



Journal of the British Thoracic Society

Impact Factor: 6.226

Editor-in-Chief

J A Wedzicha (UK)

Editor

S L Johnston (UK)

Associate Editors

- J S Brown (UK) J R Hurst (UK)
P M A Calverley (UK) D A Lomas (UK)
M Dusmet (UK) D M Mannino (USA)
J S Elborn (N Ireland) F D Martinez (USA)
A J Fisher (UK) C Robertson (Australia)
J M FitzGerald (Canada) B Schonhofer (Germany)
J A Fleetham (Canada) G A Silvestri (USA)
N M Foley (UK) G I Town (New Zealand)
I Hall (UK) M K B Whyte (UK)
R Hubbard (UK)

Statistical Editors

- R Newson (UK)
T M McKeever (UK)
L Tata (UK)

Images Editors

- J M FitzGerald (Canada)
J R Mayo (Canada)
J C Hogg (Canada)

Letters Editor

J R Hurst (UK)

Lung Alert Editors

- A Bhowmik (UK)
J Quint (UK)

President, British Thoracic Society

P Ormerod

Editorial Office

BMJ Publishing Group Ltd, BMA House, Tavistock Square, London WC1H 9JR, UK

T: +44 (0)20 7383 6147

F: +44 (0)20 7383 6668

E: thorax@bmjgroup.com

ISSN: 0040-6376 (print)

ISSN: 1468-3296 (online)

Disclaimer: Thorax is owned and published by the British Thoracic Society and BMJ Publishing Group Ltd, a wholly owned subsidiary of the British Medical Association. The owners grant editorial freedom to the Editor of Thorax.

Thorax follows guidelines on editorial independence produced by the World Association of Medical Editors and the code on good publication practice of the Committee on Publication Ethics.

Thorax is intended for medical professionals and is provided without warranty, express or implied. Statements in the Journal are the responsibility of their authors and advertisers and not authors' institutions, the BMJ Publishing Group Ltd, the British Thoracic Society or the BMA unless otherwise specified or determined by law. Acceptance of advertising does not imply endorsement.

To the fullest extent permitted by law, the BMJ Publishing Group Ltd shall not be liable for any loss, injury or damage resulting from the use of Thorax or any information in it whether based on contract, tort or otherwise. Readers are advised to verify any information they choose to rely on.

Copyright: © 2009 BMJ Publishing Group Ltd and the British Thoracic Society. All rights reserved; no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior permission of Thorax.

Thorax is published by BMJ Publishing Group Ltd, typeset by The Charlesworth Group and printed in the UK on acid-free paper by Latimer Trend & Co Ltd, Plymouth.

Thorax (USPS No: 002-143) is published monthly by BMJ Publishing Group and distributed in the USA by Pitney Bowes International Mailing Services Inc as mailing agent. Periodicals postage paid at Kearny, NJ, USA and additional mailing offices. POSTMASTER: send address changes to Thorax, PB International Mailing Services Inc, 500 US Hwy 46, Clifton, NJ 07011, USA.

Contents

Volume 64 Issue 7 | THORAX July 2009

Editorials

- 553 Domiciliary non-invasive ventilation in stable COPD? M W Elliott
556 Biomarkers and community-acquired pneumonia J S Brown

- 558 Breast feeding and childhood asthma W H Oddy

- 560 Nutritional effects on asthma aetiology and progression P A Cassano

Chronic obstructive pulmonary disease

- 561 Nocturnal non-invasive nasal ventilation in stable hypercapnic COPD: a randomised controlled trial R D McEvoy, R J Pierce, D Hillman, A Esterman, E E Ellis, P G Catcheside, F J O'Donoghue, D J Barnes, R R Grunstein, on behalf of the Australian trial of noninvasive Ventilation in Chronic Airflow Limitation (AVCAL) Study Group

COPD

- 567 Influenza but not pneumococcal vaccination protects against all-cause mortality in patients with COPD S Schembri, S Morant, J H Winter, T M MacDonald

Environmental exposure

- 573 Traffic-related air pollution in relation to respiratory symptoms, allergic sensitisation and lung function in schoolchildren M Rosenlund, F Forastiere, D Porta, M De Sario, C Badaloni, C A Perucci

Sleep-disordered breathing

- 581 Effects of CPAP on oxidative stress and nitrate efficiency in sleep apnoea: a randomised trial A Alonso-Fernández, F García-Río, M A Arias, Á Hernanz, M de la Peña, J Piérola, A Barceló, E López-Collazo, A Agustí

Respiratory infection

- 587 Biomarkers improve mortality prediction by prognostic scales in community-acquired pneumonia R Menéndez, R Martínez, S Reyes, J Mensa, X Filella, M A Marcos, A Martínez, C Esquinas, P Ramirez, A Torres
592 Risk factors for complicated parapneumonic effusion and empyema on presentation to hospital with community-acquired pneumonia

J D Chalmers, A Singanayagam, M P Murray, C Scally, A Fawzi, A T Hill

- 598 Validation and clinical implications of the IDSA/ATS minor criteria for severe community-acquired pneumonia J Phua, K C See, Y H Chan, L S Widjaja, N W Aung, W J Ngerng, T K Lim

Asthma

- 604 Breast feeding, parental allergy and asthma in children followed for 8 years. The PIAMA birth cohort study S Scholtens, A H Wijga, B Brunekreef, M Kerkhof, M O Hoekstra, J Gerritsen, R Aalberse, J C de Jongste, H A Smit
610 Association between antioxidant vitamins and asthma outcome measures: systematic review and meta-analysis S Allen, J R Britton, J A Leonardi-Bee
620 The PHF11 gene is not associated with asthma or asthma phenotypes in two independent populations J McClenaghan, N M Warrington, E F Jamrozik, J Hui, J P Beilby, J Hansen, N H de Klerk, A L James, A W Musk, L J Palmer

Interstitial lung disease

- 626 Exercise peripheral oxygen saturation (SpO2) accurately reflects arterial oxygen saturation (SaO2) and predicts mortality in systemic sclerosis J J Swigris, X Zhou, F S Wamboldt, R du Bois, R Keith, A Fischer, G P Cosgrove, S K Frankel, D Curran-Everett, K K Brown

Review

- 631 Systemic inflammation: a key factor in the pathogenesis of cardiovascular complications in

MORE CONTENTS ►

Computer artwork of Legionella pneumophila bacteria. Alfred Pasiaka / Science Photo Library



This article has been chosen by the Editor to be of special interest or importance and is freely available online.



Articles carrying the Unlocked Logo are freely available online under the BMJ Journals unlocked scheme. See http://thorax.bmj.com/info/unlocked.dtl

COPE COMMITTEE ON PUBLICATION ETHICS

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics

www.publicationethics.org.uk



When you have finished with this magazine please recycle it.

obstructive sleep apnoea syndrome?  
*S Ryan, C T Taylor, W T McNicholas*

### Case report

- 637** A case of small cell lung cancer treated with chemoradiotherapy followed by photodynamic therapy  
*J E Lee, H S Park, S S Jung, S Y Kim, J O Kim*

### PostScript

- 640** Obesity in patients with COPD, an undervalued problem?  
*L van den Bemt, C A M van Wayenburg, I J M Smeele, T R J Schermer, F M E Franssen, A M W J Schols*
- 641** Validation of two activity monitors in patients with COPD  
*D Langer, R Gosselink, R Sena, C Burtin, M Decramer, T Troosters*
- 642** Epoprostenol use in a National Pulmonary Hypertension Centre from 1997 to 2007  
*A C Church, D Sanabria, A Peacock, M Johnson*
- 642** Do all occupational respiratory sensitizers follow the united airways disease model?  
*M J Seed, M Carder, M Gittins, R M Agius*
- 643** Correction

### Miscellanea

- 572** Lung alert: A new vaccine to reduce the incidence of pneumococcal pneumonia?  
*A Collins*
- 580** Pulmonary puzzle: Beware the pregnant woman with breathlessness  
*A Higton, C Whale, M Musk, E Gabbay*
- 619** Lung alert: Safety and effectiveness of home-based pulmonary rehabilitation in COPD  
*A Dushianthan*
- 630** Lung alert: Paediatric respiratory syncytial virus infections: rates and risk factors for hospitalisation  
*R Ahmed*
- 639** Lung alert: Financial incentives for smoking cessation  
*D Shrikerishna*

### Images in Thorax

- 644** A woman in her mid 30s with a dry cough and breathlessness  
*H K Ramadan, C I Mackinlay, A G Nicholson*