ERS literature update
May-June 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

Different Responses to Pulmonary Rehabilitation in COPD Patients with Different Work Efficiencies.

Inspiratory Muscle Training in Patients with Chronic Obstructive Pulmonary Disease (COPD) as Part of a Respiratory Rehabilitation Program Implementation of Mechanical Devices: A Systematic Review.

Effectiveness of a Home-Based Pulmonary Rehabilitation Program in Veterans.
Drwal KR, Hurst D, Wakefield BJ.

Clinical Effects of Rehabilitation on Balance in People With Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.

Effect of Pulmonary Rehabilitation on Postoperative Clinical Status in Patients with Lung Cancer and Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.
Physicians' Attitudes, Beliefs and Barriers to a Pulmonary Rehabilitation for COPD Patients in Saudi Arabia: A Cross-Sectional Study.

Efficacy and safety of pulmonary rehabilitation training on lung function, quality of life, and T cell immune function in patients with stable chronic obstructive pulmonary disease: a randomized controlled trial.


A pulmonary rehabilitation shared decision-making intervention for patients living with COPD: PReSent: protocol for a feasibility study.
Barradell AC, Singh SJ, Houchen-Wolloff L, Robertson N, Bekker HL.

Effect of inpatient rehabilitation treatment ingredients on functioning, quality of life, length of stay, discharge destination, and mortality among older adults with unplanned admission: an overview review.
Lambe K, Guerra S, Salazar de Pablo G, Ayis S, Cameron ID, Foster NE, Godfrey E, Gregson CL, Martin FC, Sackley C, Walsh N, Sheehan KJ.

Inequality in Pulmonary Rehabilitation - The challenges magnified by the COVID-19 pandemic.
Gardiner L, Singh S.
Cost-effectiveness of Pulmonary Rehabilitation Among US Adults With Chronic Obstructive Pulmonary Disease.
Mosher CL, Nanna MG, Jawitz OK, Raman V, Farrow NE, Aleem S, Casaburi R, MacIntyre NR, Palmer SM, Myers ER.

Implementing evidence into practice to improve chronic lung disease management in Indigenous Australians: the breathe easy, walk easy, lungs for life (BE WELL) project (protocol).
Meharg DP, Jenkins CR, Maguire GP, Jan S, Shaw T, Dennis SM, McKeough Z, Lee V, Gwynne KG, McCowen D, Rambaldini B, Alison JA.

Effect Analysis of Lung Rehabilitation Training in 5A Nursing Mode for Elderly Patients with COPD Based on X-Ray.
Xu P, Zheng W, Zhu Y.

Li T, Chen J.

EXERCISE TESTING AND TRAINING

Optimising the Dyspnoea Challenge: exertional dyspnoea responses to changing treadmill gradients.
Aitken CR, Walsh J, Sabapathy S, Adams L, Morris NR, Stewart GM.

Minimal important difference of two methods for assessment of quadriceps femoris strength post exercise program in individuals with COPD.
Santin L, Fonseca J, Hirata RP, Hernandez NA, Pitta F.

Decreased Tongue Strength is Related to Skeletal Muscle Mass in COPD Patients.

Respiratory Oscillometry in Chronic Obstructive Pulmonary Disease: Association with Functional Capacity as Evaluated by Adl Glittre Test and Hand Grip Strength Test. 
Ribeiro CO, Lopes AJ, de Melo PL. 

Whole-body and muscle responses to aerobic exercise training and withdrawal in ageing and COPD. 
Latimer LE, Constantin-Teodosiu D, Popat B, Constantin D, Houchen-Wolloff L, Bolton CE, Steiner MC, Greenhaff PL. 

Integrating Chronic Obstructive Pulmonary Disease Treatment With 8-Week Tai Chi Chuan Practice: An Exploration of Mind-Body Intervention and Neural Mechanism. 
Shen H, Chen LZ, Hu Z, Yao X, Yang T, Zhang L, Tu Q, Li G, Wei GX. 

Cut-off of the one-minute sit-to-stand test to detect functional impairment in people with chronic obstructive pulmonary disease. 
Souto-Miranda S, Antão J, Rodrigues G, Mendes MA, Spruit MA, Marques A. 

Patient Values Associated with an Exergame Supporting COPD Treatment. 
Oberschmidt K, Broekhuis M, Grünloh C. 

Hand Grip Strength and Likelihood of Moderate-to-Severe Airflow Limitation in the General Population. 
Kim S, Yoon HK, Rhee CK, Jung HW, Lee H, Jo YS. 
Upper Limb Anaerobic Metabolism Capacity is Reduced in Mild and Moderate COPD Patients.
Iamonti VC, Souza GF, Castro AAM, Porto EF, Cruz LGB, Colucci E, Colucci M, Sarmento A, Nascimento OA, Jardim JR.

Monthly Follow-Ups of Functional Status in People with COPD: A Longitudinal Study.

Cardiopulmonary exercise testing versus pulmonary function test in the assessment of respiratory impairment in chronic obstructive pulmonary disease patients.
Salama S, Mohamed-Hussein AA, Magdy DM, Salama A.

Optimal Cut-Off Points of 4-meter Gait Speed to Discriminate Functional Exercise Capacity and Health Status in Older patients with Chronic Obstructive Pulmonary Disease.
Ozsoy I, Kodak MI, Zerman N, Kararti C, Erturk A.

PHYSICAL ACTIVITY

Association between physical activity and dynapenia in older adults with COPD: a nationwide survey.
Choi YA, Lee JS, Kim YH.

Associations Between Physical Activity, Smoking Status, and Airflow Obstruction and Self-Reported COPD: A Population-Based Study.
Wu YK, Su WL, Yang MC, Chen SY, Wu CW, Lan CC.

Loss of Neural Automaticity Contributes to Slower Walking in COPD Patients.
Hassan SA, Bonetti LV, Kasawara KT, Stanbrook MB, Rozenberg D, Reid WD.
Evaluation of a Digital COPD Education Program for Healthcare Professionals in Long-Term Care - A Mixed Methods Study.
Nyberg A, Lundell S, Pesola UM, Audulv Å, Wadell K.

Effect of a Telerehabilitation program in sarcoidosis.
Cerdan de Las Heras J, Balbino F, Catalán-Matamoros D, Løkke A, Hilberg O, Bendstrup E.

Evaluating the Feasibility and Pretesting the Impact of an Educational and Telemonitoring Program for COPD Patients in Lebanon.

COVID-19 pandemic impact on telehealth use and perceptions for atopic and respiratory disease: Survey results.

Effects of home-based telehealth on the physical condition and psychological status of patients with chronic obstructive pulmonary disease: A systematic review and meta-analysis.
Song CY, Liu X, Wang YQ, Cao HP, Yang Z, Ma RC, Yin YY, Xie J.

The Long-Term Maintenance Effect of Remote Pulmonary Rehabilitation via Social Media in COPD: A Randomized Controlled Trial.
Li Y, Qian H, Yu K, Huang Y.

Additive effects of coexisting respiratory comorbidities on overall or respiratory mortality in patients with asthma: a national cohort study.

Understanding Online and Offline Social Networks in Illness Management of Older Patients With Asthma and Chronic Obstructive Pulmonary Disease: Mixed Methods Study Using Quantitative Social Network Assessment and Qualitative Analysis.
Andreou A, Dhand A, Vassilev I, Griffiths C, Panzarasa P, De Simoni A.
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Effectiveness of a home telemonitoring program for patients with chronic obstructive pulmonary disease in Germany: Evidence from the first three years.
Hofer F, Schreyögg J, Stargardt T.

Leveraging telemedicine to reduce the financial burden of asthma care.

Stakeholder Mapping on the Development of Digital Health Interventions for Self-Management Among Patients with Chronic Obstructive Pulmonary Disease in China.
An Q, Kelley MM, Yen PY.

Remote patient monitoring in the management of chronic obstructive pulmonary disease.
Chalupsky MR, Craddock KM, Schivo M, Kuhn BT.

Impact of a Home Telehealth Program After a Hospitalized COPD Exacerbation: A Propensity Score Analysis.
A Pharmacy-Based eHealth Intervention Promoting Correct Use of Medication in Patients With Asthma and COPD: Nonrandomized Pre-Post Study.

Virtual respiratory therapy delivered through a smartphone app: a mixed-methods randomised usability study.
Baxter CA, Carroll JA, Keogh B, Vandelanotte C.

Patients, caregivers, and healthcare professionals' needs when designing the content of a mobile application for the clinical monitoring of patients with chronic obstructive pulmonary disease and home oxygen therapy: A user-centered design.
Naranjo-Rojas A, Perula-de-Torres LÁ, Molina-Recio G.

PATIENT REPORTED OUTCOME MEASURES

European Portuguese Language and Cultural Validation of the Chronic Obstructive Pulmonary Disease Assessment Test.

Evaluation of the Norwegian version of the Dyspnoea-12 questionnaire in patients with COPD.
Garratt AM, Nerheim EM, Einvik G, Stavem K, Edvardsen A.

Ambulatory oxygen therapy with documented self-monitoring of oxygen use improves health status among patients with chronic obstructive pulmonary disease.
Kim Y, Park HY, Rhee CK, Min KH, Yoo KH, Lim SY, Kim YH, Jang SH, Jung KS, Hwang YI.

Efficacy of a Self-Designed Questionnaire for Community Screening of COPD.
How to Utilize CAT and mMRC Scores to Assess Symptom Status of Patients with COPD in Clinical Practice?
Ertan Yazar E, Nıksarılıoglu EY, Yıgıtbas B, Bayraktaroğlu M.

INTERSTITIAL LUNG DISEASE

A Retrospective, Descriptive Study of Dyspnea Management in a Multidisciplinary Interstitial Lung Disease Clinic.

Idiopathic Pulmonary Fibrosis (an Update) and Progressive Pulmonary Fibrosis in Adults: An Official ATS/ERS/JRS/ALAT Clinical Practice Guideline.
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Developing a conceptual model of symptoms and impacts in progressive fibrosing interstitial lung disease to evaluate patient-reported outcome measures.
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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.

Behavioural and psychological patterns of patients with idiopathic pulmonary fibrosis: a prospective study.

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Malnutrition and decreased food intake at diagnosis are associated with hospitalization and mortality of idiopathic pulmonary fibrosis patients.

Effects of different exercise training programs on the functional performance in fibrosing interstitial lung diseases: A randomized trial.
Essam H, Abdel Wahab NH, Younis G, El-Sayed E, Shafiek H.

Impact of the revised definition on incidence and outcomes of acute exacerbation of idiopathic pulmonary fibrosis.
Yoo JW, Kim J, Song JW.

Impact of lung function and baseline clinical characteristics on patient-reported outcome measures in systemic sclerosis-associated interstitial lung disease.

**Oxygen Therapy during Exercise in Patients with Interstitial Lung Diseases.**

**Interstitial lung diseases specific measures in exercise interventions: a systematic review of measurement properties.**

**Features and predictive value of 6-min walk test outcomes in interstitial lung disease: an observation study using wearable monitors.**

**When should palliative care be introduced for people with progressive fibrotic interstitial lung disease? A meta-ethnography of the experiences of people with end-stage interstitial lung disease and their family carers.**

**Impact of Early Referral to Palliative Care in Patients with Interstitial Lung Disease.**

**Development and applicability of a dignity-centred palliative care programme for people with idiopathic pulmonary fibrosis: A qualitative-driven mixed methods study.**

**Physiotherapy management of interstitial lung disease.**
Ageing with Interstitial lung disease: preserving health and well being.

ASTHMA

Experiences of exercise in patients with asthma: qualitative analysis of discussions in a UK asthma online community.

Asthma and comorbidities: recent advances.

Asthma: interactions between obesity and other risk factors.

Exacerbations among patients with asthma are largely dependent on the presence of multimorbidity.

The Role of Access And Cost-Effectiveness in Managing Asthma: A Systematic Review.

Chronic cough in asthma is associated with increased airway inflammation, more comorbidities, and worse clinical outcomes.


Determinants of uncontrolled asthma among adult asthmatic patients on follow-up at chest clinic of Jimma medical center: unmatched case-control study.


Physical activity, sleep, and quality of life of patients with asthma during the COVID-19 pandemic.
Daşdemir KA, Suner-Keklik S. 

Can electronic monitoring with a digital smart spacer support personalised medication adherence and inhaler technique education in patients with asthma?: Protocol of the randomised controlled OUTERSPACE trial. 
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Association of longitudinal changes in quality of life with comorbidities and exacerbations in patients with severe asthma. 

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Exercise Training Programs Improve Cardiorespiratory and Functional Fitness in Adults With Asthma: A SYSTEMATIC REVIEW AND META-ANALYSIS. 
Valkenborghs SR, Anderson SL, Scott HA, Callister R. 

The Impact of Biofeedback on Self-Efficacy in Adults with Asthma: A Cross-Sectional Descriptive Survey. 
Walsh J, Moore Z, Mac Hale E, Greene G, Doyle F, Costello RW, Murray B. 

Effect of Routine Therapy Assisted by Physical Exercise on Pulmonary Function in Patients with Asthma in Stable Stage: A Systematic Review and Meta-analysis of Randomized Clinical Trials. 
Li X, Mao C, Pan Y. 
Association of Reduced BMI, length of hospital stay, mortality, and malnutrition diagnosis in COPD patients with acute exacerbation: A secondary analysis of a cohort study.
Bernardes S, Teixeira PJZ, Silva FM.

Relationship of body mass index on activities of daily living in hospitalized patients with chronic obstructive pulmonary disease.
Tomohara-Ichishima H, Wakabayashi H, Maeda K, Nishioka S, Momosaki R.

Physical Activity, Exercise Capacity, and Body Composition in U.S. Veterans with Chronic Obstructive Pulmonary Disease (COPD).

A multistrain probiotic improves handgrip strength and functional capacity in patients with COPD: A randomized controlled trial.
Karim A, Muhammad T, Shahid Iqbal M, Qaisar R.

Oxidative Stress and Total Phenolics Concentration in COPD Patients-The Effect of Exercises: A Randomized Controlled Trial.
Domaszewska K, Górna S, Pietrzak M, Podgórski T.

Quantitative computed tomography-based evaluation of skeletal muscle and presence of sarcopenia in patients with chronic obstructive pulmonary disease.
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Zhang W, Li W, Du J.
ADVANCED DISEASE / END OF LIFE / PALLIATIVE CARE

A Systematic Review of the Development and Implementation of Needs-Based Palliative Care Tools in Heart Failure and Chronic Respiratory Disease.
Waller A, Hobden B, Fakes K, Clark K.

Advance Care Planning Needs in Idiopathic Pulmonary Fibrosis: A Qualitative Study.
Kalluri M, Orenstein S, Archibald N, Pooler C.

The Role of Palliative Care in COPD.
Iyer AS, Sullivan DR, Lindell KO, Reinke LF.

Nurses' symptom management and views on death and caring for heart failure and chronic obstructive pulmonary disease.
Matsui M.

Toward a digital decision- and workflow-support system for initiation and control of long-term non-invasive ventilation in stable hypercapnic COPD patients.

COMORBID CONDITIONS

Age- and gender-based comorbidity categories in general practitioner and pulmonology patients with COPD.
Kim-Dorner SJ, Schmidt T, Kuhlmann A, Graf von der Schulenburg JM, Welte T, Lingner H.
Frequency and Associated Factors of Suicidal Ideation in Patients with Chronic Obstructive Pulmonary Disease.
Roncero C, Pérez J, Molina J, Quintano JA, Campuzano Al, Pérez J, Miravitlles M.

Chronic obstructive pulmonary disease is associated with a higher risk of functional gastrointestinal disorders.
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Depressive and anxiety symptoms in patients with COPD: A network analysis.

PREVALENCE AND IMPACT OF COMORBIDITIES IN INDIVIDUALS WITH COPD: A SYSTEMATIC REVIEW.
Santos NCD, Miravitlles M, Camelier AA, Almeida VDC, Maciel RRBT, Camelier FWR.

Sex-specific associations of comorbidome and pulmorbidome with mortality in chronic obstructive pulmonary disease: results from COSYCONET.

Association of chronic obstructive pulmonary disease with mild cognitive impairment and dementia risk: A systematic review and meta-analysis.
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The prevalence of oropharyngeal dysphagia in patients with chronic obstructive pulmonary disease: a systematic review and meta-analysis.
Non-respiratory symptom dominance is associated with depression in patients with chronic obstructive pulmonary disease.
Hamakawa Y, Sato S, Tanabe N, Rhee CK, Jung KS, Yoo KH, Tanimura K, Muro S, Hirai T.

Anxiety and Depression in Chronic Obstructive Pulmonary Disease: Perspectives on the Use of Hypnosis.
Anlló H, Larue F, Herer B.

The Association between RS Time in Electrocardiogram and Right Ventricular Functions in Patients with Chronic Obstructive Pulmonary Disease.
Yildiz I, Ozmen Yildiz P, Sazlidere H, Gurevin MS, Rencuzogullari I, Karabag Y.

Osteoporosis in COPD patients: Risk factors and pulmonary rehabilitation.
Li Y, Gao H, Zhao L, Wang J.

Nomograms for Predicting Coexisting Cardiovascular Disease and Prognosis in Chronic Obstructive Pulmonary Disease: A Study Based on NHANES Data.


Outcomes associated with comorbid anxiety and depression among patients with stable COPD: A patient registry study in China.
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Impact of anxiety and depression on the prognosis of copd exacerbations.


Physiological effects of high-intensity versus low-intensity noninvasive positive pressure ventilation in patients with acute exacerbation of chronic obstructive pulmonary disease: a randomised controlled trial.

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Clinical impact of vital sign abnormalities in patients admitted with acute exacerbation of chronic obstructive pulmonary disease: an observational study using continuous wireless monitoring.

REducing delay through edUcation on eXacerbations for people with chronic lung disease: Study protocol of a single-arm pre-post study.

Relationship between risk, cumulative burden of exacerbations and mortality in patients with COPD: modelling analysis using data from the ETHOS study.

High-flow nasal cannula versus conventional oxygen therapy in acute COPD exacerbation with mild hypercapnia: a multicenter randomized controlled trial.
Development and validation of a multivariable mortality risk prediction model for COPD in primary care.
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The Impact of COPD on Hospitalized Patients with Diabetes: A Propensity Score Matched Analysis on Discharge Records.
Di Martino G, Di Giovanni P, Cedrone F, Michela D, Meo F, Scampoli P, Romano F, Stanisca T.

Predicting 30-Day Readmission Risk for Patients With Chronic Obstructive Pulmonary Disease Through a Federated Machine Learning Architecture on Findable, Accessible, Interoperable, and Reusable (FAIR) Data: Development and Validation Study.

Risk of COPD exacerbation is increased by poor sleep quality and modified by social adversity.

Race and Sex Differences in Mortality in Individuals with Chronic Obstructive Pulmonary Disease.
Krishnan JK, Rajan M, Banerjee S, Mallya SG, Han MK, Mannino DM, Martinez FJ, Safford MM.

Chronic obstructive pulmonary disease and the mortality risk in male older adults: Role of socioeconomic factors.
Nogimura A, Noguchi T, Otani T, Kamiji K, Yasuoka M, Watanabe R, Ojima T, Kondo K, Kojima M.

The prevalence and assessment of pain and dyspnoea in acute exacerbations of COPD: A systematic review.


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

Hospitalised versus outpatient COVID-19 patients' background characteristics and comorbidities: A systematic review and meta-analysis.
Mattey-Mora PP, Begle CA, Owusu CK, Chen C, Parker MA.

Short and Long-Term Impact of COVID-19 Infection on Previous Respiratory Diseases.

Mortality among Patients with SARS-CoV-2 and Different Interstitial Lung Disease Subtypes: A Multicenter Cohort Study.
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Using Big Data to Identify Impact of Asthma on Mortality in Patients with COVID-19.
Lyu J, Cui W, Finkelstein J.

Clinical Features and Outcomes Associated with Bronchial Asthma Among COVID-19 Hospitalized Patients.
Diaz MA, Catalan-Caceres N, Beauprathuy TC, Domingo C, Ibañez E, Morata C, De Diego A.

Susceptibility of Patients with Asthma to Poor Outcome of COVID-19.
Persson C.
Impact of COVID-19 pandemic on asthma exacerbations: Retrospective cohort study of over 500,000 patients in a national English primary care database.
Shah SA, Quint JK, Sheikh A.

**LONG-TERM IMPACT OF COVID-19**

An online breathing and wellbeing programme (ENO Breathe) for people with persistent symptoms following COVID-19: a parallel-group, single-blind, randomised controlled trial.

Evaluating the Efficiency of Breathing Exercises via Telemedicine in Post-Covid-19 Patients: Randomized Controlled Study.
Okan F, Okan S, Duran Yücesoy F.

Long COVID burden and risk factors in 10 UK longitudinal studies and electronic health records.

PERSPECTIVES / STATEMENTS / EDITORIALS

Screening for Chronic Obstructive Pulmonary Disease: Challenges and Opportunities.
Bhatt SP, O'Connor GT.

Sing out for COPD!
Soriano JB, Hopkinson NS.
**Body Composition and Pulmonary Diseases.**
Lavie CJ, Sanchis-Gomar F, Neeland IJ.

**The Changing Definition and Perception of COPD.**
Mannino DM.

**Finding the Value of a Respiratory Therapist Home Visit Program for COPD.**
Baker JA.

**Chronic Obstructive Pulmonary Disease and the Physical Examination.**
Abraham RA, Brinker SK.

**Prevalence and health status of COPD in rural West Bengal.**
Ghosh RK, Saha D, Sarma M, Bhattacharyya P, Majumdar S, Chowdhury A, Bhattacharyya P.

**Severity distribution and treatment of chronic obstructive pulmonary disease in China: baseline results of an observational study.**

**Clinical and Psychological Impact of Chronic Pain in People with Chronic Obstructive Pulmonary Disease.**

**Evaluation of respiratory rate monitoring performance using a home oxygen monitoring device among patients with interstitial lung disease and chronic obstructive pulmonary disease.**
Evaluation of retinal microvasculature according to stable chronic obstructive pulmonary disease severity and the correlation of pulmonary parameters with optical coherence tomography angiography findings.
Kurtul BE, Cakmak AI, Kasapoglu Dilek E, Dikmen N.

Sleep quality in COPD patients: correlation with disease severity and health status.
Clímaco DCS, Lustosa TC, Silva MVFP, Lins-Filho OL, Rodrigues VK, Oliveira-Neto LAP, Feitoso ADM, Queiroga FJP Jr, Cabral MM, Pedrosa RP.

Multidisciplinary Care and Prognosis in Patients With COPD and Interstitial Lung Disease Prescribed Long-Term Oxygen Therapy.
Harrison AC, Robinson JF, Tu L, McDonald CF, Khor YH.

Perceptions of Individuals With Chronic Lung Disease on Home Use of Pulse Oximetry.
Joshi E, Mann JM, Goodwin ME, Collins AL, Atkins NE, Khor YH, McDonald CF.

Exploring influencing factors of chronic obstructive pulmonary disease based on elastic net and Bayesian network.
Quan D, Ren J, Ren H, Linghu L, Wang X, Li M, Qiao Y, Ren Z, Qiu L.

Chronic obstructive pulmonary disease.
Christenson SA, Smith BM, Bafadhel M, Putcha N.

Ethical Dilemmas in Physicians' Consultations with COPD Patients.
Sigurgeirsdottir J, Halldorsdottir S, Arnardottir RH, Gudmundsson G, Bjornsson EH.
Static and Dynamic Postural Characteristics in Patients with Chronic Obstructive Pulmonary Disease: The Relationship with Dyspnea and Pulmonary Functions.
Naz I, Aktas B, Sahin H, Ozer Kaya D.

Physiological changes related to 10 weeks of singing for lung health in patients with COPD.

Limitations of a 6-min walk test to assess the efficacy of menthol for breathlessness.
Kanezaki M, Ebihara S.
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The use of menthol for breathlessness: a hot topic full of fresh ideas.
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Determinants in the Underdiagnosis of COPD in Spain-CONOCEPOC Study.
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Predictors of chronic obstructive pulmonary disease in women who have never smoked: a cohort study.
Engel RM, de Luca K, Graham PL, Kaboli Farshchi M, Vemulpad S, Byles J.
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Diaphragm Dysfunction and Rehabilitation Strategy in Patients With Chronic Obstructive Pulmonary Disease.

Barriers and Facilitators for Smoking Cessation in Chinese Smokers with Chronic Obstructive Pulmonary Disease: A Qualitative Study.
Diaphragmatic Movement at Rest and After Exertion: A Non-Invasive and Easy to Obtain Prognostic Marker in COPD.
Mekov E, Yanev N, Kurtelova N, Mihalova T, Tsakova A, Yamakova Y, Miravitlles M, Petkov R.
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Exploration of the feasibility to combine patients with chronic obstructive pulmonary disease and chronic heart failure in self-management groups with focus on exercise self-efficacy.
Giezeman M, Theander K, Zakrisson AB, Sundh J, Hasselgren M.

Patients' and their caregivers' experiences with regular, low-dose, sustained-release morphine for chronic breathlessness associated with COPD: a qualitative study.
Ferreira D, Kochovska S, Honson A, Phillips J, Currow D.

Factors associated with health status and exacerbations in COPD maintenance therapy with dry powder inhalers.

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Role of Socioeconomic Factors on Physical and Mental Distress Reported by Alabama Adults with COPD.
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Effectiveness of interventions targeting treatable traits for the management of obstructive airway diseases: a systematic review and meta-analysis.

How do illness identity, patient workload and agentic capacity interact to shape patient and caregiver experience? Comparative analysis of lung cancer and chronic obstructive pulmonary disease.

Potential Explanatory Factors for the Concurrent Experience of Dyspnea and Pain in Patients with COPD.

The Relationship of Partial Pressure of Carbon Dioxide (PaCO₂) with Disease Severity Indicators Such as BODE and GOLD in Hospitalized COPD Patients.

Health-Screening-Based Chronic Obstructive Pulmonary Disease and Its Effect on Cardiovascular Disease Risk.

Hypercapnia in COPD: Causes, Consequences, and Therapy.
Efficacy of Acupuncture on Quality of Life, Functional Performance, Dyspnea, and Pulmonary Function in Patients with Chronic Obstructive Pulmonary Disease: Protocol for a Randomized Clinical Trial.

Improving Physiological, Physical, and Psychological Health Outcomes: A Narrative Review in US Veterans with COPD.
Bamonti PM, Robinson SA, Wan ES, Moy ML.

Asthma, Chronic Obstructive Pulmonary Disease (COPD), and Asthma-COPD overlap among US working adults.
Syamlal G, Dodd KE, Mazurek JM.

CT Attenuation and Cross-Sectional Area of the Pectoralis Are Associated With Clinical Characteristics in Chronic Obstructive Pulmonary Disease Patients.

Cross-sectional study of pain-related variables before and during the COVID-19 pandemic in patients with COPD.

Cost-Effectiveness of an Extended Home Visit Program for Oxygen-Dependent COPD Patients.
Lacasse Y, Bernard S, Maltais F, Nguyen VH.

Global disease burden of COPD from 1990 to 2019 and prediction of future disease burden trend in China.
Hu W, Fang L, Zhang H, Ni R, Pan G.