

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) R Chambers (UK) S Christenson (USA) I Noth (USA) J-L Pepin (France) M Polkey (UK) J Quint (UK) T Coleman (LIK) GJ Criner (USA) J Davies (UK) N Rahman (UK) K Robinson (USA) A Floto (UK) M Griffiths (UK) B Sage (UK) S Seglani (UK) L Heaney (UK) N Hopkinson (UK) R Stevens (USA) S Janes (UK) DL Jarvis (UK) M Tobin (UK) T Wilkinson (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@bmi.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

Airwaves

Highlights from this issue 1 The Triumvirate

Editorials

4

6

8

- 2 Palliative treatment of chronic breathlessness syndrome: the need for P5 medicine D [A Janssen, M] Johnson
 - The association of sleep disturbances measures with blood pressure: is the time to explore novel measurements? B Prasad, M Sánchez-de-la-Torre

Pneumococcal pneumonia D Goldblatt, E Miller 6) OPEN ACCESS

Chronic obstructive pulmonary disease

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

Return to work after critical illness: a 17 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

Childhood pneumonia, pleurisy and lung 28 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 Pick, P Daniel, C Rodrigo, T Bewick, D Ashton, H Lawrence, V Baskaran, R C Edwards-Pritchard, C Sheppard, S D Eletu, 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-V
 - blind, randomised, placebo-controlled trial D Currow, S Louw, P McCloud, B Fazekas, J Plummer, C F McDonald, M Agar, K Clark, 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 6 OPEN ACCESS

72

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

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 Lev, 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 Sundy, 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 made freely available online under the BMJ Journals open access scheme. OPEN ACCESS

See http://authors.bmj.com/open-access/



♦ recycle

When you have finished with his magazine please recycle it

EDITOR'S CHOICE

6

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

http://publicationethics.org/

Thorax: first published as on 1 January 2020. Downloaded from http://thorax.bmj.com/ on June 6, 2025 at Department GEZ-LTA Erasmushogeschool Protected by copyright, including for uses related to text and data mining, Al training, and similar technologies.

Contents

82 Carbon footprint impact of the choice of inhalers for asthma and COPD

ACCSS 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*