



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

Statistical Editors

J Gibson (UK)

Statistical Advisor

T McKeever (UK)

Lung Alert Editor

J Quint (UK)

President, British Thoracic Society

A Greening

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: © 2012 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

- 189** Asthma and pregnancy: do they give clues to abnormal antiviral activity?
W W Busse, J E Gern
- 191** Inflammometry: the current state of play
I D Pavord, P G Gibson

Original articles
Asthma

- 193** Use of sputum eosinophil counts to guide management in children with severe asthma
L Fleming, N Wilson, N Regamey, A Bush
- 199** A systematic review and meta-analysis: tailoring asthma treatment on eosinophilic markers (exhaled nitric oxide or sputum eosinophils)
H L Petsky, C J Cates, T J Lasserson, A M Li, C Turner, J A Kynaston, A B Chang

- 209** Impaired type I and III interferon response to rhinovirus infection during pregnancy and asthma
R L Forbes, P G Gibson, V E Murphy, P A B Wark

Asthma and the environment

- 215** Nocturnal temperature controlled laminar airflow for treating atopic asthma: a randomised controlled trial
R J Boyle, C Pedroletti, M Wickman, L Bjermer, E Valovirta, R Dahl, A Von Berg, O Zetterström, J O Warner, for the 4A Study Group

Cystic fibrosis

- 222** NMR spectroscopy metabolomic profiling of exhaled breath condensate in patients with stable and unstable cystic fibrosis
P Montuschi, D Paris, D Melck, V Lucidi, G Ciabattoni, V Raia, C Calabrese, A Bush, P J Barnes, A Motta

Chronic obstructive pulmonary disease

- 229** Acilidium inhibits human lung fibroblast to myofibroblast transition
J Milara, A Serrano, T Peiró, A Gavalda, M Miralpeix, E J Morcillo, J Cortijo
- 238** Time course and pattern of COPD exacerbation onset
S D Aaron, G C Donaldson, G A Whitmore, J R Hurst, T Ramsay, J A Wedzicha

Acute lung injury

- 244** Selective inhibition of intra-alveolar p55 TNF receptor attenuates ventilator-induced lung injury
S Bertok, M R Wilson, P J Morley, R de Wildt, A Bayliffe, M Takata

Paediatrics

- 252** Coarse and fine particles but not ultrafine particles in urban air trigger hospital admission for asthma in children
A Iskandar, Z J Andersen, K Bonnelykke, T Ellermann, K K Andersen, H Bisgaard

Review

- 258** Review of the British Thoracic Society Winter Meeting 2011, 7–9 December, London, UK
H K Bayes, A C Church, A J Fisher, On behalf of the BTS Science and Research Committee

PostScript

- 263** Correspondence

Chest clinic
Obituary

- 266** David Jack (1924–2011) who revolutionised the treatment of asthma
P J Barnes, A Breckenridge

Opinion

- 268** Non-adherence in difficult asthma: time to take it seriously
L G Heaney, R Horne

MORE CONTENTS ►

Cover credit: Eosinophil cell. Coloured Transmission Electron Micrograph (TEM) of a human eosinophil. Here, the lobed nucleus is seen (red, at lower left). The cytoplasm is filled with oval-shaped granules. Dense crystals can also be seen in these granules. SCOTT CAMAZINE/M.MARCHATERRE/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>



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.

Basic science for the chest physician

- 271** Genome-wide association studies in lung disease



M Soler Artigas, L V Wain, M D Tobin

Pulmonary puzzle

- 273** A 67-year-old woman with fever, multiple lung opacities, visual impairment and acute respiratory failure



L B Kawano-Dourado, A de M Kawassaki, V L Capelozzi, M S Tavares, C S V Barbas

Audit update

- 275** Evidence for a national problem: continued rise in tuberculosis case numbers in urban areas outside London



M E Kruijshaar, I Abubakar, M Dedicat, G H Bothamley, H Maguire, J Moore, J Crofts, M Lipman

Guidelines update

- 278** Standards of care for occupational asthma: an update



D Fishwick, C M Barber, L M Bradshaw, J G Ayres, R Barraclough, S Burge, J M Corne, P Cullinan, T L Frank, D Hendrick, J Hoyle, A D Curran, R Niven, T Pickering, P Reid, A Robertson, C Stenton, C J Warburton, P J Nicholson

Miscellanea

- 198** Journal club: Statins may decrease all cause mortality in pneumonia

H Gemal

- 214** Journal club: A possible mechanism of drug tolerance in mycobacteria

S V Ranson