ERS literature update
May-June 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

Understanding the Patient Experience of Home-Based Pulmonary Rehabilitation With Health Coaching for COPD: A Qualitative Interview Study.
Midthun WR, Benzo MV, Ridgeway JL, Benzo RP.

Pulmonary Rehabilitation Using Minimal Equipment for People With Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.
Cheng SWM, McKeough ZJ, McNamara RJ, Alison JA.

The effects of nurse-led family pulmonary rehabilitation intervention on quality of life and exercise capacity in rural patients with COPD.
Zhang M, Mao X, Li F, Xianyu Y.

Home-Based Pilot Pulmonary Program for Dyspneic Patients Post-COVID-19.

Assessment of Noninvasive Oxygen Saturation in Patients with COPD during Pulmonary Rehabilitation: Smartwatch versus Pulse Oximeter.
Støve MP, Graversen AH, Sørensen J.

Effects of Early Pulmonary Rehabilitation on Hospitalized Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.
Lu HY, Chen CF, Lee DL, Tsai YJ, Lin PC.
**Feasibility, effectiveness and safety of self-management in pulmonary rehabilitation: a study protocol using a hybrid type 1 effectiveness-implementation design.**
Ricke E, Dijkstra A, Bakker EW.

**Effectiveness and quality of life in lung cancer, pre-, post- and perioperative rehabilitation - A review.**
Abidi Y, Fekete M, Farkas Á, Horváth A, Varga JT.

**Pulmonary rehabilitation and physical interventions.**
Troosters T, Janssens W, Demeyer H, Rabinovich RA.

**Pulmonary rehabilitation and endothelial function in patients with chronic obstructive pulmonary disease: A prospective cohort study.**

**The effects of pulmonary rehabilitation on inflammatory biomarkers in patients with chronic obstructive pulmonary disease: Protocol for a systematic review and meta-analysis.**

**Effect of Pulmonary Rehabilitation on COPD Assessment Test Items in Individuals Classified as GOLD Group E.**
Vitacca M, Paneroni M, Spanevello A, Maniscalco M, Diasparra A, Aliani M, Ambrosino N.

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**EXERCISE TESTING AND TRAINING**

Efficacy of aerobic training and resistance training combined with external diaphragm pacing in patients with chronic obstructive pulmonary disease: A randomized controlled study.


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.
Yang Y, Yang L, Yang X, Tian Y.

Pernot J, Ribon A, Degano B.

Validity, Reproducibility, and Minimal Detectable Difference of the Functional Upper Extremity Function Test - Simplified Version - for Adults With Moderate-Severe Asthma and COPD.

Efficacy of Traditional Chinese exercise (Baduanjin) on patients with stable COPD: A Systematic review and Meta-analysis.
Shuai Z, Xiao Q, Ling Y, Zhang Y, Zhang Y.

Validity and clinical applicability of the 60-second sit-to-stand test in people with acute exacerbations of COPD.
McDonald O, Perraton L, Osadnik C.

The minimal important difference of the constant work rate cycle test in severe COPD.
van der Molen MC, Slebos DJ, Augstijn SWS, Kerstjens HAM, Hartman JE.

Analysing the Effects of Different Types of Exercise on Dyspnoea and Fatigue in Adults through COPD-Systematic Review and Meta-Analysis of Randomised Clinical Trials.
Couto N, Cid L, Alves S, Brito JP, Pimenta N, Bento T.
Understanding the effectiveness of different exercise training programme designs on VO2peak in COPD: a component network meta-analysis.
Ward TJ, Plumptre CD, Fraser-Pye AV, Dolmage TE, Jones AV, Trethewey R, Latimer L, Singh SJ, Lindley MR, Steiner MC, Evans RA.

A virtual reality-based endurance training program for COPD patients: acceptability and user experience.
Colombo V, Mondellini M, Fumagalli A, Aliverti A, Sacco M.

Ventilation dynamics using a portable device coupled to the six-minute walk test in people with long-COVID syndrome: a preliminary study.
Oliveira JGM, Campos RP, Azevedo BLPA, de Alegria SG, Litrento PF, Mafort TT, Lopes AJ.

Minimally Important Difference of the 20-m 6-Min Walk Test in Individuals With COPD.
Klein SR, Munari AB, Karloh M, Mucha FC, Silva IJ, Mayer AF.

Residual effects of 12 weeks of power-oriented resistance training plus high-intensity interval training on muscle dysfunction, systemic oxidative damage, and antioxidant capacity after 10 months of training cessation in older people with COPD.

Meditative movement for breathlessness in advanced COPD or cancer: a systematic review and meta-analysis.
Nolan CM, Brighton LJ, Mo Y, Bayly J, Higginson IJ, Man WD, Maddocks M.

Predictors of cardiopulmonary exercise testing in COPD patients according to Weber classification.
Caruso FR, Goulart CDL, Jr JCB, de Oliveira CR, Mendes RG, Arena R, Borghi-Silva A.
Xiong T, Bai X, Wei X, Wang L, Li F, Shi H, Shi Y.

PHYSICAL ACTIVITY

Change in physical activity related to admission for exacerbation in COPD patients.

Do Functional Tests Estimate Physical Activity in COPD?
Correia NS, Oliveira JM, Schneider LP, Morita AA, Pitta F, Furlanetto KC.

Relationship Between Physical Activity and Adult Asthma Control Using NHANES 2011-2020 Data.
Ye W, Li X, Huang Y.

Depression Symptoms and Physical Activity in Veterans With COPD: Insights From a Web-Based, Pedometer-Mediated Physical Activity Intervention.
Bamonti PM, Perndorfer C, Robinson SA, Mongiardo MA, Wan ES, Moy ML.

Physical Activity, Exercise Capacity and Sedentary Behavior in People with Alpha-1 Antitrypsin Deficiency: A Scoping Review.
O'Shea O, Casey S, Giblin C, Stephenson A, Carroll TP, McElvaney NG, McDonough SM.

Moderate-vigorous physical activity and all-cause mortality in COPD: could bouts matter?
Cox NS, Burge AT, Holland AE.
Implementation of digital home monitoring and management of respiratory disease.
Pinnock H, Hui CY, van Boven JFM.

Telerehabilitation in pulmonary diseases.
Cox NS, Khor YH.

Mobile Health Pulmonary Rehabilitation Compared to a Center-Based Program for Cost-Effectiveness and Effects on Exercise Capacity, Health Status, and Quality of Life in People with Chronic Obstructive Pulmonary Disease: A Protocol for a Randomized Controlled Trial.
Wootton SL, Dale MT, Alison JA, Brown S, Rutherford H, Chan ASL, Varnfield M, Yang IA, Cunich M, Dennis S, McKeough ZJ.

Telehealth and telemedicine in the management of adult patients after hospitalization for COPD exacerbation: a scoping review.
Rezende LC, Ribeiro EG, Parreiras LC, Guimarães RA, Reis GMD, Carajá AF, Franco TB, Mendes LPS, Augusto VM, Silva KL.

Telemedicine and home monitoring for COPD - a narrative review of recent literature.
Poberezhets V, Kasteleyn MJ.

Assessing Equitable Recruitment in a Digital Health Trial for Asthma.
Robinson SA, Bamonti P, Richardson CR, Kadri R, Moy ML.

Impact of a digital web-based asthma platform, a real-life study.
Genberg EM, Viitanen HT, Mäkelä MJ, Kautiainen HJ, Kauppi PM.

Usability of a mobile application for the clinical follow-up of patients with chronic obstructive pulmonary disease and home oxygen therapy.
Naranjo-Rojas A, Perula-de Torres LÁ, Cruz-Mosquera FE, Molina-Recio G.

Patient-Assessed Quality of Virtual Consultations as Follow-Up on Long-Term Oxygen Therapy for Patients With COPD.
Schmidt HC, Christensen HM.

Feasibility of a Virtual Reality App to Promote Pulmonary Rehabilitation.
Finkelstein J, Parvanova I, Huo X.

Patient Perspectives on Long-Term Use of a Pulmonary Telerehabilitation Platform: A Qualitative Analysis.
Gabriel AS, Parvanova I, Finkelstein J.

Application of the RE-AIM framework to evaluate the implementation of telehealth pulmonary rehabilitation in a randomized controlled trial among African-American and Hispanic patients with advanced stage Chronic Obstructive Pulmonary Disease.

The feasibility of remotely monitoring physical, cognitive, and psychosocial function in individuals with stroke or chronic obstructive pulmonary disease.


Digital health in chronic obstructive pulmonary disease.
Long H, Li S, Chen Y.

Assessing real-world gait with digital technology? Validation, insights and recommendations from the Mobilise-D consortium.

Cost-effectiveness of personalised telehealth intervention for chronic disease management: A pilot randomised controlled trial.
Mudiyanselage SB, Stevens J, Toscano J, Kotowicz MA, Steinfort CL, Hayles R, Watts JJ.

Video Education Program for Proper use of Inhalation Devices in Elderly COPD Patients.
Zhu H, Qin S, Wu M.

Long-Term Usage and Improved Clinical Outcomes with Adoption of a COPD Digital Support Service: Key Findings from the RECEIVER Trial.

PATIENT REPORTED OUTCOME MEASURES

PANDORA dyadic project: hope, spiritual well-being and quality of life of dyads of patients with chronic obstructive pulmonary disease in Switzerland - a multicentre longitudinal mixed-methods protocol study.
The use of patient-reported outcome measures by healthcare professionals in specialized asthma management centers in French-speaking Belgium: A mixed-methods study.
Louis G, Voz B, Guillaume M, Kirkove D, Pétré B.

Cross-sectional validation of the COPD Assessment Test (CAT) among chronic obstructive pulmonary disease patients in rural Uganda.

High burden of symptoms reported among patients diagnosed with chronic obstructive pulmonary disease (COPD) in Greenland after introducing the COPD Assessment Test in clinical practice.
Nielsen MH, Lynge AR, Pedersen ML.

The COPD Assessment Test (CAT) and Depression: A Longitudinal Analysis During the COVID-19 Pandemic.
Beech A, Singh D.

Establishing the Validity of Using the COPD Assessment Test to Screen for Fatigue in People with Chronic Obstructive Pulmonary Disease Referred to Pulmonary Rehabilitation.
Reizes Z, McNamara RJ, Dale M, McKeough Z.

Factors associated with quality of life in patients receiving lung transplantation: a cross-sectional study.
Takahashi R, Takahashi T, Okada Y, Kohzuki M, Ebihara S.

**INTERSTITIAL LUNG DISEASE**

Contemporary Concise Review 2021: Interstitial lung disease.


The relationship between interstitial lung abnormalities, mortality, and multimorbidity: a cohort study.
Nocturnal hypoxemia associates with symptom progression and mortality in patients with progressive fibrotic interstitial lung disease.
Myall KJ, West AG, Martinovic JL, Lam JL, Roque D, Wu Z, Maher TM, Molyneaux PL, Suh ES, Kent BD.

Thoracic pain in patients with chronic interstitial lung disease—an underestimated symptom.

Characteristics of idiopathic pulmonary fibrosis-associated cough. A case-control study.

Comparison of clinical scoring to predict mortality risk in mild-to-moderate idiopathic pulmonary fibrosis.

Mood disorder in idiopathic pulmonary fibrosis: response to pulmonary rehabilitation.

Understanding patient experience of chronic cough in interstitial lung disease.
Mann JMV, Holland AE, Goh NSL, Khor YH.

The relationship between perceived and performance fatigability in severe fibrotic interstitial lung disease: a prospective, cross-sectional study.

External validation and longitudinal application of the DO-GAP index to individualise survival prediction in idiopathic pulmonary fibrosis.

Treatable traits: a comprehensive precision medicine in interstitial lung disease.

Interstitial lung disease: a decade of progress and hope.

Clinical trial simulations in pulmonary fibrosis: patient-focused insights and adaptations.

Respiratory and non-respiratory symptoms in patients with IPF or sarcoidosis and controls.

An observational cohort study of interstitial lung abnormalities (ILAs) in a large Japanese health screening population (Kumamoto ILA study in Japan: KILA-J).

Incidence and prevalence of interstitial lung diseases worldwide: a systematic literature review.


Global Disease Burden and Attributable Risk Factor Analysis of Asthma in 204 Countries and Territories From 1990 to 2019.

Symptoms of anxiety and depression in patients with persistent asthma: a cross-sectional analysis of the INSPIRERS studies.

Ethnic variation in asthma healthcare utilisation and bation: systematic review and meta-analysis.

The ATLAS ASMA Study: Assessing the Impact of Asthma on Patients' Life - The Spanish Patients' Perspective.

Under-perception of airflow limitation, self-efficacy, and beliefs in older adults with asthma.

Effects of Oxidative Stress on Airway Epithelium Permeability in Asthma and Potential Implications for Patients with Comorbid Obesity.
Kim HR, Ingram JL, Que LG.

Medication Adherence in People with Asthma: A Qualitative Systematic Review of Patient and Health Professional Perspectives.


Frequency and functional consequences of low appendicular lean mass and sarcopenic obesity in patients with asthma referred for pulmonary rehabilitation.

GINA Implementation Improves Asthma Symptoms Control and Lung Function: A Five-Year Real-World Follow-Up Study.
Tho NV, Quan VTT, Dung DV, Phu NH, Dinh-Xuan AT, Lan LTT.

Inflammatory bowel disease and asthma. Results from the RHINE study.

Advances in the work of multidisciplinary teams for the care of patients with severe uncontrolled asthma. A post-COVID vision (TEAM 2.0 project).

Cluster analysis of Finnish population-based adult-onset asthma patients.

Extreme weather and asthma: a systematic review and meta-analysis.
Makrufardi F, Manullang A, Rusmawatiningtyas D, Chung KF, Lin SC, Chuang HC.

Obesity associates with increased all-cause and cardiovascular mortality in adults with asthma.
Sturesson A, Hedman L, Stridsman C, Lindberg A, Rönmark E, Backman H.
Assessing the interrelationship between asthma and obesity self-management behaviors.

Sleepwalking towards more harm from asthma.
Jenkins CR, Bardin PG, Blakey J, Hancock KL, Gibson P, McDonald VM.

Yang H, Lin P, Liang Z.

Symptom Burden, Health Status, and Productivity in Patients with Uncontrolled and Controlled Severe Asthma in NOVELTY.
Ding B, Chen S, Srivastava D, Quinton A, Cook W, Papi A, Reddel HK; List of NOVELTY Scientific Community members; List of NOVELTY study investigators.

Cough and cough hypersensitivity as treatable traits of asthma.

An electronic shared decision-making app to improve asthma outcomes: a randomized controlled trial.

Exercise and physical activity for asthma management: The European Academy of Allergy and Clinical Immunology perspective.
Price OJ, Del Giacco S, Gawlik R, Janson C, Odemyr M, Papadopoulos NG, Bonini M.
Phase angle in assessment and monitoring treatment of individuals with respiratory disease.

Metabolic Syndrome among Stable Chronic Obstructive Pulmonary Disease Patients Visiting Outpatient Department of a Tertiary care centre: A Descriptive Cross-sectional Study.

The role of diet and nutrition in the management of COPD.

Associations of the inflammatory diet index and smoking status with the risk of chronic obstructive pulmonary disease and lung cancer.

The Relationship Between Prognostic Nutritional Indexes and the Clinical Outcomes of Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease.

Healthy eating index (HEI) as the predictor of asthma: Findings from NHANES.

Targeting Skeletal Muscle Dysfunction With L-Carnitine for the Treatment of Patients With Chronic Obstructive Pulmonary Disease.
Systematic Review of Models of Effective Community Specialist Palliative Care Services for Evidence of Improved Patient-Related Outcomes, Equity, Integration, and Health Service Utilization.

European Respiratory Society Clinical Practice Guideline: Palliative care for people with chronic obstructive pulmonary disease or interstitial lung disease.

COMORBID CONDITIONS

Cognitive decline and risk of dementia in older adults after diagnosis of chronic obstructive pulmonary disease.
Rosso A, Månsson T, Egervall K, Elmståhl S, Overton M.

Association Between Comorbid Psychiatric Disorders and Persistent Smoking After a Diagnosis of Chronic Obstructive Pulmonary Disease Among Patients Seeking Treatment at a Tertiary Care Hospital in India.
Uikey MS, Dayal P.

Functional capacity and inflammatory biomarkers as predictors for right atrial volume index in COPD patients.
Khedr L, Khedr NF, Werida RH.

Decreased Cardiac Autonomic Function is Associated with Higher Exacerbation Risk and Symptom Burden in Chronic Obstructive Pulmonary Disease.
Exercise oscillatory ventilation in patients with coexisting chronic obstructive pulmonary disease and heart failure: Clinical implications.
Goulart CDL, Silva RN, Agostoni P, Franssen FME, Myers J, Arena R, Borghi-Silva A. 

EXACERBATIONS / HOSPITALISATIONS / MORTALITY

Trends in prevalence and the effects on hospital outcomes of dementia in patients hospitalized with acute COPD exacerbation.

The Experiences of Individuals With a History of Acute Exacerbations of COPD and Their Thoughts on Death: Empirical Qualitative Research.
Ceyhan Y. 

Association of Prefrailty and Frailty With All-Cause Mortality, Acute Exacerbation, and Hospitalization in Patients With Chronic Obstructive Pulmonary Disease: A Meta-Analysis.
Xu J, Xu W, Qiu Y, Gong D, Man C, Fan Y. 

Is One Exacerbation Enough to Modify Therapy in COPD?
Mannino DM. 

FVC/DLCO identifies pulmonary hypertension and predicts 5-year all-cause mortality in patients with COPD.

EXAcerbations of COPD and their OutcomeS on CardioVascular diseases (EXACOS-CV) Programme: protocol of multicountry observational cohort studies.
A Novel Metabolic Score for Predicting the Acute Exacerbation in Patients with Chronic Obstructive Pulmonary Disease.

Association of rural living with COPD-related hospitalizations and deaths in US veterans.
Fortis S, Gao Y, Baldomero AK, Sarrazin MV, Kaboli PJ.

Microalbuminuria on admission for acute exacerbation of COPD as a predictor of all-cause mortality and future exacerbations.
Bartziokas K, Kyriakopoulos C, Dounousi E, Kostikas K.

Predictors of poor clinical outcomes including in-hospital death and low ability to perform activities of daily living at discharge in hospitalized patients with chronic obstructive pulmonary disease exacerbation.
Murakami Y, Yasui H, Sato J, Uto T, Inui N, Suda T, Imokawa S.

Ottawa Risk Scale in Predicting the Outcome of Chorionic Obstructive Pulmonary Disease Exacerbation in Emergency Department; a Diagnostic Accuracy Study.
Alavi-Moghaddam M, Partovinezhad H, Dasdar S, Farjad M.

Application of the Rome severity classification of COPD exacerbations in a real-world cohort of hospitalised patients.
Reumkens C, Endres A, Simons SO, Savelkoul PHM, Sprooten RTM, Franssen FME.

COPD Exacerbation: Why It Is Important to Avoid ICU Admission.
Prediletto I, Giancotti G, Nava S.
Risk Factors of Readmission Within 90 Days for Chronic Obstructive Pulmonary Disease Patients with Frailty and Construction of an Early Warning Model.
Li J, Ma X, Zeng X, Zhou C, Zhu T.

Are We Missing the Opportunity to Disseminate GOLD Recommendations Through AECOPD Discharge Letters?

Mortality and readmission risk for hospitalised patients with acute exacerbation of COPD with and without spirometric obstruction: a longitudinal observational study in China.

Breathlessness and exercise performance to predict mortality in long-term oxygen therapy - The population-based DISCOVERY study.

Outcomes of hospitalized patients with COPD exacerbation with bronchiectasis compared to COPD exacerbation and bronchiectasis exacerbation patients.
Baig SH, Stephen MJ.

Prognostic Nutritional Index (PNI) as a Potential Prognostic Tool for Exacerbation of COPD in Elderly Patients.

Impact of offspring and their educational level on readmission and death among older adults with chronic obstructive pulmonary disease: a nationwide cohort study using multistate survival models.
Sloth MMB, Neble Larsen E, Godtfredsen NS, Osler M, Jørgensen TSH.
Association between antidepressants with pneumonia and exacerbation in patients with COPD: a self-controlled case series (SCCS).
Siraj RA, Bolton CE, McKeever TM.

All-Cause, Cardiovascular and Respiratory Mortality in People with Type 2 Diabetes and Chronic Obstructive Pulmonary Disease (COPD) in England: A Cohort Study Using the Clinical Practice Research Datalink (CPRD).
Raslan AS, Quint JK, Cook S.

Value of integrated pulmonary index to predict exacerbation of chronic obstructive pulmonary Disease's severity.
Karaarslan FN, Öztürk ZS, Işık GÇ, Çevik Y.

Whittaker H, Rothnie KJ, Quint JK.

Enhancing potential impact of hospital discharge interventions for patients with COPD: a qualitative systematic review.
Nygård T, Wright D, Nazar H, Haavik S.

Liew CQ, Hsu SH, Ko CH, Chou EH, Herrala J, Lu TC, Wang CH, Huang CH, Tsai CL.

Validation of the Rome proposal for severity of acute exacerbation of chronic obstructive pulmonary disease.


**COVID-19**

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


Effectiveness of a telerehabilitation intervention using ReCOVery APP of long COVID patients: a randomized, 3-month follow-up clinical trial.

Symptoms burden and rehabilitation preference after an episode of COVID-19: A patients survey.
Alhotye M, Daynes E, Gerlis C, Singh SJ.

Year in Review: Long COVID and Pulmonary Rehabilitation.
Burnett DM, Skinner CE.

Longobardi I, Goessler K, de Oliveira Júnior GN, Prado DMLD, Santos JVP, Meletti MM, de Andrade DCO, Gil S, Boza JASO, Lima FR, Gualano B, Roschel H.

Use of symptom-guided physical activity and exercise rehabilitation for COVID-19 and other postviral conditions.
Ladlow P, Barker-Davies R, Hill O, Conway D, O'Sullivan O.

Multiple manifestations of uncontrolled asthma increase the risk of severe COVID-19.

Randomised, controlled, open-label pragmatic trial evaluating changes in functional exercise capacity after primary care PULmonary REhabilitation in patients with long COVID: protocol of the PuRe-COVID trial in Belgium.
Development of a Definition of Postacute Sequelae of SARS-CoV-2 Infection.
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Improved clinical outcomes in response to a 12-week blended digital and community-based long-COVID-19 rehabilitation programme.

The Complex Association between COPD and COVID-19.

Gloeckl R, Leitl D, Schneeberger T, Jarosch I, Koczulla AR.


Ventilation dynamics using a portable device coupled to the six-minute walk test in people with long-COVID syndrome: a preliminary study.
Oliveira JGM, Campos RP, Azevedo BLPA, de Alegria SG, Litrento PF, Mafort TT, Lopes AJ.

Effectiveness of exercise training on the dyspnoea of individuals with long COVID: A randomised controlled multicentre trial.
Pre- and post-vaccination characteristics and risk factors for COVID-19 outcomes in a Swedish population-based cohort of COPD patients.
Kirui BK, Santosa A, Vanfleteren LEGW, Li H, Franzén S, Stridsman C, Nyberg F.
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Additive benefit of rehabilitation on physical status, symptoms and mental health after hospitalisation for severe COVID-19 pneumonia.

Skeletal Muscle Weakness: A Novel Treatable Trait in Asthma?
Kankaanranta H, Ilmarinen P.

Maintenance programmes following pulmonary rehabilitation in idiopathic pulmonary fibrosis: exercise, drugs and rock n' roll.
Nolan CM.

Improving Outcomes in Difficult Asthma: Watch and Weight.
Diver S, Green RH.

Looking Beyond BMI Classifications With Complementary Assessment of Body Composition in COPD.
Rozenberg D, Maddocks M.

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The Importance of the Diaphragm in Neuromotor Function in the Patient with Chronic Obstructive Pulmonary Disease.
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Merlo JR, Backus D.

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Early NK.

Respiratory Care Management of COPD Exacerbations.
Hess DR.

Sleep, the Forgotten, yet Potentially Modifiable Dimension in COPD Care.
Stewart NH, Press VG, Donovan L.

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Pulmonary Rehabilitation in COPD: Medicine’s Best Kept Secret That Could Save Medicare a Billion Dollars a Year.
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Oxygen Therapy in COPD.
Hess MW.
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Understanding COPD Etiology, Pathophysiology, and Definition.
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The Role of Pulmonary Function Testing in the Diagnosis and Management of COPD.
Haynes JM, Kaminsky DA, Ruppel GL.
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Christenson SA.
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Burden of Disease in Patients with Mild or Mild-to-Moderate Chronic Obstructive Pulmonary Disease (Global Initiative for Chronic Obstructive Lung Disease Group A or B): A Systematic Literature Review.
Effects of breathing exercises in patients with chronic obstructive pulmonary disease: A network meta-analysis.
Cai Y, Ren X, Wang J, Ma B, Chen O.

Development of a targeted behavioral treatment for smoking cessation among individuals with Chronic Obstructive Pulmonary Disease.
Mathew AR, Avery EF, Cox C, Nwanah P, Kalhan R, Hitsman B, Powell LH.

The association between sleep duration, respiratory symptoms, asthma, and COPD in adults.
Ruan Z, Li D, Cheng X, Jin M, Liu Y, Qiu Z, Chen X.


Palliation of Dyspnea with Mouthpiece Ventilation in Patients with Chronic Obstructive Pulmonary Disease: A Pilot Feasibility Study.
Leivo-Korpela S, Rantala HA, Piili RP, Lehtimäki L, Lehto JT.

What do you mean, 'negotiating?'\*: Patient, physician, and healthcare professional experiences of navigating hierarchy in networks of interprofessional care.
Macdonald G, Asgarova S, Hartford W, Berger M, Cristancho S, Nimmon L.

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Prevalence and clinical impact of frailty in COPD: a systematic review and meta-analysis.
Wang L, Zhang X, Liu X.

COPD-Related Fatigue: A Scoping Review.
Clark LA, Reed R, Corazzini KN, Zhu S, Renn C, Jennifer Klinedinst N.

Investigation and Analysis of Risk Factors and Psychological Status of Chronic Obstructive Pulmonary Disease in Permanent Residents Aged 40 or Older in Hongyuan County, Aba Prefecture, Sichuan Province.
Xia JJ, Zou XX, Qiu Y, Li WJ, Huang L, Xie WY, Xue HH, Yang M.

Changes in Lung Volumes with Spirometric Disease Progression in COPD.

COPD in Africa: risk factors, hospitalisation, readmission and associated outcomes—a systematic review and meta-analysis.
Njoku CM, Hurst JR, Kinsman L, Balogun S, Obamiro K.

Clinical characteristics of chronic obstructive pulmonary disease in never-smokers: A systematic review.
A systematic review of behaviour change techniques in pharmacist-delivered self-management interventions towards patients with chronic obstructive pulmonary disease.
Jamil N, Zainal ZA, Alias SH, Chong LY, Hashim R.

Impact of Marijuana Smoking on COPD Progression in a Cohort of Middle-Aged and Older Persons.

The association of spirometric small airways obstruction with respiratory symptoms, cardiometabolic diseases, and quality of life: results from the Burden of Obstructive Lung Disease (BOLD) study.

The impact of the duration of the integrated disease management program on COPD-related outcomes.
Lin CH, Li YR, Wang BY, Lin SH, Huang KY, Chen CH, Kor CT.

Obesity, Charlson comorbidity index, and neutrophil-to-lymphocyte ratio in chronic obstructive pulmonary disease: relationship to disease severity.
Uzunlar EA, Yildiran H, Kokturk N, Kilic H, Hasanoglu HC.

Comparison of High-Flow Nasal Cannula with Conventional Oxygen Therapy in Patients with Hypercapnic Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.
Zhang L, Wang Y, Ye Y, Gao J, Zhu F, Min L.
Comparison of Two Frailty Assessment Methods and Their Association with Functionality in Subjects with Exacerbation of COPD.
Morita AA, Munhoz RF, Guzzi GL, Probst VS.

Zhu M, Sim J, Okada C, Kim J, Abraham N.

Cluster analyses from the real-world NOVELTY study: six clusters across the asthma-COPD spectrum.

GBD 2019 Chronic Respiratory Diseases Collaborators.

Mental health and sleep quality among patients with asthma and COPD.
Aldabayan YS.

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The role of loneliness in the association between chronic physical illness and depressive symptoms among older adults: A prospective cohort study.
Differences in Characteristics Between Physical Frailty Assessments in Chronic Obstructive Pulmonary Disease: A Multicenter Cross-Sectional Observational Study.

Definitions of Chronic Obstructive Pulmonary Disease and COPD Exacerbation: A Modified Delphi Survey.
Park YB, Lee JH, Ra SW, Park HY, Jung JY, Kang YA, Rhee CK, Kim DK, Yoo KH, Il HY, Lim SY, Lee JS, Jo KW, Oh YM.

Diagnostic spirometry in COPD is increasing, a comparison of two Swedish cohorts.

Health literacy interventions among patients with chronic diseases: A meta-analysis of randomized controlled trials.

Assessment of health status and its correlation with lung function in patients with COPD: a study from a tertiary care centre in north India.
Gupta A, Garg K, Chopra V, Singh SP.

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Soriano JB, Horner A, Studnicka M, Sin DD, Puhan MA, Spruit MA, Lamprecht B.

Inhaled Corticosteroids and Risk of Cardiovascular Disease in Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Regression.
Personal and community-level exposure to air pollution and daily changes in respiratory symptoms and oxygen saturation among adults with COPD.

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