Jul 1:S2531-0437(20)30140-9. doi: 10.1016/j.pulmoe.2020.06.006.
Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32622734/>

The Relationship between Self-Efficacy, Functional Exercise Capacity and Physical Activity in People with COPD: A Systematic Review and Meta-Analyses.

Selzler AM, Moore V, Habash R, Ellerton L, Lenton E, Goldstein R, Brooks D.
COPD. 2020 Jul 7:1-10. doi: 10.1080/15412555.2020.1782866. [Epub ahead of print]
<https://pubmed.ncbi.nlm.nih.gov/32633148/>

Predicting the rate of oxygen consumption during the 3-minute constant-rate stair stepping and shuttle tests in people with chronic obstructive pulmonary disease.

Lewthwaite H, Koch EM, Ekström M, Hamilton A, Bourbeau J, Maltais F, Borel B, Jensen D.
J Thorac Dis. 2020 May;12(5):2489-2498. doi: 10.21037/jtd.2020.03.13.
<https://pubmed.ncbi.nlm.nih.gov/32642156/>

Diagnostic ability of the Timed Up & Go test for balance impairment prediction in chronic obstructive pulmonary disease.

Liwsrisakun C, Pothirat C, Chaiwong W, Techatawepisarn T, Limsukon A, Bumroongkit C, Deesomchok A, Theerakittikul T, Tajarernmuang P.
J Thorac Dis. 2020 May;12(5):2406-2414. doi: 10.21037/jtd.2020.03.47.
<https://pubmed.ncbi.nlm.nih.gov/32642146/>

The effectiveness of combined lower limb strengthening and whole-body vibration, compared to strengthening alone, for improving patient-centred outcomes in adults with COPD: A systematic review.

Berner K, Albertyn SCS, Dawnarain S, Hendricks LJ, Johnson J, Landman A, Burger M.
S Afr J Physiother. 2020 Jun 11;76(1):1412. doi: 10.4102/sajp.v76i1.1412. eCollection 2020.
<https://pubmed.ncbi.nlm.nih.gov/32671277/>

Which Balance Subcomponents Distinguish Between Fallers and Non-Fallers in People with COPD?

Chauvin S, Kirkwood R, Brooks D, Goldstein RS, Beauchamp MK.
Int J Chron Obstruct Pulmon Dis. 2020 Jul 1;15:1557-1564. doi: 10.2147/COPD.S253561.
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<https://pubmed.ncbi.nlm.nih.gov/32669841/>

Inspiratory Muscle Training Potentiates the Beneficial Effects of Proportional Assisted Ventilation on Exertional Dyspnea and Exercise Tolerance in COPD: A Proof-of-Concept Randomized and Controlled Trial.

Koch R, Augusto TRL, Ramos AG, Müller PT.

COPD. 2020 Jul 21:1-8. doi: 10.1080/15412555.2020.1789085. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32689839/>

Walking-related digital mobility outcomes as clinical trial endpoint measures: protocol for a scoping review.

Ashley Marie Polhemus, Ronny Bergquist, Magda Bosch de Basea, Gavin Brittain, Sara Catherine Buttery, Nikolaos Chynkiamis, Gloria Dalla Costa, Laura Delgado Ortiz, Heleen Demeyer, Kirsten Emmert, Judith Garcia Aymerich, Heiko Gassner, Clint Hansen, Nicholas Hopkinson, Jochen Klucken, Felix Kluge, Sarah Koch, Letizia Leocani, Walter Maetzler, M Encarna Micó-Amigo, A Stefanie Mikolaizak, Paolo Piraino, Francesca Salis, Christian Schlenstedt, Lars Schwickert, Kirsty Scott, Basil Sharrack, Kristin Taraldsen, Thierry Troosters, Beatrix Vereijken, Ioannis Vogiatzis, Alison Yarnall, Claudia Mazza, Clemens Becker, Lynn Rochester, Milo Alan Puhan, Anja Frei.

BMJ Open. 2020 Jul 19;10(7):e038704. doi: 10.1136/bmjopen-2020-038704.
<https://pubmed.ncbi.nlm.nih.gov/32690539/>

Serum Acylglycerols Inversely Associate with Muscle Oxidative Capacity in Severe COPD.

Rongsong Li, Alessandra Adami, Chih-Chiang Chang, Chi-Hong Tseng, Tzung K Hsiai, Harry B Rossiter.

Med Sci Sports Exerc. 2020 Jul 16. doi: 10.1249/MSS.0000000000002441. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32694368/>

Effect of high-intensity exercise on cerebral, respiratory and peripheral muscle oxygenation of HF and COPD-HF patients.

Goulart CDL, Arêas GPT, Caruso FR, Araújo ASG, de Moura SCG, Catai AM, Beltrame T, Junior LCC, Dos Santos PB, Roscani MG, Mendes RG, Arena R, Borghi-Silva A. Heart Lung. 2020 Jul 21:S0147-9563(20)30275-2. doi: 10.1016/j.hrtlng.2020.06.013. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32709499/>

Which is the best protocol and cut-off point in the 4-metre gait speed test to discriminate exercise capacity in COPD?

Tino VYK, Morita AA, Bisca GW, Guzzi G, Machado FVC, Hernandez NA, Pitta F, Felcar JM. J Bras Pneumol. 2020;46(6):e20190232. doi: 10.36416/1806-3756/e20190232. Epub 2020 Jul 15.

<https://pubmed.ncbi.nlm.nih.gov/32696936/>

Supervised exercise training improves endothelial function in COPD patients: a method to reduce cardiovascular risk?

Merlo C, Bernardi E, Bellotti F, Pomidori L, Cogo A.

ERJ Open Res. 2020 Jul 20;6(2):00304-2019. doi: 10.1183/23120541.00304-2019.

<https://pubmed.ncbi.nlm.nih.gov/32714965/>

Elastic Resistance Training Produces Benefits Equivalent to Conventional Resistance Training in People With Chronic Obstructive Pulmonary Disease: Systematic Review and Meta-Analysis.

de Lima FF, Cavalheri V, Silva BSA, Grigoletto I, Uzeloto JS, Ramos D, Camillo CA, Ramos EMC.

Phys Ther. 2020 Aug 4;pzaa149. doi: 10.1093/ptj/pzaa149. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32750124/>

Inflammatory responses to acute exercise during pulmonary rehabilitation in patients with COPD.

Jenkins AR, Holden NS, Jones AW.

Eur J Appl Physiol. 2020 Aug 7. doi: 10.1007/s00421-020-04452-z. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32767113/>

Effect of the expiratory positive airway pressure on dynamic hyperinflation and exercise capacity in patients with COPD: a meta-analysis.

Cardoso DM, Gass R, Sbruzzi G, Berton DC, Knorst MM.

Sci Rep. 2020 Aug 6;10(1):13292. doi: 10.1038/s41598-020-70250-4.
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Mechanisms affecting exercise ventilatory inefficiency-airflow obstruction relationship in male patients with chronic obstructive pulmonary disease.

Chuang ML.

Respir Res. 2020 Aug 6;21(1):206. doi: 10.1186/s12931-020-01463-4.
<https://pubmed.ncbi.nlm.nih.gov/32762752/>

Sustainable inspiratory pressure and incremental threshold loading for respiratory muscle endurance in chronic obstructive pulmonary disease: A pilot study.

Gokcen S, Inal-Ince D, Saglam M, Vardar-Yagli N, Calik-Kutukcu E, Arikan H, Coplu L.

Clin Respir J. 2020 Aug 16. doi: 10.1111/crj.13264. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32803827/>

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Liang NC, Visger TV, Devereaux A.

Am J Respir Crit Care Med. 2020 Aug 15;202(4):P11-P12. doi: 10.1164/rccm.2024P11.
<https://pubmed.ncbi.nlm.nih.gov/32795142/>

Systemic Inflammation, Vascular Function and Endothelial Progenitor Cells after an Exercise Training Intervention in COPD.

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<https://pubmed.ncbi.nlm.nih.gov/32781050/>

Effects of Vibration Training in Interstitial Lung Diseases: A Randomized Controlled Trial.

Koczulla AR, Boeselt T, Koelpin J, Kaufhold F, Veith M, Nell C, Jarosch I, Spielmanns M, Alter P, Kähler C, Greulich T, Vogelmeier CF, Glöckl R, Schneeberger T, Kenn K, Kahn NC, Herth FJF, Kreuter M.

Respiration. 2020 Aug 19;1-9. doi: 10.1159/000508977. Online ahead of print.
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Lift, stop, rest, repeat: The potential of 'cluster sets' as interval resistance exercise for COPD.

Latella C.

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Maximum Voluntary Ventilation and Its Relationship With Clinical Outcomes in Subjects With COPD.

Respir Care. 2020 Aug 18;respcare.07855. doi: 10.4187/respcare.07855. Online ahead of print.

Andrello AC, Donaria L, de Castro LA, Belo LF, Schneider LP, Machado FVC, Ribeiro M, Probst VS, Hernandes NA, Pitta F.

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Are the "critical" inspiratory constraints actually decisive to limit exercise tolerance in COPD?

Marillier M, Bernard AC, Gass R, Berton DC, Verges S, O'Donnell DE, Neder JA.

ERJ Open Res. 2020 Aug 17;6(3):00178-2020. doi: 10.1183/23120541.00178-2020.

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<https://pubmed.ncbi.nlm.nih.gov/32832523/>

A Nationwide Network to Provide Supervised Exercise Therapy and Lifestyle Counseling for All Patients with Non-Communicable Diseases: Chronic CareNet.

Sinnige A, Sliepen M, Scheltinga MR, Teijink JAW.

Int J Environ Res Public Health. 2020 Aug 18;17(16):E5999. doi: 10.3390/ijerph17165999.

<https://pubmed.ncbi.nlm.nih.gov/32824798/>

PHYSICAL ACTIVITY

Activity repertoires and time use in people living with chronic obstructive pulmonary disease.

Helle T, Joho T, Kaptain RJ, Kottorp A.

Scand J Occup Ther. 2020 Jul 6:1-7. doi: 10.1080/11038128.2020.1782982. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32631116/>

Accuracy of consumer-based activity trackers as measuring tool and coaching device in patients with COPD and healthy controls.

Blondeel A, Demeyer H, Janssens W, Troosters T.

PLoS One. 2020 Aug 4;15(8):e0236676. doi: 10.1371/journal.pone.0236676. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32750073/>

Physical activity and inactivity among different body composition phenotypes in individuals with moderate to very severe chronic obstructive pulmonary disease.

Schneider LP, Sartori LG, Machado FVC, Dala Pola D, Rugila DF, Hirata RP, Bertoche MP, Camillo CA, Hernandez NA, Furlanetto KC, Pitta F.

Braz J Phys Ther. 2020 Jul 30:S1413-3555(20)30291-4. doi: 10.1016/j.bjpt.2020.07.005.

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How do healthcare professionals perceive physical activity prescription for community-dwelling people with COPD in Australia? A qualitative study.

Lahham A, Burge AT, McDonald CF, Holland AE. BMJ Open. 2020 Aug 16;10(8):e035524. doi: 10.1136/bmjopen-2019-035524.

<https://pubmed.ncbi.nlm.nih.gov/32801194/>

Description of Participation in Daily and Social Activities for Individuals with COPD.

Michalovic E, Jensen D, Dandurand RJ, Saad N, Ezer N, Moullec G, Smith BM, Bourbeau J, Sweet SN.

COPD. 2020 Aug 18:1-14. doi: 10.1080/15412555.2020.1798373. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32811208/>

TELEMEDICINE*

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

Impact of a Home Telehealth Program After a Hospitalized COPD Exacerbation: A Propensity Score Analysis.

Marcos PJ, Represas Represas C, Ramos C, Cimadevila Álvarez B, Fernández Villar A, Fraga Liste A, Fernández Nocelo S, Quiles Del Río J, Zamarrón Sanz C, Golpe R, Abal Arca J, Calvo Álvarez U, Pértega S, García Comesaña J.

Arch Bronconeumol. 2020 Jun 26:S0300-2896(20)30186-1. doi:

10.1016/j.arbres.2020.05.030. Online ahead of print.

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COVID-19: Unmasking Telemedicine.

Hare N, Bansal P, Bajowala SS, Abramson SL, Chervinskiy S, Corriel R, Hauswirth DW, Kakumanu S, Mehta R, Rashid Q, Rupp MR, Shih J, Mosnaim GS.

J Allergy Clin Immunol Pract. 2020 Jun 27. pii: S2213-2198(20)30673-5. doi:

10.1016/j.jaip.2020.06.038. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32603900/>

A Systematic Review of the Effectiveness of Telerehabilitation Interventions for Therapeutic Purposes in the Elderly.

Velayati F, Ayatollahi H, Hemmat M.

Methods Inf Med. 2020 Jul 6. doi: 10.1055/s-0040-1713398. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32629502/>

Impact of a smartphone application (KAIA COPD app) in combination with Activity Monitoring as a maintenance program following Pulmonary Rehabilitation in COPD: the

protocol for the AMOPUR Study, an international, multicenter, parallel group, randomized, controlled study.

Spielmanns M, Boeselt T, Huber S, Kaur Bollinger P, Ulm B, Peckaka-Egli AM, Jarosch I, Schneeberger T, Schoendorf S, Gloeckl R, Koczulla AR.

Trials. 2020 Jul 11;21(1):636. doi: 10.1186/s13063-020-04538-1.

<https://pubmed.ncbi.nlm.nih.gov/32653025/>

Telemediated Training in the Home as a Part of the Everyday Life and Practice With Very Severe Chronic Obstructive Pulmonary Disease.

Rayce K, Rosenbek Minet L, Kidholm K, Vestbo J, Pedersen CD, Huniche L.

Qual Health Res. 2020 Jul 16:1049732320938165. doi: 10.1177/1049732320938165. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32674653/>

Perceptions of Patients Regarding Mobile Health Interventions for the Management of Chronic Obstructive Pulmonary Disease: Mixed Methods Study.

Alwashmi MF, Fitzpatrick B, Farrell J, Gamble JM, Davis E, Nguyen HV, Farrell G, Hawboldt J. JMIR Mhealth Uhealth. 2020 Jul 23;8(7):e17409. doi: 10.2196/17409.

<https://pubmed.ncbi.nlm.nih.gov/32706697/>

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

Stamenova V, Liang K, Yang R, Engel 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.

J Med Internet Res. 2020 Jul 30;22(7):e18598. doi: 10.2196/18598.

<https://pubmed.ncbi.nlm.nih.gov/32729843/>

Augmented reality glasses as a new tele-rehabilitation tool for home use: patients' perception and expectations.

Cerdán de Las Heras J, Tulppo M, Kiviniemi AM, Hilberg O, Løkke A, Ekholm S, Catalán-Matamoros D, Bendstrup E.

Disabil Rehabil Assist Technol. 2020 Aug 4:1-7. doi: 10.1080/17483107.2020.1800111. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32750254/>

Optimizing Telehealth Experience Design Through Usability Testing in Hispanic American and African American Patient Populations: Observational Study.

King D, Khan S, Polo J, Solomon J, Pekmezaris R, Hajizadeh N.

JMIR Rehabil Assist Technol. 2020 Aug 4;7(2):e16004. doi: 10.2196/16004.

<https://pubmed.ncbi.nlm.nih.gov/32749229/>

The use of wearable devices in chronic disease management to enhance adherence and improve telehealth outcomes: A systematic review and meta-analysis.

Kamei T, Kanamori TY, Yamamoto Y, Edirippulige S.

J Telemed Telecare. 2020 Aug 20;1357633X20937573. doi: 10.1177/1357633X20937573.

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e-Health: A Future Solution for Optimized Management of Elderly Patients. GER-e-TEC™ Project.

Zulfiqar AA, Lorenzo-Villalba N, Zulfiqar OA, Hajjam M, Courbon Q, Esteouille L, Geny B, Talha S, Letourneau D, Hajjam J, Erve S, Hajjam El Hassani A, Andres E.

Medicines (Basel). 2020 Jul 23;7(8):E41. doi: 10.3390/medicines7080041. PMID: 32717937.
<https://pubmed.ncbi.nlm.nih.gov/32717937/>

Telehealth in chronic disease management and the role of the Internet-of-Medical-Things: the Tholomeus® experience.

Omboni S, Campolo L, Panzeri E.

Expert Rev Med Devices. 2020 Jul;17(7):659-670. doi: 10.1080/17434440.2020.1782734.

Epub 2020 Jun 30. PMID: 32536214.

<https://pubmed.ncbi.nlm.nih.gov/32536214/>

Digitizing clinical trials.

Inan OT, Tenaerts P, Prindiville SA, Reynolds HR, Dizon DS, Cooper-Arnold K, Turakhia M, Pletcher MJ, Preston KL, Krumholz HM, Marlin BM, Mandl KD, Klasnja P, Spring B, Iturriaga E, Campo R, Desvigne-Nickens P, Rosenberg Y, Steinhubl SR, Califf RM.

NPJ Digit Med. 2020 Jul 31;3:101. doi: 10.1038/s41746-020-0302-y. PMID: 32821856;

PMCID: PMC7395804.

<https://pubmed.ncbi.nlm.nih.gov/32821856/>

Development and Preliminary Evaluation of the Effects of an mHealth Web-Based Platform (HappyAir) on Adherence to a Maintenance Program After Pulmonary Rehabilitation in Patients With Chronic Obstructive Pulmonary Disease: Randomized Controlled Trial.

Jiménez-Reguera B, Maroto López E, Fitch S, Juarros L, Sánchez Cortés M, Rodríguez Hermosa JL, Calle Rubio M, Hernández Criado MT, López M, Angulo-Díaz-Parreño S, Martín-Pintado-Zugasti A, Vilaró J.

JMIR Mhealth Uhealth. 2020 Jul 31;8(7):e18465. doi: 10.2196/18465. PMID: 32513646;

PMCID: PMC7428903.

<https://pubmed.ncbi.nlm.nih.gov/32513646/>

Users' Experiences of a Mobile Health Self-Management Approach for the Treatment of Cystic Fibrosis: Mixed Methods Study.

Floch J, Vilarinho T, Zettl A, Ibanez-Sanchez G, Calvo-Lerma J, Stav E, Haro PH, Aalberg AL, Fides-Valero A, Bayo Montón JL.

JMIR Mhealth Uhealth. 2020 Jul 8;8(7):e15896. doi: 10.2196/15896. PMID: 32673237;

PMCID: PMC7381063.

<https://pubmed.ncbi.nlm.nih.gov/32673237/>

PATIENT REPORTED OUTCOME MEASURES

Predictors of Health-Related Quality of Life (HRQOL) in Patients With Chronic Obstructive Pulmonary Disease using the COPD Assessment Test (CAT).

Akor AA, Bamidele A, Erhabor GE.

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