



Journal of the British Thoracic Society

Impact Factor: 9.46

Editors-in-Chief

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

Deputy Editors

N Kaminski (USA)
C Wainwright (Australia)

Associate Editors

D Baldwin (UK)	DL Jarvis (UK)
H Bogaard (The Netherlands)	B Kampman (UK)
R Chambers (UK)	B Mokheles (USA)
S Christenson (USA)	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)	K Robinson (USA)
M Griffiths (UK)	S Seglani (UK)
L Heaney (UK)	R Stevens (USA)
N Hopkinson (UK)	T Wilkinson (UK)
S James (UK)	P Wolters (USA)

Statistical Editors

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

Journal Club Editor

P Murphy (UK)

Multimedia Editor

R Moses (UK)

President, British Thoracic Society

Professor M Woodhead

Editorial Office

Thorax, BMJ Journals, 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: © 2019 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.

Contents

Volume 74 Issue 8 | THORAX August 2019

Editorials

- 725** Should pulmonary rehabilitation be a standard of care in lung cancer?
M C Steiner
- 727** Costs of case-finding uncovered: time to revisit COPD's value pyramid?
J F M van Boven

Chronic obstructive pulmonary disease

- 730** Model-based evaluation of the long-term cost-effectiveness of systematic case-finding for COPD in primary care
T Lambe, P Adab, R E Jordan, A Sitch, A Enocson, K Jolly, J Marsh, R Riley, M Miller, B G Cooper, A M Turner, J G Ayres, R Stockley, S Greenfield, S Siebert, A Daley, K K Cheng, D Fitzmaurice, S Jowett

Cystic fibrosis

- 740** *Pseudomonas aeruginosa* eradication therapy and risk of acquiring *Aspergillus* in young children with cystic fibrosis
S N Harun, N H G Holford, K Grimwood, C E Wainwright, S Hennig, On behalf of Australasian Cystic Fibrosis Bronchoalveolar Lavage (ACFBAL) study group

Interstitial lung disease

- 749** PGC1 α repression in IPF fibroblasts drives a pathologic metabolic, secretory and fibrogenic state
N Caporarello, J A Meridew, D L Jones, Q Tan, A J Haak, K M Choi, L J Manlove, Y S Prakash, D J Tschumperlin, G Ligresti

Lung cancer

- 761** Probability of cancer in lung nodules using sequential volumetric screening up to 12 months: the UKLS trial
M W Marcus, S W Duffy, A Devaraj, B A Green, M Oudkerk, D Baldwin, J Field
- 768** Ozone-primed neutrophils promote early steps of tumour cell metastasis to lungs by enhancing their NET production
N Rocks, C Vanwing, C Radermecker, S Blacher, C Gilles, R Maré, A Gillard, B Evvard, C Pequeux, T Marichal, A Noel, D Cataldo

Pleural disease

- 780** Longer symptom onset to aspiration time predicts success of needle aspiration in primary spontaneous pneumothorax
C Vuillard, F Dib, J Achamlal, S Gaudry, D Roux, M Chemouny, N Javaud, D Dreyfuss, J-D Ricard, J Messika

Rehabilitation

- 787** Multidisciplinary home-based rehabilitation in inoperable lung cancer: a randomised controlled trial
L Edbrooke, S Aranda, C L Granger, C F McDonald, M Krishnasamy, L Mileshein, R A Clark, I Gordon, L Irving, L Denelhy

State of the art review

- 797** Measuring lung function in airways diseases: current and emerging techniques
N Petousi, N P Talbot, I Pavord, P A Robbins

Brief communications

- 806** Change in type-2 biomarkers and related cytokines with prednisolone in uncontrolled severe oral corticosteroid dependent asthmatics: an interventional open-label study
J Busby, C T J Holweg, A Chai, P Bradding, F Cai, R Chaudhuri, A H Mansur, J L Lordan, J G Matthews, A Menzies-Gow, R Niven, T Staton, L G Heaney

MORE CONTENTS ►

Cover caption: Examples of airway stenting in various indications: (A) Patient 4: bronchoscopic view of the upper (1) and lower (2) extremities of a customised stent implanted for a post-transplant ACAS of the left main bronchus; (3) 7-day CT scan showing perfect congruence between the device and the airways. (see Guibert N, *et al.* page 813)



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/>



When you have finished with this magazine please recycle it.

- 810** Treatment of complex airway stenoses using patient-specific 3D-engineered stents: a proof-of-concept study
N Guibert, A Didier, B Moreno, B Lepage, P Leyx, G Plat, L Mhanna, M Murris, J Mazières, C Hermant
- 814** Patterns of breathlessness and associated consulting behaviour: results of an online survey
A F Elbehairy, J K Quint, J Rogers, M Laffan, M I Polkey, N S Hopkinson

Chest clinic

Case based discussions

- 818** Massive haemoptysis and ventilatory failure in pregnancy
W G Flight, I Tang, A Gates, J Snowball, J M Wrightson, L Mackillop, S J Chapman

Pulmonary puzzles

- 821** Wandering consolidation
T Kawahara, N Ochi, K Kato, K Shibamoto, Y Nagasaki, N Nakagawa, H Nakanishi, H Yamane, Y Monobe, N Takigawa



Journal club summaries

- 823** What's hot that the other lot got
M MacLeod

Miscellaneous

- 824** Correction: *Outcome of surgery versus radiotherapy after induction treatment in patients with N2 disease: systematic review and meta-analysis of randomised trials*