ERS literature update
March-April 2020

Composed for group 1.02 by Anouk W. Vaes, PhD and Sarah Houben-Wilke, PhD of the department of Development and Education in CIRO, Horn, the Netherlands

PULMONARY REHABILITATION

The Impact of Pulmonary Rehabilitation on Chronic Pain in People with COPD.
Lee AL, Butler SJ, Varadi RG, Goldstein RS, Brooks D.
COPD. 2020 Mar 5:1-10. doi: 10.1080/15412555.2020.1733952. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/32131643

The Effects of a Video Intervention on Post-Hospitalization Pulmonary Rehabilitation Uptake: A Randomized Controlled Trial.
Barker RE, Jones SE, Banya W, Fleming S, Kon SSC, Clarke SF, Nolan CM, Patel S, Walsh JA, Maddocks M, Farquhar M, Bell D, Wedzicha JA, Man WD.
Am J Respir Crit Care Med. 2020 Mar 17. doi: 10.1164/rccm.201909-1878OC. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/32182098

Effect of 8-week Pulmonary Rehabilitation Program on Dyspnea and Functional Capacity of Patients on Waiting List for Lung Transplantation.
Kılıç L, Pehlivan E, Balcı A, Bakan ND.
Turk Thorac J. 2020 Mar 1;21(2):110-115. doi: 10.5152/TurkThoracJ.2019.18202.
https://www.ncbi.nlm.nih.gov/pubmed/32203001

Maintaining quality of life in patients with chronic obstructive pulmonary disease (COPD) by extending the maintenance phase of community-based pulmonary rehabilitation: protocol for a randomised controlled trial (ComEx3 Study).
Lopez D, Cecins N, Cockram J, Collins A, Landers H, Sanfilippo F, Briffa T, Brims F, Geelhoed E, Murray K, Phillips K, Preen D, Jenkins S.
BMJ Open Respir Res. 2020 Mar;7(1). pii: e000548. doi: 10.1136/bmjresp-2019-000548.
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What to do When Pulmonary Rehabilitation (PR) is Unavailable.
Corn J, Malanga E, Pruitt K.
Am J Respir Crit Care Med. 2020 Apr 2. doi: 10.1164/rccm.2020C4. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/32239965

"You Leave There Feeling Part of Something": A Qualitative Study of Hospitalized COPD Patients' Perceptions of Pulmonary Rehabilitation.
Spitzer KA, Stefan MS, Drake AA, Pack QR, Lagu T, Mazor KM, Pinto-Plata V, Lindenauer PK.
Int J Chron Obstruct Pulmon Dis. 2020 Mar 17;15:575-583. doi: 10.2147/COPD.S234833. eCollection 2020.
https://www.ncbi.nlm.nih.gov/pubmed/32231430

Supervised pulmonary tele-rehabilitation versus pulmonary rehabilitation in severe COPD: a randomised multicentre trial.
Hansen H, Bieler T, Beyer N, Kallemose T, Wilcke JT, Østergaard LM, Frost Andeassen H, Martinez G, Lavesen M, Frølich A, Godtfredsen NS.
Thorax. 2020 Mar 30. pii: thoraxjnl-2019-214246. doi: 10.1136/thoraxjnl-2019-214246. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/32229541

Is peak expiratory flow an accurate sarcopenia screening tool in older patients referred to respiratory rehabilitation?
Marco E, Sanchez-Rodriguez D, López-Escobar J, Meza D, Dávalos-Yerovi V, Duran X, Messaggi-Sartor M, Guillén-Solà A, Muniesa JM, Duarte E.
Eur Geriatr Med. 2020 Apr;11(2):297-306. doi: 10.1007/s41999-019-00286-x. Epub 2020 Jan 13.
https://www.ncbi.nlm.nih.gov/pubmed/32297196

Effect of high-flow nasal therapy during early pulmonary rehabilitation in patients with severe AECOPD: a randomized controlled study.
Tung LF, Shen SY, Shih HH, Chen YT, Yen CT, Ho SC.
Respir Res. 2020 Apr 15;21(1):84. doi: 10.1186/s12931-020-1328-z.
https://www.ncbi.nlm.nih.gov/pubmed/32293463

Effects of comprehensive and intensive pulmonary rehabilitation and nutritional support on quality of life and functional status in patients with chronic obstructive pulmonary disease.
Korkmaz C, Demirbas S, Vatansev H, Yildirim E, Teke T, Zamani A.
J Int Med Res. 2020 Apr;48(4):300060520919567. doi: 10.1177/0300060520919567.
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EXERCISE TESTING AND TRAINING

Respiratory and locomotor muscle blood flow during exercise in health and chronic obstructive pulmonary disease.
Vogiatzis I, Louvaris Z, Wagner PD.
Exp Physiol. 2020 Feb 27. doi: 10.1113/EP088104. [Epub ahead of print]
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Shorter corridors can be used for the six-minute walk test in subjects with chronic lung diseases.
Gochicoa-Rangel L, Ramírez-José MC, Troncoso-Huitrón P, Silva-Cerón M, Guzmán-Valderrábano C, Lechuga-Trejo I, Cid-Juárez S, Torre-Bouscoulet L.
Respir Investig. 2020 Feb 26. pii: S2212-5345(20)30022-8. doi: 10.1016/j.resinv.2019.12.009. [Epub ahead of print]
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Balance impairment and effectiveness of exercise intervention in Chronic Obstructive Pulmonary Disease-a systematic review.
Chuatrakoon B, Ngai SP, Sungkarat S, Uthaikhup S.
Arch Phys Med Rehabil. 2020 Feb 27. pii: S0003-9993(20)30107-6. doi: 10.1016/j.apmr.2020.01.016. [Epub ahead of print]
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Presence or Absence of Skeletal Muscle Dysfunction in Chronic Obstructive Pulmonary Disease is Associated With Distinct Phenotypes.
Cruthirds CL, van der Meij BS, Wierzchowska-McNew A, Deutz NEP, Engelen MPKJ.
Arch Bronconeumol. 2020 Feb 27. pii: S0300-2896(20)30021-1. doi: 10.1016/j.arbres.2019.12.034. [Epub ahead of print]
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Kinetic analyses as a tool to examine physiological exercise responses in a large sample of patients with COPD.
Buekers J, Aerts JM, Theunis J, Houben-Wilke S, Franssen FME, Uszko-Lencer NHMK, Wouters EFM, Simons S, De Boever P, Spruit MA.
J Appl Physiol (1985). 2020 Mar 5. doi: 10.1152/japplphysiol.00851.2019. [Epub ahead of print]
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The role of phenotype on ventilation and exercise capacity in patients affected by COPD: a retrospective study.
Rinaldo RF, Mondoni M, Comandini S, Lombardo P, Vigo B, Terraneo S, Santus P, Carugo S, Centanni S, Marco FD.
Multidiscip Respir Med. 2020 Feb 3;15(1):476. doi: 10.4081/mrm.2020.476. eCollection 2020 Jan 28.
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The Value of Cardiopulmonary Exercise Testing in Determining Severity in Patients with both Systolic Heart Failure and COPD.
Goulart CDL, Dos Santos PB, Caruso FR, Arêas GPT, Marinho RS, Camargo PF, Alexandre TDS, Oliveira CR, da Silva ALG, Borghi-Silva A, Mendes RG, Roscani MG.
Sci Rep. 2020 Mar 9;10(1):4309. doi: 10.1038/s41598-020-61199-5.
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The Supine Position Improves but does not Normalize the Blunted Pulmonary Capillary Blood Volume Response to Exercise in Mild COPD.
Ross BA, Brotto AR, Fuhr DP, Phillips DB, Van Diepen S, Bryan TL, Stickland MK.
J Appl Physiol (1985). 2020 Mar 12. doi: 10.1152/japplphysiol.00890.2019. [Epub ahead of print]
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Cardiopulmonary exercise testing in chronic obstructive pulmonary disease: an update on its clinical value and applications.
Boutou AK, Zafeiridis A, Pitsiou G, Dipla K, Kioumis I, Stanopoulos I.
Clin Physiol Funct Imaging. 2020 Mar 16. doi: 10.1111/cpf.12627. [Epub ahead of print]
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Change in $\dot{V}O_{2peak}$ in response to aerobic exercise training and the relationship with exercise prescription in people with COPD: A systematic review and meta-analysis.
Ward TJC, Plumptre CD, Dolmage TE, Jones AV, Trethewey R, Divall P, Singh SJ, Lindley MR, Steiner MC, Evans RA.
Chest. 2020 Mar 12. pii: S0012-3692(20)30440-2. doi: 10.1016/j.chest.2020.01.053. [Epub ahead of print]
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The impact of exercise training on fatigue in patients with chronic obstructive pulmonary disease: a systematic review and meta-analysis.
Paneroni M, Vitacca M, Venturelli M, Simonelli C, Bertacchini L, Scalvini S, Schena F, Ambrosino N.
Pulmonology. 2020 Mar 14. pii: S2531-0437(20)30028-3. doi: 10.1016/j.pulmoe.2020.02.004. [Epub ahead of print]
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Exercise training increases respiratory muscle strength and exercise capacity in patients with chronic obstructive pulmonary disease and respiratory muscle weakness.
Chiu KL, Hsieh PC, Wu CW, Tzeng IS, Wu YK, Lan CC.
Heart Lung. 2020 Mar 18. pii: S0147-9563(20)30092-3. doi: 10.1016/j.hrtlng.2020.03.005. [Epub ahead of print]
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Association between 6 min pegboard and ring test and arm performance in GOLD stage II-III patients.
Calik-Kutukcu E, Arikan H, Vardar-Yagli N, Saglam M, Inal-Ince D, Oksuz C, Savci S, Duger T, Coplu L.
Wien Klin Wochenschr. 2020 Mar 25. doi: 10.1007/s00508-020-01635-8. [Epub ahead of print]
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Inspiratory Muscle Training in COPD.
Figueiredo RIN, Azambuja AM, Cureau FV, Sbruzzi G.
Respir Care. 2020 Mar 24. pii: respcare.07098. doi: 10.4187/respcare.07098. [Epub ahead of print]
https://www.ncbi.nlm.nih.gov/pubmed/32209709

EFFECTIVENESS AND SAFETY OF SUPERVISED HOME-BASED PHYSICAL TRAINING IN PATIENTS WITH COPD ON LONG-TERM HOME OXYGEN THERAPY: A RANDOMIZED TRIAL.
Kovelis D, Gomes ARS, Mazzarin C, Biazim SK, Pitta F, Valderramas S.
Chest. 2020 Mar 27. pii: S0012-3692(20)30546-8. doi: 10.1016/j.chest.2020.02.063. [Epub ahead of print]
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Effect of portable non-invasive ventilation on exercise tolerance in COPD: one size does not fit all.
Chynkiamis N, Armstrong M, Hume E, Alexiou C, Snow L, Lane ND, Hartley T, Bourke SC, Vogiatzis I.
Respir Physiol Neurobiol. 2020 Apr 4:103436. doi: 10.1016/j.resp.2020.103436. [Epub ahead of print]
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Effects of high intensity interval training on exercise capacity in people with chronic pulmonary conditions: a narrative review.
Sawyer A, Cavalheri V, Hill K.
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NIV Is not Adequate for High Intensity Endurance Exercise in COPD.
Bonnevie T, Gravier FE, Fresnel E, Kerfourn A, Medrinal C, Prieur G, Combret Y, Muir JF, Cuvelier A, Debeaumont D, Reychler G, Patout M, Viacroze C.
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Effects of Tai Chi training on the physical and mental health status in patients with chronic obstructive pulmonary disease: a systematic review and meta-analysis.
Guo C, Xiang G, Xie L, Liu Z, Zhang X, Wu Q, Li S, Wu Y.
J Thorac Dis. 2020 Mar;12(3):504-521. doi: 10.21037/jtd.2020.01.03.
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High-Flow Oxygen Therapy During Exercise Training in Patients With Chronic Obstructive Pulmonary Disease and Chronic Hypoxemia: A Multicenter Randomized Controlled Trial.

Vitacca M, Paneroni M, Zampogna E, Visca D, Carlucci A, Cirio S, Banfi P, Pappacoda G, Trianni L, Brogneri A, Belli S, Paracchini E, Aliani M, Spinelli V, Gigliotti F, Lanini B, Lazzeri M, Clini EM, Malovini A, Ambrosino N.
Phys Ther. 2020 Apr 24. pii: pzaa076. doi: 10.1093/ptj/pzaa076. [Epub ahead of print]
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Combining Dynamic Hyperinflation with Dead Space Volume during Maximal Exercise in Patients with Chronic Obstructive Pulmonary Disease.
Chuang ML.
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Muscle Oxidative Capacity Is Reduced in Both Upper and Lower Limbs in COPD.
Adami A, Corvino RB, Calmelat RA, Porszasz J, Casaburi R, Rossiter HB.
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Effectiveness of an exercise training programme COPD in primary care: A randomized controlled trial.
Fastenau A, van Schayck OC, Winkens B, Aretz K, Gosselink R, Muris JW.
Respir Med. 2020 Apr - May;165:105943. doi: 10.1016/j.rmed.2020.105943. Epub 2020 Mar 20.
https://www.ncbi.nlm.nih.gov/pubmed/32308200

Stability and Predictors of Poor 6-min Walking Test Performance over 2 Years in Patients with COPD.
Sánchez-Martínez MP, Bernabeu-Mora R, Martínez-González M, Gacto-Sánchez M, Martín San Agustín R, Medina-Mirapeix F.
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Passive Leg movement in Chronic Obstructive Pulmonary Disease: Evidence of locomotor muscle vascular dysfunction.
Ives SJ, Layec G, Hart CR, Trinity JD, Gifford JR, Garten RS, Witman MAH, Sorensen JR, Richardson RS.
J Appl Physiol (1985). 2020 Apr 23. doi: 10.1152/japplphysiol.00568.2019. [Epub ahead of print]
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PHYSICAL ACTIVITY

Daily physical activity and related risk factors in COPD.
Albarrati AM, Gale NS, Munnery MM, Cockcroft JR, Shale DJ.
BMC Pulm Med. 2020 Mar 5;20(1):60. doi: 10.1186/s12890-020-1097-y.

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Patterns and Correlates of Sedentary Behaviour Accumulation and Physical Activity in People with Chronic Obstructive Pulmonary Disease: A Cross-Sectional Study.
Cheng SWM, Alison JA, Stamatakis E, Dennis SM, McKeough ZJ.
COPD. 2020 Mar 26:1-9. doi: 10.1080/15412555.2020.1740189. [Epub ahead of print]
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Influence of Previous-Year Physical Activity on the Cognition of COPD Older Patients During Exacerbation.
Torres-Sánchez I, Ortiz-Rubio A, Cabrera-Martos I, Granados-Santiago M, López-Torres I, Valenza MC.
J Phys Act Health. 2020 Apr 1:1-6. doi: 10.1123/jpah.2019-0455. [Epub ahead of print]
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Burge AT, Cox NS, Abramson MJ, Holland AE.
Cochrane Database Syst Rev. 2020 Apr 16;4:CD012626. doi: 10.1002/14651858.CD012626.pub2.
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Changes in problematic activities of daily living in persons with COPD during 1 year of usual care.
Nakken N, Janssen DJA, Wouters EFM, van den Bogaart EHA, Muris JWM, de Vries GJ, Bootsma GP, Gronenschild MHM, Delbressine JML, van Vliet M, Spruit MA.
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TELEMEDICINE*

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

Developing a strategic understanding of telehealth service adoption for COPD care management: A causal loop analysis of healthcare professionals.
Gaveikaite V, Grundstrom C, Lourida K, Winter S, Priori R, Chouvarda I, Maglaveras N.
PLoS One. 2020 Mar 5;15(3):e0229619. doi: 10.1371/journal.pone.0229619. eCollection 2020.
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Compliance and Utility of a Smartphone App for the Detection of Exacerbations in Patients With Chronic Obstructive Pulmonary Disease: Cohort Study.
Rodriguez Hermosa JL, Fuster Gomila A, Puente Maestu L, Amado Diago CA, Callejas González FJ, Malo De Molina Ruiz R, Fuentes Ferrer ME, Álvarez Sala-Walther JL, Calle Rubio M.
JMIR Mhealth Uhealth. 2020 Mar 19;8(3):e15699. doi: 10.2196/15699.

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Evaluating Mobile Apps and Biosensing Devices to Monitor Physical Activity and Respiratory Function in Smokers With and Without Respiratory Symptoms or Chronic Obstructive Pulmonary Disease: Protocol for a Proof-of-Concept, Open-Label, Feasibility Study.
Sharman A, Zhussupov B, Sharman D, Kim I.
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The Health Diary Telemonitoring and Hospital-Based Home Care Improve Quality of Life Among Elderly Multimorbid COPD and Chronic Heart Failure Subjects.
Persson HL, Lyth J, Lind L.
Int J Chron Obstruct Pulmon Dis. 2020 Mar 9;15:527-541. doi: 10.2147/COPD.S236192. eCollection 2020.
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Evaluating an Intervention Program Using WeChat for Patients With Chronic Obstructive Pulmonary Disease: Randomized Controlled Trial.
Jiang Y, Liu F, Guo J, Sun P, Chen Z, Li J, Cai L, Zhao H, Gao P, Ding Z, Wu X.
J Med Internet Res. 2020 Apr 21;22(4):e17089. doi: 10.2196/17089.
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Home-based telerehabilitation software systems for remote supervising: a systematic review.
Hosseiniravandi M, Kahlaee AH, Karim H, Ghamkhar L, Safdari R. Int J Technol Assess Health Care. 2020 Mar 10:1-13. doi: 10.1017/S0266462320000021. Epub ahead of print. PMID: 32151291.
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A multicenter randomized clinical trial to evaluate the efficacy of telemonitoring in patients with advanced heart and lung chronic failure. Study protocol for the ATLAN_TIC project.
Hernandez-Quiles C, Bernabeu-Wittel M, Garcia-Serrano MDR, Vergara-Lopez S, Perez-de-Leon JA, Ruiz-Cantero A, Lopez-Jimeno W, Quero-Haro M, Terceño-Rodriguez E, Garcia-Jimenez R, Baron-Franco B, Ollero-Baturone M. Contemp Clin Trials Commun. 2020 Jan 3;17:100512. doi: 10.1016/j.conctc.2019.100512. PMID: 31938754; PMCID: PMC6953642.
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Reflections on Digital Health Tools for Respiratory Applications.
Dundon A, Cipolla D, Mitchell J, Lyapustina S. J Aerosol Med Pulm Drug Deliv. 2020 Mar 16. doi: 10.1089/jamp.2020.1597. Epub ahead of print. PMID: 32176547.
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Digital health interventions for chronic diseases: a scoping review of evaluation frameworks.
Bashi N, Fatehi F, Mosadeghi-Nik M, Askari MS, Karunanithi M. BMJ Health Care Inform. 2020 Mar;27(1):e100066. doi: 10.1136/bmjhci-2019-100066. PMID: 32156751.
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PATIENT REPORTED OUTCOME MEASURES

Subjective sleep quality is associated with disease status in COPD patients. The cross-sectional Greek UNLOCK study.
Ierodiakonou D, Bouloukaki I, Kampouraki M, Papadokostakis P, Poulorinakis I, Lampraki I, Athanasiou P, Schiza S, Tsiligianni I; Greek UNLOCK Group.
Sleep Breath. 2020 Feb 26. doi: 10.1007/s11325-020-02039-8. [Epub ahead of print]
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Translation and Cultural Adaptation of PROactive Instruments for COPD in French and Influence of Weather and Pollution on Its Difficulty Score.
Vaidya T, Thomas-Ollivier V, Hug F, Bernady A, Le Blanc C, de Bisschop C, Chambellan A.
Int J Chron Obstruct Pulmon Dis. 2020 Mar 3;15:471-478. doi: 10.2147/COPD.S214410. eCollection 2020.
https://www.ncbi.nlm.nih.gov/pubmed/32184584

Minimal clinically important differences for patient-reported outcome measures of fatigue in patients with COPD after pulmonary rehabilitation.
Rebelo P, Oliveira A, Andrade L, Valente C, Marques A.
Chest. 2020 Mar 14. pii: S0012-3692(20)30442-6. doi: 10.1016/j.chest.2020.02.045. [Epub ahead of print]
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Construct validity and reliability of the Brazilian version of the Falls Efficacy Scale in patients with COPD.
Scremim CF, Simões BFPMC, de Barros JA, Valderramas S.
Pulmonology. 2020 Mar 18. pii: S2531-0437(20)30030-1. doi: 10.1016/j.pulmoe.2020.01.008. [Epub ahead of print]
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Validity and Reliability of the Turkish Version of the London Chest Activity of Daily Living Scale in Obstructive Lung Diseases.
Saka S, Savcı S, Kütükcü EÇ, Sağlam M, Yağlı NV, İnce Dİ, Güçlü MB, Özalp Ö, Arıkan H, Karakaya G, Çöplü L.
Turk Thorac J. 2020 Mar 1;21(2):116-121. doi: 10.5152/TurkThoracJ.2019.18155.
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The association of patient-reported symptoms and clinical and lung function parameters in patients with chronic obstructive pulmonary disease in stable phase.
Vulpi MR, Liotino V, Dragonieri S, Buonamico E, Dimitri M, Capozzolo A, Resta E, Lozupone M, Panza F, Resta O.
Expert Rev Respir Med. 2020 Apr 4:1-7. doi: 10.1080/17476348.2020.1747437. [Epub ahead of print]
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Polyunsaturated fatty acids, lung function, and health-related quality of life in patients with chronic obstructive pulmonary disease.
Choi H, Kim T.
Yeungnam Univ J Med. 2020 Apr 7. doi: 10.12701/yujm.2020.00052. [Epub ahead of print]
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Repurposing the COPD Assessment Test: Another Step Forward for Bronchiectasis.
McShane PJ, Aksamit TR.
Chest. 2020 Apr;157(4):749-750. doi: 10.1016/j.chest.2020.02.011.
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Development and Validation of the Modified Patient-Reported Outcome Scale for Chronic Obstructive Pulmonary Disease (mCOPD-PRO).
Li J, Wang J, Xie Y, Feng Z.
Int J Chron Obstruct Pulmon Dis. 2020 Mar 27;15:661-669. doi: 10.2147/COPD.S240842. eCollection 2020.
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A Structural Equation Model of Health-Related Quality of Life among Thai men with COPD.
Peepratoom B, Low G, Malathum P, Chai-Aroon T, Chuchottaworn C, Arpanantikul M.
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Validity of EQ-5D utility index and minimal clinically important difference estimation among patients with chronic obstructive pulmonary disease.
Bae E, Choi SE, Lee H, Shin G, Kang D.
BMC Pulm Med. 2020 Mar 23;20(1):73. doi: 10.1186/s12890-020-1116-z.
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Severe Fatigue is Highly Prevalent in Patients with IPF or Sarcoidosis.
Bloem AEM, Mostard RLM, Stoot N, Vercoulen JH, Peters JB, Janssen DJA, Custers JWH, Spruit MA.
J Clin Med. 2020 Apr 20;9(4). pii: E1178. doi: 10.3390/jcm9041178.
https://www.ncbi.nlm.nih.gov/pubmed/32325989

INTERSTITIAL LUNG DISEASE

Interstitial lung disease is a risk factor for ischaemic heart disease and myocardial infarction.
Clarson LE, Bajpai R, Whittle R, Belcher J, Abdul Sultan A, Kwok CS, Welsh V, Mamas M, Mallen CD.
Heart. 2020 Feb 29. pii: heartjnl-2019-315511. doi: 10.1136/heartjnl-2019-315511. [Epub ahead of print]
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Ambulatory oxygen in fibrotic ILD: a pilot, randomised, triple-blinded, sham-controlled trial.
Khor YH, Holland AE, Goh NS, Miller BR, Vlahos R, Bozinovski S, Lahham A, Glaspole I, McDonald CF.
Chest. 2020 Feb 27. pii: S0012-3692(20)30343-3. doi: 10.1016/j.chest.2020.01.049. [Epub ahead of print]
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Impact of Depression on Patients With Idiopathic Pulmonary Fibrosis.
Tzouvelekis A, Karampitsakos T, Kourtidou S, Bouros E, Tzilas V, Katsaras M, Antonou C, Dassiou M, Bouros D.
Front Med (Lausanne). 2020 Feb 7;7:29. doi: 10.3389/fmed.2020.00029. eCollection 2020.
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COVID-19*

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

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