



Journal of the British Thoracic Society

Impact Factor: 6.53

Editors

A Bush (UK)
I Pavord (UK)

Deputy Editors

P Cullinan (UK)
C Lloyd (UK)

Associate Editors

R Beasley (New Zealand)
J Brown (UK)
JC Celedón (USA)
A Custovic (UK)
A Fisher (UK)
P Gibson (Australia)
J Grigg (UK)
D Halpin (UK)
A Jones (UK)
E Lim (UK)
N Maskell (UK)
JL Pepin (France)
T Sethi (UK)
M Steiner (UK)
D Thickett (UK)
H Zar (South Africa)

Statistical Editors

J Gibson (UK)

Statistical Advisor

T McKeever (UK)

Lung Alert Editor

J Quint (UK)

President, British Thoracic Society

E Neville

Editorial Office

BMJ Publishing Group Ltd, BMA House, Tavistock Square, London WC1H 9JR, UK
T: +44 (0)20 7383 6373
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: © 2011 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 TNQ Books & Journals, Chennai, India and printed in the UK on acid-free paper by Latimer Trend & Co Ltd, Plymouth.

Thorax (ISSN No: 0040-6376) is published monthly by BMJ Publishing Group and distributed in the USA by Mercury International Ltd. Periodicals postage paid at Rahway, NJ. POSTMASTER: send address changes to Thorax, Mercury International Ltd, 365 Blair Road, Avenel, NJ, 07001, USA.

Editorials

- 643 Hypothesis: in COPD, a pound of cure may be better than an ounce of prevention
S I Rennard, J Vestbo
645 Howling for the moon
N Barnes, A Bush
647 MUCKing about in IPF: identification of a novel goblet cell phenotype in pulmonary fibrosis
C D Bingle
649 Pleural infection on the increase but with a better evidence base to inform clinical care
N M Rahman, N A Maskell

Original articles
Interstitial lung disease

- 651 Ectopic respiratory epithelial cell differentiation in bronchiolised distal airspaces in idiopathic pulmonary fibrosis
L Plantier, B Crestani, S E Wert, M Dehoux, B Zwegytick, A Guenther, J A Whitsett

Respiratory infection

- 658 Blood culture bottle culture of pleural fluid in pleural infection
S M Menzies, N M Rahman, J M Wrightson, H E Davies, R Shorten, S H Gillespie, C W H Davies, N A Maskell, A A Jeffrey, Y C G Lee, R J O Davies

- 663 Emergence of parapneumonic empyema in the USA
C G Grijalva, Y Zhu, J P Nuorti, M R Griffin

- 669 High prevalence of subclinical tuberculosis in HIV-1-infected persons without advanced immunodeficiency: implications for TB screening
T Oni, R Burke, R Tsekela, N Bangani, R Seldon, H P Gideon, K Wood, K A Wilkinson, T H M Ottenhoff, R J Wilkinson

Cystic fibrosis

- 674 Validation and use of a parametric model for projecting cystic fibrosis survivorship beyond observed data: a birth cohort analysis
A D Jackson, L Daly, A L Jackson, C Kelleher, B C Marshall, H B Quinton, G Fletcher, M Harrington, S Zhou, E F McKone, C Gallagher, L Foley, P Fitzpatrick
680 Exacerbation frequency and clinical outcomes in adult patients with cystic fibrosis
K de Boer, K L Vandemheen, E Tullis, S Doucette, D Fergusson, A Freitag, N Paterson, M Jackson, M D Loughheed, V Kumar, S D Aaron

Chronic obstructive pulmonary disease

- 686 The fibrinogen cleavage product Aα-Val<sup>360</sup>, a specific marker of neutrophil elastase activity in vivo
R I Carter, R A Mumford, K M Treonze, P E Finke, P Davies, Q Si, J L Humes, A Dirksen, E Pitulainen, A Ahmad, R A Stockley

Epidemiology

- 692 Relationship of vitamin D status to adult lung function and COPD
S O Shaheen, K A Jameson, S M Robinson, B J Boucher, H E Syddall, A Aihie Sayer, C Cooper, J W Holloway, E M Dennison

Respiratory epidemiology

- 699 Risk of fractures with inhaled corticosteroids in COPD: systematic review and meta-analysis of randomised controlled trials and observational studies
Y K Loke, R Cavallazzi, S Singh

Tuberculosis

- 709 Molecular epidemiology of Mycobacterium tuberculosis in East Lancashire 2001–2009
A D Sails, A Barrett, S Sarginson, J G Magee, P Maynard, I Hafeez, L P Ormerod

Review

- 714 An update on contraindications for lung function testing
B G Cooper

PostScript

- 724 Letters to the Editor
730 Correspondence

MORE CONTENTS ▶

Cover credit: CXR showing a left pleural effusion. Please see pulmonary puzzle on pages 733 and 738 for more details.



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



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.

**Chest Clinic****Pulmonary puzzle**

- 733** A 76-year-old lady with chronic cough and a discharging chest wall sinus  
*M Deshpande, A Kamath, K Allinson, D Peat, W Parry*

**Audit update**

- 734** British Thoracic Society emergency oxygen audits  
*B R O'Driscoll, L S Howard, C Bucknall, S A Welham, A G Davison, On behalf of the British Thoracic Society*

**Opinion**

- 736** CT screening for lung cancer in the UK: position statement by UKLS investigators following the NLST report  
*J K Field, D Baldwin, K Brain, A Devaraj, T Eisen, S W Duffy, D M Hansell, K Kerr, R Page, M Parmar, D Weller, P Williamson, D Whynes, UKLS Team*

**Images in Thorax**

- 740** Apical lung herniation  
*H Ranu, M Jackson*

**Miscellanea**

- 662** Journal club: Respiratory viruses are not associated with acute graft rejection during the acute phase of infection  
*M Elftise*
- 685** Journal club: Oxygen therapy is equivalent to room air for alleviating refractory dyspnoea  
*J R Y Chew*
- 698** Journal club: Cardiolipin levels may be a factor in lung injury in pneumonia  
*H Brothers*
- 713** Journal club: Endobronchial valves for advanced emphysema  
*L-J E Smith*
- 739** Journal club: Scotland's smoking ban means fewer kids in hospital with asthma  
*A Gupta*