ERS literature update
March-April 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

COPD discharge bundle and pulmonary rehabilitation referral and uptake following hospitalisation for acute exacerbation of COPD.

Efficacy of pulmonary rehabilitation for bronchiectasis and related factors: which patients should receive the most treatment?
Candemir I, Ergun P, Satar S, Karamanlı H, Kaymaz D, Demir N.

Assessment of Stress, Depressive and Anxiety Symptoms in Patients with COPD during In-Hospital Pulmonary Rehabilitation: An Observational Cohort Study.

Efficacy of a long-term pulmonary rehabilitation maintenance program for COPD patients in a real-life setting: a 5-year cohort study.

The effectiveness of pulmonary rehabilitation in connection with lung transplantation in Hungary.
How to Ensure Referral and Uptake for COPD Rehabilitation - Part 1: Disentangling Factors in the Cross-Sectorial Workflow of Patients with COPD to Understand why Most Patients are not Referred to Rehabilitation.
Thude BR, Brink A, Hansen MS, Morsø L.

How to Ensure Referral and Uptake for COPD Rehabilitation - Part 2: A Case of Integrated Care on How to Translate Findings of Cross-Sectorial Workflow to Improve Cross-Sectorial Rehabilitation.
Morsø L, Hansen MS, Brink A, Thams M, Thude BR.

Healthcare and Societal Costs in Patients with COPD and Breathlessness after Completion of a Comprehensive Rehabilitation Program.
Verberkt CA, van den Beuken-van Everdingen MHJ, Dirksen CD, Schols JMGA, Vanfleteren LEGW, Franssen FME, Groenen MTJ, Wouters EFM, Janssen DJA.

Comparing the effects of self-management and hospital-based pulmonary rehabilitation programs in COPD patients.
Kilic B, Cicek HS, Avci MZ.

Impact of pulmonary rehabilitation in sleep in COPD patients measured by actigraphy.
Thapamagar SB, Ellstrom K, Anholm JD, Fargo RA, Dandamudi N.

Operational Modeling with Health Economics to Support Decision Making for COPD Patients.
Yakutcan U, Demir E, Hurst JR, Taylor PC, Ridsdale HA.

Integrating Comprehensive Geriatric Assessment for people with COPD and frailty starting pulmonary rehabilitation: the Breathe Plus feasibility trial protocol.
How is the education component of pulmonary rehabilitation delivered in practice - is it patient-centred?
Roberts NJ, Kidd L, Kirkwood K, Cross J, Partridge MR.

The Effect Of Pulmonary Rehabilitation On Smoking And Health Outcomes In Copd Patients.
Sahin H, Naz I.

Experiences in responders and non-responders to pulmonary rehabilitation among people with chronic obstructive pulmonary disease: a clinical study with convergent mixed analysis.
Simoný C, Højfeld CR, Clausen B, Birkelund R, Bodtger U.

Influence of Climatic Variables on Chronic Obstructive Pulmonary Disease Patient Attendance to a Pulmonary Rehabilitation Programme.
Almadana Pacheco V, Benito Bernáldez C, Gómez-Bastero Fernández AP, Rodríguez AMM, López Gutiérrez Y, Valido Morales AS.

Long-term pulmonary rehabilitation progressively reduces hospitalizations and mortality in a cohort of patients with severe and very severe copd: a 5-year follow up.
Reis LF, Guimarães FS, Lopes AJ, Menezes SL, Pacheco AG, Mello FC.

Preferences of patients with asthma or COPD for treatments in pulmonary rehabilitation.
Damm K, Lingner H, Schmidt K, Aumann-Suslin I, Buhr-Schinner H, van der Meyden J, Schultz K.

The effect of Tai Chi on the pulmonary rehabilitation of chronic obstructive pulmonary disease: a systematic review and meta-analysis.
EXERCISE TESTING AND TRAINING

Effect of muscle training on dyspnea in patients with chronic obstructive pulmonary disease: A meta-analysis of randomized controlled trials.
Zhang F, Zhong Y, Qin Z, Li X, Wang W.

Muscle weakness assessment in non-hypoxemic COPD out-patients at tertiary care hospitals.
Zuberi FF, Zuberi BF, Ali F, Bader N.

Efficacy of unsupervised exercise in adults with obstructive lung disease: a systematic review and meta-analysis.
Taylor D, Jenkins AR, Parrott K, Benham A, Targett S, Jones AW.

Bitos K, Furian M, Mayer L, Schneider SR, Buenzli S, Mademilov MZ, Sheraliev UU, Marazhapov NH, Abdraeva AK, Aidaralieva SD, Muratbekova AM, Sooronbaev TM, Ulrich S, Bloch KE.

Walking and mindfulness improve the exercise capacity of patients with chronic obstructive pulmonary disease: A randomised controlled trial.
Lin FL, Yeh ML.

Clinical impact of forced vital capacity on exercise performance in patients with chronic obstructive pulmonary disease.

The effectiveness of continuous chest wall vibration with concurrent aerobic training on dyspnea and functional exercise capacity in patients with chronic obstructive pulmonary disease: a randomized controlled trial.
Pancera S, Buraschi R, Bianchi LNC, Porta R, Negrini S, Arienti C.
Reliability of Quadriceps Femoris Muscle Strength Assessment Using a Portable Dynamometer and Protocol Tolerance in Patients With Chronic Obstructive Pulmonary Disease.


Effects of an Integrated Exercise Program Including "Functional" Inspiratory Muscle Training in Geriatric Individuals with and without Chronic Obstructive Pulmonary Disease.


Effectiveness of Non-Presential Individualized Exercise Training PrOgram(NIETO) in Lower Limb Physical Performance in Advanced COPD.


Increasing Walking Speed to Achieve a Pre-training Endurance Shuttle Walk Time of 5-10 min May Improve Test Responsiveness in People With Chronic Obstructive Pulmonary Disease.


Effectiveness of thoracic kinesio taping on respiratory function and muscle strength in patients with chronic obstructive pulmonary disease: A protocol of randomized, double-blind placebo-controlled trial.


Reduced exercise tolerance in mild chronic obstructive pulmonary disease: The contribution of combined abnormalities of diffusing capacity for carbon monoxide and ventilatory efficiency.

Intercept of minute ventilation versus carbon dioxide output relationship as an index of ventilatory inefficiency in chronic obstructive pulmonary disease.

The effectiveness of supplemental oxygen during exercise training in patients with chronic obstructive pulmonary disease who show severe exercise-induced desaturation: a protocol for a meta-regression analysis and systematic review.
Kawachi S, Yamamoto S, Nishie K, Yamaga T, Shibuya M, Sakai Y, Fujimoto K.

Validity of the 6-Minute Walk Test in Patients with End-Stage Lung Diseases Wearing an Oronasal Surgical Mask in Times of the COVID-19 Pandemic.
Just IA, Schoenrath F, Passinger P, Stein J, Kemper D, Knosalla C, Falk V, Knierim J.

Effects of Proprioceptive Neuromuscular Facilitation Stretching Combined with Aerobic Training on Pulmonary Function in COPD Patients: A Randomized Controlled Trial.
Liu K, Yu X, Cui X, Su Y, Sun L, Yang J, Han W.

Acute effects of expiratory positive airway pressure on exercise tolerance in patients with COPD.
Pereira HL, Vieira DS, Britto RR, Da Silva LS, Ribeiro-Samora GA, Carmona BL, Fregonezi GA, Parreir VF.

Validation of a breath-holding test as a screening test for exercise-induced hypoxemia in chronic respiratory diseases.

Correlation of 4-meter gait speed with clinical indicators of chronic obstructive pulmonary disease.
Nakano T, Kimura S, Yamashita T, Yoshimi M, Tao Y, Takata S.
The Effect of Long-Acting Dual Bronchodilator Therapy on Exercise Tolerance, Dynamic Hyperinflation and Dead Space during Constant Work Rate Exercise in COPD.
Stringer WW, Porszasz J, Cao M, Rossiter HB, Siddiqui S, Rennard SI, Casaburi R.

Effect of pulmonary hypertension on exercise tolerance in patients with COPD: a prognostic systematic review and meta-analysis.

PHYSICAL ACTIVITY

Towards a better understanding of physical activity in people with COPD: predicting physical activity after pulmonary rehabilitation using an integrative competence model.

Behavioural modification interventions alongside pulmonary rehabilitation improve COPD patients' experiences of physical activity.

Minimal clinically important difference for daily pedometer step count in COPD.
Polgar O, Patel S, Walsh JA, Barker RE, Clarke SF, Man WD, Nolan CM.

Mechanisms associated with increased physical activity in patients undergoing self-management behaviour modification in the randomised PHYSACTO trial.
Bourbeau J, Sedeno M, Li PZ, Troosters T, Hamilton A, De Sousa D, Maltais F, Erzen D, Lavoie KL.
Sedentary time in people with obstructive airway diseases.
Cordova-Rivera L, Gardiner PA, Gibson PG, Winkler EAH, Urroz PD, McDonald VM.

The Maugeri daily activity profile: a tool to assess physical activity in patients with chronic obstructive pulmonary disease.

Monitoring Physical Activity with a Wearable Sensor in Patients with COPD during In-Hospital Pulmonary Rehabilitation Program: A Pilot Study.

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

Pulmonary Rehabilitation in a Post-COVID-19 World: Telerehabilitation as a New Standard in Patients with COPD.
Tsutsui M, Gerayeli F, Sin DD.

Telehealth’s New Horizon: Providing Smart Hospital-Level Care in the Home.
Rosen JM, Adams LV, Geiling J, Curtis KM, Mosher RE, Ball PA, Grigg EB, Hebert KA, Grodan JR, Jurmain JC, Loucks C, Macedonia CR, Kun L.

Does remote patient monitoring reduce acute care use? A systematic review.
Taylor ML, Thomas EE, Snoswell CL, Smith AC, Caffery LJ.

A qualitative study of clinician perceptions regarding the potential role for digital health interventions for the management of COPD.
Slevin P, Kessie T, Cullen J, Butler MW, Donnelly SC, Caulfield B.
**eHealth Program to Reduce Hospitalizations Due to Acute Exacerbation of Chronic Obstructive Pulmonary Disease: Retrospective Study.**
van Buul AR, Derksen C, Hoedemaker O, van Dijk O, Chavannes NH, Kasteleyn MJ.

**The impact of the involvement of a healthcare professional on the usage of an eHealth platform: a retrospective observational COPD study.**
vanzelst CM, Kasteleyn MJ, van Noort EMJ, Rutten-van Molken MPMH, Braunstahl G-J, Chavannes NH, In’t Veen JCCM.

**Together for the Future - Development of a Digital Website to Support Chronic Obstructive Pulmonary Disease Self-Management: A Qualitative Study.**
Kjellsdotter A, Andersson S, Berglund M.

**Digital interventions for the management of chronic obstructive pulmonary disease.**
Janjua S, Banchoff E, Threapleton CJ, Prigmore S, Fletcher J, Disler RT.

**Feasibility of a Health Coaching and Home-Based Rehabilitation Intervention With Remote Monitoring for COPD: A Mixed-Methods Randomized Study.**

**Development of a Novel Intervention (Mindful Steps) to Promote Long-Term Walking Behavior in Chronic Cardiopulmonary Disease: Protocol for a Randomized Controlled Trial.**
Litrownik D, Gilliam EA, Wayne PM, Richardson CR, Kadri R, Rist PM, Moy ML, Yeh GY.

**Feasibility of an online platform delivery of pulmonary rehabilitation for individuals with chronic respiratory disease.**
Development of Respercise® a Digital Application for Standardizing Home Exercise in COPD Clinical Trials.

The impact of a telemedicine intervention on home non-invasive ventilation in a rural population with advanced COPD

Telerehabilitation in Subjects With Respiratory Disease: A Scoping Review.

PATIENT REPORTED OUTCOME MEASURES

International psychometric validation of the Living with Chronic Illness Scale in Spanish-speaking patients with chronic obstructive pulmonary disease.

Psychometric Properties of Patient-Reported Outcome Measures Assessing Self-Efficacy in Patients with Chronic Obstructive Pulmonary Disease (COPD): A Systematic Review.

Content validity of preference-based measures for economic evaluation in chronic obstructive pulmonary disease.

Face and content validity of the Carer Support Needs Assessment Tool (CSNAT), and feasibility of the CSNAT intervention, for carers of patients with chronic obstructive pulmonary disease.

Cross-cultural adaptation and validation of the Norwegian version of the Leicester Cough Questionnaire in chronic obstructive pulmonary disease.
INTERSTITIAL LUNG DISEASE

How Do We Define a Meaningful Change in Quality of Life for Patients with Sarcoidosis?
Aronson KI, Swigris JJ.

Occupational and environmental risk factors of idiopathic pulmonary fibrosis: a systematic review and meta-analyses.
Park Y, Ahn C, Kim TH.

The prognostic value of fixed time and self-paced walking tests in patients diagnosed with idiopathic pulmonary fibrosis.

Fat-Free Mass Index Controlled for Age and Sex and Malnutrition Are Predictors of Survival in Interstitial Lung Disease.
Rinaldi S, Gilliland J, O'Connor C, Seabrook JA, Mura M, Madill J.

Patient-reported quality of life in fibrotic interstitial lung disease: novel assessments of self-management ability and affect.
Moua T, Kubbara A, Novotny P, Ridgeway JL, Limper AH, Ryu JH, Clark MM, Benzo R.

Interstitial lung disease in a veterans affairs regional network; a retrospective cohort study.

Patients' and healthcare professionals' perspectives on the idiopathic pulmonary fibrosis care journey: a qualitative study.
A mixed-methods pilot study of handheld fan for breathlessness in interstitial lung disease.
Khor YH, Saravanan K, Holland AE, Lee JYT, Ryerson CJ, McDonald CF, Goh NSL.

Exercise capacity and its relationship with body composition and nutrition status in patients with interstitial lung disease.
Rinaldi S, Gilliland J, O'Connor C, Seabrook JA, Mura M, Madill J.

The Short- and Long-Term Impact of Pulmonary Rehabilitation in Subjects with Sarcoidosis: A Prospective Study and Review of the Literature.
Guber E, Wand O, Epstein Shochet G, Romem A, Shitrit D.

Exertional Desaturation in Idiopathic Pulmonary Fibrosis: The Role of Oxygen Supplementation in Modifying Cerebral-Skeletal Muscle Oxygenation and Systemic Hemodynamics.

Action plans in idiopathic pulmonary fibrosis: a qualitative study-'I do what I can do'.
Kalluri M, Younus S, Archibald N, Richman-Eisenstat J, Pooler C.

Adiposity and interstitial lung abnormalities in community dwelling adults: the MESA cohort study.
Anderson MR, Kim JS, Allison M, Giles JT, Hoffman EA, Ding J, Barr RG, Podolanczuk A.

Exercise Testing in Idiopathic Pulmonary Fibrosis: Expanding Our Options.
Mura M, Bouros D.
Ergogenic Value of Oxygen Supplementation in Patients with Idiopathic Pulmonary Fibrosis with Isolated Exertional Oxygen Desaturation.
Vogiatzis I, Bouros D.

Idiopathic pulmonary fibrosis beyond the lung: understanding disease mechanisms to improve diagnosis and management.


Incidence and prognostic significance of hypoxemia in fibrotic interstitial lung disease: an international cohort study.
Khor YH, Gutman L, Hussein NA, Johansson KA, Glaspole IN, Guler SA, Funke-Chambour M, Geiser T, Goh NS, Ryerson CJ.

Nocturnal hypoxaemia in interstitial lung disease: a systematic review.
Khor YH, Ng Y, Sweeney D, Ryerson CJ.

Feasibility of cardiopulmonary exercise testing in interstitial lung disease: the PETFIB study.

A feasibility randomised controlled trial of Novel Activity Management in severe ASthma-Tailored Exercise (NAMASTE): yoga and mindfulness.
Hiles SA, Urroz PD, Gibson PG, Bogdanovs A, McDonald VM.
Reliability of the breathing pattern assessment tool for in-person or remote assessment in people with asthma.

The Severe Asthma Questionnaire: sensitivity to change and minimal clinically important difference (MCID).

Balancing the needs of the many and the few: where next for adult asthma guidelines?

A territory-wide study on the factors associated with recurrent asthma exacerbations requiring hospitalization in Hong Kong.

Digital Health Technology in Asthma: A Comprehensive Scoping Review.

Minimal clinically important difference of the 6-min walking test in patients with asthma.

Uncontrolled asthma across GINA treatment steps 2 - 5 in a large US patient cohort.
The effects of core stabilization training on dynamic balance and pulmonary parameters in patients with asthma.
Develi E, Subasi F, Aslan GK, Bingol Z.

Developing theory-based asthma self-management interventions for South Asians and African Americans: A systematic review.
Ahmed S, Pincock H, Steed E.

Risk Factors Predicting Severe Asthma Exacerbations in Adult Asthmatics: A Real-World Clinical Evidence.
Ban GY, Kim SC, Lee HY, Ye YM, Shin YS, Park HS.

Persistent Uncontrolled Asthma: Long-Term Impact on Physical Activity and Body Composition.

Determinants of Uncontrolled Asthma among Adult Asthmatic Patients on Follow-up at Chest Clinic of Jimma Medical Center: Unmatched Case-Control Study.
Geleta LA, Dadi LS, Sona AA.

Fatigue: A forgotten symptom of asthma.
Günaydın FE, Ediger D, Erbay M.

Asthma, atopy, and exercise: Sex differences in exercise-induced bronchoconstriction.
Rodriguez Bauza DE, Silveyra P.

Treatable traits in elderly asthmatics from the Australasian Severe Asthma Network: a prospective cohort study.
Patients' experiences of asthma exacerbation and management: a qualitative study of severe asthma.
Song WJ, Won HK, Lee SY, Park HK, Cho YS, Chung KF, Heaney LG, Joung WJ.

Prevalence of asthma symptoms and associated factors in adolescents and adults in southern Brazil: A Global Asthma Network Phase I study.

Hui CY, McKinstry B, Fulton O, Buchner M, Pinnock H.

"It's like being on a roller coaster": the burden of caring for people with severe asthma.
Majellano EC, Clark VL, Foster JM, Gibson PG, McDonald VM.

The Effects of Asthma on the Association Between Pulmonary Function and Obesity: A 16-Year Longitudinal Study.
Huang YJ, Chu YC, Huang HL, Hwang JS, Chan TCJ

Association Between Sleep Characteristics and Asthma Control in Middle-Aged and Older Adults: A Prospective Cohort Study.

Eosinophilic and non-eosinophilic asthma: an expert consensus framework to characterize phenotypes in a global real-life severe asthma cohort.

Effect of aerobic exercise training on asthma control in postmenopausal women (the ATOM-study): protocol for an outcome assessor, randomised controlled trial.

Gender differences in the perception of asthma respiratory symptoms in five Latin American countries.

NUTRITION AND NUTRITIONAL STATUS

Effects of Sarcopenia on Ventilatory Behavior and the Multidimensional Nature of Dyspnea in Patients With Chronic Obstructive Pulmonary Disease.

A Comprehensive Review on Vitamin D as a Novel Therapeutic Agent in Chronic Obstructive Pulmonary Disease.

Nutritional Factors in Occupational Lung Disease.

Frequency and functional translation of low muscle mass in overweight and obese patients with COPD.
Effect of Dietary Nitrate Supplementation on Sleep in Chronic Obstructive Pulmonary Disease Patients.
Wisor JP, Holmedahl NH, Saxvig IW, Fjeldstad OM, Weitzberg E, Grønli J, Engan HK.

A double-blind randomised controlled trial of protein supplementation to enhance
eexercise capacity in COPD during pulmonary rehabilitation: a pilot study.
Aldhahir AM, Aldabayan YS, Alqahtani JS, Ridsdale HA, Smith C, Hurst JR, Mandal S.
eCollection 2021 Jan.

Age-Dependent Associations Between 25-Hydroxy Vitamin D Levels and COPD Symptoms:
Analysis of SPIROMICS.
Burkes RM, Couper DJ, Barjaktarevic IZ, Cooper CB, Labaki WW, Han MK, Woodruff PG,
Lazarus SC, Parekh TM, Paine III R, Comellas AP, Bowler RP, Loehr LR, Putcha N, Wise RA,
Brown TT, Drummond MB.

Improved diet quality is associated with decreased concentrations of inflammatory
markers in adults with uncontrolled asthma.

Intestinal function is impaired in patients with Chronic Obstructive Pulmonary Disease.
Kirschner SK, Deutz NEP, Jonker R, Olde Damink SWM, Harrykissoon RI, Zachria AJ, Dasarathy
S, Engelen MPKJ.

Facilitating Advance Care Planning for Patients With Severe COPD: A Qualitative Study of
Experiences and Perceptions of Community Physicians, Nurses, and Allied Health
Professionals.
Hirakawa Y, Aita K, Nishikawa M, Arai H, Miura H.

Referral criteria to palliative care for patients with respiratory disease: a systematic
review.
Provision of Palliative Care in Patients with COPD: A Survey Among Pulmonologists and General Practitioners.
Broese JMC, van der Kleij RMJJ, Verschuur EML, Kerstjens HAM, Engels Y, Chavannes NH.

Examining the Characteristics of Patients With Non-Malignant Lung Disease at the Time of Referral to An Inter-Professional Supportive Care Clinic.
Reipas KM, Grossman DL, Lock K, Caraiscos VB.

Communicating uncertainty: contrasting the communication experiences of patients with advanced COPD and incurable lung cancer.

Multimorbidity clusters in patients with chronic obstructive airway diseases in the EpiChron Cohort.

The Role of Stress Echocardiography in the Early Detection of Diastolic Dysfunction in Non-Severe Chronic Obstructive Pulmonary Disease Patients.
Cherneva Z, Cherneva R.

Physical activity and cardiac autonomic dysfunction in patients with chronic obstructive pulmonary disease: a cross-sectional analysis.
Delgado-Ortiz L, Arbillaga-Etxarri A, Rodríguez-Chiaradía DA, Gimeno-Santos E, Barberan-Garcia A, Balcells E, Rodríguez-Roisin R, García-Aymerich J.
https://pubmed.ncbi.nlm.nih.gov/33662597/
Association of Depression with Improper Use of Inhaler Devices by Patients with Obstructive Disease.
Bulut S, Karamanli H, Kabalak PA.

Association of Chronic Obstructive Pulmonary Disease with Morbidity and Mortality in Patients with Peripheral Artery Disease: Insights from the EUCLID Trial.

Developing a complex intervention whilst considering implementation: the TANDEM (Tailored intervention for ANxiety and DEpression Management) intervention for patients with chronic obstructive pulmonary disease (COPD).

COPD significantly increases cerebral and cardiovascular events in hypertensives.
Perticone M, Maio R, Caroleo B, Suraci E, Corrao S, Sesti G, Perticone F.

Identifying heart failure in patients with chronic obstructive lung disease through the Canadian Primary Care Sentinel Surveillance Network in British Columbia: a case derivation study.

EXACERBATIONS / HOSPITALISATIONS / MORTALITY

Hospital-at-home for chronic obstructive pulmonary disease exacerbation; Will it be an effective readmission avoidance model?
Kaymaz D, Candemir I, Ergun P, Demir P.

Predictors of mortality in COPD exacerbation cases presenting to the respiratory intensive care unit.
Prediction of Mortality Using Different COPD Risk Assessments - A 12-Year Follow-Up.

Endothelial Dysfunction during Acute Exacerbations of Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.
Theodorakopoulou MP, Bakaloudi DR, Alexandrou ME, Papakosta D, Patak A, Kioumis I, Boutou AK.

The Impact of Exacerbation Frequency on Clinical and Economic Outcomes in Swedish COPD Patients: The ARCTIC Study.

Strategies to prevent hospital readmission and death in patients with chronic heart failure, chronic obstructive pulmonary disease, and chronic kidney disease: A systematic review and meta-analysis.

Development and Validation of Risk Prediction Model for In-hospital Mortality Among Patients Hospitalized With Acute Exacerbation Chronic Obstructive Pulmonary Disease Between 2015 and 2019.

Sociodemographic and Clinical Variables Related to the Overburden of the Informal Caregivers of Patients Hospitalized for Chronic Obstructive Pulmonary Disease Exacerbations.
A Frailty Assessment Tool to Predict In-Hospital Mortality in Patients with Acute Exacerbations of Chronic Obstructive Pulmonary Disease.
Gu JJ, Liu Q, Zheng LJ.

Integrating Home-Based Exercise Training with a Hospital at Home Service for Patients Hospitalised with Acute Exacerbations of COPD: Developing the Model Using Accelerated Experience-Based Co-Design.

Clinical and Prognostic Impact of low DLco values in patients with GOLD I COPD.

Weak Handgrip at Index Admission for Acute Exacerbation of COPD Predicts All-Cause 30-Day Readmission.
Witt LJ, Spacht WA, Carey KA, Arora VM, White SR, Huisjng-Scheetz M, Press VG.

Predicting long-term mortality with two different criteria of exercise-induced desaturation in COPD.
Kim C, Ko Y, Lee JS, Rhee CK, Lee JH, Moon JY, Lim SY, Yoo KH, Seo JB, Oh YM, Lee SD, Park YB.

Relationship between heart failure and the risk of acute exacerbation of COPD.
Axson EL, Bottle A, Cowie MR, Quint JK.

Gait speed and adverse outcomes following hospitalised exacerbation of COPD.
Walsh JA, Barker RE, Kon SSC, Jones SE, Banya W, Nolan CM, Patel S, Polgar O, Haselden BM, Polkey MI, Cullinan P, Man WD.
COVID-19

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

When people do not 'Zol': Reduced emergency centre attendance of patients with chronic obstructive pulmonary disease during coronavirus disease 2019 lockdown with the accompanying tobacco sales ban in South Africa.
Saieva P, Jenkins LS.

Asthma in COVID-19 suspected and diagnosed patients.

Reduction in asthma admissions during the COVID-19 pandemic: consequence of public health measures in Singapore.
Wee LE, Conceicao EP, Tan JY, Sim JXY, Venkatachalam I.


Chronic respiratory diseases and the outcomes of COVID-19: A nationwide retrospective cohort study of 39,420 cases.

Risk of adverse outcomes in patients with underlying respiratory conditions admitted to hospital with COVID-19: a national, multicentre prospective cohort study using the ISARIC WHO Clinical Characterisation Protocol UK.
COPD and the risk of poor outcomes in COVID-19: A systematic review and meta-analysis.
Gerayeli FV, Milne S, Cheung C, Li X, Yang CWT, Tam A, Choi AH, Bae A, Sin DD.

Evaluating the impact of COVID-19 on asthma morbidity: a comprehensive analysis of potential influencing factors.
Guijon OL, Morphew T, Consulting M, Ehwerhemuepha L, Galant SP.

The impact of asthma on mental health & wellbeing during COVID-19 lockdown.
Higbee DH, Nava GW, Kwong ASF, Dodd JW, Granell R.

Decrease in hospital admissions for respiratory diseases during the COVID-19 pandemic: a nationwide claims study.

Impact of COVID-19 national lockdown on asthma exacerbations: interrupted time-series analysis of English primary care data.
Shah SA, Quint JK, Nwaru BI, Sheikh A.

Impact of COVID-19 lockdown on emergency asthma admissions and deaths: national interrupted time series analyses for Scotland and Wales.

Functional status of mechanically ventilated COVID-19 survivors at ICU and hospital discharge.

Management Challenges in Chronic Obstructive Pulmonary Disease in the COVID-19 Pandemic: Telehealth and Virtual Reality.
Rutkowski S.

Post COVID-19 Organizing Pneumonia: The Right Time to Interfere.
Bieksiene K, Zaveckiene J, Malakauskas K, Vaguliene N, Zemaitis M, Miliauskas S.

Higher Accuracy of Lung Ultrasound over Chest X-ray for Early Diagnosis of COVID-19 Pneumonia.
Martínez Redondo J, Comas Rodríguez C, Pujol Salud J, Crespo Pons M, García Serrano C, Ortega Bravo M, Palacin Peruga JM.

Association between pre-existing respiratory disease and its treatment, and severe COVID-19: a population cohort study.

Frequency of Comorbidities in Admitting COVID-19 Pneumonia Patients in a Tertiary Care Setup: An Observational Study.
Hussain M, Iltaf Sr S, Salman Sr S, Ghuman F, Abbas S, Fatima M.

Improved asthma control during the COVID-19 pandemic: are there lessons to be learnt?
Skene IP, Pfeffer PE.

Asthma does not increase COVID-19 mortality and poor outcomes: A systematic review and meta-analysis.
Soeroto AY, Purwiga A, Pranggono EH, Roesli RMA.
Clinical characteristics and outcomes of patients with Corona Virus Disease 2019 (COVID-19) at Mercy Health Hospitals, Toledo, Ohio.

Real-life survey on severe asthma patients during COVID-19 lockdown in Italy.

Interstitial lung disease increases susceptibility to and severity of COVID-19.

Physical inactivity is associated with a higher risk for severe COVID-19 outcomes: a study in 48 440 adult patients.
Sallis R, Young DR, Tartof SY, Sallis JF, Sall J, Li Q, Smith GN, Cohen DA.

Pulmonary Rehabilitation in Patients Recovering from COVID-19.
Zampogna E, Paneroni M, Belli S, Aliani M, Gandolfo A, Visca D, Bellanti MT, Ambrosino N, Vitacca M.

A Wearable Tele-Health System towards Monitoring COVID-19 and Chronic Diseases.

Home Management of Patients with Moderate or Severe Respiratory Failure Secondary to COVID-19, Using Remote Monitoring and Oxygen with or without HFNC.
**LONG-TERM IMPACT OF COVID-19**

*Composed in collaboration with Roy Meys (PhD student of the department of Research and Development in Ciro, Horn, the Netherlands; an overview of the most recent papers published in this field can also be found on https://www.ciro-horn.nl/en/crio-academy/overview-covid-19-publications)*

Online Assessment of the Burden of COVID-19 for patients: the ABCoV-tool.
van Noort EMJ, Claessens D, Moor C, Berg CVD, Kasteleyn M, In ‘t Veen J, Van Schayck O, Chavannes NH.

Attributes and predictors of long COVID.

Bronchodilator reversibility testing in post-COVID-19 patients undergoing pulmonary rehabilitation.

Medium-term outcome of severe to critically ill patients with SARS-CoV-2 infection.


High-dimensional characterization of post-acute sequelae of COVID-19.
Long-term outcomes of patients following hospitalization for COVID-19: a prospective observational study.

Nutritional evaluation and management of critically ill patients with COVID-19 during post-intensive care rehabilitation.

Symptoms, Pulmonary Function and Functional Capacity Four Months after COVID-19.

Decreased quality of life and spirometric alterations even after mild-moderate COVID-19.

Feasibility of an Outpatient Training Program after COVID-19.

Persistent post-covid symptoms in healthcare workers.

Inflammatory profiles and clinical features of COVID-19 survivors three months after discharge in Wuhan, China.
Functional outcomes in the inpatient rehabilitation setting following severe COVID-19 infection.
Olezene CS, Hansen E, Steere HK, Giacino JT, Polich GR, Borg-Stein J, Zafonte RD, Schneider JC.

Post-covid syndrome in individuals admitted to hospital with covid-19: retrospective cohort study.
Ayoubkhani D, Khunti K, Nafilyan V, Maddox T, Humberstone B, Diamond I, Banerjee A.
BMJ. 2021 Mar 31;372:n693. doi: 10.1136/bmj.n693.


Persistent neurologic symptoms and cognitive dysfunction in non-hospitalized Covid-19 "long haulers".
Graham EL, Clark JR, Orban ZS, Lim PH, Szymanski AL, Taylor C, DiBiase RM, Jia DT, Balabanov R, Ho SU, Batra A, Liotta EM, Koralnik IJ.

Post-acute COVID-19 syndrome.

Four-Month Clinical Status of a Cohort of Patients After Hospitalization for COVID-19.

Long COVID and the role of physical activity: a qualitative study.

Two-months quality of life of COVID-19 invasively ventilated survivors; an Italian single-center study.

Cardiac disease from accelerated FEV(1) decline and acute exacerbations: time to rethink comorbidities in COPD.
Çolak Y.

FEV1 Minimum Important Difference vs Minimal Detectable Difference (MDD)? In Search of the Unicorn.
Crim C, Frith LJ, Midwinter D, Donohue JF.

Contemporary perspectives in COPD: Patient burden, the role of gender and trajectories of multimorbidity.
Buttery SC, Zysman M, Vikjord SAA, Hopkinson NS, Jenkins C, Vanfleteren LEGW.

Sex and Gender Omic biomarkers in men and women with COPD: Considerations for precision medicine.
Seven Pillars of Small Airways Disease in Asthma and COPD - Supporting Opportunities for Novel Therapies.

Catching "Early" COPD - The Diagnostic Conundrum.
Por Yip K, Stockley RA, Sapey E.

Using the Medication Adherence Reasons Scale (MAR-Scale) in asthma and chronic obstructive pulmonary disease to determine the extent and identify the reasons for non-adherence.
Unni EJ, Gupta S, Sternbach N.

Self-management interventions for adults living with Chronic Obstructive Pulmonary Disease (COPD): The development of a Core Outcome Set for COMPAR-EU project.

Particulate Matter and Cardiovascular Risk in Adults with Chronic Obstructive Pulmonary Disease.
Alexeeff SE, Deosaransingh K, Liao NS, Van Den Eeden SK, Schwartz J, Sidney S.
Effects of core-postural stabilisation on fluoroscopy diaphragmatic measurement and
dyspnea in chronic obstructive pulmonary disease: A randomized single-blinded clinical trial.
Jung G, Park C, Hwang J, You JSH, Yi C, Choi WJ.

Chronic Obstructive Pulmonary Disease Symptom Cluster Composition, Associated Factors,
and Methodologies: A Systematic Review.
Fei F, Koffman J, Zhang X, Gao W.
ahead of print.

A syndromic approach to assess diagnosis and management of patients presenting with
respiratory symptoms to healthcare facilities in Vietnam.
Huang W-C, Fox GJ, Pham NY, Nguyen TA, Vu VG, Ngo QC, Nguyen VN, Jan S, Negin J, Tuyet
T, Le L, Marks GB.
2021 Jan.

"She Showed Me How to Help Myself": A Qualitative Study of Health Coaching for
Management of Chronic Obstructive Pulmonary Disease.

A modified Delphi consensus study to identify improvement proposals for COPD
management amongst clinicians and administrators in Spain.
Arriero-Marín JM, Orozco-Beltrán D, Carratalá-Munuera C, López-Pineda A, Gil-Guillén VF,
Soler-Cataluña JJ, Chiner-Vives E, García RN, Quesada JA.

Prediction of COPD risk accounting for time-varying smoking exposures.
Chang JT, Meza R, Levy DT, Arenberg D, Jeon J.
2021.

COPD Management in Community Pharmacy Results in Improved Inhaler Use,
Immunization Rate, COPD Action Plan Ownership, COPD Knowledge, and Reductions in
Exacerbation Rates.
eCollection 2021.
Binge Drinking Moderates the Association Between Chronic Lung Disease and E-Cigarette Use.

Exploring the Relationship between Disease Awareness and Outcomes in Patients with Chronic Obstructive Pulmonary Disease.

The Evaluation of Disease Awareness, Caregiver Burden and Workday Loss in Caregivers of COPD Patients.

Exploring patients' and health professionals' perspectives on health literacy needs in the context of chronic obstructive pulmonary disease.

'I'm fine!': Assertions of lack of support need among patients with chronic obstructive pulmonary disease: A mixed-methods study.

The influence of social support on COPD outcomes mediated by depression.
Nocturnal Heart Rate and Cardiac Repolarization in Lowlanders With Chronic Obstructive Pulmonary Disease at High Altitude: Data From a Randomized, Placebo-Controlled Trial of Nocturnal Oxygen Therapy.

Influence of government-driven quality assessment program on patients with chronic obstructive pulmonary disease.

The information needs of people with COPD-The holistic approach with special reference to gender and time since diagnosis.

The Effect of Nursing Care Applied to Patients with Chronic Obstructive Pulmonary Disease on Their Sexual Experiences and Quality of Life.

Profile and preliminary results of Iranian sub cohort chronic obstructive pulmonary disease (COPD) in Shahrekord PERSIAN cohort in southwest Iran.

Nighttime features derived from topic models for classification of patients with COPD.

Research and Healthcare Priorities of Individuals Living with COPD.
Blended Self-Management Interventions to Reduce Disease Burden in Patients With Chronic Obstructive Pulmonary Disease and Asthma: Systematic Review and Meta-analysis.
Song X, Hallensleben C, Zhang W, Jiang Z, Shen H, Gobbens RJJ, Kleij RMJJV, Chavannes NH, Versluis A.

"SingStrong": Singing for better lung health in COPD - A pilot study.
Cahalan R, Green J, Meade C, Griffin A.

Outcomes of Patients Treated with Prehospital Noninvasive Ventilation: Observational Retrospective Multicenter Study in the Northern French Alps.

Effects of influenza vaccination on clinical outcomes of chronic obstructive pulmonary disease: a systematic review and meta-analysis.

The Effects of Low Pressure Domiciliary Non-Invasive Ventilation on Clinical Outcomes in Patients with Severe COPD Regardless Having Hypercapnia.
Theunisse C, Ponssen HH, de Graaf NTC, Scholten-Bakker M, Willemsen SP, Cheung D.

The Investigation of Falls and Balance from the Perspective of Activities of Daily Living in Patients with COPD.
Birinci T, Pınar Kısa E, Akıncı B, Kuran Aslan G, Kıyan E.

Evaluation and Management Outcomes and Burdens in Patients with Refractory Chronic Cough Referred for Behavioral Cough Suppression Therapy.
Slovarp LJ, Jetté ME, Gillespie AI, Reynolds JE, Barkmeier-Kraemer JM.


The impact of Tai Chi and mind-body breathing in COPD: Insights from a qualitative sub-study of a randomized controlled trial.

Effects of a cognitive rehabilitation programme on cognitive function, self-management and quality of life in patients with chronic obstructive pulmonary disease.

Slow chest compression acutely reduces dynamic hyperinflation in people with chronic obstructive pulmonary disease: a randomized cross-over trial.

The Perception of Physicians on Gender-Specific Differences in the Diagnosis of COPD: Results from a Questionnaire-Based Survey.

Chronic breathlessness in advanced cardiorespiratory disease: patient perceptions of opioid use.

The Effect of Religious Coping on the Satisfaction with Life Among Turkish Patients with Chronic Obstructive Pulmonary Disease.

The prevalence and related factors of fatigue in patients with COPD: a systematic review.
The coexistence of asthma and COPD: risk factors, clinical history and lung function trajectories.

The Perspectives of Patients with Chronic Diseases and Their Caregivers on Self-Management Interventions: A Scoping Review of Reviews.

Drawing on emotions: the evolving role of art therapy.
Cheng C, Elamin ME, May H, Kennedy M.

Pulmonary hypertension due to interstitial lung disease or chronic obstructive pulmonary disease: a patient experience study of symptoms and their impact on quality of life.
DuBrock HM, Nathan SD, Reeve BB, Kolaitis NA, Mathai SC, Classi PM, Nelsen AC, Olayinka-Amao B, Norcross LN, Martin SA.

Clinical Characterization of Nursing Facility Residents With Chronic Obstructive Pulmonary Disease.
Davidson HE, Radlowski P, Han L, Shireman TI, Dembek C, Niu X, Gravenstein S.

Dyspnoea and symptom burden in mild-moderate COPD: the Canadian Cohort Obstructive Lung Disease Study.


