



Journal of the British Thoracic Society

Impact Factor: 8.272

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)	J-L Pepin (France)
R Chambers (UK)	M Polkey (UK)
T Coleman (UK)	J Quint (UK)
GJ Criner (USA)	N Rahman (UK)
J Davies (UK)	K Robinson (USA)
A Floto (UK)	S Shaheen (UK)
M Griffiths (UK)	R Stevens (USA)
L Heaney (UK)	A Vonk Noordegraaf
N Hopkinson (UK)	(The Netherlands)
S Janes (UK)	C Wainwright (Australia)
B Kampman (UK)	T Wilkinson (UK)
B Mokhelesi (USA)	P Wolters (USA)

Statistical Editors

A Douiri (UK)
C Flach (UK)
C Jackson (UK)
S Stanojevic (USA)
R Szczesniak (USA)
B Wagner (USA)
Y Wang (UK)

Journal Club Editor

P Murphy (UK)

President, British Thoracic Society

Professor M Woodhead

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: © 2018 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 Exeter Premedia Services Private Ltd, 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

303 Donor intravascular monocyte trafficking: a potential therapeutic target for primary graft dysfunction following lung transplantation?
C A Lamb, J A Kirby

305 Friend or foe? The dual role of neutrophils in lung injury and repair
F S Grudzinska, E Sapey

308 Rapamycin for lymphangioleiomyomatosis: optimal timing and optimal dosage
K-F Xu, X Tian, Y Yang, H Zhang

311 Big asthma data: getting bigger and more beautiful?
S Diver, C E Brightling

Asthma

313 Exacerbation risk and characterisation of the UK's asthma population from infants to old age
C I Bloom, F Nissen, I J Douglas, L Smeeth, P Cullinan, J K Quint

Critical care

321 Impaired lung repair during neutropenia can be reverted by matrix metalloproteinase-9
J Blázquez-Prieto, I López-Alonso, L Amado-Rodríguez, C Huidobro, A González-López, W M Kuebler, G M Albaiceta

Chronic obstructive pulmonary disease

331 Sputum microbiome temporal variability and dysbiosis in chronic obstructive pulmonary disease exacerbations: an analysis of the COPDMAP study
Z Wang, R Singh, B E Miller, R Tal-Singer, S Van Horn, L Tomsho, A Mackay, J P Allinson, A J Webb, A J Brookes, L M George, B Barker, U Kolsum, L E Donnelly, K Belchamber, P J Barnes, D Singh, C E Brightling, G C Donaldson, J A Wedzicha, J R Brown, on behalf of COPDMAP

Lung cancer

339 Investigation of the international comparability of population-based routine hospital data set derived comorbidity scores for patients with lung cancer
M Lichtenborg, E J A Morris, D Tataru, V H Coupland, A Smith, R L Milne, L te Marvelde, D Baker, J Young, D Turner, D Nishri, C Earle, L Shack, A Gavin, D Fitzpatrick, C Donnelly, Y Lin, B Moller, D H Brewster, A Deas, D W Huws, C White, J Warlow, J Rashbass, M D Peake

Lung transplantation

350 Intravascular donor monocytes play a central role in lung transplant ischaemia-reperfusion injury
K C Tatham, K P O'Dea, R Romano, H E Donaldson, K Wakabayashi, B V Patel, L Thakuria, A R Simon, P Sarathchandra, Harefield POPSTAR investigators, N Marczin, M Takaia

Non-invasive ventilation

361 Echocardiographic changes with non-invasive ventilation and CPAP in obesity hypoventilation syndrome
J Corral, M V Mogollon, M-Á Sánchez-Quiroga, J G de Terreros, A Romero, C Caballero, J Teran-Santos, M L Alonso-Álvarez, T Gómez-García, M González, S López-Martínez, P de Lucas, J M Marin, O Romero, T Díaz-Cambres, E Chiner, C Egea, R M Lang, B Mokhelesi, J F Masa, on behalf of The Spanish Sleep Network

Orphan lung disease

369 Lung function response and side effects to rapamycin for lymphangioleiomyomatosis: a prospective national cohort study
J Bee, S Fuller, S Miller, S R Johnson

Respiratory epidemiology

376 Leisure-time vigorous physical activity is associated with better lung function: the prospective ECRHS study
E Fuentes, A-E Carsin, J M Antó, R Bono, A G Corsico, P Demoly, T Gislason, J-A Gullón, C Janson, D Jarvis, J Heinrich, M Holm, B Leynaert, A Marcon, J Martinez-Moratalla, D Nowak, S P Erquicia, N M Probst-Hensch, C Rahenison, W Raza, F G Real, M Russell, J L Sánchez-Ramos, J Weyler, J G Aymerich

MORE CONTENTS ►

Cover caption: Coronal section image showing dissection of aorta up to the bifurcation (see Sahoo S, et al., page 395).



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://authors.bmj.com/open-access/>



This journal is a member of and subscribes to the principles of the Committee on Publication Ethics <http://publicationethics.org/>



Research letters

- 385** Safety of pulmonary function testing: data from 20 years
C Roberts, S Ward, E Walsted, J H Hull
- 388** The top 10 research priorities in cystic fibrosis developed by a partnership between people with CF and healthcare providers
N J Rowbotham, S Smith, P A Leighton, O C Rayner, K Gathercole, Z C Elliott, E F Nash, T Daniels, A J A Duff, S Collins, S Chandran, U Peuple, M N Hurley, K Brownlee, A R Smyth
- 391** Change in FVC and survival in chronic fibrotic hypersensitivity pneumonitis
A Gimenez, K Storrer, L Kuranishi, M R Soares, R G Ferreira, C A C Pereira

Chest clinic

Case based discussions

- 393** Pleural effusion as a late complication of intravesical BCG treatment
A Nimmo, A Gray, A Patel, J MacKenzie, I Fairbairn

Images in Thorax

- 395** Unusual cause of opaque hemithorax
S Sahoo, M K Panigrahi, S Bhuniya, P R Mohapatra
- 397** Aortic rupture involving matrix metalloproteinases 8 and 9 during *Staphylococcus aureus* pneumonia
M Hashimoto, S Kuriwa, A Kojima, S Minagawa, T Numata, H Hara, J Araya, Y Kaneko, K Nakayama, M Owada, D Aizawa, T Yorozu, M Suzuki, K Kuwano

Journal club summaries

- 399** What's hot that the other lot got
G W Nava

PostScript

- 349, 360, 368, 396** Withdrawn notices
- 400, 404** Corrections
- 401** 2017 Thank you to our reviewers