ERS literature update
May-June 2024

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PULMONARY REHABILITATION

Pulmonary Rehabilitation Reimbursement Challenges.
Garvey C.

Psychosocial Support in Pulmonary Rehabilitation.
Yohannes AM.

Feasibility of a Novel Geriatric Rehabilitation Program for People With COPD-induced Malnutrition and Muscle Wasting: A Qualitative Study.
Geerars-van der Veen M, Ballemans J, Bongers AM, van Loon A, Smit EB.

Impact and timing of pulmonary rehabilitation in patients undergoing bronchoscopic lung volume reduction with endobronchial valves: A multicentre randomized controlled trial in patients with severe emphysema.

Beyond pulmonary rehabilitation: can the PICk UP programme fill the gap? A randomised trial in COPD.

The Short-Term Efficacy of a Three-Week Pulmonary Rehabilitation Program among Patients with Obstructive Lung Diseases.
Effectiveness of a home-based pulmonary rehabilitation maintenance programme: the Rehab2Life study protocol.

Counterpoint: In-Home Pulmonary Rehabilitation Is an Attractive Alternative.
Bhatt SP.

The Rationale, Evidence, and Adaptations to Pulmonary Rehabilitation for Chronic Respiratory Diseases Other Than COPD.
Evans RA.

Barriers to Pulmonary Rehabilitation.
Rochester CL.

The effects of adding a six-month Pilates exercise program to three months of traditional community-based pulmonary rehabilitation in individuals with COPD: a prospective cohort study.
Barbosa M, de Melo CA, Torres R.

Assessing the Barriers and Facilitators to Pulmonary Rehabilitation Referrals Using the Consolidated Framework for Implementation Research (CFIR).
Gabriel AS, Finkelstein J.

Pulmonary rehabilitation: A cohort study assessing the effectiveness of a multi-professional nutrition intervention.
Holst M, Geisler L, Mikkelsen S, Rasmussen HH, Jørgensen BG, Beck AM.

Motivations for completing pulmonary rehabilitation - A qualitative analysis.
The Influence of Lung Function and Respiratory Muscle Strength on Quadriceps Muscle Fatigability in COPD Patients Under Long-term Oxygen Therapy.
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Comparable Ventilatory Inefficiency at Maximal and Submaximal Performance in COPD vs. CHF subjects: An Innovative Approach.
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Inspiratory Muscle Training: Back to Basics Must be the First Step?
Ballesteros-Reviriego G, Arbillaga-Etxarri A, Martí JD.

Is there any physiological reason to train expiratory muscles in people with mild COPD?
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Measuring Physical Functioning Using Wearable Sensors in Parkinson Disease and Chronic Obstructive Pulmonary Disease (the Accuracy of Digital Assessment of Performance Trial Study): Protocol for a Prospective Observational Study.

Effects of Respiratory Function Exercise and Psychological Nursing on COPD Patients: A Comprehensive Study.
Quality of aerobic training description and its relation to intervention efficacy in chronic obstructive pulmonary disease trials: study protocol for a systematic review, meta-analysis and meta-regression.
Jakobsson J, Stoffels AAF, van Hees HWH, De Brandt J, Nyberg A, Klijn P.

Respiratory muscle strength can improve the prognostic assessment in COPD.
Silva RN, Goulart CDL, de Oliveira CR, Mendes RG, Arena R, Myers J, Borghi-Silva A.

Effect of 12-week head-down strong abdominal breathing on cognitive function in patients with stable chronic obstructive pulmonary disease: a single-centre randomised controlled trial protocol.
Song F, Ding K, Sun M, Xia R.

Impact of Real-Time Assessment of Pulse Oximetry on the 6-Min Walk Distance in Patients With Chronic Respiratory Disease.
Wagner LE, Rosa GH, Plachi F, da Silva AB, Imperador ADS, de Azevedo AC, Gazzana MB, Neder JA, Berton DC.

Effects of Neuromuscular Electrical Stimulation on Muscle Strength, Functional Capacity, and Quality of Life Among Older Patients With Asthma.
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The Effect of Tai Chi on Patients with Chronic Obstructive Pulmonary Disease: A Systematic Review.
Yılmaz Karabulutlu E, Şimşekli D, Üstündağ Ş.

The Long-Term Benefit of Exercise With and Without Manual Therapy for Mild Chronic Obstructive Pulmonary Disease: A Randomized Controlled Trial.
Engel RM, Gonski P, Vemulpad S, Graham PL.

Effect of adding neuromuscular electrical stimulation for patients with moderate to severe chronic obstructive pulmonary disease: Systematic review and meta-analysis.
Exercise-based interventions targeting balance and falls in people with COPD: a systematic review and meta-analysis.

Interventions with a clear focus on achieving behaviour change are important for maintaining training-related gains in people with chronic obstructive pulmonary disease: a systematic review.
Hug S, Cavalheri V, Lawson-Smith H, Gucciardi DF, Hill K.

Assessing the causal role of physical activity and leisure sedentary behaviours with chronic obstructive pulmonary disease: a Mendelian randomisation study.

Impact of automated data flow and reminders on adherence and resource utilization for remotely monitoring physical activity in individuals with stroke or chronic obstructive pulmonary disease.
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Motivation and confidence about physical activity in COPD patients: health benefits matter to patients.

What kind of non-pharmacological strategy for reducing sedentary behavior in COPD? Data from a scoping review.
Younes A, Mandigout S, Robin L, Borel B.
Motivating factors for physical activity participation among individuals with chronic obstructive pulmonary disease: A qualitative study applying the motivation, opportunity, and ability model.

A behaviour change intervention to reduce sedentary behaviour in chronic obstructive pulmonary disease: a qualitative study.
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Influencing factors of sedentary behaviour in people with chronic obstructive pulmonary disease: a systematic review.
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Evaluation of physical activity before and after respiratory rehabilitation in normal weight individuals with asthma: a feasibility study.
Oliva FM, Tarasconi M, Malovini A, Zappa M, Visca D, Zampogna E.

Physical exercise and chicken egg white supplementation increase muscle mass of stable COPD patients.
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Physical Activity and Systemic Biomarkers in Persons With COPD: Insights from a Web-Based Pedometer-Mediated Intervention.
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Biomarkers of Inflammation and Longitudinal Evaluation of Lung Function, Physical Activity, and Grip Strength: A Secondary Analysis in the CASCADE Study.
MacDonald DM, Samorodnitsky S, Lock EF, Fan V, Chen Z, Nguyen HQ, Wendt CH.
Emotional Distress and Physical Activity Engagement in U.S. Veterans With Chronic Obstructive Pulmonary Disease: A Qualitative Study.

The importance of addressing physical activity and exercise intolerance in our patients with COPD.

Prevalence and prognostic importance of exercise limitation and physical inactivity in COPD.

Increasing exercise capacity and physical activity in the COPD patient.

Unravelling the complex interplay of factors behind exercise limitations and physical inactivity in COPD.

Behaviour change interventions for physical activity in adults with chronic obstructive pulmonary disease; A systematic review and meta-analysis.
Digital Self-Management Platform for Adult Asthma: Randomized Attention-Placebo Controlled Trial.
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Filling the gaps in the evaluation and selection of mobile health technologies in respiratory medicine.
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Internet of Things-Based Home Respiratory Muscle Training for Patients with Chronic Obstructive Pulmonary Disease: A Randomized Clinical Trial.
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Virtual Reality Applications for the Implementation of Domestic Respiratory Rehabilitation Programs for Patients With Long COVID and Post-COVID Condition: Scoping Review.
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Smartphone applications supporting self-management programme for adults with Chronic Obstructive Pulmonary Disease: A Scoping Review.
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Preferences, Needs, and Values of Patients With Chronic Obstructive Pulmonary Disease Attending a Telehealth Service: Qualitative Interview Study.
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The Effects of Digital Health Interventions for Pulmonary Rehabilitation in People with COPD: A Systematic Review of Randomized Controlled Trials.
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Comparative effectiveness of eHealth interventions on the exercise endurance and quality of life of patients with COPD: A systematic review and network meta-analysis.

DEVELOPMENT OF A DISEASE-SPECIFIC HEALTH UTILITY SCORE FOR CHRONIC OBSTRUCTIVE PULMONARY DISEASE FROM A DISCRETE CHOICE EXPERIMENT PATIENT PREFERENCE STUDY.
Jones B, Ryan M, Cook NS, Gutzwiller FS.

Measuring burden of disease in both asthma and COPD by merging the ACQ and CCQ: less is more?

Meaning in Life: A Novel Factor for Promoting Wellbeing in COPD.
Batzlaff C, Roy M, Hoult J, Benzo R.

Validation of the Onset of Effect Questionnaire in Participants With Chronic Obstructive Pulmonary Disease.
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Effectiveness of the Assessment of Burden of Chronic Conditions (ABCC)-tool in patients with asthma, COPD, type 2 diabetes mellitus, and heart failure: A pragmatic clustered quasi-experimental study in the Netherlands.

Disease Burden and Health-Related Quality of Life (HRQoL) of Chronic Obstructive Pulmonary Disease (COPD) in the US - Evidence from the Medical Expenditure Panel Survey (MEPS) from 2016-2019.
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Relationships between symptoms and lung function in asthma and/or chronic obstructive pulmonary disease in a real-life setting: the NOVEL observational longitudinal study.

Relationships between symptoms and lung function in asthma and/or chronic obstructive pulmonary disease in a real-life setting: the NOVEL observational longitudinal study.

INTERSTITIAL LUNG DISEASE

Smoking status and clinical outcome in idiopathic pulmonary fibrosis: a nationwide study.
Yoon HY, Kim H, Bae Y, Song JW.
Untreated Obstructive Sleep Apnea in Interstitial Lung Disease and Impact on Interstitial Lung Disease Outcomes.
Melani AS, Croce S, Messina M, Bargagli E.

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Proportion and predictors of FVC decline in patients with interstitial lung disease.

Changes in physical activity in people with idiopathic pulmonary fibrosis before and after virtual pulmonary rehabilitation: a feasibility study.
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Cardiovascular Structural and Functional Parameters in Idiopathic Pulmonary Fibrosis at Disease Diagnosis.
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Scoping review of exposure questionnaires and surveys in interstitial lung disease.
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Oxygen therapy for exercise capacity in fibrotic interstitial lung disease: A systematic review and meta-analysis of randomised controlled trials.
Lin LY, Wu YC, Wu JS, Tai HY, Huang TW, Cheng WH.

Validity and reliability of the Glittre-ADL test in individuals with idiopathic pulmonary fibrosis.
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Experiences of living with idiopathic pulmonary fibrosis in relation to physical activity - "How the hills became steeper and steeper": a qualitative interview study.
Jernås A, Fagevik Olsén M, Holmqvist E, Danielsbacka J.

Understanding the lived experience of idiopathic pulmonary fibrosis and how this shapes views on home-based pulmonary rehabilitation in Delhi, India.


Can FDG-PET/CT imaging be used to predict decline in quality of life in interstitial lung disease? A prospective study of the relationship between FDG uptake and quality of life in a UK outpatient setting.
Effect of Home-Based Pulmonary Rehabilitation on Pulmonary Fibrosis.
Saha R, Singh VP, Samuel SR, Acharya KV, Acharya PR, Kumar KV.

Abnormal Heart Rate Recovery and Chronotropic Incompetence With Exercise in Patients With Interstitial Lung Disease With and Without Pulmonary Hypertension.
Vaddoriya V, Khan SZ, Simonson JL, Gumpeni R, Talwar A.

Assessing How Patients Feel, Function, and Survive in Idiopathic Pulmonary Fibrosis (IPF): The Best Is the Enemy of the Good.
Stowasser S, Cosgrove GP, White E.

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Effect of breathing exercises on patients with interstitial lung disease: A systematic review and meta-analysis.
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Delineating excess comorbidities in idiopathic pulmonary fibrosis: an observational study.

Risk of Suicide in Individuals with Idiopathic Pulmonary Fibrosis: A Nationwide Cohort Study.
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Contribution of Obstructive Sleep Apnea to Asthmatic Airway Inflammation and Impact of Its Treatment on the Course of Asthma.
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Impact of patient support programmes among patients with severe asthma treated with biological therapies: a systematic literature review and indirect treatment comparison.

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Impact of Clinical Characteristics and Biomarkers on AIRQ Exacerbation Prediction Ability.

Health literacy and asthma: An update.
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Prevalence and burden of difficult-to-treat and severe asthma in Australia: A national population survey.
Davis SR, Ampon RD, Poulos LM, Lee T, Marks GB, Toelle BG, Reddel HK.

Effects of Asthma on the Performance of Activities of Daily Living: A Retrospective Study.
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Evaluation of physical activity before and after respiratory rehabilitation in normal weight individuals with asthma: a feasibility study.
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Mosnaim G, Carrasquel M, Snedden M, Oppenheimer J, Lang D, Rathkopf M.

Impact of Anxiety and Depression on the Level of Asthma Control Among Jordanian Adults with Asthma.

Associations between asthma and cognitive functioning among older adults. Does the age of asthma diagnosis matter? Results from the RAND IFLS-5 study.
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Relevance of individual bronchial symptoms for asthma diagnosis and control in patients with rhinitis: A MASK-air study.

**Nurses’ Role in the Control and Treatment of Asthma in Adults: A Systematic Literature Review.**

**The illness burden of severe asthma contrasted to people with mild-to-moderate asthma: a qualitative study.**

**Elderly and aged asthma have different characteristics: results of a multicenter study.**

**Predictors of exacerbation in Japanese patients with severe asthma: Analysis of the severe asthma research program (Okayama-SARP) cohort.**

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**Patient and public involvement workshop to shape artificial intelligence-supported connected asthma self-management research.**

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**Risk Factors for Acute Asthma Exacerbations in Adults with Mild Asthma.**


**Efficacy of a Structured Yoga Intervention Integrated with Routine Care versus Exercise on Pulmonary Function and Quality of Life of Asthma Patients: A Randomized Controlled Trial.**

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**Association of Cough Severity with Asthma Control and Quality of Life in Patients with Severe Asthma.**


**Treatable traits and exacerbation risk in patients with uncontrolled asthma prescribed GINA step 1-3 treatment: A nationwide asthma cohort study.**

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Understanding breathlessness burden and psychophysiological correlates in asthma.
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Characteristics of Severe Asthma in the Elderly: Observations From the Korean Severe Asthma Registry (KoSAR).

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Impact of Controlling Nutritional Status Score on Mortality in Elderly Patients with Idiopathic Pulmonary Fibrosis.

Body mass index is associated with clinical outcomes in idiopathic pulmonary fibrosis.
Yoon HY, Kim H, Bae Y, Song JW.

Glycemic Profile and Lipid Profile in Chronic Obstructive Pulmonary Disease (COPD) Patients With and Without Metabolic Syndrome.
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Nutritional Support in Malnourished Outpatients with Chronic Obstructive Pulmonary Disease (COPD): A Randomized Controlled Pilot Study.
Conway V, Hukins C, Sharp S, Collins PF.

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Exploring the Impact of Adequate Energy Supply on Nutrition, Immunity, and Inflammation in Elderly Patients with Chronic Obstructive Pulmonary Disease.
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An Ontology-Based Decision Support System for Tailored Clinical Nutrition Recommendations for Patients With Chronic Obstructive Pulmonary Disease: Development and Acceptability Study.
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BMI moderates the relationship between depression and chronic obstructive pulmonary disease: A cross-sectional survey.
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Integrative Approach to Risk Factors in Simple Chronic Obstructive Airway Diseases of the Lung or Associated with Metabolic Syndrome-Analysis and Prediction.

Predictive Roles of Basal Metabolic Rate and Muscle Mass in Lung Function among Patients with Obese Asthma: A Prospective Cohort Study.

Association of Obesity and Severe Asthma in Adults.
Olejnik AE, Kuźnar-Kamińska B.

ADVANCED DISEASE / END OF LIFE / PALLIATIVE CARE

Attitudes of Patients with Advanced Chronic Illnesses Toward Palliative Extubation in a Country Where It Is Illegal.

COPD patients' accessibility to palliative care: Current challenges and opportunities for improvement.
Gonçalves B, Harkess-Murphy E, Cund A, Sime C, Lusher J.

Early palliative care program in idiopathic pulmonary fibrosis patients favors at-home and hospice deaths, reduces unplanned medical visits, and prolongs survival: A pilot study.
In a Strained Healthcare System, Patients with Advanced COPD Struggle to Access the Needed Support from the Healthcare Professionals - A Qualitative Study.
Lavesen M, Paine M, Bove DG.

Provision of palliative care for people with chronic obstructive pulmonary disease: a narrative review.
Pascoe A, Buchan C, Smallwood N.

Dyspnea and Palliative Care in Advanced Chronic Obstructive Pulmonary Disease: A Rapid Review.
Miller SN, Higgins E, Cain J, Coyne P, Peacock R, Logan A, Fasolino T, Lindell KO.

Racial Differences in Palliative Care and Hospice Among Adults with Chronic Obstructive Pulmonary Disease.
Smirnova N, Cross SH, Light A, Kavalieratos D.

COMORBID CONDITIONS

Does Obstructive Sleep Apnea Lead to Progression of Chronic Obstructive Pulmonary Disease.
McNicholas WT.

Prevalence and Characteristics of Patients with Obstructive Sleep Apnea and Chronic Obstructive Pulmonary Disease: Overlap Syndrome.
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Atherosclerotic Coronary Plaque Features in Patients with Chronic Obstructive Pulmonary Disease and Acute Coronary Syndrome.

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The Increased Burden of Morbidity Over the Life-Course Among Patients with COPD: A Register-Based Cohort Study in Sweden.
Smith C, Hiyoshi A, Hasselgren M, Sandelowsky H, Stållberg B, Montgomery S.

EXACERBATIONS / HOSPITALISATIONS / MORTALITY

Obstructive Sleep Apnea Effects on Chronic Airway Disease Exacerbations-Missed Opportunities for Improving Outcomes in Chronic Obstructive Pulmonary Disease and Asthma.
Marin-Oto M, Marin JM.

Developing and validating prediction models for severe exacerbations and readmissions in patients hospitalised for COPD exacerbation (SERCO) in China: a prospective observational study.

Improving patient education in hospitalized patients with chronic obstructive pulmonary disease: A quality improvement initiative using LEAN methodology.

Cardiovascular events after exacerbations of chronic obstructive pulmonary disease: Results from the EXAcerbations of COPD and their OutcomeS in CardioVascular diseases study in Italy.

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Frailty and Exacerbation of Chronic Obstructive Pulmonary Disease: Is There Any Association?
Proposal for a 4-Level Classification System of Severe COPD Exacerbation According to Healthcare Resource Utilization.
Hillas G, Loukides S, Gogali A, Kostikas K.

Zhu M, Chen A.

Risk of pharmacological treatment of anxiety and depression after admission for acute exacerbation of chronic obstructive pulmonary disease.
Hermann Karlsen J, Jacobsen PA, Krågholm K, Torp-Pedersen C, Nielsen LB, Weinreich UM.

Risk of Cardiovascular Events after Acute Exacerbations of Chronic Obstructive Pulmonary Disease in Patients Receiving Long-Term Low-Dose Azithromycin.
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Acute COPD exacerbations and in-hospital treatment-related problems: An observational study.

Virtual Reality for COPD Exacerbation: A Randomized Controlled Trial.
Kizmaz E, Telli Atalay O, Çetin N, Uğurlu E.

Impact of Smoking and Chronic Obstructive Pulmonary Disease on All-Cause, Respiratory, and Cardio-Cerebrovascular Mortality.


COVID-19

Traditional, complementary and integrative medicine for fatigue post COVID-19 infection: A systematic review of randomized controlled trials.

Effects of pulmonary rehabilitation on functional and psychological parameters in post-acute sequelae of SARS-CoV-2 infection (PASC) patients.

The association of asthma and metabolic dysfunction with outcomes of hospitalized patients with COVID-19.


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Risk of cardiovascular events following COVID-19 in people with and without pre-existing chronic respiratory disease.


Pulmonary rehabilitation in follow-up and inpatient rehabilitation for Long COVID: twelve months of follow-up.
Rutsch M, Buhr-Schinner H, Gross T, Schüller PO, Deck R.

Function and activity capacity at 1 year after the admission to intensive care unit for COVID-19.
Hussain N, Hansson PO, Samuelsson CM, Persson CU.

Effectiveness of pulmonary rehabilitation programmes and/or respiratory muscle training in patients with post-COVID conditions: a systematic review.

PERSPECTIVES / STATEMENTS / EDITORIALS

Are the Brakes Off for Constant Work Rate Exercise Tests to Be Used in Regulatory Decision Making in Chronic Obstructive Pulmonary Disease?
Baldwin MM, Singh SJ.

Epidemiology of idiopathic pulmonary fibrosis: opportunities and hurdles for population-level studies of rare disease.
Marinescu DC, Wong AW.

Unmasking the hidden threat: COPD awareness and knowledge in Portugal.

Maintenance Pulmonary Rehabilitation: An Update and Future Directions.
Moy ML.
Respiratory Assist Devices in Pulmonary Rehabilitation.
Criner GJ.

Editorial: Future research questions for improving COPD diagnosis and care.
Sadaka AS, Faisal A, Garner JL, Elbehairey AF.

Treatable traits—Where we are, where we are headed.
McDonald VM, Gibson PG.

Winning the Tour de France with endobronchial valve therapy without pulmonary rehabilitation.
Strange C, Talley M.

Improving Wildfire Readiness Among Patients With Chronic Obstructive Pulmonary Disease and Asthma: Applying a Population Health Approach to Climate Change.
Kuhn BT, Gupta R.

Phenotype to Treatable Traits-Based Management in Chronic Obstructive Pulmonary Disease.
Kumar A, Kant S, Niranjan V.

Muscle Fatigability of Patients With Severe COPD and Chronic Respiratory Failure: The Contribution of Respiratory Factors.
Barreiro E, Gea J.
Dyspnea and Quality of Life Improvements with Management of Comorbid Obstructive Sleep Apnea in Chronic Lung Disease.
Ascher K, Shafazand S.

RV in COPD - The complicated matters of the heart - Correlation of ECHO and biomarker with COPD severity and outcome.

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Exploration of quantitative-effectiveness association between acupuncture temporal parameters and stable chronic obstructive pulmonary disease: A systematic review and dose-response meta-analysis of randomized controlled trials.

Perceived Spousal Support and Activities of Daily Living in Individuals With COPD.
Efil S, Kalkan Ugurlu Y, Akça Doğan D, Budak D.
The quality of life of patients with chronic obstructive pulmonary disease: a bibliometric analysis.

Developing and validating machine learning-based prediction models for frailty occurrence in those with chronic obstructive pulmonary disease.
Chen Y, Yu Y, Yang D, Zhang W, Kouritas V, Chen X.

Underdiagnosis of COPD: The Japan COPD Real-World Data Epidemiological (CORE) Study.

Facilitators and barriers to self-management in Iranian men with chronic obstructive pulmonary disease: a qualitative study.
Rafii F, Alinejad-Naeini M, Soleymani Babadi A, Shahriari E, Heidari Beni F.

Clinical Characteristics and 2-Year Outcomes of Chronic Obstructive Pulmonary Disease Patients With High Blood Eosinophil Counts: A Population-based Prospective Cohort Study in China.

Illness perceptions in relation to self-management behaviour among elderly patients with COPD: A cross-sectional study.

The importance of translational science within the respiratory field.
Neural Respiratory Drive During Different Dyspnea Relief Positions and Breathing Exercises in Individuals With COPD.

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