



Respiratory Care Bulletin

January 2025

The aim of this current awareness bulletin is to provide a digest of recent guidelines, reports, research and best practice on respiratory care in the NHS.

Please note: This bulletin does not include Long Covid evidence as there is a separate bulletin on this topic.

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Artificial Intelligence

AI/ML driven prediction of COPD exacerbations and readmissions: a systematic review and meta-analysis.

Niraula P.;Upreti M.;Poudel B.;Kadariya S. and Kunwar, S. ,2025), Frontiers in Digital Health, 7(pagination), pp. Article Number: 1641356. Date of Publication: 2025

Access or request full text: <https://libkey.io/10.3389/fdgth.2025.1641356>

Artificial Intelligence Applications in Chronic Obstructive Pulmonary Disease: A Global Scoping Review of Diagnostic, Symptom-Based, and Outcome Prediction Approaches.

Pinheira A.;CasalGuisande M.;RepresasRepresas C.;TorresDuran M.;ComesanaCampos A. and FernandezVillar, A. ,2025), Biomedicine, 13(12) (pagination), pp. Article Number: 3053. Date of Publication: December 2025

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AI enhancing differential diagnosis of acute chronic obstructive pulmonary disease and acute heart failure

Lao, Yu;Ren, Hao;Ma, Zhenxin;Sun, Yu;Li, Dan;Tan, Ning;Cheng, Weibin and Jin, Wen ,(Dec 4 2025), iScience, 29(1), pp. 114197

Access or request full text: <https://libkey.io/10.1016/j.isci.2025.114197>

Asthma

Efficacy of biologic agents in patients with comorbid asthma and chronic rhinosinusitis with nasal polyps: a systematic review and meta-analysis of randomised controlled trials

Kyriakopoulos, Christos;Ntritsos, Georgios;Gogali, Athena;Papanikolaou, Anastasia;Angelopoulos, Vasileios;Oikonomou, Emmanouil D. and Kostikas, Konstantinos ,(Jan 14 2026), Eur.Respir.Rev., 35(179), pp. 250186. doi: 10.1183/16000617.0186-2025. Print 2026 Jan

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Effectiveness of biologics for reducing occlusive mucus plugs in patients with severe asthma: a systematic review

Aegerter, Helena;Brightling, Christopher E.;Dunican, Eleanor M.;Lambrecht, Bart N.;Lugogo, Njira L.;Newell, John D. Jr;Porsbjerg, Celeste;Svenningsen, Sarah;Clarke, Deborah;Lindsley, Andrew W.;Nordenmark, Lars;Ambrose, Christopher S. and Castro, Mario ,(Jan 21 2026), Respir.Res.,

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Efficacy and safety of mepolizumab in severe eosinophilic asthma: a systematic review and meta-analysis

Li Y., Li J., Yang H. and Wu, L. (2025) *Journal of Thoracic Disease*, 17(11), pp. 9425–9438

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Observational Analysis of Biological Remission as a Treatment Target for Severe Asthma: UK Severe Asthma Registry

McDowell P.J., Redmond C., Busby J., Patel P., Jackson D.J., Pfeffer P.E., Mansur A.H., Patel M., Brown T., Burhan H., Chaudhuri R., Rupani H. and Heaney, L.G. (2025) *Journal of Allergy and Clinical Immunology: In Practice*, 13(12), pp. 3264–3273.e10

Access or request full text: <https://libkey.io/10.1016/j.jaip.2025.08.027>

Oral systemic corticosteroids in children with acute asthma exacerbations: a systematic review and network meta-analysis.

Amagasa, S., Utsumi, S., Okajima, K. and Uematsu, S. (2025) *Archives of Disease in Childhood*, 110(10), pp. 824–831

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Pregnancy, asthma and exacerbations: a population-based cohort.

Lee, B., Wong, E., Tan, T., Rupani, H. and Bloom, C.I. (2025), *European Respiratory Journal*, 66(6)

Access or request full text: <https://libkey.io/10.1183/13993003.01327-2025>

Protocols and Pathways in Pediatric Critical Asthma: A Systematic Review and Meta-Analysis.

Maue, D.K., Willis, L.D., Lenox, J., Glogowski, J., Goodfellow, L., White, B., Abu-Sultaneh, S. and Miller, A. (2025) *Respiratory care*, 70(10), pp. 1323–1332

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Can assessment of small airway dysfunction support the diagnosis or management of asthma exacerbations in children? A systematic review.

Alshehri, Abdulrahman;Alshahrani, Mohammed Ibrahim;Sapey, Elizabeth;Stockley, Robert and Almeshari, Mohammed (2025), *BMC Pulmonary Medicine*,

Access or request full text: <https://libkey.io/10.1186/s12890-025-04045-6>

Efficacy of non-pharmacological interventions for childhood asthma: a systematic review and network meta-analysis.

Zhang, Jia;Ye, Zhen;Guo, Fangyang;Ye, Yumeng;Yu, Xinyu;Song, Zhijian;Zhang, Fenfen;Gu, Nan;Ao, Meiying and Liu, Qian (Nov 12 2025), *BMC Pediatr.*, 25(1), pp. 927

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Use of intravenous short-acting beta-2 agonist in addition to standard first-line treatment versus placebo in children and adolescents with acute severe asthma exacerbation: a systematic review and meta-analysis.

Abdelgadir, Ibtihal Siddiq;Hamud, Ali;Mudawi, Khalid;Alhaji, Adham;Zou Zou, Aiman;Tonbari, Amjad;Alnasif, Naim;Salem, Ramadan;Alsaleh, Salah;Pullattayil, Abdul Kareem and Powell, Colin (Nov 19 2025), *Arch.Dis.Child.*, 110(12), pp. 962–968

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Use of intravenous magnesium sulfate in addition to standard first-line treatment with inhaled/nebulised short-acting beta 2 agonist and systemic steroids in the management of acute asthma exacerbations in children: a systematic review and meta-analyses of



randomised controlled trials.

Hamud, Ali Abdalla;Mudawi, Khalid;Powell, Colin;Alsaleh, Salah;Salem, Ramadan;Alnasif, Naim;Tonbari, Amjad;Zou Zou, Aiman;Alhaji, Adham;Pullattayil, Abdul Kareem and Abdelgadir, Ibtihal Siddiq ,(Nov 19 2025), Arch.Dis.Child., 110(12), pp. 955–961

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Use of intravenous aminophylline in addition to the standard first-line treatment in children and adolescents with an acute asthma exacerbation: a systematic review and meta-analysis of randomised controlled trials.

Mudawi, Khalid;Hamud, Ali;Powell, Colin;Alnasif, Naim;Tonbari, Amjad;Zou Zou, Aiman;Alhaji, Adham;Salem, Ramadan;Alsaleh, Salah;Pullattayil, Abdul Kareem and Abdelgadir, Ibtihal Siddiq ,(Nov 19 2025), Arch.Dis.Child., 110(12), pp. 969–976

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Effect of yoga in children and adolescents with asthma: a systematic review and meta-analysis

Yadav, Rashmi;Kabra, Sushil Kumar;Jat, Kana Ram;Upadhyay, Ashish Datt and Lodha, Rakesh ,(Dec 23 2025), Journal of Asthma, 1-11

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The Dose-Response of Inhaled Corticosteroids in Combination Inhaled Corticosteroid/Long Acting Beta2-Agonist Maintenance Therapy for Asthma: A Systematic Review and Meta-Analysis.

Noble J.H., Warhurst S., Cullen R., Sayers R., Lynch F., Kulathinal J., Weatherall M. and Beasley, R.W. (2025), *Chest*, 168(6), pp. 1304–1316

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A qualitative interview study to investigate opportunities for improvement in routine asthma care using a clinical decision support system.

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Efficacy and safety of Depemokimab in asthma with eosinophilic phenotype: a systematic review and meta-analysis of randomized controlled trials.

Gill, Basir Afzaal;Ijaz, Anum;Fatima, Noor;Ahmed, Arsalan;Noor, Ayesha;Sharif, Samia;Fatima, Ishrat;Saeeda, Amna;Devi, Hansa and Saddique, Muhammad Nabeel ,(Dec 03 2025), BMC Immunol., 27(1), pp. 2

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Association between mental health disorders and asthma exacerbations in adults: a retrospective cohort study in UK primary care.

Pickard-Michels, Tris;Adderley, Nicola J.;Nagakumar, Prasad;Simms-Williams, Nikita;Sitch, Alice;Thayakaran, Rasiah;Punyadasa, Dhanusha;Nirantharakumar, Krishnarajah and Haroon, Shamil ,(Nov 17 2025), BMJ open respiratory research, 12(1)

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Efficacy and safety of probiotics in the treatment of pediatric asthma: a systematic review and meta-analysis.

Hu, Gang;Liao, Ke;Yu, Yunfeng;Yang, Xinyu;Li, Fan and Wang, Mengqing , (2025), *Front.Med.(Lausanne)*, 12, pp. 1730100

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Impact of Structured Aerobic Exercise on Symptom Burden and Lung Function in Adults with Asthma: A Prospective Cohort Study.

Kristo, Branko;Maglica, Mirko;Petro, Marijana;Vidovic, Ivana;Vukoja, Ana;Hrkac, Antonija and Perkovic, Roberta ,(Jul 2025), *J.Clin.Pract.Res.*, 47(4), pp. 355–363

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Values and Preferences of Patients and Caregivers Regarding the Management of Moderate-to-Severe Asthma: A Systematic Review and Qualitative Evidence Synthesis.

Rayner, Daniel G.;Li, Shelly-Anne;Ferri, Dario M.;Silang, Isabella;Fernandes, Athena;Chu, Alexandro W. L.;Tse, Solomon;Sumino, Kaharu;Nyenhuis, Sharmilee M.;Oppenheimer, John;Perry, Tamara T.;Hoyte, Flavia;Chippis, Bradley;Rivera-Spoljaric, Katherine;Israel, Elliot;Shade, Lindsay E.;Rangel, Susana;McCabe, Ellen;O'Byrne, Paul M.;Press, Valerie G., et al ,(2025), *The Journal of Allergy & Clinical Immunology in Practice*,

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Bronchoscopy

The Role of High-Flow Nasal Cannula (HFNC) During Flexible Bronchoscopy in Adult Patients with Moderate Respiratory Dysfunctions: An Observational Study

Coppolino, Francesco;Sansone, Pasquale;Cosenza, Gianluigi;Brunetti, Simona;Piccialli, Francesca;Fiore, Marco;Esposito, Clelia;Pace, Maria Caterina and Pota, Vincenzo ,(Jan 7 2026), *J.Clin.Med.*, 15(2), pp. 459. doi: 10.3390/jcm15020459

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Ventilator settings for fiberoptic bronchoscopy during mechanical ventilation: a randomized adjudicator-blinded controlled trial VentSetFib

Lemyze, Malcolm;Marshall, Dominic C.;Granier, Maxime;Laouki, Chems-Eddine;Marzouk, Mehdi and Mallat, Jihad ,(Jan 27 2026), *Crit.Care*,

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Chronic Obstructive Pulmonary Disease (COPD)

Effect of triple inhaled therapy on MACE and cardiovascular events in COPD: a systematic review and meta-analysis.

Calderon-Montero, A., de Miguel Diez, J., Barrios, V., Calderon-Ferrer, C. and Joshi, M. (2025), *Frontiers in Cardiovascular Medicine*, 12, pp. 1680080

Access or request full text: <https://libkey.io/10.3389/fcvm.2025.1680080>

Effects on Exercise Tolerance and Functional Outcomes of Eccentric versus Concentric Aerobic Exercise in People with COPD: A Systematic Review and Meta-Analysis

Magunagoikoetxea-Comins, G., Jimenez-Garcia, M.E., Perez-Ferreiro, M. and Fernandez-Pardo, T.E. (2025) *International Journal of Copd*, 20, pp. 4061–4078



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The Impact of Different Mobile Health Technologies on Physical Activity of COPD Patients: A Systematic Review and Network Meta-Analysis An, Wenzhuo;Ning, Shuting;Wang, Jie;Guo, Dongqing;Li, Nana and Chu, Xin ,(Oct 28 2025), J.Med.Syst., 49(1), pp. 147 Access or request full text: https://libkey.io/10.1007/s10916-025-02285-x
Comparison of the efficacy of high-flow nasal cannula with different initial flow settings in patients with acute exacerbations of chronic obstructive pulmonary disease: A systematic review and network meta-analysis. Ding, Longfei;Wu, Tong;Liu, Hao;He, Yuewen;Zhang, Zhengze;Ma, Wuhua and Wu, Caineng ,(Dec 31 2025), Pulmonology, 31(1), pp. 2598913 Access or request full text: https://libkey.io/10.1080/25310429.2025.2598913
Measurement properties of the sit-to-stand test in community-dwelling people with chronic obstructive pulmonary disease: a COSMIN systematic review. Farley, Christopher;Newman, Anastasia N. L.;Phillips, Stuart M.;Smith-Turchyn, Jenna and Brooks, Dina ,(2025), Thorax, Access or request full text: https://libkey.io/10.1136/thorax-2025-223967
High-intensity versus low-intensity non-invasive ventilation in acute exacerbations of chronic obstructive pulmonary disease: A systematic review and meta-analysis. Shahid, Haniya;Ahmed, Muhammad;Sami, Syeda Zuha;Kumar, Sanjeet;Farooq, Javeria;Asif, Ilsa;Hanif, Zainab Muhammad and Nazir, Ariba ,(Oct 2025), Respir.Med., 247, pp. 108277 Access or request full text: https://libkey.io/10.1016/j.rmed.2025.108277
Which Remote Exercise Interventions are Most Effective in Improving Physical Activity and Quality of Life in Patients with Chronic Obstructive Pulmonary Disease? A Systematic Review and Network Meta-Analysis. Tang, Huan;Shen, Huapeng;Chen, Guihua;Luo, Xiaoqing;Wu, Qian and Liu, Yiqun ,(2025), Int.J.Chron.Obstruct Pulmon Dis., 20, pp. 3607–3629 Access or request full text: https://libkey.io/10.2147/COPD.S552283
Effects of a mind-body exercise intervention on anxiety, depression and quality of life in elderly patients with chronic obstructive pulmonary disease: A systematic evaluation and META analysis. Yan, Zhaoying;Zhang, Tao;Ding, Zifan;Tao, Baole;Shu, Junwen;Yu, Minlei;Liang, Qingyu and Yan, Jun ,(Oct 2025), Complement.Ther.Med., 93, pp. 103237 Access or request full text: https://libkey.io/10.1016/j.ctim.2025.103237
The clinical effective of sodium/glucose co-transporter-2 inhibitors on admission frequency, duration and use of acute non-invasive ventilation in patients with chronic obstructive pulmonary disease: A single-centre 24-month retrospective observational study in a UK tertiary care centre. Kan, Alan;De Soya, Joshua;Kafi, Opeyemi;Rao, Ranganatha;Murthy, Narasimha and Bhat, Jayanth ,(Dec 03 2025), Clin.Med., 26(1), pp. 100541



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Risk factors of ventilator-associated pneumonia in patients with acute exacerbation of chronic obstructive pulmonary disease: a meta-analysis and systematic review.

Hongwei, Yang;Juan, Wang;Hui, Ji;Zhongjian, Li;Xueying, Li;Rui, Liu;Min, Li and Xiu, Wang ,(Dec 19 2025), BMC pulm med., 25(1), pp. 558

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Effect of exercise training on modulating the TH17/TREG imbalance in individuals with severe COPD: A randomized controlled trial

Ito, Juliana Tiyaqi;Alves, Luan Henrique Vasconcelos;Oliveira, Luana de Mendonça;Xavier, Rafaella Fagundes;Carvalho-Pinto, Regina Maria;Tibério, Iolanda de Fátima Lopes Calvo;Sato, Maria Notomi;Carvalho, Celso R. F. and Lopes, Fernanda Degobbi Tenorio Quirino Dos Santos ,(Dec 31 2025), Pulmonology, 31(1), pp. 2441069

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The Effect of Heated, Humidified High-Flow Air in COPD Patients With Chronic Bronchitis

Fortis, Spyridon;Hoffman, Eric A. and Comellas, Alejandro P. ,(Dec 28 2025), Pulm.Med., 2025, pp. 8350741

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COVID-19 / Respiratory infections

[Please note: does not include Long Covid evidence – this can be found on a separate bulletin]

Drug treatments for mild or moderate covid-19: Systematic review and network meta-analysis.

Ibrahim S.;Siemieniuk R.A.C.;Oliveros M.J.;Islam N.;Martinez J.P.D.;Izcovich A.;Qasim A.;Zhao Y.;Zaror C.;Yao L.;Wang Y.;Vandvik P.O.;Roldan Y.;Rochweg B.;Rada G.;Prasad M.;PardoHernandez H.;Mustafa R.A.;Fashami F.M.;Miroshnychenko A., et al ,(2025), BMJ, 389(pagination), pp. Article Number: e081165. Date of Publication: 2025

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Efficacy and safety of imatinib in patients with COVID-19: a systematic review and meta-analysis.

Li, Le;Zhao, Chengxiao and Hou, Siyuan ,(Dec 2025), Wien.Klin.Wochenschr., 137(23-24), pp. 778–786

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Methylprednisolone versus dexamethasone in hospitalized patients with severe COVID-19: a systematic review and meta-analysis of randomized controlled trials.

Qin, Jinlv;Wang, Guizuo and Han, Dong ,(Nov 18 2025), Syst.rev., 14(1), pp. 228

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Molnupiravir for treating COVID-19.

Tatz, Gayle S.;Ochodo, Eleanor A.;Fox, Tilly;Owino, Eddy J.;Nyagol, Bruce;Rupali, Priscilla;McCaul, Michael;Kredo, Tamara and Cohen, Karen ,(10 28 2025), Cochrane Database



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Efficacy and safety of Ensitrelvir in asymptomatic or mild to moderate COVID-19: a systematic review and meta-analysis of randomized controlled trials.

Ul Haq, Muhammad Zain;Ashraf, Saad;Shah, Muhammad Shahmeer Ullah;Sulaiman, Samia Aziz;Shaukat, Ayesha;Ansari, Muhammad Ahsan;Basaria, Areeba Aamir Ali;Fatima, Laveeza;Saeed, Humza;Goyal, Aman and Daoud, Mohamed ,(Oct 2025), Infection, 53(5), pp. 1645–1661

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Rehabilitation in critically ill patients with COVID-19 infection: A systematic review and meta-analysis

Reid, Julie C.;Semrau, Joanna S.;O'Grady, Heather K.;Hoogenes, Jen;Gill, Jeniszka;Hasan, Hibaa;von Teichman, Sophie;Bogdanova, Yelena;McKenney, Shannon;Sokol, Olivia;Pereira, Tania J.;Dannenberg, Vanessa Campes;Farley, Christopher;Junior, Jose Colleti;Deis, Amal;Williamson, David;Herridge, Margaret and Kho, Michelle ,(Dec 26 2025), Aust.Crit.Care, 39(1), pp. 101500

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The Impact of COVID-19 on Racialised Minority Populations: A Systematic Review of Experiences and Perspectives.

Wright, Toni;Smith, Raymond;Sah, Rajeeb Kumar;Keys, Clare;Keval, Harshad and Onyejekwe, Chisa ,(Nov 21 2025), International Journal of Environmental Research & Public Health [Electronic Resource], 22(12)

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Vascular and inflammatory diseases after COVID-19 infection and vaccination in children and young people in England: a retrospective, population-based cohort study using linked electronic health records.

Sampri, Alexia;Shi, Wen;Bolton, Thomas;Ip, Samantha;Knight, Rochelle;Walker, Venexia;Denholm, Rachel;Raffetti, Elena;Keene, Spencer;Allara, Elias;Jiang, Xiyun;Kontopantelis, Evangelos;Denaxas, Spiros;Khunti, Kamlesh;Conrad, Nathalie;Pagel, Christina;Harden, Pia;Sterne, Jonathan A. C.;Brown, Katherine L.;Whiteley, William N., et al ,(Dec 2025), Lancet Child.Adolesc.Health., 9(12), pp. 837–847

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Comprehensive evaluation of therapeutic effectiveness and safety profiles of baloxavir marboxil for managing influenza virus infection in pediatric populations: a systematic review with pooled meta-analytic data.

Ji, Yishu;Yang, Wenwen and Wang, Weijie ,(2025), Front.pediatr., 13, pp. 1733111

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UK Health Security Agency

[UKHSA FluSurvey surveillance system](#) (December 2025)

[Pre-release access lists: National flu and COVID-19 surveillance reports](#) (December 2025)



Pre-release access list: monthly seasonal influenza vaccine uptake in children of school age (December 2025) Pneumococcal infant vaccination: information for healthcare practitioners (December 2025) Pneumococcal polysaccharide conjugate vaccine (PCV20) PGD template (December 2025) Pneumococcal vaccination for older adults and for individuals in a clinical risk group: Information for healthcare practitioners (January 2026) Pre-release access list: monthly seasonal influenza vaccine uptake in GP patients (December 2025) Pre-release access list: monthly seasonal influenza vaccine uptake in healthcare workers (December 2025) Diagnostic testing for avian influenza A(H5) and other zoonotic influenza viruses (December 2025) Report an outbreak of acute respiratory infection in an adult social care setting (January 2026)
Cystic fibrosis (CF)
Non-antibiotic treatment for nontuberculous mycobacteria lung infection in people with cystic fibrosis – A systematic review A, B., N, J., S, S., AR, S., I, S., L, T. and JA, N. (2025), <i>Journal of Cystic Fibrosis</i>. Access or request full text: https://libkey.io/10.1016/j.jcf.2025.12.014
An Observational Cohort Study of Targeted Antibiotic Treatments of Cystic Fibrosis Exacerbations Jacobs, HollyAnn R.;Packer, Kristyn A.;Vargas Buonfiglio, Luis G.;Bhakta, Zubin;Ulrich, Andrew;Szczesniak, Rhonda D.;Fisher, Mark A.;Regelmann, Warren E.;Young, David C. and Liou, Theodore G. ,(Jan 16 2026), <i>Open Forum.Infect.Dis.</i>, 13(1), pp. ofaf745 Access or request full text: https://libkey.io/10.1093/ofid/ofaf745
Exploring Exercise as Airway Clearance in Cystic Fibrosis: A Qualitative Study From the ExACT-CF Feasibility Trial Taylor, Emily;Soilemezi, Dia;Urquhart, Don S.;Cunningham, Steve;Lewis, Steff;Neilson, Aileen Rae;Ensor, Hannah;Vogiatizis, Ioannis;Allen, Lorna;Saynor, Zoe L. and ExACT-CF study group ,(Jan 2026), <i>Pediatr.Pulmonol.</i>, 61(1), pp. e71470 Access or request full text: https://libkey.io/10.1002/ppul.71470
Interstitial Lung Disease
Efficacy and safety of external treatment of traditional Chinese medicine combined with conventional treatment for idiopathic pulmonary fibrosis: A systematic review and meta-analysis. Li, Yalan;Wu, Xiangyi;Xue, Yan and Zhang, Wei ,(Oct 10 2025), <i>Medicine (Baltimore)</i>, 104(41), pp. e45018 Access or request full text: https://libkey.io/10.1097/MD.00000000000045018
Predictors of Progressive Fibrosing Interstitial Lung Diseases and Survival in Fibrosing Interstitial Lung Disease-Related Usual Interstitial Pneumonia Fu, Hongyan;Li, Xiao;Shi, Hongyang;Zhang, Jie and Zhang, Ming ,(Jan 19 2026), <i>Medicina</i>



(Kaunas), 62(1), pp. 206. doi: 10.3390/medicina62010206

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Transbronchial lung cryobiopsy: a safe and effective technique in the diagnosis of interstitial lung disease in the older people

Menigoz, Charlotte;Moui, Antoine;Sagan, Christine;Carlier, Nathanaël;Patarin, Valentin;Defrance, Claire;Liberge, Renan;Morla, Olivier;Kandel-Aznar, Christine;Clarke, Jean Patrick;Corne, Frédéric;Hassoun, Dorian;Cavaillès, Arnaud;Cellerin, Laurent;Chéné, Anne-Laure;Tissot, Adrien;Blanc, François-Xavier and Dirou, Stéphanie ,(Jan 23 2026), BMC Geriatr.,

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