ERS literature update
July-August 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

Self-management and integrated pulmonary care as an essential part of treatment of patients with chronic obstructive pulmonary disease.
Dębczyński M, Guziejko K, Mróz RM.

Effect of cardiopulmonary rehabilitation nursing on exercise endurance and quality of life of stable COPD patients.

Application of traditional Chinese and Western medicine combined with chronic disease management in pulmonary rehabilitation and evaluation of efficacy.

Effectiveness of pulmonary rehabilitation in patients with chronic obstructive pulmonary disease after lobectomy due to non-small cell lung cancer - a single-center retrospective study.
Klimczak M, Piekielny D, Antczak A, Śmigielski J, Tworek D.


Effect of Pulmonary Rehabilitation on Erector Spinae Muscles in Individuals With COPD.
Long-Term Benefits of Adding a Pedometer to Pulmonary Rehabilitation for COPD: The Randomized Controlled STAR Trial.

The effect of pulmonary rehabilitation on physical performance and health related quality of life in patients with chronic lung disease.
Vinan-Vega M, Mantilla B, Yang S, Nugent K.

Rapid access rehabilitation after exacerbations of COPD - A qualitative study.

Long-term Exercise After Pulmonary Rehabilitation (LEAP): a pilot randomised controlled trial of Tai Chi in COPD.
Moy ML, Wayne PM, Litrownik D, Beach D, Klings ES, Davis RB, Pinheiro A, Yeh GY.

Expert consensus and operational guidelines on exercise rehabilitation of chronic obstructive pulmonary disease with integrating traditional Chinese medicine and Western medicine.

Association Between Initiation of Pulmonary Rehabilitation and Rehospitalizations in Patients Hospitalized with COPD.
Stefan MS, Pekow PS, Priya A, ZuWallack R, Spitzer KA, Lagu TC, Pack QR, Pinto-Plata VM, Mazor KM, Lindenauer PK.

Tailored or adapted interventions for adults with chronic obstructive pulmonary disease and at least one other long-term condition: a mixed methods review.
Dennett EJ, Janjua S, Stovold E, Harrison SL, McDonnell MJ, Holland AE.
The Role of Occupational Therapy in Pulmonary Rehabilitation Programs: Protocol for a Scoping Review.

Pulmonary rehabilitation outcomes in individuals with chronic obstructive pulmonary disease: a systematic review.

Pulmonary Rehabilitation and Readmission Rates for Medicare Beneficiaries with Acute Exacerbation of Chronic Obstructive Pulmonary Disease.

Feasibility, tolerance and effects of adding impact loading exercise to pulmonary rehabilitation in people with chronic obstructive pulmonary disease: study protocol for a pilot randomised controlled trial.

Pulmonary rehabilitation training for improving pulmonary function and exercise tolerance in patients with stable chronic obstructive pulmonary disease.

Virtual Reality Technology Combined with Comprehensive Pulmonary Rehabilitation on Patients with Stable Chronic Obstructive Pulmonary Disease.

Pulmonary Rehabilitation in the Management of Chronic Obstructive Pulmonary Disease among Asian Indians- Current Status and Moving Forward.
Exploring the barriers to pulmonary rehabilitation for patients with chronic obstructive pulmonary disease: a qualitative study.
Sami R, Salehi K, Hashemi M, Atashi V.

Frailty Impact during and after Pulmonary Rehabilitation.
Finamore P, Scarlata S, Delussu AS, Traballesi M, Incalzi RA, Laudisio A.

Conceptual validation of an innovative remote pulmonary rehabilitation solution for Chronic Obstructive Pulmonary Disease.

EXERCISE TESTING AND TRAINING

Experiences of a home-based fall prevention exercise program among older adults with chronic lung disease.
Chauvin S, Durocher E, Richardson J, Beauchamp MK.

Association between Sleep Duration and Hand Grip Strength among COPD Patients.

Muscle mass and function are related to respiratory function in chronic obstructive pulmonary disease.
Ahmadi A, Mazloom Z, Eftekhari MH, Masoompour SM, Fararouei M, Eskandari MH, Mehrabi S, Zare M, Sohrabi Z.

Exercise Capacity, Ventilatory Response, and Gas Exchange in COPD Patients With Mild to Severe Obstruction Residing at High Altitude.
Gonzalez-Garcia M, Barrero M, Maldonado D.

Tai Chi for Chronic Obstructive Pulmonary Disease (COPD): An Overview of Systematic Reviews.
Chronic obstructive pulmonary disease does not impair responses to resistance training.

Effect of high-flow nasal cannula oxygen therapy in patients with chronic obstructive pulmonary disease: A meta-analysis.
Duan L, Xie C, Zhao N.

Effects of High and Moderate-Intensity Interval Training on Pulmonary and Performance Parameters in Miners Suffering From Chronic Obstructive Pulmonary Diseases.
Batajrobe A, Ahmadi MM, Mogharnasi M.

CT-defined emphysema in COPD patients and risk for change in desaturation status in 6-min walk test.

Acute Cardiopulmonary and Muscle Oxygenation Responses to Normocapnic Hyperpnea Exercise in COPD.
Oueslati F, Saey D, Vézina FA, Nadreau É, Martin M, Maltais F.

Accompanied versus unaccompanied walking for continuous oxygen saturation measurement during 6-min walk test in COPD: a randomised crossover study.
Riegler TF, Frei A, Haile SR, Radtke T.

The correlation between quadriceps muscle strength and endurance and exercise performance in patients with COPD.


PHYSICAL ACTIVITY


Six-week behaviour change intervention to reduce sedentary behaviour in people with chronic obstructive pulmonary disease: a randomised controlled trial.

Correlation of symptoms and physical activity level in chronic obstructive pulmonary disease patients: results from the observational SPACE study.

Co-occurrence of pain and dyspnea in Veterans with COPD: Relationship to functional status and a pilot study of neural correlates using structural and functional magnetic resonance imaging.

Pain in Veterans with COPD: relationship with physical activity and exercise capacity.

Environmental Correlates of Physical Activity, Sedentary Behavior, and Self-Rated Health in Chronic Obstructive Pulmonary Disease.

Comparative assessment of ActiGraph data processing techniques for measuring sedentary behavior in adults with COPD.

A machine learning approach to predict extreme inactivity in COPD patients using non-activity-related clinical data.

The Influence of Pulmonary Rehabilitation and Counselling on Perceptions of Physical Activity in Individuals with COPD - A Qualitative Study. 

Objectively Measured Physical Activity in Patients with COPD: Recommendations from an International Task Force on Physical Activity. 

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

Issue in Remote Assessment of Lung Disease and Impact on Physical and Mental Health (RALPMH): Protocol for Prospective Observational Study. 

Validation of COPDPredict™: Unique Combination of Remote Monitoring and Exacerbation Prediction to Support Preventative Management of COPD Exacerbations. 

A Systematic Review and Meta-Analysis of Telemonitoring Interventions on Severe COPD Exacerbations. 
The Performance of Digital Monitoring Devices for Oxygen Saturation and Respiratory Rate in COPD: A Systematic Review.
Mehdipour A, Wiley E, Richardson J, Beauchamp M, Kuspinar A.

Machine Learning Methods for the Diagnosis of Chronic Obstructive Pulmonary Disease in Healthy Subjects: Retrospective Observational Cohort Study.
Muro S, Ishida M, Horie Y, Takeuchi W, Nakagawa S, Ban H, Nakagawa T, Kitamura T.

Effectiveness of eHealth Interventions in Improving Medication Adherence for Patients With Chronic Obstructive Pulmonary Disease or Asthma: Systematic Review.
Schulte MHJ, Aardoom JJ, Loheide-Niesmann L, Verstraete LLL, Ossebaard HC, Riper H.
J Med Internet Res. 2021 Jul 27;23(7):e29475. doi: 10.2196/29475.

Incorporating remote patient monitoring in virtual pulmonary rehabilitation programs.
Jangalee JV, Ghasvareh P, Guenette JA, Road J.

The effect of repeated video-training session on metered dose inhaler skills among individuals with COPD: Prospective randomised controlled study.
Yildiz E, Çeçen S, Lafci D, Eker A.

The Role of Telemedicine in Extending and Enhancing Medical Management of the Patient with Chronic Obstructive Pulmonary Disease.
Donner CF, ZuWallack R, Nici L.

Cost-effectiveness of a telemonitoring program (telEPOC program) in frequently admitted chronic obstructive pulmonary disease patients.

Digital Inhalers for Asthma or Chronic Obstructive Pulmonary Disease: A Scientific Perspective.
Chan AHY, Pleasants RA, Dhand R, Tilley SL, Schworer SA, Costello RW, Merchant R.
Video Telehealth Pulmonary Rehabilitation for COPD is Associated with Clinical Improvement Similar to Center Based Pulmonary Rehabilitation.
Bhatt SP, Baugh D, Hitchcock J, Kim YI, Cutter G, Aban I, Dransfield MT.

Cross Sectional E-Health Evaluation Study for Telemedicine and M-Health Approaches in Monitoring COVID-19 Patients with Chronic Obstructive Pulmonary Disease (COPD).
Alsharif AH.

Telemonitoring of daily activities compared to the six-minute walk test further completes the puzzle of oximetry-guided interventions.

Adherence to an eHealth Self-Management Intervention for Patients with Both COPD and Heart Failure: Results of a Pilot Study.

User-centered design of a scalable, electronic health record-integrated remote symptom monitoring intervention for patients with asthma and providers in primary care.

PATIENT REPORTED OUTCOME MEASURES

The COPD assessment test and the modified Medical Research Council scale are not equivalent when related to the maximal exercise capacity in COPD patients.


The association between sleep quality, health status, and disability due to breathlessness in COPD patients.

Roles of the physical environment in health-related quality of life in patients with chronic obstructive pulmonary disease.

What conservative interventions can improve the long-term quality of life, depression, and anxiety of individuals with stable COPD? A systematic review and meta-analysis.

Reliability of the Thai version of the International Physical Activity Questionnaire Short Form in chronic obstructive pulmonary disease.

INTERSTITIAL LUNG DISEASE


Outcomes of Idiopathic Pulmonary Fibrosis Improve with Obesity: A Rural Appalachian Experience.
Body mass index and in-hospital mortality in patients with acute exacerbation of idiopathic pulmonary fibrosis.

Al Chikhanie Y, Veale D, Verges S, Hérengt F.

Reliability and validity of the Glittre-ADL test to assess the functional status of patients with interstitial lung disease.
Alexandre HF, Cani KC, Araújo J, Mayer AF.

Global incidence and prevalence of idiopathic pulmonary fibrosis.
Maher TM, Bendstrup E, Dron L, Langley J, Smith G, Khalid JM, Patel H, Kreuter M.

Comorbidities of Patients With Idiopathic Pulmonary Fibrosis in Four Latin American Countries. Are There Differences by Country and Altitude?

Self-management for pulmonary fibrosis: Insights from people living with the disease and healthcare professionals.
Lee JYT, Tikellis G, Glaspole I, Khor YH, Symons K, Holland AE.

Pectoralis muscle area and its association with indices of disease severity in interstitial lung disease.
Validation and minimum important difference of the UCSD Shortness of Breath Questionnaire in fibrotic interstitial lung disease.

Cutoff Points for Step Count to Predict 1-year All-Cause Mortality in Patients with Idiopathic Pulmonary Fibrosis.

Mortality Associated with Idiopathic Pulmonary Fibrosis in Northeastern Italy, 2008-2020: A Multiple Cause of Death Analysis.
Marcon A, Schievano E, Fedeli U.

Minimal clinically important difference in idiopathic pulmonary fibrosis.
Kang M, Marts L, Kempker JA, Veeraraghavan S.

Early Intervention of Pulmonary Rehabilitation for Fibrotic Interstitial Lung Disease Is a Favorable Factor for Short-Term Improvement in Health-Related Quality of Life.

The use of online visual analogue scales in idiopathic pulmonary fibrosis.
Moor CC, Mostard RLM, Grutters JC, Bresser P, Wijsenbeek MS.

All-cause mortality of patients with idiopathic pulmonary fibrosis: a nationwide population-based cohort study in Korea.
Ko S, Choi SM, Han KD, Lee CH, Lee J.

**Early diagnosis of fibrotic interstitial lung disease: challenges and opportunities.**

**Feasibility and Outcomes of a Standardized Management Protocol for Acute Exacerbation of Interstitial Lung Disease.**

**A scoping review of palliative care outcome measures in interstitial lung disease.**

**Translation, cross-cultural adaptation, and measurement properties of the Brazilian-Portuguese version of the idiopathic pulmonary fibrosis-specific version of the Saint George's Respiratory Questionnaire (SGRQ-I) for patients with interstitial lung disease.**

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

**Associations between occupational and environmental exposures and organ involvement in sarcoidosis: a retrospective case-case analysis.**

**Care programs and their components for patients with idiopathic pulmonary fibrosis: a systematic review.**
Delameilliere A, Vandekerkhof S, Van Grootven B, Wuyts WA, Dobbels F.
Palliative Care for the Interstitial Lung Disease Patient a Must and Not Just a Need.
Chaaban S, McCormick J, Gleason D, McFarlin JM.

Gender Differences in Idiopathic Pulmonary Fibrosis: Are Men and Women Equal?

Patient Reported Experiences and Delays During the Diagnostic Pathway for Pulmonary Fibrosis: A Multinational European Survey.

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

Physical activity decline is disproportionate to decline in pulmonary physiology in IPF.
Prasad JD, Paul E, Holland AE, Glaspole IN, Westall GP.

Sex Differences in the Incidence and Outcomes of Patients Hospitalized by Idiopathic Pulmonary Fibrosis (IPF) in Spain from 2016 to 2019.
FEF(25-75)% is a more sensitive measure reflecting airway dysfunction in patients with asthma: a comparison study using FEF(25-75)% and FEV(1).

The correlation between self-related adherence, asthma-related quality of life and control of asthma in adult patients.
Zairina E, Nugraheni G, Achmad GNV, Sulistyarini A, Nita Y, Bakhtiar A, Amin M.

Community knowledge and attitude in recognizing asthma symptoms and using medication for asthma attacks: a cross-sectional study.
Puspitasari AD, Prabawati BM, Rosyid AN.

Health-Related Quality of Life and Productivity Among US Patients with Severe Asthma.
Soong W, Chipps BE, O’Quinn S, Trevor J, Carr WW, Belton L, Trudo F, Ambrose CS.

A community-based cross-sectional study on knowledge, attitude, and perceptions about asthma among healthy adults in rural South India.
Daniel J, Inbaraj LR, Jenkins S, Ramamurthy PH, Isaac R.

High but stable incidence of adult-onset asthma in northern Sweden over the last decades.

Barriers to implementing asthma self-management in Malaysian primary care: qualitative study exploring the perspectives of healthcare professionals.

Asthma patients' and physicians' perspectives on the burden and management of asthma.

From Progressive Asthma to Intensive Care Unit Respiratory Failure: Approaches Nursing Approach to Patient Care. 
Liu D, Lin Y. 

Interrelationship Between Obstructive Sleep Apnea Syndrome and Severe Asthma: From Endo-Phenotype to Clinical Aspects. 
Ragnoli B, Pochetti P, Raie A, Malerba M. 

Defining a severe asthma super-responder: findings from a Delphi process. 

Patients' and Clinicians' Perceived Trust in Internet-of-Things Systems to Support Asthma Self-management: Qualitative Interview Study. 
Hui CY, McKinstry B, Fulton O, Buchner M, Pinnock H. 

Towards an Asthma Patient-Reported Outcome Measure for use in Digital Remote Monitoring. 
Rudin RS, Qureshi N, Foer D, Dalal AK, Edelen MO. 

Among respiratory symptoms, wheeze associates most strongly with impaired lung function in adults with asthma: a long-term prospective cohort study. 
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Prevalence of hyperventilation in patients with asthma. 
Deenstra DD, van Helvoort HAC, Djamin RS, van Zelst C, In 't Veen JCCM, Antons JC, Spruit MA, van 't Hul AJ.
Positive change in asthma control using therapeutic patient education in severe uncontrolled asthma: a one-year prospective study.
Zhang X, Lai Z, Qiu R, Guo E, Li J, Zhang Q, Li N.

Effect of influenza vaccination in patients with asthma.

"The Feasibility of a Lifestyle Physical Activity Intervention for African American Women with Asthma".
Nyenhuis SM, Shah N, Kim H, Marquez DX, Wilbur J, Sharp LK.

Symptom severity is associated with signs of central sensitization in patients with asthma.
Rodríguez-Torres J, López-López L, Cabrera-Martos I, Torres-Sánchez I, Prados-Román E, Ortíz-Rubio A, Valenza MC.

The multidisciplinary team severe asthma day case assessment and its impact on patient care.
Holmes LJ, Sheehan R, Elsey L, Allen D.

Population repeated time-to-event analysis of exacerbations in asthma patients: a novel approach for predicting asthma exacerbations based on biomarkers, spirometry, and diaries/questionnaires.

Impact of Asthma on the Quality of Sleep in Young People.
Health-Related Quality of Life and Health Utilities of Mild, Moderate, and Severe Asthma: Evidence from the Medical Expenditure Panel Survey.

Predictors of exercise-induced bronchoconstriction in subjects with mild asthma.

Bronchial obstruction perception and uncontrolled asthma in clinical practice.

Adherence, quality of life, and satisfaction with conventional fix combined therapy versus maintenance and reliever therapy in patients with asthma after inhaler training.

The relationship between asthma control and health-related quality of life in asthma and the role of atopy: a cross-sectional study of Nigerian adult asthmatics.

Targeting excessive avoidance behavior to reduce anxiety related to asthma: A feasibility study of an exposure-based treatment delivered online.

Targeting dynamic hyperinflation in moderate-to-severe asthma: a randomised controlled trial.
Use of Health Related Quality of Life in Clinical Trials for Severe Asthma: A Systematic Review.
Lanario JW, Burns L.

Cost-Effectiveness of Pulmonary Rehabilitation in Patients With Bronchial Asthma: An Analysis of the EPRA Randomized Controlled Trial.
Böckmann D, Szentes BL, Schultz K, Nowak D, Schuler M, Schwarzkopf L.

Sociocultural influences on asthma self-management in a multicultural society: A qualitative study amongst Malaysian adults.
Koh WM, Abu Bakar AI, Hussein N, Pinnock H, Liew SM, Hanafi NS, Pang YK, Ho BK, Mohamed Isa S, Sheikh A, Khoo EM.

A feasibility trial of a digital mindfulness-based intervention to improve asthma-related quality of life for primary care patients with asthma.
Ainsworth B, Stanescu S, Stuart B, Russell D, Liddiard M, Djukanovic R, Thomas M.

**NUTRITION AND NUTRITIONAL STATUS**

Effect of malnutrition and body composition on the quality of life of COPD patients.

Lipid Nutrition in Asthma.
Oliver PJ, Arutla S, Yenigalla A, Hund TJ, Parinandi NL.

Differences in exercise capacity and health-related quality of life according to the body mass index in patients with COPD.
Betancourt-Peña J, Ávila-Valencia JC, Diaz-Vidal DM, Benavides-Córdoba V.

Long-term weight gain in obese COPD patients participating in a disease management program: a risk factor for reduced health-related quality of life.

**Effective nutrition support for patients with chronic obstructive pulmonary disease: managing malnutrition in primary care.**

**Daily Vegetables Intake and Response to COPD Rehabilitation. The Role of Oxidative Stress, Inflammation and DNA Damage.**

**Caffeine during High-Intensity Whole-Body Exercise: An Integrative Approach beyond the Central Nervous System.**

**ADVANCED DISEASE / END OF LIFE / PALLIATIVE CARE**

**Respiratory Failure in Intensive Care Unit Patients with Progressive COPD: Nursing Approaches to Patient Care.**

**Top Ten Tips Palliative Care Clinicians Should Know About Prognostication in Oncology, Dementia, Frailty, and Pulmonary Diseases.**

**Respiratory Nurses Have Positive Attitudes But Lack Confidence in Advance Care Planning for Chronic Obstructive Pulmonary Disease: Online Survey.**

**Benefits, for patients with late stage chronic obstructive pulmonary disease, of being cared for in specialized palliative care compared to hospital. A nationwide register study.**
Henoch I, Ekberg-Jansson A, Löfdahl CG, Strang P.
COMORBID CONDITIONS

The cardiovascular phenotype of Chronic Obstructive Pulmonary Disease (COPD): Applying machine learning to the prediction of cardiovascular comorbidities.
Nikolaou V, Massaro S, Garn W, Fakhimi M, Stergioulas L, Price D.

The impact of osteoporosis and vertebral compression fractures on mortality and association with pulmonary function in COPD: A meta-analysis.

Secondary polycythemia in chronic obstructive pulmonary disease: prevalence and risk factors.

Population-based retrospective cohort study on risk of age-related macular degeneration in people with chronic obstructive pulmonary disease.
Bair PJ, Hsia NY, Lin CL, Yang YC, Shen TC, Li CY.

Distribution of COPD Comorbidities and Creation of Acute Exacerbation Risk Score: Results from SCICP.

Prevalence of Cardiovascular Events and Their Risk Factors in Patients With Chronic Obstructive Pulmonary Disease and Obstructive Sleep Apnea Overlap Syndrome.
Tang M, Long Y, Liu S, Yue X, Shi T.
Comparative Impact of Depressive Symptoms and FEV1% on Chronic Obstructive Pulmonary Disease.

Unravelling the mechanisms driving multimorbidity in COPD to develop holistic approaches to patient-centred care.

FEV1 is Independently Related with Impaired Left Atrial Strain in Chronic Obstructive Pulmonary Disease Patients: A Speckle Tracking Study.

Predictors of Renal Function Worsening in Patients with Chronic Obstructive Pulmonary Disease (COPD): A Multicenter Observational Study.

EXACERBATIONS / HOSPITALISATIONS / MORTALITY

Polycythemia is Associated with Lower Incidence of Severe COPD Exacerbations in SPIROMICS Study.

Large underreporting of COPD as cause of death-results from a population-based cohort study.
Identifying acute exacerbations of chronic obstructive pulmonary disease using patient-reported symptoms and cough feature analysis.

The Effect of Bronchiectasis on the Exacerbation and Mortality of Chronic Obstructive Pulmonary Disease.

Long-term home non-invasive ventilation in chronic hypercapnic COPD patients: real-world impact on lung function, acute exacerbations and survival.

Impact of COPD exacerbations leading to hospitalization on general and disease-specific quality of life.

Does pay-for-performance improve patient outcomes in acute exacerbation of COPD admissions?

Handgrip strength during admission for COPD exacerbation: impact on further exacerbation risk.

Effect of Community-Acquired Pneumonia on Acute Exacerbation of Chronic Obstructive Pulmonary Disease.
Sputum colour as a marker for bacteria in acute exacerbations of COPD: protocol for a systematic review and meta-analysis.

Risk of all-cause mortality associated with chronic obstructive pulmonary disease and the role of healthy ageing trajectories: a population-based study of middle-aged and older adults.
Bayes-Marin I, Sanchez-Niubo A, Fernández D, Haro JM, Olaya B.

Uptake of Clinical Prognostic Tools in COPD Exacerbations Requiring Hospitalisation.
Lane ND, Gillespie SM, Steer J, Bourke SC.

Predictors for mortality due to acute exacerbation of COPD in primary care: Derivation of a clinical prediction rule in a multicentre cohort study.
Alameda C, Matía ÁC, Casado V.

Na N, Guo SL, Zhang YY, Ye M, Zhang N, Wu GX, Ma LW.

Sputum colour as a marker for bacteria in acute exacerbations of COPD: protocol for a systematic review and meta-analysis.

Strategies to Prevent Readmissions to Hospital for COPD: A Systematic Review.
Sharpe I, Bowman M, Kim A, Srivastava S, Jalink M, Wijeratne DT.

Comparing hospital admissions, comorbidities and biomarkers between severe asthma and Gold III-IV COPD.
Ponte EV, Mingotti CB, Souza-Machado C, Silva JN, Chequi L, Arbex FF, Rocha A, Cruz AA.


COVID-19
*Composed in collaboration with Dr. Vitalii Poberezhets (Chair of Group 01.04 - m-Health/e-health)
Outcomes among patients with COVID-19 and asthma: A systematic review and meta-analysis.
Sitek AN, Ade JM, Chiarella SE, Divekar RD, Pitlick MM, Iyer VN, Wang Z, Joshi AY.


Pouwels BDC, Simons SO, Theunissen M, Peters ML, Schoenmaekers JJ, Bekkers SC, van den Beuken-van Everdingen MHJ.

Grip strength as a predictor of disease severity in hospitalized COVID-19 patients.
Kara Ö, Kara M, Akin ME, Özçakar L.

Frequency, risk factors, and outcomes of hospital readmissions of COVID-19 patients.

The Risk of COVID-19 Related Hospitalsation, Intensive Care Unit Admission and Mortality in People With Underlying Asthma or COPD: A Systematic Review and Meta-Analysis.
Pardhan S, Wood S, Vaughan M, Trott M.

Asthma patients experience increased symptoms of anxiety, depression and fear during the COVID-19 pandemic.
de Boer GM, Houweling L, Hendriks RW, Vercoulen JH, Tramper-Stranders GA, Braunstahl GJ.
The Impact of Post-COVID-19 Syndrome on Self-Reported Physical Activity.
Delbressine JM, Machado FVC, Goertz YMJ, Van Herck M, Meys R, Houben-Wilke S, Burtin C,
Franssen FME, Spies Y, Vlijbergh H, van 't Hul AJ, Janssen DJA, Spruit MA, Vaes AW.

Analysis of vaccination characteristics and influencing factors of influenza vaccine and
pneumococcal vaccine in patients with frequent acute exacerbation phenotype COPD.

Association of Preexisting Asthma and Other Allergic Diseases With Mortality in COVID-19
Patients: A Systematic Review and Meta-Analysis.

SARS-CoV-2 infection in alpha1-antitrypsin deficiency.
Schneider CV, Strnad P.

Case Report: A Rehabilitation Practice Report During ICU Management for a Patient With
Multiple Disabilities Due to COVID-19 Pneumonia and COPD.
Kinoshita T, Kouda K, Umemoto Y, Yasuoka Y, Minoshima Y, Mikami Y, Nishimura Y,
Miyamoto K, Kato S, Tajima F.

Comparison of Patient Clinical characteristics and Outcomes Between Different COVID-19
Peak Periods: A Single Center Retrospective Propensity Matched Analysis.
Jarrett SA, Lo KB, Shah S, Zanoria MA, Valiani D, Balogun OO, Hiedra R, Azmaiparashvili Z,
Patarroyo Aponte G.

Comorbidity status of deceased COVID-19 in-patients in Italy.
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Living with the risk of being infected: COPD patients’ experiences during the coronavirus pandemic.
Mousing CA, Sørensen D.

Risk factors for severity of COVID-19 in hospital patients age 18-29 years.
Sandoval M, Nguyen DT, Vahidy FS, Graviss EA.

Key toolkits of non-pharmacological management in COPD: during and beyond COVID-19.
Alqahtani JS, Alghamdi SM, Aldhahir AM, Althobiani M, Oyelade T.

Narrative Analysis of the Impact of COVID-19 on Patients with Chronic Obstructive Pulmonary Disease, Their Caregivers, and Healthcare Professionals in Italy.

Reduction in hospitalised COPD exacerbations during COVID-19: A systematic review and meta-analysis.
Alqahtani JS, Oyelade T, Aldhahir AM, Mendes RG, Alghamdi SM, Miravitlles M, Mandal S, Hurst JR.

Questioning the sex-specific differences in the association of smoking on the survival rate of hospitalized COVID-19 patients.
Khalil A, Dhingra R, Al-Mulki J, Hassoun M, Alexis N.

Relationships between prolonged physical and social isolation during the COVID-19 pandemic, reduced physical activity and disability in activities of daily living among people with advanced respiratory disease.
Fettes L, Bayly J, de Bruin LM, Patel M, Ashford S, Higginson IJ, Maddocks M.

Asthma Disease Status, COPD, and COVID-19 Severity in a Large Multiethnic Population.
Huang BZ, Chen Z, Sidell MA, Eckel SP, Martinez MP, Lurmann F, Thomas DC, Gilliland FD, Xiang AH.


Asthma and Coronavirus Disease 2019 Risk: a systematic review and meta-analysis.
Sunjaya AP, Allida SM, Di Tanna GL, Jenkins CR.

Predictors of severe COVID-19 in a registry-based Swedish cohort of patients with chronic obstructive pulmonary disease (COPD).

Association of asthma comorbidity with poor prognosis of coronavirus disease 2019.

Mortality from COVID-19 in Patients with COPD: A US Study in the N3C Data Enclave.
Meza D, Khuder B, Bailey JI, Rosenberg SR, Kalhan R, Reyfman PA.
Impact of the COVID-19 pandemic on the behaviour and health status of patients with COPD: results from the German COPD cohort COSYCONET.


Pre-existing health conditions and severe COVID-19 outcomes: an umbrella review approach and meta-analysis of global evidence.

Using mobile applications and websites for the diagnosis of COVID-19 in Spain.
Guisado-Clavero M, Ares-Blanco S, Ben Abdellah LD.


The use of telemonitoring in managing the COVID pandemic: a pilot implementation study.
McKinstry B, Alexander H, Maxwell G, Blaikie L, Patel S, Guthrie B.

(LONG-TERM) IMPACT OF COVID-19

The high mental health burden of "Long COVID" and its association with on-going physical and respiratory symptoms in all adults discharged from hospital.
Long-Term Outcomes of Patients with Coronavirus Disease 2019 at One Year after Hospital Discharge.
Maestre-Muñiz MM, Arias Á, Mata-Vázquez E, Martín-Toledano M, López-Larramona G, Ruiz-Chicote AM, Nieto-Sandoval B, Lucendo AJ.

Dixit S, Borghi-Silva A, Bairapareddy KC.


Post-infection cognitive impairments in a cohort of elderly patients with COVID-19.

Pulmonary function impairment of asymptomatic and persistently symptomatic patients 4 months after COVID-19 according to disease severity.

Descriptive analysis of long COVID sequelae identified in a multidisciplinary clinic serving hospitalised and non-hospitalised patients.

Respiratory follow-up after hospitalization for COVID-19: Who and when?

Risk Predictors and Symptom Features of Long COVID Within a Broad Primary Care Patient Population Including Both Tested and Untested Patients.

The long-term sequelae of COVID-19: an international consensus on research priorities for patients with pre-existing and new-onset airways disease.

Post-COVID or long-COVID: Two different conditions or the same?
Mumoli N, Conte G, Evangelista I, Cei M, Mazzone A, Colombo A.

GOLD 2021 guidelines for COPD - what's new and why.
Gupta N, Malhotra N, Ish P.

We can do better in COPD: Time for action to preserve body composition.
WoodLG.

Buccal Hydromorphone Syrup for Managing Dyspnea in Idiopathic Pulmonary Fibrosis.
Fong S, Richman-Eisenstat J, Kalluri M.


Phenotyping acute exacerbation of COPD: what more can we do for hospitalised patients?
Cen LJ, Zhang XX, Guan WJ.

Lung health in LMICs: tackling challenges ahead.
Khoo EM, Li D, Ungan M, Jordan R, Pinnock H.

Pulmonary Rehabilitation after a COPD Exacerbation: Impact on Readmission Risk in a Real-World Setting.
Nici L.
Ventilatory inefficiency: a key physiopathological mechanism increasing dyspnea and reducing exercise capacity in chronic obstructive pulmonary disease.
Caviedes I.

Sexual health communication in COPD: The role, contents and design of patient information leaflets.
Rubio-Rask SE, Farver-Vestergaard I, Hilberg O, Løkke A.

The Effectiveness of Traditional Chinese Medicine (TCM) as an Adjunct Treatment on Stable COPD Patients: A Systematic Review and Meta-Analysis.
Chan KH, Tsoi YYS, McCall M.

Chemical constituents and sources of indoor PM(2.5) and cardiopulmonary function in patients with chronic obstructive pulmonary disease: Estimation of individual and joint effects.

Assessment of risk factors responsible for rapid deterioration of lung function over a period of one year in patients with chronic obstructive pulmonary disease.

A common model for the breathlessness experience across cardiorespiratory disease.
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