



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 (The Netherlands)
N Hopkinson (UK)	C Wainwright (Australia)
S Janes (UK)	T Wilkinson (UK)
B Kampman (UK)	P Wolters (USA)
B Mhokelesi (USA)	
P O'Byrne (Canada)	

Statistical EditorsA Douiri (UK)
C Flach (UK)
C Jackson (UK)
S Stanojevic (USA)
R Szczesniak (USA)
B Wagner (USA)
Y Wang (UK)**Journal Club Editor**

J Quint (UK)

President, British Thoracic Society

Professor E Chilvers

Editorial OfficeThorax, 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: © 2017 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.

ContentsVolume 72 Issue 10 | **THORAX** October 2017**Editorials****867** Divide and conquer: identifying acute respiratory distress syndrome subphenotypes
*M Shankar-Hari, D F McAuley***870** Does a lung cancer screening programme promote smoking cessation?
*F Lococo, G Cardillo, G Veronesi***872** Interplay of physiology, social, familial and behavioural adaptation in the long-term outcome of ARDS
*T J Iwashyna, T S Walsh***874** GDF11: a fountain of youth for the ageing COPD lung?
*M Obeidat, D D Sin***Critical care****876** Identification and validation of distinct biological phenotypes in patients with acute respiratory distress syndrome by cluster analysis
*L D Bos, L R Schouten, L A van Vught, M A Wiewel, D S Y Ong, O Cremer, A Artigas, I Martin-Loeches, A J Hoogendijk, T van der Poll, J Horn, N Juffermans, C S Calfee, M J Schultz, On behalf of the MARS consortium***884** Are physical measures related to patient-centred outcomes in ARDS survivors?
*K S Chan, L Aronson Friedman, V D Dinglas, C L Hough, C Shanholtz, E W Ely, P E Morris, P A Mendez-Tellez, J C Jackson, R O Hopkins, D M Needham***Chronic obstructive pulmonary disease****893** Decrease in an anti-ageing factor, growth differentiation factor 11, in chronic obstructive pulmonary disease
*K Onodera, H Sugiyama, M Yamada, A Koarai, N Fujino, S Yanagisawa, R Tanaka, T Numakura, S Togo, K Sato, Y Kyogoku, Y Hashimoto, T Okazaki, T Tamada, S Kobayashi, M Yanai, M Miura, Y Hoshikawa, Y Okada, S Suzuki, M Ichinose***905** Cardiovascular and neuropsychiatric risks of varenicline and bupropion in smokers with chronic obstructive pulmonary disease
*D Kotz, W Viechtbauer, C R Simpson, O C P van Schayck, R West, A Sheik***Lung cancer****912** Impact of low-dose CT screening on smoking cessation among high-risk participants in the UK Lung Cancer Screening Trial
K Brain, B Carter, K J Lifford, O Burke, A Devaraj, D R Baldwin, S Duffy, J K Field

OPEN ACCESS



EDITOR'S CHOICE

Respiratory infection**919** A prospective, observational cohort study of the seasonal dynamics of airway pathogens in the aetiology of exacerbations in COPD
T M A Wilkinson, E Aris, S Bourne, S C Clarke, M Peeters, T G Pascal, S Schoonbroodt, A C Tuck, V Kim, K Ostridge, K J Staples, N Williams, A Williams, S Wootton, J-M Devaster, on behalf of the AERIS Study Group

OPEN ACCESS

Respiratory research**928** Novel role for endogenous mitochondrial formylated peptide-driven formyl peptide receptor 1 signalling in acute respiratory distress syndrome
D A Dorward, C D Lucas, M K Doherty, G B Chapman, E J Scholefield, A Conway Morris, J M Felton, T Kipari, D C Humphries, C T Robb, A J Simpson, P D Whitfield, C Haslett, K Dhaliwal, A G Rossi

OPEN ACCESS

State of the art review**937** Current understanding and management of pulmonary Langerhans cell histiocytosis
*R Vassallo, S Harari, A Tazi***MORE CONTENTS ►****Cover caption:** Bronchial arteriography showing a pattern that was similar to the beans of a pagoda tree (an herbal medicine). (Fujimoto K, *et al.*, page 962).

EDITOR'S CHOICE



OPEN ACCESS

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

Member since 2009

<http://publicationethics.org/>

When you have finished with this magazine please recycle it.

Research letters

- 946** Corticosteroids and infliximab impair the performance of interferon- γ release assays used for diagnosis of latent tuberculosis
A Edwards, Y Gao, R N Allan, D Ball, H de Graaf, T Coelho, V Clifford, N Curtis, A Williams, S N Faust, S Mansour, B Marshall, P Elkington, M Tebruegge
- 950** Secondary-care costs associated with lung cancer diagnosed at emergency hospitalisation in the United Kingdom
M P T Kennedy, P S Hall, M E J Callister

Chest clinic**Case based discussions**

- 953** A toddler with a cough and wheeze refractory to treatment
S Shanthikumar, T Lwin, C W Chow, J Cramer, J Harrison

Pulmonary puzzle

- 957** A central venous catheter that revealed a vascular paradox
S Savvidou, E Koco, M Tsagourias, D Matamis

Images in thorax

- 960** Visual identification of pulmonary ventilation and perfusion: a new application of lung ultrasound
G Tavazzi, F A Caetano, S Shah, J Alcada, S Price
- 962** Primary racemose haemangioma of the right bronchial artery with thrombus and slow meandering blood flow
K Fujimoto, H Kasai, T Sugiura, N Tanabe, K Tatsumi

Journal club summaries

- 964** What's hot that the other lot got
E Batalla-Duran

THORAX

72 (10)

Thorax 2017 72: i-964

Updated information and services can be found at:

<http://thorax.bmj.com/content/72/10>

These include:

**Email alerting
service**

Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:

<http://group.bmj.com/group/rights-licensing/permissions>

To order reprints go to:

<http://journals.bmj.com/cgi/reprintform>

To subscribe to BMJ go to:

<http://group.bmj.com/subscribe/>