

Thorax

Journal of the British Thoracic Society

Impact Factor: 10.307

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) B Mokhlesi (USA)
HJ Bogaard (The Netherlands) I Noth (USA)
R Chambers (UK) J-L Pepin (France)
S Christenson (USA) M Polkey (UK)
T Coleman (UK) J Quint (UK)
GJ Criner (USA) N Rahman (UK)
J Davies (UK) K Robinson (USA)
A Floto (UK) B Sage (UK)
M Griffiths (UK) S Seglani (UK)
L Heaney (UK) R Stevens (USA)
N Hopkinson (UK) M Tobin (UK)
S Janes (UK) T Wilkinson (UK)
DL Jarvis (UK) P Wolters (USA)
B Kampman (UK)

Statistical Editors

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

Journal Club Editor

P Murphy (UK)

Multimedia Editor

R Moses (UK)

President, British Thoracic Society

Mark Elliott

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: The Editor of *Thorax* has been granted editorial freedom and *Thorax* is published in accordance with editorial guidelines issued by the World Association of Medical Editors and the Committee on Publication Ethics. *Thorax* is primarily intended for healthcare professionals and its content is for information only. The Journal is published without any guarantee as to its accuracy or completeness and any representations or warranties are expressly excluded to the fullest extent permitted by law. Readers are advised to independently verify any information on which they choose to rely. Acceptance of advertising by *Thorax* does not imply endorsement. Neither *BTS* nor *BMJ Publishing Group Limited* shall have any liability for any loss, injury or damage howsoever arising from *Thorax* (except for liability which cannot be legally excluded).

Copyright: © 2020 *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 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 75 Issue 1 | THORAX January 2020

Airwaves

- 1 Highlights from this issue
The Triumvirate

Editorials

- 2 Palliative treatment of chronic breathlessness syndrome: the need for P5 medicine
D J A Janssen, M J Johnson

- 4 The association of sleep disturbances measures with blood pressure: is the time to explore novel measurements?
B Prasad, M Sánchez-de-la-Torre

- 6 Pneumococcal pneumonia
D Goldblatt, E Miller

Chronic obstructive pulmonary disease

- 8 Resistome analyses of sputum from COPD and healthy subjects reveals bacterial load-related prevalence of target genes
M Y Ramsheh, K Haldar, M Bafadhel, L George, R C Free, C John, N F Reeve, L Ziegler-Heitbrock, I Gut, D Singh, V Mistry, M D Tobin, M R Oggioni, C Brightling, M R Barer

Critical care

- 17 Return to work after critical illness: a systematic review and meta-analysis
B B Kamdar, R Suri, M R Suchyta, K F Digrande, K D Sherwood, E Colantuoni, V D Dinglas, D M Needham, R O Hopkins

Respiratory epidemiology

- 28 Childhood pneumonia, pleurisy and lung function: a cohort study from the first to sixth decade of life
J L Perret, C J Lodge, A J Lowe, D P Johns, B R Thompson, D S Bui, L C Gurrin, M C Matheson, C F McDonald, R Wood-Baker, C Svanes, P S Thomas, G G Giles, A B Chang, M J Abramson, E H Walters, S C Dharmage, On behalf of TAHS investigators

Respiratory infection

- 38 Pneumococcal serotype trends, surveillance and risk factors in UK adult pneumonia, 2013–18
H Pickle, P Daniel, C Rodrigo, T Bewick, D Ashton, H Lawrence, V Baskaran, R C Edwards-Pritchard, C Sheppard, S D Eleut, S Rose, D Litt, N K Fry, S Ladhani, M Chand, C Trotter, T M McKeever, W S Lim

Respiratory research

- 50 Regular, sustained-release morphine for chronic breathlessness: a multicentre, double-blind, randomised, placebo-controlled trial
D Currow, S Louw, P McCloud, B Fazekas, J Plummer, C F McDonald, M Agar, K Clarke, N McCaffery, M P Ekström, On behalf of the Australian National Palliative Care Clinical Studies Collaborative (PaCCSC)

Sleep

- 57 Association of novel measures of sleep disturbances with blood pressure: the Multi-Ethnic Study of Atherosclerosis
J S Kim, A Azarbarzin, R Wang, I E Djonlagic, N M Punjabi, P C Zee, B B Koo, E Z Soliman, M Younes, S Redline

Tuberculosis

- 64 Delivery of long-term-injectable agents for TB by lay carers: pragmatic randomised trial
D B Cohen, K Mbendera, H Maheswaran, M Mukaka, H Mangochi, L Phiri, J Madan, G Davies, E Corbett, B Squire

State of the art review

- 72 Using digital technology for home monitoring, adherence and self-management in cystic fibrosis: a state-of-the-art review
R J Calthorpe, S Smith, K Gathercole, A R Smyth

Brief communications

- 78 Risk factors for disease progression in idiopathic pulmonary fibrosis
G Raghu, B Ley, K K Brown, V Cottin, K F Gibson, R J Kaner, D J Lederer, P W Noble, J W Song, A U Wells, T P Whelan, D A Lynch, S M Humphries, E Moreau, K Goodman, S D Patterson, V Smith, Q Gong, J S Sundry, T G O'Riordan, F J Martinez

MORE CONTENTS ►

Cover caption: Thoracic high-resolution (HR) CT-scan evolution, initial bronchoalveolar lavage (BAL) and surgical lung biopsy with H&E staining (see Frémond M-L, et al. page 94)



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.

Thorax: first published as on 1 January 2020. Downloaded from <http://thorax.bmj.com/> on November 26, 2020 by guest. Protected by copyright.

- 82  Carbon footprint impact of the choice of inhalers for asthma and COPD
C Janson, R Henderson, M Löfdahl, M Hedberg, R Sharma, A J K Wilkinson
- 85 Association between particulate matter air pollution and lung cancer
Z Zhang, D Zhu, B Cui, R Ding, X Shi, P He
- 88 *Burkholderia cenocepacia* ET12 transmission in adults with cystic fibrosis
A C Blanchard, L Tang, M Tadros, M Muller, T Spilker, V J Waters, J J LiPuma, E Tullis

Chest clinic

Case based discussions

- 92 Use of ruxolitinib in COPA syndrome manifesting as life-threatening alveolar haemorrhage
M-L Frémond, M Legendre, M Fayon, A Clement, E Filhol-Blin, N Richard, L Berdah, S Roullaud, G I Rice, V Bondet, D Duffy, C Sileo, H Ducou le Pointe, H Begueret, A Coulomb, B Neven, S Amselem, Y Crow, N Nathan

Journal club

- 96 What's hot that the other lot got
D Cheng