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- 1244 Arrhythmias and conduction disturbances in obstructive sleep apnoea: the heart of the problem?**  
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- 1247 Clustering in asthma: why, how and for how long?**  
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- 1249 Lung function, race and ethnicity: a conundrum**  
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## PERSPECTIVE

- 1252 Treatment of COPD by clinical phenotypes: putting old evidence into clinical practice**  
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### Environmental lung disease

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### Cigarette smoke-induced lung disease

- 1264 Aclidinium inhibits cigarette smoke-induced lung fibroblast-to-myofibroblast transition**  
Javier Milara, Adela Serrano, Teresa Peiró, Enrique Artigues, Amadeu Gavaldà, Montse Miralpeix, Esteban J. Morcillo and Julio Cortijo

### COPD

- 1275 Pathways associated with reduced quadriceps oxidative fibres and endurance in COPD**  
Samantha A. Nataneck, Harry R. Gosker, Ilse G.M. Slot, Gemma S. Marsh, Nicholas S. Hopkinson, John Moxham, Paul R. Kemp, Annemie M.W.J. Schols and Michael I. Polkey
- 1284 Water-based exercise in COPD with physical comorbidities: a randomised controlled trial**  
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### Pulmonary vascular disease

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- 1302 Outcomes of noncardiac, nonobstetric surgery in patients with PAH: an international prospective study**  
Stephanie Meyer, Vallerie V. McLaughlin, Hans-Juergen Seyfarth, Todd M. Bull, Carmine D. Vizza, Mardi Gomberg-Maitland, Ioana R. Preston, Joan A. Barberà, Paul M. Hassoun, Michael Halank, Xavier Jaïs, Nils Nickel, Marius M. Hoeper and Marc Humbert

### Asthma

- 1308 Identification of asthma clusters in two independent Korean adult asthma cohorts**  
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### Cystic fibrosis

- 1315 Expression of the nuclear factor- $\kappa$ B inhibitor A20 is altered in the cystic fibrosis epithelium**  
Catriona Kelly, Mark T. Williams, Kathryn Mitchell, J. Stuart Elborn, Madeleine Ennis and Bettina C. Schock

### Idiopathic pulmonary fibrosis

- 1324 Pulmonary arteriole gene expression signature in idiopathic pulmonary fibrosis**  
Nina M. Patel, Steven M. Kawut, Sanja Jelic, Selim M. Arcasoy, David J. Lederer and Alain C. Borczuk

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### Sarcoidosis

- 1331 Quantitative intact proteomics investigations of alveolar macrophages in sarcoidosis**  
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Christina Efken, Thomas Bitter, Natalie Prib, Dieter Horstkotte and Olaf Oldenburg
- 1347 Nocturnal gastro-oesophageal reflux, asthma and symptoms of OSA: a longitudinal, general population study**  
Össur I. Emilsson, Anna Bengtsson, Karl A. Franklin, Kjell Torén, Bryndís Benediktsdóttir, Amir Farkhooy, Joost Weyler, Sandra Dom, Wilfried De Backer, Thorarinn Gislason and Christer Janson

### Paediatric sleep-related disorders

- CME article 1355 Sleep clinical record: an aid to rapid and accurate diagnosis of paediatric sleep disordered breathing**  
Maria Pia Villa, Maria Chiara Paolino, Rosa Castaldo, Nicola Vanacore, Alessandra Rizzoli, Silvia Miano, Marco Del Pozzo and Marilisa Montesano

### Lung function

- 1362 Defining race/ethnicity and explaining difference in research studies on lung function**  
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### Paediatric lung function

- 1371 Age and height dependence of lung clearance index and functional residual capacity**  
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### Pulmonary infections

- 1378 Local and systemic cytokine profiles in nonsevere and severe community-acquired pneumonia**  
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### Tuberculosis

- 1386 Efficacy and safety of meropenem-clavulanate added to linezolid-containing regimens in the treatment of MDR-/XDR-TB**  
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- 1393 Delamanid improves outcomes and reduces mortality in multidrug-resistant tuberculosis**  
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- 1409 Survival of lung adenocarcinoma patients with malignant pleural effusion**  
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- 1461** **Using the Chartis system to selectively target a lung segment with a persistent air leak**  
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