



Journal of the British Thoracic Society

Impact Factor: 8.121

Editors-in-Chief

N Hart (UK)
G Jenkins (UK)
AR Smyth (UK)

Deputy Editors

N Kaminski (USA)
M Rosenfeld (USA)

Associate Editors

D Baldwin (UK)	P O'Byrne (Canada)
R Chambers (UK)	J-L Pepin (France)
T Coleman (UK)	M Polkey (UK)
GJ Criner (USA)	J Quint (UK)
J Davies (UK)	N Rahman (UK)
A Floto (UK)	S Shaheen (UK)
M Griffiths (UK)	R Stevens (USA)
L Heaney (UK)	M Tobin (UK)
S Janes (UK)	A Vonk noordegraaf (The Netherlands)
B Kampman (UK)	C Wainwright (Australia)
M Kolb (USA)	T Wilkinson (UK)
B Mohlekesi (USA)	

Online Content Editor

N Hopkinson (UK)

Statistical Editors

V Cornelius (UK)
A Douiri (UK)
J Gibson (UK)
N Hamblett (USA)
D Lederer (USA)
R Szczesniak (USA)
B Wagner (USA)

Journal Club Editor

J Quint (UK)

President, British Thoracic Society

MDL Morgan

Editorial Office

Thorax, BMA House, Tavistock Square,
London WC1H 9JR, UK
T: +44 (0)20 7383 6373
E: thorax@bmj.com

Twitter: @ThoraxBMJ

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: © 2016 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 Nova Techset Private Limited, Bengaluru & Chennai, India and printed in the UK on acid-free paper.

Thorax (ISSN No: 0040-6376) is published monthly by BMJ Publishing Group and distributed in the USA by Air Business Ltd. Periodicals postage paid at Jamaica NY 11431. POSTMASTER: send address changes to Thorax, Air Business Ltd, c/o Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

Editorials

777 Another piece in the 'research mosaic' that describes the role of the lung microbiome in COPD

G B Huffnagle

779 Recovery from ICU-acquired weakness; do not forget the respiratory muscles!

R Gosselink, D Langer

781 Asymptomatic COPD, until you take it to exertion

L E G W Vanfleteren

783 Is rehabilitation post critical illness a new anti-inflammatory agent?

D Elliott, Z Puthuchery

Biomarkers of disease

785 Diagnostic performance of a seven-marker serum protein biosignature for the diagnosis of active TB disease in African primary healthcare clinic attendees with signs and symptoms suggestive of TB

N N Chegou, J S Sutherland, S Malherbe, A C Crampin, P L A M Corsijens, A Geluk, H Mayanja-Kizza, A G Loxton, G van der Spuy, K Stanley, L A Kotzé, M van der Vyver, I Rosenkrands, M Kidd, P D van Helden, H M Dockrell, T H M Ottenhoff, S H E Kaufmann, G Walzl, on behalf of the AE-TBC consortium

Chronic obstructive pulmonary disease

795 Community dynamics and the lower airway microbiota in stable chronic obstructive pulmonary disease, smokers and healthy non-smokers

G G Einarsson, D M Comer, L McIlreavey, J Parkhill, M Ennis, M M Tunney, J S Elborn

804 Asymptomatic subjects with airway obstruction have significant impairment at exercise

T Soumagne, P Laveneziana, M Veil-Picard, A Guillien, F Claudé, M Puyraveau, I Annesi-Maesano, N Roche, J-C Dalphin, B Degano

Critical care

812 Inspiratory muscle training to enhance recovery from mechanical ventilation: a randomised trial

B M Bissett, I A Leditschke, T Neeman, R Boots, J Paratz

820 Systemic inflammation after critical illness: relationship with physical recovery and exploration of potential mechanisms

D M Griffith, S Lewis, A G Rossi, J Rennie, L Salisbury, J L Merriweather, K Templeton, T S Walsh, RECOVER Investigators

Pulmonary vasculature

830 CT evaluation of small pulmonary vessels area in patients with COPD with severe pulmonary hypertension

F Coste, G Dournes, C Dromer, E Blanchard, V Freund-Michel, P-O Girodet, M Montaudon, F Baldacci, F Picard, R Marthan, P Berger, F Laurent

Respiratory epidemiology

838 Identifying patients at risk for severe exacerbations of asthma: development and external validation of a multivariable prediction model

R J B Loymans, P J Honkoop, E H Termeer, J B Snoeck-Stroband, W J J Assendelft, T R J Schermer, K F Chung, A R Sousa, P J Sterk, H K Reddel, J K Sont, G ter Riet

Thoracic surgery

847 Primary spontaneous pneumothorax: a cohort study of VATS with talc poudrage

G Cardillo, O J Bincliffe, F Carleo, L Carbone, M Di Martino, B C Kahan, N A Maskell

MORE CONTENTS ►

Cover caption: A rare intravascular tumour diagnosed by endobronchial ultrasound (see Owen W T, et al., page 869).



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



This article has been made freely available online under the BMJ Journals Open Access scheme. See <http://journals.bmj.com/site/authors/openaccess.xhtml>



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

<http://publicationethics.org/>



When you have finished with this magazine please recycle it.

Tuberculosis

- 854** Survival of patients with multidrug-resistant TB in Eastern Europe: what makes a difference?

Y Balabanova, O Ignatyeva, L Fiebig, V Riekstina, M Danilovits, K Jaama, E Davidaviciene, B Radiulyte, C M Popa, V Nikolayevskyy, F Drobniewski

Research letter

- 862** Off-label use of inhaled tobramycin in Ontario, Canada

M Tadrous, W Khoo, J M Paterson, M M Mamdani, D N Juurlink, T Gomes

Chest clinic**Case based discussions**

- 865** Exercise-induced haemoptysis as a rare presentation of a rare lung disease

A D Mihalek, C Haney, M Merino, S Roy-Chowdhuri, J Moss, K N Olivier

Images in thorax

- 869** A rare intravascular tumour diagnosed by endobronchial ultrasound

W T Owen, E Karampini, R A Breen, M Moonim, A Nair, S F Barrington, G Santis

Pulmonary puzzles

- 871** A case of progressive breathlessness post partum

S Tyebally, E Ghorani, B Kaur, A Sturdy, A Khokhar, R Fisher, M Seckl, L Price

Journal club summaries

- 874** What's hot that the other lot got

K Prior