



EDITORIALS

- 1261 Asthma attacks: should we nail our colours to the mast (cell)?**
Louise Fleming, Sejal Saglani and Andrew Bush
- 1265 Plasma nitrite/nitrate levels: a new biomarker for pulmonary arterial hypertension?**
James R. Klinger
- 1268 Prolonged anticoagulation in VTE with direct oral anticoagulants: towards an individual analysis of net clinical benefit?**
Pierre-Marie Roy
- 1271 Imaging and molecular biomarkers: a novel approach to screen populations at risk of pulmonary fibrosis?**
Ivan O. Rosas
- 1274 Lung biopsy in interstitial lung disease: balancing the risk of surgery and diagnostic uncertainty**
Vincent Cottin
- 1278 Fighting tuberculosis in the EU/EEA: towards the new European Union standards on tuberculosis care**
Giovanni Sotgiu, Netta Beer, Stefano Aliberti, Giovanni Battista Migliori and Marieke J. van der Werf
- 1282 Roadmap for tuberculosis elimination in Latin American and Caribbean countries: a strategic alliance**
Adrian Rendon, Zhenia Fuentes, Carlos A. Torres-Duque, Mirtha del Granado, Jorge Victoria, Raquel Duarte and Giovanni Battista Migliori

ORIGINAL ARTICLES

Epidemiology

- Press release 1288 Lower lung function associates with cessation of menstruation: UK Biobank data**
André F.S. Amaral, David P. Strachan, Francisco Gómez Real, Peter G.J. Burney and Deborah L. Jarvis

Smoking and asthma

- 1298 The effect of smoking on lung function: a clinical study of adult-onset asthma**
Minna Tommola, Pinja Ilmarinen, Leena E. Tuomisto, Jussi Haanpää, Terhi Kankaanranta, Onni Niemelä and Hannu Kankaanranta

Asthma

- 1307 Severe asthma exists despite suppressed tissue inflammation: findings of the U-BIOPRED study**
Susan J. Wilson, Jonathan A. Ward, Ana R. Sousa, Julie Corfield, Aruna T. Bansal, Bertrand De Meulder, Diane Lefaudeux, Charles Auffray, Matthew J. Loza, Frederic Baribaud, Neil Fitch, Peter J. Sterk, Kian Fan Chung, David Gibeon, Kai Sun, Yi-ke Guo, Ian Adcock, Ratko Djukanovic, Barbro Dahlen, Pascal Chanez, Dominick Shaw, Norbert Krug, Jens Hohlfeld, Thomas Sandström and Peter H. Howarth on behalf of the U-BIOPRED Study Group

Paediatric pulmonology

- 1320 Mast cells are associated with exacerbations and eosinophilia in children with severe asthma**
Guillaume Lezmi, Louise Galmiche-Rolland, Sabine Rioux, Francis Jaubert, Isabelle Tillie-Leblond, Pierre Scheinmann, Philippe Gosset and Jacques de Blic
- 1329 Association of nasopharyngeal microbiota profiles with bronchiolitis severity in infants hospitalised for bronchiolitis**
Kohei Hasegawa, Jonathan M. Mansbach, Nadim J. Ajami, Janice A. Espinola, David M. Henke, Joseph F. Petrosino, Pedro A. Piedra, Chad A. Shaw, Ashley F. Sullivan and Carlos A. Camargo Jr on behalf of the MARC-35 Investigators

Sleep

- 1340 Desipramine improves upper airway collapsibility and reduces OSA severity in patients with minimal muscle compensation**
Luigi Taranto-Montemurro, Scott A. Sands, Bradley A. Edwards, Ali Azarbarzin, Melania Marques, Camila de Melo, Danny J. Eckert, David P. White and Andrew Wellman
- 1351 Control theory prediction of resolved Cheyne–Stokes respiration in heart failure**
Scott A. Sands, Bradley A. Edwards, Kirk Kee, Christopher Stuart-Andrews, Elizabeth M. Skuza, Teanau Roebuck, Anthony Turton, Garun S. Hamilton, Matthew T. Naughton and Philip J. Berger

ORIGINAL ARTICLES (CONTINUED)

Pulmonary vascular diseases

- 1360 Outcome during and after anticoagulant therapy in cancer patients with incidentally found pulmonary embolism**
Marisa Peris, David Jiménez, Ana Maestre, Carme Font, Alfonso J. Tafur, Lucia Mazzolai, Belén Xifre, Andris Skride, Francesco Dentali, Manuel Monreal and the RIETE Investigators
- 1369 Prediction of bleeding events in patients with venous thromboembolism on stable anticoagulation treatment**
Frederikus A. Klok, Volker Hoesel, Andreas Clemens, Wilfrid D. Yollo, Clemens Tilke, Sam Schulman, Mareike Lankeit and Stavros V. Konstantinides
- 1377 Right heart thrombi in pulmonary embolism**
Deisy Barrios, Vladimir Rosa-Salazar, David Jiménez, Raquel Morillo, Alfonso Muriel, Jorge del Toro, Luciano López-Jiménez, Dominique Farge-Bancel, Roger Yusen and Manuel Monreal, for the RIETE investigators
- 1386 Profiling nitric oxide metabolites in patients with idiopathic pulmonary arterial hypertension**
Rui Zhang, Xiao-Jian Wang, Hong-Da Zhang, Xiao-Qing Sun, Qin-Hua Zhao, Lan Wang, Jing He, Xin Jiang, Jin-Ming Liu and Zhi-Cheng Jing

Tuberculosis



- 1396 The economic effects of supporting tuberculosis-affected households in Peru**
Tom Wingfield, Marco A. Tovar, Doug Huff, Delia Boccia, Rosario Montoya, Eric Ramos, James J. Lewis, Robert H. Gilman and Carlton A. Evans
- 1411 First evaluation of QuantiFERON-TB Gold Plus performance in contact screening**
Lucia Barcellini, Emanuele Borroni, James Brown, Enrico Brunetti, Daniela Campisi, Paola F. Castellotti, Luigi R. Codecasa, Federica Cugnata, Clelia Di Serio, Maurizio Ferrarese, Delia Goletti, Marc Lipman, Paola M.V. Rancoita, Giulia Russo, Marina Tadolini, Elisa Vanino and Daniela M. Cirillo
- 1420 Risk of developing tuberculosis disease among persons diagnosed with latent tuberculosis infection in the Netherlands**
Connie G.M. Erkens, Erika Slump, Maurits Verhagen, Henrieke Schimmel, Frank Cobelens and Susan van den Hof

Vasculitis

- 1429 Respiratory manifestations of eosinophilic granulomatosis with polyangiitis (Churg–Strauss)**
Vincent Cottin, Elisabeth Bel, Paolo Bottero, Klaus Dalhoff, Marc Humbert, Romain Lazor, Renato A. Sinico, Pasupathy Sivasothy, Michael E. Wechsler, Matthieu Groh, Sylvain Marchand-Adam, Chahéra Khouatra, Benoit Wallaert, Camille Taillé, Philippe Delaval, Jacques Cadranel, Philippe Bonniaud, Grégoire Prévot, Sandrine Hirschi, Anne Gondouin, Bertrand Dunogué, Gérard Chatté, Amandine Briault, David Jayne, Loïc Guillevin, Jean-François Cordier and the Groupe d'Etudes et de Recherche sur les Maladies Orphelines Pulmonaires (GERM"O" P)

Interstitial lung diseases

- 1442 High attenuation areas on chest computed tomography in community-dwelling adults: the MESA study**
Anna J. Podolanczuk, Elizabeth C. Oelsner, R. Graham Barr, Eric A. Hoffman, Hilary F. Armstrong, John H.M. Austin, Robert C. Basner, Matthew N. Bartels, Jason D. Christie, Paul L. Enright, Bernadette R. Gochoico, Karen Hinckley Stukovsky, Joel D. Kaufman, P. Hrudaya Nath, John D. Newell Jr, Scott M. Palmer, Dan Rabinowitz, Ganesh Raghunath, Jessica L. Sell, Jered Sieren, Sushil K. Sonavane, Russell P. Tracy, Jubal R. Watts, Kayleen Williams, Steven M. Kawut and David J. Lederer
- 1453 Surgical lung biopsy for the diagnosis of interstitial lung disease in England: 1997–2008**
John P. Hutchinson, Tricia M. McKeever, Andrew W. Fogarty, Vidya Navaratnam and Richard B. Hubbard

Lung cancer

- 1462 Residential radon, EGFR mutations and ALK alterations in never-smoking lung cancer cases**
Alberto Ruano-Ravina, María Torres-Durán, Karl T. Kelsey, Isaura Parente-Lamelas, Virginia Leiro-Fernández, Ihab Abdulkader, José Abal-Arca, Carmen Montero-Martínez, Iria Vidal-García, Margarita Amenedo, Olalla Castro-Añón, Antonio Golpe-Gómez, Javier González-Barcala, Cristina Martínez, Rosirys Guzmán-Taveras, Mariano Provencio, María José Mejuto-Martí, Alberto Fernández-Villar and Juan Miguel Barros-Dios

STATE OF THE ART

SERIES "Multimorbidity and the lung "

Edited by L.M. Fabbri and J.M. Drazen
Number 9 in this series

- 1471 Exercise, ageing and the lung**
Michael A. Roman, Harry B. Rossiter and Richard Casaburi

Research letters

- 1487 Trends in mortality from respiratory system diseases in Greece during the financial crisis**
Filippos T. Filippidis, Vasiliki Gerovasili, William D-C. Man and Jennifer K. Quint
- 1489 Acromegaly in sleep apnoea patients: a large observational study in 755 patients**
Louis-Marie Galerneau, Jean-Louis Pepin, Anne-Laure Borel, Olivier Chabre, Marc Sapene, Bruno Stach, Janie Girey-Rannaud, Nathalie Arnol, Renaud Tamisier and Philippe Caron, on behalf of the scientific council and investigators of the French national sleep apnoea registry (OSFP)
- 1492 Introduction of the 13-valent pneumococcal conjugate vaccine in an isolated pneumococcal vaccine-naïve indigenous population**
Lilly M. Verhagen, Ismar A. Rivera-Olivero, Meyke Hermsen, María Carolina Sisco, Mailis Maes, Berenice del Nogal, Debby Bogaert, Guy A.M. Berbers, Peter W.M. Hermans, Marien I. de Jonge and Jacobus H. de Waard
- 1496 Multidrug-resistant tuberculosis in children in northwest Russia: an observational cohort study**
Polina A. Smirnova, Anna Turkova, Elena I. Nikishova, James A. Seddon, Elizabeth Chappell, Olga A. Zolotaya, Oxana M. Mironuk and Andrey O. Maryandyshev
- 1500 Treatment of human disease due to *Mycobacterium bovis*: a systematic review**
Zhiyi Lan, Mayara Bastos and Dick Menzies
- 1503 Faster for less: the new “shorter” regimen for multidrug-resistant tuberculosis**
Giovanni Sotgiu, Simon Tiberi, Lia D’Ambrosio, Rosella Centis, Jan Willem Alffenaar, Jose A. Caminero, Marcos Abdo Arbex, Valentina Alarcon Guizado, Alena Aleksa, Simone Dore, Mina Gaga, Gina Gualano, Heinke Kunst, Marie-Christine Payen, Aurora Jazmín Roby Arias, Alena Skrahina, Ivan Solovic, Giorgia Sulis, Marina Tadolini, Alimuddin Zumla and Giovanni Battista Migliori for the International Carbapenem Study Group
- 1507 Variation in vitamin D deficiency among tuberculosis patients by ethnic group and geographical region of birth: evidence from a diverse south London population**
Adam Pilarski, Nicole Penn, Sharenja Ratnakumar, Richard D. Barker and Heather J. Milburn
- 1510 Association of pulmonary alveolar proteinosis and fibrosis: patient with GATA2 deficiency**
Alice Ballerie, Stanislas Nimubona, Catherine Meunier, Francisco Llamas Gutierrez, Benoît Desrues, Philippe Delaval and Stéphane Jouneau
- 1514 Bosutinib therapy resulting in severe deterioration of pre-existing pulmonary arterial hypertension**
Peter M. Hickey, Alfred A.R. Thompson, Athanasios Charalampopoulos, Charles A. Elliot, Neil Hamilton, David G. Kiely, Allan Lawrie, Ian Sabroe and Robin Condliffe
- 1517 Deterioration of pulmonary hypertension and pleural effusion with bosutinib following dasatinib lung toxicity**
Marianne Riou, Andrei Seferian, Laurent Savale, Marie-Camille Chaumais, Christophe Guignabert, Matthieu Canuet, Pascal Magro, Delphine Rea, Olivier Sitbon, Xavier Jaïs, Marc Humbert and David Montani
- Correspondence**
- 1520 Opioids in COPD: a cause of death or a marker of illness severity?**
James Downar, Rebecca Colman, Robert Horton, Paul Hernandez and Graeme Rocker; Nicholas T. Vozoris, Denis E. O’Donnell, Chaim M. Bell, Sudeep S. Gill and Paula A. Rochon
- 1523 Unfavourable effects of medically indicated oral anticoagulants on survival in idiopathic pulmonary fibrosis: methodological concerns**
Leticia Kawano-Dourado, Fernando Zampieri, Alexandre Biasi Cavalcanti, Lucas Petri Damiani and Ronaldo Adib Kairalla; Michael Kreuter, Marlies S. Wijsenbeek, Martina Vasakova, Paolo Spagnolo, Martin Kolb, Ulrich Costabel, Derek Weycker, Klaus-Uwe Kirchgaessler and Toby M. Maher
- 1526 Cardiac safety of extensively drug-resistant tuberculosis regimens including bedaquiline, delamanid and clofazimine**
Robert S. Wallis; Marina Tadolini, Rangjung Dolma Lingsang, Simon Tiberi, Martin Enwerem, Lia D’Ambrosio, Tsetan Dorji Sadutshang, Rosella Centis and Giovanni Battista Migliori
- 1529 Tuberculosis prevention must integrate technological and basic care innovation**
Paul H. Mason, Tolu Oni, Maarten M.J.W. van Herpen and Anna K. Coussens; Heidi Albert, Ruvandhi R. Nathavitharana, Claudia M. Denkinger, Chris Isaacs and Catharina C. Boehme



1533 AUTHOR CORRECTION