ERS literature update
September-October 2023

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

Development and implementation of the lung volume reduction pulmonary rehabilitation tool to identify eligibility for lung volume reduction in people with chronic obstructive pulmonary disease during pulmonary rehabilitation.

Effect of a pulmonary rehabilitation program combined with cognitive training on exercise tolerance and cognitive functions among Tunisian male patients with chronic obstructive pulmonary disease: A randomized controlled trial.
Tabka O, Sanaa I, Mekki M, Acheche A, Paillard T, Trabelsi Y.

Cognitive behavioural therapy combined with physical activity behavioural modification strategies during pulmonary rehabilitation in patients with COPD.

Pulmonary rehabilitation and risk of fall in elderly with chronic obstructive pulmonary disease.

Core outcome set for pulmonary rehabilitation of patients with COPD: results of a modified Delphi survey.
Souto-Miranda S, Saraiva I, Spruit MA, Marques A.
Virtual Reality for Pulmonary Rehabilitation: Comprehensive Review.
Pittara M, Matsangidou M, Pattichis CS.

Barriers to adherence to home-based pulmonary rehabilitation among patients with chronic obstructive pulmonary disease in Iran: a descriptive qualitative study.
Sami R, Salehi K, Hashemi M, Haghighat S, Atashi V.

Pulmonary rehabilitation is associated with decreased exacerbation and mortality in patients with chronic obstructive pulmonary disease: A nationwide Korean study.

Pulmonary Rehabilitation for Chronic Obstructive Pulmonary Disease Patients with Underlying Alpha-1 Antitrypsin Deficiency: A Systematic Review and Practical Recommendations.
Alwadani FA, Wheeler K, Pittaway H, Turner AM.

Comprehensive pulmonary rehabilitation for a 90-year-old patient with intertrochanteric fracture complicated by chronic obstructive pulmonary disease: a case report.
Teng H, Tian J, Shu Q.

Pulmonary rehabilitation for acute exacerbations of COPD: A systematic review.
Meneses-Echavez JF, Chavez Guapo N, Loaiza-Betancur AF, Machado A, Bidonde J.

Influence of pulmonary rehabilitation on symptoms of anxiety and depression in interstitial lung disease: A systematic review of randomized controlled trials.
Developing a home-based pulmonary rehabilitation programme for patients with chronic respiratory diseases in Malaysia: A mixed-method feasibility study.

Reference equations for quadriceps strength, endurance and power: a multicentre study.

The six-minute walk test - a reliable test for detection of exercise-related desaturation in patients with chronic obstructive pulmonary disease.

Laryngeal widening and adequate ventilation by expiratory pressure load training improve aerobic capacity in COPD: a randomised controlled trial.

Effects of Tai Chi on Lung Function, Exercise Capacity and Psychosocial Outcomes in Patients With Chronic Obstructive Pulmonary Disease: Systematic Review and Meta-analysis of Randomized Controlled Trials.

Barriers and Facilitators to Exercise Compliance for Community Elders with COPD: A Cross-Sectional Study.
Effects of combined endurance and resistance eccentric training on muscle function and functional performance in patients with chronic obstructive pulmonary disease: randomized controlled trial.

Use of automatic 6-minute walking test recording system in patients with chronic respiratory diseases.

Changes in diaphragm thickness and 6-min walking distance improvement after inspiratory muscle training in patients with chronic obstructive pulmonary disease: Clinical trial.

Minimal-Resource Home Exercise Program Improves Activities of Daily Living, Perceived Health Status, and Shortness of Breath in Individuals with COPD Stages GOLD II to IV.

Clinical effect of aerobic exercise training in chronic obstructive pulmonary disease: A retrospective study.

The impact of sport on the physical, psychological and social wellbeing of people with chronic breathlessness: A mixed-methods systematic review.

The Effects of Exercise Training in Patients With Persistent Dyspnea Following Pulmonary Embolism: A Randomized Controlled Trial.
Effectiveness of Water-Based Exercise in Patients with Chronic Obstructive Pulmonary Disease: Systematic Review and Meta-Analysis.

PHYSICAL ACTIVITY

Assessment of sedentary behaviour in individuals with COPD: how many days are necessary?
Bertoche MP, Furlanetto KC, Hirata RP, Sartori L, Schneider LP, Mantoani LC, Brito I, Dala Pola DC, Hernandes NA, Pitta F.
eCollection 2023 Jul.

Identifying the Characteristics of Responders and Nonresponders in a Behavioral Intervention to Increase Physical Activity Among Patients With Moderate to Severe Asthma: Protocol for a Prospective Pragmatic Study.
de Lima FF, Lunardi AC, Pinheiro DHA, Carvalho-Pinto RM, Stelmach R, Giavina-Bianchi P, Agondi RC, Carvalho CR.

Determinants of daily physical activity limitation in patients with idiopathic pulmonary fibrosis.
Sikora M, Jastrzębski D, Pilzak K, Osiadło G, Ziora D, Żebrowska A.

Effects of pharmacological and non-pharmacological interventions on physical activity outcomes in COPD: a systematic review and meta-analysis.
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Sustaining training effects through physical activity coaching (STEP): a randomized controlled trial.

Home-Based Physical Activity Program With Health Coaching for participants With Chronic Obstructive Pulmonary Disease in Sweden: A Proof-of-Concept Pilot Study.
Stakeholder Perceptions of a Web-Based Physical Activity Intervention for COPD: A Mixed-Methods Study.
Robinson SA, Shimada SL, Sliwinski SK, Wiener RS, Moy ML.

Effects of Pedometer-Based Step-Feedback on Physical Activity of Severe COPD Patients.
Tsujimura Y, Akiyama A, Hiramatsu T, Mikawa K, Tabira K.

Physical activity and sedentary behaviour in patients admitted with COPD: Associated factors.

Remote patient monitoring strategies and wearable technology in chronic obstructive pulmonary disease.
Coutu FA, Iorio OC, Ross BA.

Telemonitoring in Patients with Asthma: A Systematic Review.
Fadaizadeh L, Veleyati F, Sanaat M.

Effective Behavior Change Techniques in Digital Health Interventions for the Prevention or Management of Noncommunicable Diseases: An Umbrella Review.
Smartphone application-based rehabilitation in patients with chronic respiratory and cardiovascular diseases: a randomised controlled trial study protocol.

Use of telemonitoring in patient self-management of chronic disease: a qualitative meta-synthesis.
Creber A, Leo DG, Buckley BJR, Chowdhury M, Harrison SL, Isanejad M, Lane DA; TAILOR investigators.

Are older adults considered in asthma and chronic obstructive pulmonary disease mobile health research? A scoping review.
Kouri A, Wong EKC, Sale JEM, Straus SE, Gupta S.
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Measuring disparities in virtual healthcare and outcomes in chronic obstructive pulmonary disease patients during the COVID-19 pandemic.
Cherabuddi MR, Shadid AM, Obeidat L, Jesse M, Bradley P.

Re-admission and quality of life among patients with chronic obstructive pulmonary disease after telemedicine video nursing consultation - a randomized study.
Saleh S, Skeie S, Grundt H.

The Use of eHealth for Pharmacotherapy Management With Patients With Respiratory Disease, Cardiovascular Disease, or Diabetes: Scoping Review.
Bakema R, Smirnova D, Biri D, Kocks JWH, Postma MJ, de Jong LA.
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Analysis of the effectiveness of remote intervention of patients affected by chronic diseases: A systematic review and meta-analysis.
de Rezende DRB, Neto IA, Lunes DH, Carvalho LC.

Overcoming the Digital Divide for Older Patients With Respiratory Disease: Focus Group Study.
PATIENT REPORTED OUTCOME MEASURES

Measuring skill-based health literacy in chronic airway disease patients: the development and psychometric evaluation of the Vancouver airways health literacy tool (VAHLT).
Hohn RE, Kopec JA, Sawatzky R, Poureslami I, FitzGerald JM.

Psychometric Properties of the Short Scale Anxiety Sensitivity Index Among Adults with Chronic Respiratory Disease.
Clark HL, Dixon LJ, Ramachandran S, Leukel PJ, Lee AA.

Health-related quality of life and its associated factors in patients with chronic obstructive pulmonary disease.
Jarab AS, Al-Qerem W, Alzoubi KH, Abu Heshmeh S, Mukattash TL, Naser AY, Al Hamarneh YN.
Polish Adaptation and Psychometric Validation of the PREM-C9 Questionnaire for Patients with Chronic Obstructive Pulmonary Disease.
Damps-Konstańska I, Ciećko W, Jassem E, Bandurski T, Bosek D, Olszewska-Karaban M, Bandurska E.

**INTERSTITIAL LUNG DISEASE**

Impact of chronic fibrosing interstitial lung disease on healthcare use: association between FVC decline and inpatient hospitalization.
Singer D, Chastek B, Sargent A, Johnson JC, Shetty S, Conoscenti C, Bernstein EJ.

The interplay of physical and cognitive function in rehabilitation of interstitial lung disease patients: a narrative review.
Hanada M, Tanaka T, Kozu R, Ishimatsu Y, Sakamoto N, Orchanian-Cheff A, Rozenberg D, Reid WD.

Holistic management of patients with progressive pulmonary fibrosis.

Chester step test to identify functional impairment in interstitial lung disease.

Association of the 6-minute walking test ratio and difference with pulmonary function in patients with interstitial lung disease.

Patient perspectives on home-spirometry in interstitial lung disease: a qualitative co-designed study.
Impact of HRCT pattern on six-minute walk test in patients with interstitial lung disease—An observational study.

Quality of life in sarcoidosis.
Moor CC, Obi ON, Kahlmann V, Buschulte K, Wijsenbeek MS.

Low Daily Step Count Associated with Small Erector Spine Muscle Area and Sarcopenia in Idiopathic Pulmonary Fibrosis.

Five-Repetition Sit-to-Stand Test: Responsiveness and Minimal Important Difference in Idiopathic Pulmonary Fibrosis.

Walking the path of treatable traits in interstitial lung diseases.

A Tai Chi Class Collaboratively Developed for Persons With Interstitial and Other Lung Diseases: An Ethnographic Investigation.
Kilgore K, Leinfelder J, Campbell J, Wayne PM, Hallowell RW, Barakat A.

Rectus Femoris Cross-Sectional Area and Phase Angle as Predictors of 12-Month Mortality in Idiopathic Pulmonary Fibrosis Patients.

**ASTHMA**

Dietary Inflammatory Index and clinical outcome measures in adults with moderate to severe asthma.

Relationship Between Asthma Control Status and Health-Related Quality of Life in Japan: A Cross-Sectional Mixed-Methods Study.

"Asthma is a very bully disease" - patient experiences of living with chronic respiratory diseases in Cape Town, South Africa.

The Therapeutic Role of Inspiratory Muscle Training in The Management of Asthma: A Narrative Review.

Metabolic dysfunction, triglyceride-glucose index, and risk of severe asthma exacerbation.

Effects of low workload respiratory training with steam inhalation on lung function in stable asthma: a controlled clinical study.
Key Considerations When Addressing Physical Inactivity and Sedentary Behaviour in People with Asthma.
Urroz Guerrero PD, Oliveira JM, Lewthwaite H, Gibson PG, McDonald VM.

A self-management app to improve asthma control in adults with limited health literacy: a mixed-method feasibility study.

Asthma Moderates the Association between the Big Five Personality Traits and Life Satisfaction.
Kang W, Malvaso A, Whelan E.

Characteristics of Severe Asthma Patients and Predictors of Asthma Control in the Swiss Severe Asthma Registry.

Comorbidity burden in severe and non-severe asthma: a nationwide observational study (FINASTHMA).

Bringing the treatable traits approach to primary care asthma management.
Pfeffer PE, Rupani H, De Simoni A.

The Relationships Between Physical Activity and Asthma Control and Body Mass Index (BMI) in Patients with Asthma.


**NUTRITION AND NUTRITIONAL STATUS**

The Synergistic Effect of Dietary Acid Load Levels and Cigarette Smoking Status on the Risk of Chronic Obstructive Pulmonary Disease (COPD) in Healthy, Middle-Aged Korean Men.
Park J, Ha MR, Song J, Kim OY.

Lifestyle Intervention and Excess Weight in COPD: INSIGHT COPD Randomized Clinical Trial.

Unintentional weight loss is reflected in worse one-year clinical outcomes among COPD outpatients.
Yde SK, Mikkelsen S, Brath MSG, Holst M.

The role of vitamin D in chronic obstructive pulmonary disease with pulmonary hypertension.
Li M.

Negligible effect of vitamin D supplementation on exacerbation in patients with chronic obstructive pulmonary disease: meta-analysis.
Hua Y, Jiang T, Feng J, Zou M.

Metabolic syndrome, genetic susceptibility, and risk of chronic obstructive pulmonary disease: The UK Biobank Study.
Li S, Zhang T, Yang H, Chang Q, Zhao Y, Chen L, Zhao L, Xia Y.

Clinical impacts of sarcopenic obesity on chronic obstructive pulmonary disease: a cross-sectional study.
Physical Health-Related Quality of Life in Relation to Mediterranean Diet Adherence in a Sample of Greek Asthma Patients: A Pilot Study.

Advance care planning for patients with chronic obstructive pulmonary disease on home non-invasive ventilation: A qualitative study exploring barriers, facilitators and patients' and healthcare professionals' recommendations.

Prognostic Factors of Mortality in Non-Chronic Obstructive Pulmonary Disease Chronic Lung Disease: A Scoping Review.
Ng SHX, Chai GT, George PP, Kaur P, Yip WF, Chiam ZY, Neo HY, Tan WS, Hum A.

Cost-effectiveness of a specialist palliative care nurse-patient consultation followed by an interprofessional case conference for patients with non-oncological palliative care needs: results of the KOPAL trial.


Anxiety and Depression Among US Nursing Home Residents with Chronic Obstructive Pulmonary Disease.
Osundolire S, Goldberg RJ, Lapane KL.
COPD and multimorbidity: recognising and addressing a syndemic occurrence.

Comorbidities and mortality among patients with chronic obstructive pulmonary disease.
Skajaa N, Laugesen K, Horváth-Puhó E, Sørensen HT.

Exacerbating the burden of cardiovascular disease: how can we address cardiopulmonary risk in individuals with chronic obstructive pulmonary disease?
Shrikrishna D, Taylor CJ, Stonham C, Gale CP.

Assessment of left ventricular function in subjects with chronic obstructive pulmonary disease.
Mupparapu M, Venkataram R, Baikunje N, D'sa I, Thimmaiah CM.

Anxiety and post-traumatic stress disorders in patients with chronic respiratory diseases.
Yohannes AM.

Comorbidities in patients with chronic obstructive pulmonary disease: a comprehensive study.
Ghafil NY, Dananah FM, Hassan ES, Alkaabi YSA.

EXACERBATIONS / HOSPITALISATIONS / MORTALITY

Impact of pharmacological and non-pharmacological interventions on mortality in chronic obstructive pulmonary disease (COPD) patients.
Re-exacerbation within 30 days of discharge is associated with poor prognosis in the following year among patients hospitalised with exacerbation of chronic obstructive pulmonary disease: a clinical cohort study.

Year-to-year trajectories of hospital utilisation rates among patients with COPD: a real-world, single-centre, retrospective cohort study.
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Nakwan N, Suansan K.

Governmental Non-Pharmaceutical Interventions during the COVID-19 Pandemic and the COPD Exacerbation and Respiratory Infection Rate in Patients with Alpha-1 Antitrypsin Deficiency.
Kappe NN, Alagem N, Tov N, Stolk J.

Management of Chronic Obstructive Pulmonary Disease (COPD) Exacerbations in Hospitalized Patients From Admission to Discharge: A Comprehensive Review of Therapeutic Interventions.
Khan KS, Jawaid S, Memon UA, Perera T, Khan U, Farwa UE, Jindal U, Afzal MS, Razzaq W, Abdin ZU, Khawaja UA.

Risk Factors for COPD Exacerbations among Individuals without a History of Recent Exacerbations: A COPDGene Analysis.
Ferrera MC, Lopez CL, Murray S, Jain RG, Labaki WW, Make BJ, Han MK.

Individual Risk Factors of PM2.5 Associated with Wintertime Mortality in Urban Patients with Chronic Obstructive Pulmonary Disease (COPD).
Aron J, Baldomero AK, Rau A, Fiecas MB, Wendt CH, Berman JD.
Development and Validation of Prediction Models for Exacerbation, Frequent Exacerbations and Severe Exacerbations of Chronic Obstructive Pulmonary Disease: A Registry Study in North China.

Risk Factors for Recurrent Exacerbations in the General-Practitioner-Based Swiss Chronic Obstructive Pulmonary Disease (COPD) Cohort.

Subtypes of Patients with Mild to Moderate Airflow Limitation as Predictors of Chronic Obstructive Pulmonary Disease Exacerbation.

COVID-19
*Composed in collaboration with Dr. Vitalii Poberezhets (Chair of Group 01.04 - m-Health/e-health)


Psychological impact of the COVID-19 pandemic on people with asthma: a co-produced mixed-methods study.

The impact of the SARS-CoV-2 pandemic on the demographic, clinical and social profiles of patients admitted to the Pneumology Department for a COPD exacerbation.
Breathless and Blue in the Canadian Longitudinal Study on Aging: Incident and Recurrent Depression Among Older Adults with COPD During the COVID-19 Pandemic.

The quality and pattern of rehabilitation interventions prescribed for post-COVID-19 infection patients: A systematic review and meta-analysis.
Torres G, Gradidge PJ.

Rehabilitation Interventions for Physical Capacity and Quality of Life in Adults With Post-COVID-19 Condition: A Systematic Review and Meta-Analysis.
Pouliopoulou DV, Macdermid JC, Saunders E, Peters S, Brunton L, Miller E, Quinn KL, Pereira TV, Bobos P.

The impact of wearing facemask on COPD patients: A protocol of a systematic review and meta-analysis.
Chen X, Sani I, Xia X, Li Y, Li C, Yue F, Wang X, Bao S, Fan J.

Medication adherence in Medicare-enrolled older adults with asthma and chronic obstructive pulmonary disease before and during COVID-19 pandemic.
Liu L, Silva Almodóvar A, Nahata MC.

Werdecker C, Bals R.

PERSPECTIVES / STATEMENTS / EDITORIALS

A long overdue recognition: COPD as a distinct predictor of cardiovascular disease risk.
Amegadzie JE, Sadatsafavi M.

Recognising and Managing the Burdens of Chronic Breathlessness Alongside the Burdens of COPD.
Currow DC, Iyer R, Clark J, Rajan SK.

Editorial: Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2023 Guidelines for COPD, Including COVID-19, Climate Change, and Air Pollution.
Parums DV.

Asthma control questionnaires: A broader perspective.
Coscia G.

Precision Approaches to Chronic Obstructive Pulmonary Disease Management.
Moll M, Silverman EK.

Pulmonary rehabilitation marches on: refining, optimising and delivering through the clinical statement.
Bolton CE.

Breathing better: A tech-monitored study of positive expiratory pressure and reading aloud for chronic obstructive pulmonary disease.
Özden G, Parlar Kılıç S.
Mendelian randomization study shows a causal effect of asthma on chronic obstructive pulmonary disease risk.
Li Y, Wang W, Zhou D, Lu Q, Li L, Zhang B.

Literature review and development of pictorial action plan to promote self-management of chronic obstructive pulmonary disease.
Ho CCY, Chan CWH, Li C, Xiao J, Ng MSN.

A Hybrid Effectiveness-Implementation Study of Adherence to Long-Term Oxygen Therapy for COPD.

Clinical study on the effect of Bi-level positive airway pressure therapy on COPD complicated with Anxiety and Depression.
Zhang CH, Liu JH, Zhao JQ, Zhang ZH, Gu X.

From Pre-COPD to COPD: a Simple, Low cost, and ease of IMplementation (SLIM) risk calculator.

A 74-Year-Old Man With Dyspnea.
Khatim I, Judson MA, Htoo A, Chopra A.

Differences in smoking behaviors and readiness to change for patients with COPD and differing categories of depressive symptoms: a descriptive cross-sectional design.
Floyd J, Mallow J, Wang K, Davis SM, Carpenter R, Theeke L.
Cluster Analyses From the Real-World NOVELTY Study: Six Clusters Across the Asthma-COPD Spectrum.

Chronic Obstructive Pulmonary Disease Self-Management in Three LMICs: A Pilot Randomized Trial.

Patient and social factors related to nebulizer use in COPD patients at the transition of care: a qualitative study.
Foster AA, Stoll J, Daly CJ, Clark CM, Sethi S, Jacobs DM.

The Association Between Cognitive Functions and Psychological Factors in Patients with Severe COPD.
Hansen KK, Hilberg O, Jensen HI, Løkke A, Farver-Vestergaard I.

Patients' experiences with participating in a team-based person-centred intervention for patients at risk of or diagnosed with COPD in general practice.
Kolltveit BH, Graue M, Borge CR, Frisk B.

Effects of Serious Games for Patients With Chronic Obstructive Pulmonary Disease: Systematic Literature Review.
Huang H, Huang M, Chen Q, Hayter M, Watson R.

Laboratory and free-living gait performance in adults with COPD and healthy controls.
Intelligent Clinical Decision Support System for Managing COPD Patients.
Pereira J, Antunes N, Rosa J, Ferreira JC, Mogo S, Pereira M. 

Methods to assess COPD medications adherence in healthcare databases: a systematic review.
Vauterin D, Van Vaerenbergh F, Vanoverschelde A, Quint JK, Verhamme K, Lahousse L. 

Prevalence and Impact of Social Frailty in Patients with Chronic Obstructive Pulmonary Disease.

Role of Community Health Workers (CHWs) in COPD Care in Low- and Middle-Income Countries (LMICs).
Salvi S, Ghorpade D. 

Perspectives and Attitudes of General Practitioners Towards Pharmacological and Non-Pharmacological COPD Management in a Belgian Primary Care Setting: A Qualitative Study.
Leemans G, Vissers D, Ides K, Van Royen P. 

Impact of Undiagnosed COPD and Asthma on Symptoms, Quality of Life, Healthcare Utilization and Work Productivity.

COPD and Smoking Status - It Does Matter: Characteristics and Prognosis of COPD According to Smoking Status.

Clinically Important Deterioration (CID) and Ageing in COPD: A Systematic Review and Meta-Regression Analysis According to PRISMA Statement.
Manzetti GM, Ora J, Sepiacci A, Cazzola M, Rogliani P, Calzetta L.

Endobronchial valve treatment in chronic obstructive pulmonary disease: A qualitative study of patients' expectations.
Farver-Vestergaard I, Mousing CA, Løkke A, Bock K, Christensen TD, Bendixen M, Bendstrup E, Jørgensen LHK, King KL.

Delaney S, Huntley-Moore S, Cronin P.

Cohort Profile: Burden of Obstructive Lung Disease (BOLD) study.
Implementing psychological interventions delivered by respiratory professionals for people with COPD. A stakeholder interview study.
Wileman V, Rowland V, Kelly M, Steed L, Sohanpal R, Pinnock H, Taylor SJC.

Recent advances in bronchoscopic lung volume reduction for severe COPD patients.
Posthuma R, Vaes AW, Spruit MA, Vanfleteren LEGW.

The influence of gender differences on the illness perception and women's point of view on COPD.
Jankovic J, Djurdjevic N, Jandric A, Karic U, Milivojevic I, Ratkovic A, Buha I.

Health and Demographic Factors for Chronic Obstructive Pulmonary Disease Among Hispanic Adults in the United States: Analysis of Behavioral Risk Factor Surveillance System Survey Data.
Workman B, Nabors L.

The reduced ability to perform activities of daily living is associated with prolonged duration before rehabilitation initiation and lower dietary intake of patients with chronic obstructive pulmonary disease exacerbation.
Oyama Y, Tatsumi H, Tokunou R, Taniguchi N, Masuda Y.