



**ERS literature update
May-June 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

Increasing Pulmonary Rehabilitation Uptake Following Hospitalization for COPD Exacerbation - Let's Rise to the Challenge.

Rochester CL, Singh SJ.

Am J Respir Crit Care Med. 2020 Apr 27. doi: 10.1164/rccm.202003-0705ED. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32338991>

Chemerin: A Potential Regulator of Inflammation and Metabolism for Chronic Obstructive Pulmonary Disease and Pulmonary Rehabilitation.

Li J, Lu Y, Li N, Li P, Wang Z, Ting W, Liu X, Wu W.

Biomed Res Int. 2020 Apr 6;2020:4574509. doi: 10.1155/2020/4574509. eCollection 2020.

<https://www.ncbi.nlm.nih.gov/pubmed/32337250>

Clinical Outcomes and Inflammatory Responses of the Frequent Exacerbator in Pulmonary Rehabilitation: A Prospective Cohort Study.

Jenkins AR, Holden NS, Gibbons LP, Jones AW.

COPD. 2020 May 3:1-8. doi: 10.1080/15412555.2020.1753669. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32362176>

Oral nitrate supplementation to enhance pulmonary rehabilitation in COPD: ON-EPIC a multicentre, double-blind, placebo-controlled, randomised parallel group study.

Pavitt MJ, Tanner RJ, Lewis A, Buttery S, Mehta B, Jefford H, Curtis KJ, Banya WAS, Husain S, Satkunam K, Shrikrishna D, Man W, Polkey MI, Hopkinson NS.

Thorax. 2020 May 6. pii: thoraxjnl-2019-214278. doi: 10.1136/thoraxjnl-2019-214278. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32376732>

Educational topics and their rationale for inclusion within pulmonary rehabilitation - a systematic review.

Smith R, Osadnik CR, Lee AL.

Patient Educ Couns. 2020 Apr 18. pii: S0738-3991(20)30196-8. doi: 10.1016/j.pec.2020.04.009. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32376143>

Association Between Initiation of Pulmonary Rehabilitation After Hospitalization for COPD and 1-Year Survival Among Medicare Beneficiaries.

Lindenauer PK, Stefan MS, Pekow PS, Mazor KM, Priya A, Spitzer KA, Lagu TC, Pack QR, Pinto-Plata VM, ZuWallack R.

JAMA. 2020 May 12;323(18):1813-1823. doi: 10.1001/jama.2020.4437.

<https://www.ncbi.nlm.nih.gov/pubmed/32396181>

Effects of a Rehabilitation Programme With a Nasal Inspiratory Restriction Device on Exercise Capacity and Quality of Life in COPD

Arnedillo A, Gonzalez-Montesinos JL, Fernandez-Santos JR, Vaz-Pardal C, España-Domínguez C, Ponce-González JG, Cuenca-García M.

Int J Environ Res Public Health. 2020 May 22;17(10):E3669. doi: 10.3390/ijerph17103669.

<https://pubmed.ncbi.nlm.nih.gov/32456097/>

Healthcare Professionals' Perceptions of Pulmonary Rehabilitation as a Management Strategy for Patients With Chronic Obstructive Pulmonary Disease: A Critical Interpretive Synthesis

Swift E, O'Brien MR, Peters S, Kelly C.

Disabil Rehabil. 2020 Jun 1;1-16. doi: 10.1080/09638288.2020.1769745. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32478588/>

Home Based Pulmonary Rehabilitation on Oxygenation Status, Dyspnea and Fatigue in Stable Patients with COPD.

Ahmed NU, Begum S, Ali T, Suhana M.

Mymensingh Med J. 2020 Apr;29(2):424-430.

<https://pubmed.ncbi.nlm.nih.gov/32506100/>

The research of Tuna Huichun Gong on pulmonary function, exercise tolerance, and quality of life in patients with chronic obstructive pulmonary disease based on the concept of early pulmonary rehabilitation.

Yu W, Su P, Wang J, Zhou P, Chen K, Liu L, Xia Q, Chen Y.

Medicine (Baltimore). 2020 Jun 5;99(23):e20625. doi: 10.1097/MD.00000000000020625.

<https://pubmed.ncbi.nlm.nih.gov/32502040/>

Effectiveness and Economic Evaluation of Hospital-Outreach Pulmonary Rehabilitation for Patients with Chronic Obstructive Pulmonary Disease.

Zhang A, Wang L, Long L, Yan J, Liu C, Zhu S, Wang X.

Int J Chron Obstruct Pulmon Dis. 2020 May 15;15:1071-1083. doi: 10.2147/COPD.S239841. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32523337/>

High flow nasal therapy during early pulmonary rehabilitation in patients with acute severe exacerbation of COPD: beneficial or illusory?

Prieur G, Combret Y, Medrinal C.

Respir Res. 2020 Jun 12;21(1):150. doi: 10.1186/s12931-020-01415-y.

<https://pubmed.ncbi.nlm.nih.gov/32532262/>

A feasibility study of a randomised controlled trial of asthma-tailored pulmonary rehabilitation compared with usual care in adults with severe asthma.

Majd S, Apps L, Chantrell S, Hudson N, Eglington E, Hargadon B, Murphy A, Singh SJ, Bradding P, Green RH, Evans RA.

J Allergy Clin Immunol Pract. 2020 Jun 9. pii: S2213-2198(20)30593-6. doi: 10.1016/j.jaip.2020.05.052. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32531482/>

Mid-Term Effects of Pulmonary Rehabilitation on Cognitive Function in People with Severe Chronic Obstructive Pulmonary Disease.

Bonnevie T, Medrinal C, Combret Y, Debeaumont D, Lamia B, Muir JF, Cuvelier A, Prieur G, Gravier FE.

Int J Chron Obstruct Pulmon Dis. 2020 May 19;15:1111-1121. doi: 10.2147/COPD.S249409. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32546999/>

EXERCISE TESTING AND TRAINING

Exercise and Chronic Obstructive Pulmonary Disease (COPD).

Fiorentino G, Esquinas AM, Annunziata A.

Adv Exp Med Biol. 2020;1228:355-368. doi: 10.1007/978-981-15-1792-1_24.

<https://www.ncbi.nlm.nih.gov/pubmed/32342470>

Ventilatory demand-capacity imbalance during incremental exercise in COPD: An in-silico perspective.

Neder JA.

Eur Respir J. 2020 Apr 27. pii: 2000495. doi: 10.1183/13993003.00495-2020. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32341112>

Effects of Exercise-Based Interventions on Fall Risk and Balance in Patients With Chronic Obstructive Pulmonary Disease: A SYSTEMATIC REVIEW.

Delbressine JM, Vaes AW, Goertz YM, Sillen MJ, Kawagoshi A, Meijer K, Janssen DJA, Spruit MA.

J Cardiopulm Rehabil Prev. 2020 May;40(3):152-163. doi: 10.1097/HCR.0000000000000513.

<https://www.ncbi.nlm.nih.gov/pubmed/32355076>

Effect of high flow nasal cannula on peripheral muscle oxygenation and hemodynamic during paddling exercise in patients with chronic obstructive pulmonary disease: a randomized controlled trial.

Fang TP, Chen YH, Hsiao HF, Cho HY, Tsai YH, Huang CC, Hsieh MJ, Wu HP, Lin HL.

Ann Transl Med. 2020 Mar;8(6):280. doi: 10.21037/atm.2020.03.87.

<https://www.ncbi.nlm.nih.gov/pubmed/32355724>

Does the 6-minute walk test in hospitalized COPD patients exclusively correlate with lung function parameters or should psychological factors also be taken into account?

Borgmann M, Ivanda M, Hadizamani Y, Mohaupt M, Bals R, Lucas R, Hamacher J, Köllner V.

PLoS One. 2020 May 4;15(5):e0232587. doi: 10.1371/journal.pone.0232587. eCollection 2020.

<https://www.ncbi.nlm.nih.gov/pubmed/32365134>

Effects of neuromuscular electrical stimulation on exercise capacity and quality of life in COPD patients: a systematic review and meta-analysis.

Wu X, Hu X, Hu W, Xiang G, Li S.

Biosci Rep. 2020 May 5. pii: BSR20191912. doi: 10.1042/BSR20191912. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32368783>

Validity of balance and mobility screening tests for assessing fall risk in COPD.

McLay R, Kirkwood RN, Kuspinar A, Richardson J, Wald J, Raghavan N, Ellerton C, Pugsley S, Beauchamp MK.

Chron Respir Dis. 2020 Jan-Dec;17:1479973120922538. doi: 10.1177/1479973120922538.

<https://www.ncbi.nlm.nih.gov/pubmed/32390529>

Physiological Response to Eccentric and Concentric Cycling in Patients with Chronic Obstructive Pulmonary Disease.

Nickel R, Troncoso F, Flores O, González-Bartholin R, Mackay K, Diaz O, Jalon M, Penailillo L.

Appl Physiol Nutr Metab. 2020 May 15. doi: 10.1139/apnm-2020-0149. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32413271>

Balance impairment in individuals with COPD: a systematic review with meta-analysis.

Loughran KJ, Atkinson G, Beauchamp MK, Dixon J, Martin D, Rahim S, Harrison SL.

Thorax. 2020 May 14. pii: thoraxjnl-2019-213608. doi: 10.1136/thoraxjnl-2019-213608.

[Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32409612>

An Evaluation of Service Provision and Novel Strength Assessment on Patient Outcomes in a UK-Based Pulmonary Rehabilitation Setting.

Barlow R, Jones B, Rogerson M, Bannister H, Stuart R, Jawadh I, Andrews L, Easton I.

COPD. 2020 May 18:1-9. doi: 10.1080/15412555.2020.1764519. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32419522/>

Effects of Downhill Walking in Pulmonary Rehabilitation for Patients With COPD: A Randomised Controlled Trial

Camillo CA, Osadnik CR, Burtin C, Everaerts S, Hornikx M, Demeyer H, Loeckx M, Rodrigues FM, Maes K, Gayan-Ramirez G, Janssens W, Troosters T.

Eur Respir J. 2020 May 22;2000639. doi: 10.1183/13993003.00639-2020. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32444407/>

Greater Exercise Tolerance in COPD During Acute Interval, Compared to Equivalent Constant-Load, Cycle Exercise: Physiological Mechanisms

Louvaris Z, Chynkiamis N, Spetsioti S, Asimakos A, Zakyntinos S, Wagner PD, Vogiatzis I.

J Physiol. 2020 May 30. doi: 10.1113/JP279531. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32472698/>

Application of Mindfulness Techniques in Patients With Asthma or COPD

López-Lois B, González-Barcala FJ, Facal D.

J Asthma. 2020 May 30;1-16. doi: 10.1080/02770903.2020.1776729. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32475186/>

Phenotypic characteristics of patients with Chronic Obstructive Pulmonary Disease after stratification for the Short Physical Performance Battery summary score.

Stoffels AAF, De Brandt J, Meys R, van Hees HWH, Vaes AW, Klijn P, Burtin C, Franssen FME, van den Borst B, Sillen MJH, Wouters EFM, Janssen DJA, Spruit MA; BASES consortium.

Arch Phys Med Rehabil. 2020 Jun 1. pii: S0003-9993(20)30311-7. doi:

10.1016/j.apmr.2020.05.011. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32497598/>

Comparative measurement properties of constant work rate cycling and the endurance shuttle walking test in COPD: the TORRACTO® clinical trial.

Maltais F, O'Donnell DE, Hamilton A, Zhao Y, Casaburi R.

Ther Adv Respir Dis. 2020 Jan-Dec;14:1753466620926858. doi: 10.1177/1753466620926858.

<https://pubmed.ncbi.nlm.nih.gov/32482147/>

Use of Supplemental Oxygen During Exercise Testing and Training for People With Chronic Obstructive Pulmonary Disease: A Survey of Australian Pulmonary Rehabilitation Programs

Leung RWM, Alison JA, Jenkins SC, Holland AE, Hill K, Morris NR, Spencer LM, Hill CJ, Lee AL, Seale HE, Cecins NM, McDonald CF, McKeough ZJ.

Braz J Phys Ther. 2020 May 15;S1413-3555(19)30774-9. doi:

10.1016/j.bjpt.2020.04.003. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32499168/>

Percent Saturation of Oxygen Status in Male Chronic Obstructive Pulmonary Diseased Patients.

Sharmin A, Nessa A, Firoz S, Akter N, Israt S, Dipa MI.

Mymensingh Med J. 2020 Apr;29(2):269-272.

<https://pubmed.ncbi.nlm.nih.gov/32506077/>

Oxygen supplementation increases the total work and muscle damage markers but reduces the inflammatory response in COPD patients.

Andrade DR, Pinto KC, de Castro JS, Andaku DK, Lara VA, de Luca FA, Gun C, Mendes FAR, Oliveira MF, Medeiros WM.

Respir Physiol Neurobiol. 2020 Jun 5:103475. doi: 10.1016/j.resp.2020.103475. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32512234/>

Metronome-Paced Incremental Hyperventilation May Predict Exercise Tolerance and Dyspnea as a Surrogate for Dynamic Lung Hyperinflation During Exercise.

Kawachi S, Fujimoto K.

Int J Chron Obstruct Pulmon Dis. 2020 May 15;15:1061-1069. doi: 10.2147/COPD.S246850. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32523336/>

Effect of short-course exercise training on the frequency of exacerbations and physical activity in patients with COPD: A randomized controlled trial.

Ko FW, Tam W, Siu EHS, Chan KP, Ngai JC, Ng SS, Chan TO, Hui DS.

Respirology. 2020 Jun 15. doi: 10.1111/resp.13872. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32542906/>

The effects of decreased inspiratory capacity on postural stability during backward reach.

Kubo A, Ishizaka M.

J Phys Ther Sci. 2020 Jun;32(6):414-417. doi: 10.1589/jpts.32.414. Epub 2020 Jun 2.

<https://pubmed.ncbi.nlm.nih.gov/32581436/>

Tailored exercise is safe and beneficial for acutely hospitalised older adults with chronic obstructive pulmonary disease.

Martínez-Velilla N, Valenzuela PL, Zambom-Ferraresi F, Sáez de Asteasu ML, Ramírez-Vélez R, García-Hermoso A, Lucia A, Izquierdo M.

Eur Respir J. 2020 Jun 25:2001048. doi: 10.1183/13993003.01048-2020. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32586887/>

Mindfulness for those with COPD, Asthma, Lung Cancer and Lung Transplantation.

Liang NC, Von Visger T, Devereaux A.

Am J Respir Crit Care Med. 2020 Jun 22. doi: 10.1164/rccm.2020C10. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32569475/>

PHYSICAL ACTIVITY

Patterns and predictors of low physical activity in patients with stable COPD: a longitudinal study.

Sánchez-Martínez MP, Bernabeu-Mora R, García-Vidal JA, Benítez-Martínez J, de Oliveira-Sousa SL, Medina-Mirapeix F.

Ther Adv Respir Dis. 2020 Jan-Dec;14:1753466620909772. doi: 10.1177/1753466620909772.

<https://www.ncbi.nlm.nih.gov/pubmed/32336245>

The 'can do, do do' concept in COPD; quadrant interpretation, affiliation and tracking longitudinal changes.

van 't Hul AJA, Koolen EHN, van Hees HWJ, van den Borst BB, Spruit MAM.

Respir Res. 2020 May 12;21(1):112. doi: 10.1186/s12931-020-01375-3.

<https://www.ncbi.nlm.nih.gov/pubmed/32398081>

Respond to the letter to the editor by Van't Hul et al. regarding the published manuscript "can do, don't do" are not the lazy ones: a longitudinal study on physical functioning in patients with COPD" by Sievi et al.(1).

Sievi NA, Kohler M, Clarenbach CF.

Respir Res. 2020 May 13;21(1):114. doi: 10.1186/s12931-020-01376-2.

<https://www.ncbi.nlm.nih.gov/pubmed/32404164>

Easy to Perform Physical Performance Tests to Identify COPD Patients With Low Physical Activity in Clinical Practice

Matkovic Z, Tudoric N, Cvetko D, Esquinas C, Rahelic D, Zarak M, Miravitlles M.

Int J Chron Obstruct Pulmon Dis. 2020 Apr 24;15:921-929. doi:

10.2147/COPD.S246571. eCollection 2020.

<https://pubmed.ncbi.nlm.nih.gov/32425517/>

Association Between Self-Reported Moderate to Vigorous Physical Activity and the Rate of Outpatient Treated COPD Exacerbations: Retrospective Cohort Study

Nguyen HQ, Mularski RA, Moy ML, Lee JS, Shen E.

BMJ Open Respir Res. 2020 May;7(1):e000590. doi: 10.1136/bmjresp-2020-000590.

<https://pubmed.ncbi.nlm.nih.gov/32467154/>

Regular Physical Activity Levels and Incidence of Restrictive Spirometry Pattern: A Longitudinal Analysis of Two Population-based Cohorts.

Carsin AE, Keidel D, Fuertes E, Imboden M, Weyler J, Nowak D, Heinrich J, Pascual Erquicia S, Martinez-Moratalla J, Huerta I, Sanchez JL, Schaffner E, Caviezel S, Beckmeyer-Borowko A, Raherison C, Pin I, Demoly P, Leynaert B, Cerveri I, Squillacioti G, Accordini S, Gislason T, Svanes C, Toren K, Forsberg B, Janson C, Jogi R, Emtner M, Gómez Real F, Jarvis D, Guerra S, Dharmage SC, Probst-Hensch N, Garcia-Aymerich J.

Am J Epidemiol. 2020 Jun 8:kwaa087. doi: 10.1093/aje/kwaa087. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32510134/>

Total volume/week of physical activity: an underused variable of physical activity in daily life in patients with copd and its association with exercise capacity.

Schneider LP, Machado FVC, Rodrigues A, Hirata RP, Pola DCD, Bertoche MP, Belo LF, Andrello ACDR, Fonseca J, Mantoani LC, Furlanetto KC, Pitta F.

Pulmonology. 2020 Jun 14. pii: S2531-0437(20)30123-9. doi: 10.1016/j.pulmoe.2020.05.007. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32546440/>

Sleep disturbance and next-day physical activity in COPD patients.

Kim I, Kapella MC, Collins EG, Bronas UG, Horswill CA, Park C, Quinn L.

Geriatr Nurs. 2020 Jun 22:S0197-4572(20)30196-8. doi: 10.1016/j.gerinurse.2020.06.010.

Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32586622/>

TELEMEDICINE*

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

Feasibility Study of Urgent Implementation of Cystic Fibrosis Multidisciplinary Telemedicine Clinic in the Face of COVID-19 Pandemic: Single-Center Experience.

Compton M, Soper M, Reilly B, Gettle L, List R, Bailey M, Brus Schwein H, Somerville L, Albon D. A Telemed J E Health. 2020 Apr 30. doi: 10.1089/tmj.2020.0091. Epub ahead of print.

PMID: 32357084.

<https://pubmed.ncbi.nlm.nih.gov/32357084/>

How stable is lung function in patients with stable chronic obstructive pulmonary disease when monitored using a telehealth system? A longitudinal and home-based study.

Holmner Å, Öhberg F, Wiklund U, Bergmann E, Blomberg A, Wadell K.

BMC Med Inform Decis Mak. 2020 May 12;20(1):87. doi: 10.1186/s12911-020-1103-6.

<https://www.ncbi.nlm.nih.gov/pubmed/32398161>

Recommendations for Developing Support Tools With People Suffering From Chronic Obstructive Pulmonary Disease: Co-Design and Pilot Testing of a Mobile Health Prototype.

Davies A, Mueller J, Hennings J, Caress AL, Jay C.

JMIR Hum Factors. 2020 May 15;7(2):e16289. doi: 10.2196/16289.

<https://www.ncbi.nlm.nih.gov/pubmed/32410730>

Telerehabilitation Programme as a Maintenance Strategy for COPD Patients: A 12-Month Randomized Clinical Trial

Galdiz JB, Gómez A, Rodriguez D, Guell R, Cebollero P, Hueto J, Cejudo P, Ortega F, Sayago I, Chic S, Iscar M, Amado C, Rodríguez Trigo G, Cossio B, Bustamante V, Pijoan JI.

Arch Bronconeumol. 2020 May 18;S0300-2896(20)30116-2. doi:

10.1016/j.arbres.2020.03.034. Online ahead of print.

<https://pubmed.ncbi.nlm.nih.gov/32439253/>

Perceptions of Home Telemonitoring Use Among Patients With Chronic Obstructive Pulmonary Disease: Qualitative Study.

Lundell S, Modig M, Holmner Å, Wadell K.

JMIR Mhealth Uhealth. 2020 Jun 3;8(6):e16343. doi: 10.2196/16343.

<https://pubmed.ncbi.nlm.nih.gov/32490844/>

The Use of a Smartphone App and an Activity Tracker to Promote Physical Activity in the Management of Chronic Obstructive Pulmonary Disease: Randomized Controlled Feasibility Study.

Bentley CL, Powell L, Potter S, Parker J, Mountain GA, Bartlett YK, Farwer J, O'Connor C, Burns J, Cresswell RL, Dunn HD, Hawley MS.

JMIR Mhealth Uhealth. 2020 Jun 3;8(6):e16203. doi: 10.2196/16203.

<https://pubmed.ncbi.nlm.nih.gov/32490838/>

Evaluating the ASTHMAXcel Mobile Application Regarding Asthma Knowledge and Clinical Outcomes.

Hsia BC, Wu S, Mowrey WB, Jariwala SP.

Respir Care. 2020 Jun 2. pii: respcare.07550. doi: 10.4187/respcare.07550. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32487751/>

Development And Preliminary Evaluation Of The Effects Of An mHealth Web-based Platform (HappyAir™) on Adherence To a Maintenance Program After Pulmonary Rehabilitation In COPD Patients: Randomized Controlled Trial.

Jiménez-Reguera B, Maroto López E, Fitch S, Juarros-Monteagudo L, Sánchez-Cortés M,

Rodríguez-Hermosa JL, Calle-Rubio M, Hernández-Criado MT, López-Martín M, Angulo-Díaz

Parreño S, Martín-Pintado-Zugasti A, Vilaró J.

JMIR Mhealth Uhealth. 2020 Jun 3. doi: 10.2196/18465. Online ahead of print.
<https://pubmed.ncbi.nlm.nih.gov/32513646/>

Self-Efficacy of Older People Using Technology to Self-Manage COPD, Hypertension, Heart Failure, or Dementia at Home: An Overview of Systematic Reviews.

Chalfont G, Mateus C, Varey S, Milligan C.

Gerontologist. 2020 Jun 12. pii: gnaa045. doi: 10.1093/geront/gnaa045. [Epub ahead of print]

<https://pubmed.ncbi.nlm.nih.gov/32530031/>

User-Centered Design of a Mobile Health Intervention to Enhance Exacerbation-Related Self-Management in Patients with Chronic Obstructive Pulmonary Disease (Copilot): Mixed Methods Study.

Korpershoek YJG, Hermsen S, Schoonhoven L, Schuurmans MJ, Trappenburg JCA.

J Med Internet Res. 2020 Jun 15;22(6):e15449. doi: 10.2196/15449.

<https://pubmed.ncbi.nlm.nih.gov/32538793/>

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 Jun 13. doi:

10.1080/17434440.2020.1782734. Epub ahead of print. PMID: 32536214.

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

The efficacy of a mobile phone application to improve adherence to treatment and self-management in people with chronic respiratory disease in Romanian population - a pilot study.

Munteanu LA, Frandes M, Timar B, Tudorache E, Fildan AP, Oancea C, Tofolean DE. BMC

Health Serv Res. 2020 May 27;20(1):475. doi: 10.1186/s12913-020-05340-0. PMID: 32460752; PMCID: PMC7254754.

<https://pubmed.ncbi.nlm.nih.gov/32460752/>

PATIENT REPORTED OUTCOME MEASURES

Minimal clinically important differences in average, best, worst and current intensity and unpleasantness of chronic breathlessness.

Ekström M, Johnson MJ, Huang C, Currow DC.

Eur Respir J. 2020 Apr 27. pii: 1902202. doi: 10.1183/13993003.02202-2019. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32341113>

COPD Assessment Test Changes from Baseline Correlate with COPD Exacerbations: A Longitudinal Analysis of the DACCORD Observational Study.

Kardos P, Vogelmeier CF, Worth H, Buhl R, Obermoser V, Criée CP.

Lung. 2020 May 4. doi: 10.1007/s00408-020-00357-y. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32367415>

Use of the COPD Assessment Test (CAT) to screen for COPD in dairy farmers: AIRBAg study.

Jan S, Metten MA, Chapron A, Marette S, Robert AM, Guillot S, Mailloux C, Jouneau S, Viel JF; AIRBAG research group.

Clin Respir J. 2020 May 9. doi: 10.1111/crj.13201. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/32386451>

Designing and validating the empowerment scale for the older individuals with chronic obstructive pulmonary disease (ESOCOPD).

Khanian ZS, Ghaffari F, Alipoor ZJ, Fotokian Z.

Heliyon. 2020 May 5;6(5):e03909. doi: 10.1016/j.heliyon.2020.e03909. eCollection 2020 May.

<https://www.ncbi.nlm.nih.gov/pubmed/32405553>

Validation and clinical interpretation of the St George's respiratory questionnaire for COPD (SGRQ-C) after adaptation to Malaysian language and culture, in patients with COPD.

Rehman AU, Hassali MAA, Harun SN, Abbas S, Muneswarao J, Ali IABH, Hussain R.

Health Qual Life Outcomes. 2020 May 13;18(1):138. doi: 10.1186/s12955-020-01393-1.

<https://www.ncbi.nlm.nih.gov/pubmed/32404113>

Health-related Quality of Life Associates With Change in FEV₁ in COPD: Results From the COSYCONET Cohort

Lutter JI, Jörres RA, Kahnert K, Schwarzkopf L, Studnicka M, Karrasch S, Schulz H, Vogelmeier CF, Holle R, COSYCONET Study Group.

BMC Pulm Med. 2020 May 29;20(1):148. doi: 10.1186/s12890-020-1147-5.

<https://pubmed.ncbi.nlm.nih.gov/32471493/>

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.

West Afr J Med. Jul-Aug 2020;37(3):275-280.

<https://pubmed.ncbi.nlm.nih.gov/32476122/>

Easy measurement of health related quality of life in patients with cystic fibrosis by the COPD assessment test (CAT) - A pilot study.

Pott J, Krill A, Wilkens H, Bals R .

Respir Med. 2020 Jul;168:105992. doi: 10.1016/j.rmed.2020.105992. Epub 2020 Apr 30.

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