ERS literature update
March-April 2022

Composed for group 1.02 by Anouk W. Vaes, PhD and Sarah Houben-Wilke, PhD of the Department of Research and Development in Ciro, Horn, The Netherlands

PULMONARY REHABILITATION

The effectiveness of home-based balance and pulmonary rehabilitation program in individuals with chronic obstructive pulmonary disease: a randomized controlled trial.
Chuatrakoon B, Uthaikhup S, Ngai SP, Liwsrisakun C, Pothirat C, Sungkarat S.

Comparison of the Impact of Conventional and Web-Based Pulmonary Rehabilitation on Physical Activity in Patients With Chronic Obstructive Pulmonary Disease: Exploratory Feasibility Study.
Chaplin E, Barnes A, Newby C, Houchen-Wolloff L, Singh SJ.

Doucet JR, Fournier TA, Bishop CM, Gaudet DJ, Nagel DA.

Access to pulmonary rehabilitation for people from culturally and linguistically diverse communities: A cohort study.
Tang CY, Lavercombe M, Southcott AM, Taylor NF, Blackstock FC.

Nonlinear Heart Rate Variability in Patients with Chronic Obstructive Pulmonary Disease and Changes after 4-week Comprehensive Inpatient Pulmonary Rehabilitation.
Zivanovic I, Zupanic E, Avbelj V, Zibert J, Lainscak M, Kalisnik JM.

Design and delivery of home-based telehealth pulmonary rehabilitation programs in COPD: A systematic review and meta-analysis.
Michaelchuk W, Oliveira A, Marzolini S, Nonoyama M, Maybank A, Goldstein R, Brooks D.


EXERCISE TESTING AND TRAINING

The relationship between peak inspiratory flow and hand grip strength measurement in men with mild chronic obstructive pulmonary disease.

A pilot crossover trial assessing the exercise performance patients chronic obstructive pulmonary disease.

Assessments and Targeted Rehabilitation Therapies for Diaphragmatic Dysfunction in Patients with Chronic Obstructive Pulmonary Disease: A Narrative Review.

A randomized, crossover, placebo controlled, double blind trial of the effects of tiotropium-olodaterol on neuromuscular performance during exercise in COPD

Use of a Wearable Biosensor to Study Heart Rate Variability in Chronic Obstructive Pulmonary Disease and Its Relationship to Disease Severity.

Impaired Ventilatory Efficiency, Dyspnea and Exercise Intolerance in Chronic Obstructive Pulmonary Disease: Results from the CanCOLD Study.

Effectiveness of 12-week inspiratory muscle training with manual therapy in patients with COPD: A randomized controlled study.


Physical activity end-points in trials of chronic respiratory diseases: summary of evidence.
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The untapped potential of physical activity monitoring for quality assurance of field-based walking tests in clinical respiratory trials.
Orme MW, Pina I, Singh SJ.

Quantifying the Effect of Monitor Wear Time and Monitor Type on the Estimate of Sedentary Time in People with COPD: Systematic Review and Meta-Analysis.
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Measuring intensity during free-living physical activities in people with chronic obstructive pulmonary disease: A systematic literature review.
Rebelo P, Brooks D, Marques A.

Effects of a Pedometer-Based Walking Program in Patients with COPD-A Pilot Study.
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Using a smartphone application maintains physical activity following pulmonary rehabilitation in patients with COPD: a randomised controlled trial.

Systematic Review of Physical Activity, Sedentary Behaviour and Sleep Among Adults Living with Chronic Respiratory Disease in Low- and Middle-Income Countries.
Digital healthcare in COPD management: a narrative review on the advantages, pitfalls, and need for further research.
Watson A, Wilkinson TMA.

Participatory methods in a digital setting: experiences from the co-creation of an eHealth tool for people with chronic obstructive pulmonary disease.
Lundell S, Toots A, Sönnerfors P, Halvarsson A, Wadell K.

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Development of a Remote Health Monitoring System to Prevent Frailty in Elderly Home-Care Patients with COPD.
Ohashi C, Akiguchi S, Ohira M.

Nurses' experiences of using AsthmaTuner - an eHealth self-management system for healthcare of patients with asthma.
Schoultz K, Svensson A, Emilsson M.
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Remote Monitoring for Prediction and Management of Acute Exacerbations in Chronic Obstructive Pulmonary Disease (AECOPD).
Pépin JL, Degano B, Tamisier R, Viglino D.
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Hawthorne G, Richardson M, Greening NJ, Esliger D, Briggs-Price S, Chaplin EJ, Clinch L, Steiner MC, Singh SJ, Orme MW.

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PATIENT REPORTED OUTCOME MEASURES

Adding Granularity of COPD Self-Management to Impact Quality of Life.
Benzo MV, Novotny P, Benzo RP.

Comparation of predictive value of CAT and change in CAT in the short term for future exacerbation of chronic obstructive pulmonary disease.

Synergistic Impact of the Symptom Cluster on Health-Related Quality of Life in Patients With Chronic Obstructive Pulmonary Disease: A Secondary Data Analysis.
Fei F, Koffman J, Zhang X, Gao W.

Development and Validation of a Screening Questionnaire of COPD from a Large Epidemiological Study in China.

Characterizing COPD Symptom Variability in the Stable State Utilizing the Evaluating Respiratory Symptoms in COPD Questionnaire.
Establishing Quality of Life in Southern Taiwan COPD Patients Using Long-Acting Bronchodilator.
Chin PQ, Sheu CC, Tsai JR, Chang HL, Lee LY, Chen CY.

Accuracy of the COPD diagnostic questionnaire as a screening tool in primary care.
Pagano L, McKeough Z, Wootten S, Zwar N, Dennis S.

The Korean-Lung Information Needs Questionnaire: Translation, validation and clinical implications in comprehensive pulmonary rehabilitation.
Kim SH, Park HE, Yoon JA, Shin YB, Shin MJ, Kong IJ, Kim KU.

INTERSTITIAL LUNG DISEASE

Responsiveness and meaningful change thresholds of the Living with Pulmonary Fibrosis (L-PF) questionnaire Dyspnoea and Cough scores in patients with progressive fibrosing interstitial lung diseases.
Swigris JJ, Bushnell DM, Rohr K, Mueller H, Baldwin M, Inoue Y.

Association of BMI with pulmonary function, functional capacity, symptoms, and quality of life in ILD.
Schaeffer MR, Kumar DS, Assayag D, Fisher JH, Johannson KA, Khalil N, Kolb M, Manganas H, Marcoux VS, Guenette JA, Ryerson CJ.

Nutritional assessment in idiopathic pulmonary fibrosis: a prospective multicentre study.
Occurrence of Idiopathic Pulmonary Fibrosis in Italy: Latest Evidence from Real-World Data.

Cardiorespiratory responses to muscle metaboreflex activation in fibrosing interstitial lung disease.
Chen C, Kolbe J, Wilsher ML, De Boer S, Paton JFR, Fisher JP.

Comorbidities in unclassifiable interstitial lung disease.
Prior TS, Hyldgaard C, Torrini SE, Kronborg-White S, Ganter C, Bendstrup E, Kreuter M.

Prevalence and prognosis of chronic fibrosing interstitial lung diseases with a progressive phenotype.

Mortality and survival in idiopathic pulmonary fibrosis: a systematic review and meta-analysis.
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Responsiveness and meaningful change thresholds of the Living with Pulmonary Fibrosis (L-PF) questionnaire Dyspnoea and Cough scores in patients with progressive fibrosing interstitial lung diseases.
Swigris JJ, Bushnell DM, Rohr K, Mueller H, Baldwin M, Inoue Y.

Investigation of clinical predictors of survival in idiopathic pulmonary fibrosis patients- a cohort study in Taiwan.
Tseng CM, Chen MY, Kao CY, Tao CW.

Impact of end-of-life respiratory modalities on quality of dying and death and symptom relief in patients with interstitial lung disease: a multicenter descriptive cross-sectional study.

Chronic Obstructive Pulmonary Disease Combined with Interstitial Lung Disease.
Choi JY, Song JW, Rhee CK.

Clustering of lung diseases in the family of interstitial lung disease patients.
Terwiel M, Grutters JC, van Moorsel CHM.

Quality of Life and Healthcare Resource Use in a Real-world Patient Population with Idiopathic Pulmonary Fibrosis: The PROOF Registry.

Challenging the Evidence for Pulmonary Rehabilitation in Pulmonary Fibrosis: Is Good, Enough?
Osadnik CR.

Walk a Mile in My Shoes: Assessing the Importance of Pulmonary Rehabilitation in Idiopathic Pulmonary Fibrosis.
Sklar MC, Grieco DL.
Prevalence and impact of airway diseases on clinical outcomes in idiopathic pulmonary fibrosis.
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Current Beliefs and Practices Regarding the Management of Obesity in Patients with Progressive Interstitial Lung Disease.
Anderson MR, Aronson KL, Diamond JM, Christie JD, Singer JP.

Clinical evidence for improving exercise tolerance and quality of life with pulmonary rehabilitation in patients with idiopathic pulmonary fibrosis: A systematic review and meta-analysis.
Lei S, Li X, Xie Y, Li J.

ASTHMA

The German severe asthma patient: Baseline characteristics of patients in the German Severe Asthma Registry, and relationship with exacerbations and control.

Asthma diagnosis using patient-reported outcome measures and objective diagnostic tests: now and into the future.
Nawaz SF, Ravindran M, Kuruvilla ME.

A smartphone-based algorithm comprising cough analysis and patient-reported symptoms identifies acute exacerbations of asthma: a prospective, double blind, diagnostic accuracy study.
Giving Asthma Support to Patients (GASP) program evaluation.

Association of respiratory symptoms with body mass index and occupational exposure comparing sexes and subjects with and without asthma: follow-up of a Norwegian population study (the Telemark study).
Klepaker G, Hennéberger PK, Torén K, Brunborg C, Kongerud J, Fell AKM.

Association between depression and mortality in persons with asthma: a population-based cohort study.
Lin P, Li X, Liang Z, Wang T.

Breathing exercises for adults with asthma.
Harper V, Trayer J.

Shuttle walk test categorization according to the qualifiers of the International Classification of Functioning, Disability, and Health: proposal for use in patients with difficult-to-treat asthma, a cross-sectional study.

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Objective and Subjective Measurement of Cough in Asthma: A Systematic Review of the Literature.
Holmes J, Heaney LG, McGarvey LPA.

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Chaiwong W, Namwongprom S, Liwsrisakun C, Pothirat C.

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Asthma Patients' Use of Cell Phone Features and Their Willingness to Use Them for Self-Management.
Alshehri RA, Alanazi AT.

The Relationship Between Sleep Quality and Quality of Life Among Patients With Asthma.
Malek F, Khalil Sayah S, Kia NS, Ghods E.

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George M, Graff C, Bombezin-Domino A, Pain E.

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Nutrition implications of intrinsic restrictive lung disease.
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Association of body mass index and COPD exacerbation among patients with chronic bronchitis.
Shin SH, Kwon SO, Kim V, Silverman EK, Kim TH, Kim DK, Hwang YI, Yoo KH, Kim WJ, Park HY.

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Patients and Can C-reactive Protein-to-Albumin Ratio Be Used in the Nutritional Risk Assessment in These Patients.

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Increased energy and/or protein intake improves anthropometry and muscle strength in COPD patients: a systematic review with meta-analysis on randomized controlled clinical trials.

Effects of a Caregiver Educational Program on Interactions between Family Caregivers and Patients with Advanced COPD.

Provider Perspectives on and Access to Palliative Care for Patients with Interstitial Lung Disease.

Clinician Perspectives on How to Hold Earlier Discussions About Palliative and End-of-Life Care With Chronic Obstructive Pulmonary Disease Patients: A Qualitative Study.
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Impact of Palliative Care in End-of-Life of Fibrotic Interstitial Lung Disease Patients.
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Advance Care Planning in Chronically Ill Patients With an Episodic Disease Trajectory in the Acute Care Setting: A Quality Improvement Project.
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COMORBID CONDITIONS

Incidence of depression and antidepressant prescription in patients with COPD: A large UK population-based cohort study.
Siraj RA, McKeever TM, Gibson JE, Bolton CE.

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The HUNT study: Association of comorbidity clusters with long-term survival and incidence of exacerbation in a population-based Norwegian COPD cohort.

The Effect of Borderline Pulmonary Hypertension on Survival in Chronic Lung Disease.

Factors associated with coronary heart disease in COPD patients and controls.

Impact of COPD or Asthma on the Risk of Atrial Fibrillation: A Systematic Review and Meta-Analysis.

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Mortality, seasonal variation, and susceptibility to acute exacerbation of COPD in the pandemic year: a nationwide population study.

Comparison of Clinical Characteristics and Short-Term Prognoses Within Hospitalized Chronic Obstructive Pulmonary Disease Patients Comorbid With Asthma, Bronchiectasis, and Their Overlaps: Findings From the ACURE Registry.

Different Smoking Statuses on Survival and Emphysema in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease.
Ding Q, Li J, Xu S, Gao Y, Guo Y, Xie B, Li H, Wei X.

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Wang Q, Pei G, Chen L, He Z.

Influence of the COPD Assessment Test respiratory item score on the decision to hospitalize patients with disease exacerbation in a hospital emergency department.

Impact of Coexisting Dementia on Inpatient Outcomes for Patients Admitted with a COPD Exacerbation.
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**Different Smoking Statuses on Survival and Emphysema in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease.**

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**Health System Approach to Improve COPD Care After Hospital Discharge: Stepped Wedge Clinical Trial.**


**The development of the ADO-SQ model to predict 1-year mortality in patients with COPD.**


**Disease Trajectories and Impact of One Moderate Exacerbation in Gold B COPD Patients.**


**Relationship of COPD Exacerbation Severity and Frequency on Risks for Future Events and Economic Burden in the Medicare Fee-For-Service Population.**

Sethi S, Make BJ, Robinson SB, Kumar S, Pollack M, Moretz C, Dreyfus J, Xi A, Powell D, Feigler N.


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COVID-19

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

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Lee J, White E, Freiheit E, Scholand MB, Strek ME, Podolanczuk AJ, Patel NM; Pulmonary Fibrosis Foundation.

Value of Cardiopulmonary Exercise Testing in Prognostic Assessment of Patients with Interstitial Lung Diseases.

Derivation and validation of a simple multidimensional index incorporating exercise capacity parameters for survival prediction in idiopathic pulmonary fibrosis.
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Relationship between asthma and severe COVID-19: a national cohort study.
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Patient-Reported Symptoms and Sequelae 12 Months After COVID-19 in Hospitalized Adults: A Multicenter Long-Term Follow-Up Study.

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LONG-TERM IMPACT OF COVID-19

Long COVID in hospitalized and non-hospitalized patients in a large cohort in Northwest Spain, a prospective cohort study.


A Nomogram-Based Model to Predict Respiratory Dysfunction at 6 Months in Non-Critical COVID-19 Survivors.

One-year pulmonary impairment after severe COVID-19: a prospective, multicenter follow-up study.

One-year pulmonary impairment after severe COVID-19: a prospective, multicenter follow-up study.
Joint patient and clinician priority setting to identify 10 key research questions regarding the long-term sequelae of COVID-19.

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Cardiopulmonary Rehabilitation in Long-COVID-19 Patients with Persistent Breathlessness and Fatigue: The COVID-Rehab Study.

A systematic review on physical function, activities of daily living and health-related quality of life in COVID-19 survivors.
Patient-Reported Symptoms and Sequelae 12 Months After COVID-19 in Hospitalized Adults: A Multicenter Long-Term Follow-Up Study.

COVID-19 patients require multi-disciplinary rehabilitation approaches to address persisting symptom profiles and restore pre-COVID quality of life.


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PERSPECTIVES / STATEMENTS / EDITORIALS

Walk a Mile in My Shoes: Assessing the Importance of Pulmonary Rehabilitation in Idiopathic Pulmonary Fibrosis.
Sklar MC, Grieco DL.

Treatable traits in asthma: moving beyond diagnostic labels.
McDonald VM, Gibson PG.

Improving Outcomes Following a COPD Hospitalization; Lessons in Population Health from VA.
Lindenauer PK, Williams MV.

Future Perspectives of Reevaluating Mild COPD.  

Quality Standard Position Statements for Health System Policy Changes in Diagnosis and Management of COPD: A Global Perspective.  

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A mixed methods study to inform and evaluate a longitudinal nurse practitioner/community health worker intervention to address social determinants of health and chronic obstructive pulmonary disease self-management.  

The effectiveness of the active cycle of breathing technique in patients with chronic respiratory diseases: A systematic review.  
Zisi D, Chryssanthopoulos C, Nanas S, Philippou A.  

Metabolic syndrome in patients with COPD: Causes and pathophysiological consequences.  

Factors associated with participation in life situations in people with COPD.  
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Balance impairment and cognitive dysfunction in patients with chronic obstructive pulmonary disease under 65 years.  
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Guideline based knowledge and practice of physicians in the management of COPD in a low- to middle-income country.

Pragmatic Clinical Trial to Improve Patient Experience Among Adults During Transitions from Hospital to Home: the PArTNER study.

Knowledge, attitude and practice of wearing mask in the population presenting to tertiary hospitals in a developing country.

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Sodhi A, Pisani M, Glassberg MK, Bourjeily G, D'Ambrosio C. 

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The impact of personal and outdoor temperature exposure during cold and warm seasons on lung function and respiratory symptoms in COPD. 
Understanding barriers to and strategies for medication adherence in COPD: a qualitative study.
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Experiences in elderly people with chronic obstructive pulmonary disease in relation to the use of long-term home oxygen therapy: a qualitative study about feelings attributed to therapy.
Bueno GH, Campos CIG, Turato ER, Paschoal IA, Valladão LS, Baltieri L, Martins LC.

Evidence-based management approaches for patients with severe chronic obstructive pulmonary disease (COPD): A practice review.
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Anxiety and Comorbidities Differences in Adults with Chronic Pulmonary Diseases: Serbian Single Center Experience.
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A framework to support the progressive implementation of integrated team-based care for the management of COPD: a collective case study.

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The indirect influence of 'invisible' support on pulmonary function among adults with chronic obstructive pulmonary disease.

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Ambient Air Pollution and Dysanapsis: Associations with Lung Function and COPD in the CanCOLD Study.


Clinical Characteristics of Non-Smoking Chronic Obstructive Pulmonary Disease Patients: Findings from the KOCSOSS Cohort.

Choi JY, Kim JW, Kim YH, Yoo KH, Jung KS, Lee JH, Um SJ, Lee WY, Park D, Yoon HK.


Nonadherence to health promotion depending on chronic obstructive pulmonary disease severity.

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Nationwide implementation of the self-management program "Living well with COPD"; Process and effectiveness evaluation using a mixed-methods approach.


Can sharing clinic notes improve communication and promote self-management? A qualitative study of patients with COPD.

Effects of Education on Care Burden and Quality of Life to Caregivers of Patients with COPD.

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Playing the harmonica with chronic obstructive pulmonary disease. A qualitative study.

The Effectiveness and Harms of Screening for Chronic Obstructive Pulmonary Disease: An Updated Systematic Review and Meta-Analysis.

Frailty Among Older Individuals with and without COPD: A Cohort Study of Prevalence and Association with Adverse Outcomes.


Improved health status of severe COPD patients after being included in an integrated primary care service: A prospective cohort study.
Impact of Patient Assistance Programs on Hospital Visits in Patients With Chronic Obstructive Pulmonary Disease or Asthma.
Gallman BN, Huddleston JW, Ray ME, Smith SE.

Prognosis of Patients with COPD Not Eligible for Major Clinical Trials.
Çolak Y, Nordestgaard BG, Lange P, Vestbo J, Afzal S.

Comparing Self-management Programs with and without Peer Support Among Patients with Chronic Obstructive Pulmonary Disease.

Potential clinical implications of targeted spirometry for detection of COPD: A contemporary population-based cohort study.
Çolak Y, Nordestgaard BG, Vestbo J, Afzal S, Lange P.

Comparing Self-management Programs with and without Peer Support Among Patients with Chronic Obstructive Pulmonary Disease.

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Factors Related to Activation in Chinese Patients With Chronic Obstructive Pulmonary Disease: A Cross-Sectional Survey Study.

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