ERS literature update
January-February 2021

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

Validation of Clinical Characteristics and Effectiveness of Pulmonary Rehabilitation in a COPD Population with Discrepancy between Exercise Tolerance and FEV1.
Horie J, Takahashi K, Shiranita S, Anami K, Hayashi S.

Adherence to walking exercise prescription during pulmonary rehabilitation in COPD with a commercial activity monitor: a feasibility trial.
Ward S, Orme M, Zatloukal J, Singh S.

Characteristics of Pulmonary Rehabilitation Programs Following an Exacerbation of Chronic Obstructive Pulmonary Disease: A SYSTEMATIC REVIEW.
Wageck B, Cox NS, T Lee JY, Romero L, Holland AE.

Patients with COPD: Exploring patients' coping ability during an interdisciplinary pulmonary rehabilitation programme: A qualitative focus group study.
Steen Abrahamsen C, Mandt Lang-Ree H, Halvorsen K, Meling Stenbakken C.

Predictors of pulmonary rehabilitation completion in the UK.
Stone PW, Hickman K, Steiner MC, Roberts CM, Quint JK, Singh SJ.

A Promising Intervention for Comprehensive Pulmonary Rehabilitation for Asthma COPD Overlap Syndrome.
Ahmedy F, Hayati F, Rahim SSSA, Payus AO.
Evaluation of the Efficacy of Immersive Virtual Reality Therapy as a Method Supporting Pulmonary Rehabilitation: A Randomized Controlled Trial.
Rutkowski S, Szczegielniak J, Szczepańska-Gieracha J.

EXERCISE TESTING AND TRAINING

Cardiovascular risk prediction using physical performance measures in COPD: results from a multicentre observational study.

Physiological Changes Differ between Responders and Nonresponders to Pulmonary Rehabilitation in COPD.

Inhaled nitric oxide improves ventilatory efficiency and exercise capacity in patients with mild COPD: A randomized-control crossover trial.

Baseline Characteristics of Subjects with Chronic Obstructive Pulmonary Disease Associated to the Improvement in Activities of Daily Living after Exercise Training.
Gulart AA, Martins ACB, Tressoldi C, Cani KC, de Araujo CLP, Dal Lago P, Mayer AF.

Association of exercise capacity and endothelial function in patients with severe exacerbations of chronic obstructive pulmonary disease.
Effect of an unsupervised walking program on tolerance to exercise in patients with chronic obstructive pulmonary disease.

Exercise-based interventions for Indigenous adults with chronic lung disease in Australia, Canada, New Zealand, and USA: a systematic review.
Meharg DP, Gwynne K, Gilroy J, Alison JA.

Exercise Training in Chronic Obstructive Pulmonary Disease: Muscle O(2) Transport Plasticity.
Broxterman RM, Wagner PD, Richardson RS.

Cardiorespiratory coupling is associated with exercise capacity in patients with chronic obstructive pulmonary disease.

Is the 1-Minute Sit-To-Stand Test a Good Tool to Evaluate Exertional Oxygen Desaturation in Chronic Obstructive Pulmonary Disease?
Fernandes AL, Neves I, Luís G, Camilo Z, Cabrita B, Dias S, Ferreira J, Simão P.

Multidimensional breathlessness response to exercise: Impact of COPD and healthy ageing.
Lewthwaite H, Li PZ, O'Donnell DE, Jensen D.

Minimal Clinically Important Difference for Quadriceps Muscle Strength in People with COPD following Pulmonary Rehabilitation.

Application of the Modified Incremental Step Test for Pulmonary Rehabilitation.
Challenges of evaluating the effect of exercise training on salivary IgA in people with COPD.
Cox NS, McDonald CF, Gleeson M, Wood L, Hall S, Hill C, Bondarenko J, Holland AE.

The effect of unsupported arm elevations on regional chest wall volumes and thoracoabdominal asynchrony in patients with chronic obstructive pulmonary disease.
Kruapanich C, Tantisuwat A, Thaveeratitham P, Lertmaharit S, Ubolnuar N, Chimpalee J, Mathiyakom W.

Handgrip Strength in People With Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.

Functionally Relevant Threshold of Quadriceps Muscle Strength in Patients with Chronic Obstructive Pulmonary Disease.
Iwakura M, Wakasa M, Okura K, Kawagoshi A, Sugawara K, Takahashi H, Shioya T.

Blood-flow restricted strength training combined with high-load strength and endurance training in pulmonary rehabilitation for COPD: a case report.
Kohlbrenner D, Aregger C, Osswald M, Sievi NA, Clarenbach CF.

Specific contribution of quadriceps muscle strength, endurance, and power to functional exercise capacity in people with chronic obstructive pulmonary disease: a multicenter study.

Muscle and cerebral oxygenation during cycling in chronic obstructive pulmonary disease: A scoping review.

Poor Work Efficiency is Associated with Poor Exercise Capacity and Health-Related Quality of Life in Patients with Chronic Obstructive Pulmonary Disease.

PHYSICAL ACTIVITY

A Non-Interventional, Cross-Sectional Study to Evaluate Factors Relating to Daily Step Counts and Physical Activity in Japanese Patients with Chronic Obstructive Pulmonary Disease: STEP COPD.

Tossing and turning: association of sleep quantity-quality with physical activity in COPD.

Construct Validity of the Brief Physical Activity Assessment Tool for Clinical Use in COPD.

Validity and responsiveness of the Daily- and Clinical visit-PROactive Physical Activity in COPD (D-PPAC and C-PPAC) instruments.

A Co-Designed Active Video Game for Physical Activity Promotion in People With Chronic Obstructive Pulmonary Disease: Pilot Trial.
Physical activity behaviour in people with asthma and COPD overlap residing in Spain: A cross-sectional analysis.
Sánchez Castillo S, Smith L, Díaz Suárez A, López Sánchez GF.

Reducing sedentary behavior in individuals with COPD: healthcare professionals' perspectives.
Wshah A, Selzler AM, Ellerton L, Hill K, Brooks D, Goldstein R.

Telehealth mitigates COPD disease progression compared to standard of care: a randomized controlled crossover trial.

Implementing Mobile Health-Enabled Integrated Care for Complex Chronic Patients: Intervention Effectiveness and Cost-Effectiveness Study.

Assessing the Usefulness of the Prevexair Smartphone Application in the Follow-Up High-Risk Patients with COPD.

Telerehabilitation for chronic respiratory disease.
Telerehabilitation in Subjects With Respiratory Disease: A Scoping Review.
Taito S, Yamauchi K, Kataoka Y.

WeChat as a Platform for Baduanjin Intervention in Patients With Stable Chronic Obstructive Pulmonary Disease in China: Retrospective Randomized Controlled Trial.

Effectiveness of a Mobile Health and Self-Management App for High-Risk Patients With Chronic Obstructive Pulmonary Disease in Daily Clinical Practice: Mixed Methods Evaluation Study.
Kooij L, Vos PJE, Dijkstra A, van Harten WH.

Impact of Technology Based Interventions on Patient Reported Outcomes in Asthma: A Systematic Review.
Doshi H, Hsia B, Mowrey W, Jariwala SP.

Effectiveness of Text Message Reminders on Adherence to Inhaled Therapy in Patients With Asthma: Prospective Multicenter Randomized Clinical Trial.

Effects of person-centred care via telephone on self-efficacy in patients with chronic obstructive pulmonary disease: Subgroup analysis of a randomized controlled trial.
Ali L, Wallström S, Ekman I, Swedberg K, Fors A.

Artificial intelligence/machine learning in respiratory medicine and potential role in asthma and COPD diagnosis.
Can Technology-Based Physical Activity Programs for Chronic Obstructive Pulmonary Disease Be Cost-Effective?
Ney JP, Robinson SA, Richardson CR, Moy ML.


Digital Interventions for Psychological Comorbidities in Chronic Diseases-A Systematic Review.

Emerging Role of Remote Patient Monitoring in Pulmonary Care: Telemedicine to Smartphone.
Desai NR, Diamond EJ.

Digital Health Technology and Telemedicine-Based Hospital and Home Programs in Pulmonary Medicine During the COVID-19 Pandemic.
Ilowite J, Lisker G, Greenberg H.

Moura J, Almeida AMP, Roque F, Figueiras A, Herdeiro MT.

Efficacy of cognitive behavioural therapy-based smartphone app for smoking cessation in China: a study protocol of a randomised controlled trial.
Durability of Abstinence After Completing a Comprehensive Digital Smoking Cessation Program Incorporating a Mobile App, Breath Sensor, and Coaching: Cohort Study.

Lessons Learned During COVID-19 That Can Move Telehealth in Primary Care Forward.

PATIENT REPORTED OUTCOME MEASURES

The relationship between COPD Assessment Test (CAT) scores and Distress Thermometer (DT) results in COPD patients.

Anxiety sensitivity and respiratory disease outcomes among individuals with chronic obstructive pulmonary disease.
Witcraft SM, Dixon LJ, Leukel P, Lee A.

Evaluation of Dipper and Non-dipper Blood Pressure Patterns and Quality of Life Among Patients with Chronic Obstructive Pulmonary Disease.
Askın M, Koc EM, Sozmen K, Turan MO, Soypacaci Z, Aksun S.

Validation of a diagnosis-agnostic symptom questionnaire for asthma and/or COPD.

INTERSTITIAL LUNG DISEASE
Predictors of mortality in interstitial lung disease patients without pulmonary hypertension.

Clinical characteristics, comorbidities, and outcomes in patients with idiopathic pulmonary fibrosis.

The prevalence of obstructive sleep apnea in interstitial lung disease: a systematic review and meta-analysis.

Survival predictors of interstitial lung disease in India: Follow-up of Interstitial Lung Disease India registry.

Idiopathic pulmonary fibrosis patients with severe physiologic impairment: characteristics and outcomes.

Home spirometry in patients with idiopathic pulmonary fibrosis: data from the INMARK trial

Suggestions for improving clinical utility of future guidelines for diagnosis and management of IPF - results of a Delphi survey.
Guler SA, Lindell KO, Swigris J, Ryerson CJ.

Appendicular Skeletal Muscle Mass Correlates with Patient-Reported Outcomes and Physical Performance in Patients with Idiopathic Pulmonary Fibrosis.

Neuropsychological functioning in patients with interstitial lung disease.
Giannouli V, Markopoulou A, Kiosseoglou G, Kosmidis MH.

Pharmacological and nonpharmacological interventions to improve symptom control, functional exercise capacity and quality of life in interstitial lung disease: an evidence synthesis.

Fatigue in idiopathic pulmonary fibrosis measured by the Fatigue Assessment Scale during antifibrotic treatment.
Kølner-Augustson L, Prior TS, Skivild V, Aalestrup A, Bendstrup E.

Kanjrawi AA, Mathers L, Webster S, Corte TJ, Carey S.

Indications and patterns of use of benzodiazepines and opioids in severe interstitial lung disease: a population-based longitudinal study.
Genberg J, Davies JM, Ahmadi Z, Currow D, Johnson MJ, Tanash H, Bajwah S, Ekström M.
Baseline characteristics and survival of patients of idiopathic pulmonary fibrosis: a longitudinal analysis of the Swedish IPF Registry.
Gao J, Kalafatis D, Carlson L, Pesonen IHA, Li CX, Wheelock Å, Magnusson JM, Sköld CM.

The natural history of idiopathic pulmonary fibrosis in a large European population: the role of age, sex and comorbidities.

### ASTHMA

Real-world evidence: patient views on asthma in respiratory specialist clinics in America.
Oppenheimer J, Slade DJ, Hahn BA, Zografos L, Gilsenan A, Richardson D, McSorley D, Lima R, Molfino NA, Averell CM.

The validity and reliability of the Thai version of the asthma control test.
Niyatiwatchanchai N, Chaiwong W, Pothirat C.

Quality improvement approach to increasing respiratory therapist driven teach back style asthma education.
Ulrich L, Welty M, Henderson A, Allen E.

A structured review evaluating content validity of the Asthma Control Test, and its consistency with U.S. guidelines and patient expectations for asthma control.

Nocturnal Cough and Sleep Quality to Assess Asthma Control and Predict Attacks.
Uncontrolled asthma in Ethiopia: a systematic review and meta-analysis.
Tadesse DB, Negash M, Kiros KG, Ayele E, Hailay A, Haile TG, Abay M, Demoz GT.

Efficacy of inspiratory muscle training on inspiratory muscle function, functional capacity, and quality of life in patients with asthma: A randomized controlled trial.
Lage SM, Pereira DAG, Corradi Magalhães Nepomuceno AL, Castro AC, Araújo AG, Hoffman M, Silveira BMF, Parreira VF.

Obstructive sleep apnea is a determinant of asthma control independent of smoking, reflux, and rhinitis.
Özden Mat D, Fırat S, Aksu K, Aksu F, Duyar SŞ.

Factors associated with discrepancies between poor dyspnea perception and abnormal lung function in 65 asthmatic patients.

Characteristics of Specialist-Diagnosed Asthma-COPD Overlap in Severe Asthma: Observations from the Korean Severe Asthma Registry (KoSAR).

Patient perspectives on living with severe asthma in Denmark and Sweden.
Papapostolou G, Tunsäter A, Binmyr J, Telg G, Roslind K.

The impact of moderate and severe asthma exacerbations on quality of life: a post hoc analysis of randomised controlled trial data.
Briggs A, Nasser S, Hammerby E, Buchs S, Virchow JC.

A systematic review of the cost-effectiveness of medication adherence-enhancing intervention for asthma.
Khaw SM, Li SC, Tahir NAM.
Relationship between health-related quality of life and subjective wellbeing in asthma.
de Albornoz SC, Chen G.

Factors associated with frequent exacerbations in the UK Severe Asthma Registry.

Sex Differences in Severe Asthma: Results From Severe Asthma Network in Italy-SANI.

The Impact of Tobacco Smoking on Adult Asthma Outcomes.
Tiotiu A, Ioan I, Wirth N, Romero-Fernandez R, González-Barcala F-J.

Smartphone Pedometers in Adults With Asthma: A Practical Approach to Physical Activity Assessment? A Pilot Validation Study.
Reilly C, Stavropoulos Kalinoglou A, Clifton I, McKenna J, Peckham D, Price OJ.

Factors associated with self-assessed asthma severity.

Association between Asthma and Type 2 Diabetes Mellitus: Mechanisms and Impact on Asthma Control-A Literature Review.
Torres RM, Souza MDS, Coelho ACC, de Mello LM, Souza-Machado C.

A Systematic Review and Meta-Analysis of Change in Health-Related Quality of Life for Interactive Telehealth Interventions for Patients With Asthma.

Effects of exercise-based pulmonary rehabilitation on adults with asthma: a systematic review and meta-analysis.

Perspectives on decisions for treatment and care in severe asthma.

Asthma and risk of infection, hospitalisation, ICU admission and mortality from COVID-19: Systematic review and meta-analysis.

Patient selected treatment goals in severe asthma.

The 5-Repetition Sit-to-Stand Test as an Outcome Measure for Pulmonary Rehabilitation in Subjects With Asthma.

Work absence in patients with asthma and/or COPD: a population-based study.

Asthma self-management at work, asthma morbidity, and the subjective prognosis of gainful employment - the role of work engagement and overcommitment: a cross-sectional study.
Heinrichs K, Schultz K, Hummel S, Jütjens O, Loerbroks A.
ADVANCED DISEASE / END OF LIFE / PALLIATIVE CARE

Palliative care needs and integration of palliative care support in chronic obstructive pulmonary disease (COPD): a qualitative study.

Chronic obstructive pulmonary disease and advance care planning: A synthesis of qualitative literature on patients' experiences.

Physicians' views on the usefulness and feasibility of identifying and disclosing patients' last phase of life: a focus group study.

Association of Palliative Care Intervention with Health Care Use, Symptom Burden and Advance Care Planning in Adults with Heart Failure and Other Noncancer Chronic Illness.

COMORBID CONDITIONS

Co-existing obstructive sleep apnea among patients with chronic obstructive pulmonary disease.

Risk of incident dementia and cognitive impairment in patients with chronic obstructive pulmonary disease (COPD): A large UK population-based study.
Siraj RA, McKeever TM, Gibson JE, Gordon AL, Bolton CE.
The Impact of Diabetes Mellitus in Patients with Chronic Obstructive Pulmonary Disease (COPD) Hospitalization.

Prevalence of different comorbidities in chronic obstructive pulmonary disease among Shahrekord PERSIAN cohort study in southwest Iran.
Kiani FZ, Ahmadi A.

COPD comorbidity profiles and two-year trajectory of acute and post-acute care utilization.

A follow-up study on restless legs syndrome in chronic obstructive pulmonary disease population.

Eccentric Left Ventricular Hypertrophy and Left and Right Cardiac Function in Chronic Heart Failure with or without Coexisting COPD: Impact on Exercise Performance.
Dos Santos PB, Simões RP, Goulart CL, Roscani MG, Marinho RS, Faria Camargo P, Arbex RF, Casale G, Oliveira CR, Mendes RG, Arena R, Borghi-Silva A.

Kim Y, Kim YJ, Cho WK.

Aortic enlargement in chronic obstructive pulmonary disease (COPD) and emphysema: The multi-ethnic study of atherosclerosis (MESA) COPD study.

Pulmonary hypertension in patients with chronic obstructive lung disease: results from COMPERA. 

EXACERBATIONS / HOSPITALISATIONS / MORTALITY

How Well Does the Surprise Question Predict 1-year Mortality for Patients Admitted with COPD? 

The Impact of COPD Exacerbations in the Year Following Pulmonary Rehabilitation: Secondary Analysis of a Randomised Controlled Trial. 

Outcomes associated with comorbid diabetes among patients with COPD exacerbation: findings from the ACURE registry. 

Analysis of prevalence and prognosis of type 2 diabetes mellitus in patients with acute exacerbation of COPD. 
Low BMI and weight loss aggravate COPD mortality in men, findings from a large prospective cohort: the JACC study.

Reducing Readmissions for Chronic Obstructive Pulmonary Disease in Response to the Hospital Readmissions Reduction Program.

Deterioration and Mortality Risk of COPD Patients Not Fitting into Standard GOLD Categories: Results of the COSYCONET Cohort

Management of acute COPD exacerbations in France: A qualitative survey in a private practice setting.

Malnutrition According to GLIM Criteria Is Associated with Mortality and Hospitalizations in Rehabilitation Patients with Stable Chronic Obstructive Pulmonary Disease.

Protocol for an observational study to identify potential predictors of an acute exacerbation in patients with chronic obstructive pulmonary disease (the PACE Study).

Association Between Rural Residence and In-Hospital and 30-Day Mortality Among Veterans Hospitalized with COPD Exacerbations.
Predicting Re-Exacerbation Timing and Understanding Prolonged Exacerbations: An Analysis of Patients with COPD in the ECLIPSE Cohort.
Meeraus WH, Mullerova H, El Baou C, Fahey M, Hessel EM, Fahy WA.

Respiratory exacerbations are associated with muscle loss in current and former smokers.

COPD-Lower Respiratory Tract Infection Visual Analogue Score (c-LRTI-VAS) validation in stable and exacerbated patients with COPD.
Prins HJ, Duijkers R, Daniels JMA, van der Molen T, van der Werf TS, Boersma W.

Impact of insomnia and obstructive sleep apnea on the risk of acute exacerbation of chronic obstructive pulmonary disease.
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Unmet needs in the management of exacerbations of chronic obstructive pulmonary disease.
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Standardisation of Clinical Assessment, Management and Follow-Up of Acute Hospitalised Exacerbation of COPD: A Europe-Wide Consensus.
Association Between Thyroid Function and Acute Exacerbation of Chronic Obstructive Pulmonary Disease.
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COVID-19
*Composed in collaboration with Dr. Vitalii Poberezhets (Chair of Group 01.04 - m-Health/e-health)

Asthma and COVID-19: do we finally have answers?
Eger K, Bel EH.

Chronic comorbidities and clinical outcomes in patients with and without COVID-19: a large population-based study using national administrative healthcare open data of Mexico.
Martos-Benítez FD, Soler-Morejón CD, García-Del Barco D.

Coronavirus Infectious Disease Epidemic (COVID-19): where we are, what can be done and hope for.
Carbone M, Lednicky J, Xiao S-Y, Venditti M, Bucci E.

Clinical Characteristics and Prognosis of COPD Patients Hospitalized with SARS-CoV-2.

Are women with asthma at increased risk for severe COVID-19?
Fernando M, Agusti A, Dharmage S, Lodge C.

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Asthma in Adult Patients with COVID-19: Prevalence and Risk of Severe Disease.
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Is asthma a risk factor for coronavirus disease-2019 worse outcomes? The answer is no, but ...
Franco PA, Jezler S, Cruz AA.

Is asthma a risk factor for COVID-19? Are phenotypes important?
Muñoz X, Pilia F, Ojanguren I, Romero-Mesones C, Cruz MJ.

Severe outcomes of COVID-19 among patients with COPD and asthma.
Hansen ESH, Moeller AL, Backer V, Andersen MP, Kober L, Kragholm K, Torp-Pedersen C.

COPD in the time of COVID-19: an analysis of acute exacerbations and reported behavioural changes in patients with COPD.
McAuley H, Hadley K, Elneima O, Brightling CE, Evans RA, Steiner MC, Greening NJ.

Clinical presentation and outcomes of the first patients with COVID-19 in Argentina: Results of 207079 cases from a national database.
Impact of COPD on COVID-19 prognosis: A nationwide population-based study in South Korea.
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Impact of COVID-19 on COPD and asthma admissions, and the pandemic from a patient's perspective.
Sykes DL, Faruqi S, Holdsworth L, Crooks MG.

Association of smoking history with severe and critical outcome in COVID-19 patients: A systemic review and meta-analysis.
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Living with the risk of being infected: COPD patients' experiences during the coronavirus pandemic.
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Respiratory failure, clinical course and community management of COVID-19 patients in a large Australian cohort.
Louie T, Kwan B, Susanto C, Ng A.

COVID-19 in underlying COPD Patients.
Sunkara K, Allam VR, Shukla SD, Chellappan DK, Gupta G, MacLoughlin R, Dua K.
Telehealth Role During the COVID-19 Pandemic: Lessons Learned from Health Care Providers in Saudi Arabia.
Eddine IS, Zedan HS.


Using Virtual Visits to Care for Primary Care Patients With COVID-19 Symptoms.
Tarn DM, Hintz C, Mendez-Hernandez E, Sawlani SP, Bholat MA.

Could Telehealth Improve Equity During the COVID-19 Pandemic?
Sieck CJ, Rastetter M, McAlearney AS.

Exploring the Face-to-Face: Revisiting Patient-Doctor Relationships in a Time of Expanding Telemedicine.
Edgoose JYC.

An Introduction to Telehealth and COVID-19 Innovations - A Primer for Librarians.
Rahaman T.

Relationship between Coronavirus-related eHealth Literacy and COVID-19 Knowledge, Attitudes, and Practices among US Adults.

COVID-19: patient characteristics in the first phase of post-intensive care rehabilitation.
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Treatment, Persistent Symptoms, and Depression in People Infected with COVID-19 in Bangladesh.

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Post-COVID-19 Symptom Burden: What is Long-COVID and How Should We Manage It?

Medium-term impact of COVID-19 on pulmonary function, functional capacity and quality of life.

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Residual symptoms and lower lung function in patients recovering from SARS-CoV-2 infection.
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Persistent Poor Health Post-COVID-19 Is Not Associated with Respiratory Complications or Initial Disease Severity.

6-month consequences of COVID-19 in patients discharged from hospital: a cohort study.

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Functional outcome after inpatient rehabilitation in post-intensive care unit COVID-19 patients: findings and clinical implications from a real-practice retrospective study.
COPD: COagulation-associated Pulmonary Disease?
Mkorombindo T, Dransfield MT.

COPD and pulmonary rehabilitation: new findings from Brazil.
Goërtz YMJ, Vaes AW, Spruit MA.

Sex and Treatable Traits in Severe Asthma.
Park HK, Song WJ.

Advances in Chronic Obstructive Pulmonary Disease.
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Natural history and mechanisms of COPD.
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The Alchemy for a Behavior Change in COPD: The Combination of Personalized Care, the Proper Environment, Patient Motivation, and the Right Tools.
Maria B, Roberto B.

COPD & COVID-19.
Halpin DMG, Vogelmeier CF, Agusti AA.

Eccentric Exercise in COPD: Take It or Leave It?
Cruz J, Burtin C.

Extrathoracic muscle wasting in exacerbations of COPD: no longer outside the region of interest.
Greening NJ, Polkey MI, McAuley HJC.
Improving lung health in low-income and middle-income countries: from challenges to solutions.

Higher serum vitamin D levels are associated with decreased odds of obstructive lung disease in the general population: an NHANES analysis (2007-2008 to 2009-2010).

The associations between dietary pattern of chronic obstructive pulmonary disease patients and depression: a cross-sectional study.

Longitudinal changes to quadriceps thickness demonstrate acute sarcopenia following admission to hospital for an exacerbation of chronic respiratory disease.

The product of trunk muscle area and density on the CT image is a good indicator of energy expenditure in patients with or at risk for COPD.

Towards Personalized Management of Sarcopenia in COPD.
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Effect of nutritional risk on cognitive function in patients with chronic obstructive pulmonary disease.

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The Effect of a Multidisciplinary Integrated Approach on Outcomes in Chronic Obstructive Pulmonary Disease.

Effects of pursed-lip breathing and forward trunk lean postures on total and compartmental lung volumes and ventilation in patients with mild to moderate chronic obstructive pulmonary disease: An observational study.

Advancing the Patient EXperience (APEX) in COPD Registry: Study Design and Strengths.
Diaphragmatic excursion correlates with exercise capacity and dynamic hyperinflation in COPD patients.

New Insights into Activities of Daily Living Performance in Chronic Obstructive Pulmonary Disease.
Kaptain RJ, Helle T, Patomella AH, Weinreich UM, Kottorp A.

Juggling the management of everyday life activities in persons living with chronic obstructive pulmonary disease.
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Development and Validity Assessment of a Chronic Obstructive Pulmonary Disease Knowledge Questionnaire in Low- and Middle-Income Countries.

Health-Promoting Behaviors, Health Literacy, and Knowledge Level about Smoking-Related Diseases among Smokers and Non-smokers: A Cross-Sectional Study.

Effects of Respiratory Disorders on Smoking Cessation and Re-Initiation in an Italian Cohort Study.

A Cross-Sectional Study on Balance Deficits and Gait Deviations in COPD Patients.
Jirange P, Vaishali K, Sinha MK, Bairapreddy KC, Alaparthi GK.
Investigating Patient and Family Satisfaction with the Respiratory Status in Patients with Chronic Obstructive Pulmonary Disease.


A conceptual model of functional health literacy to improve chronic airway disease outcomes.

Clinical Control Criteria to Determine Disease Control in Patients with Severe COPD: The CLAVE Study.

Transitions between COPD groups: A cross-sectional study in Turkey.

Role of active cycle of breathing technique for patients with chronic obstructive pulmonary disease: A pragmatic, randomized clinical trial.

Case-finding for COPD clinic acceptability to patients in GPs across Hampshire: a qualitative study.
Patterns of medical care utilization according to environmental factors in asthma and chronic obstructive pulmonary disease patients.


Critical inhaler technique errors in Swedish patients with COPD: a cross-sectional study analysing video-recorded demonstrations.

How Breathing Exercises Influence on Respiratory Muscles and Quality of Life among Patients with COPD? A Systematic Review and Meta-Analysis.
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**GOLD in Practice: Chronic Obstructive Pulmonary Disease Treatment and Management in the Primary Care Setting.**

**Does Evaluation and Management of COPD Follow Therapeutic Strategy Recommendations?**

**Telomere length dynamics over 10-years and related outcomes in patients with COPD.**

**Cost-effectiveness of sustained-release morphine for refractory breathlessness in COPD: A randomized clinical trial.**

**Defining Resilience to Smoking Related Lung Disease: A Modified Delphi Approach from SPIROMICS.**

**Heterogeneity within and between physician-diagnosed asthma and/or COPD: NOVELTY cohort.**