

Journal of the British Thoracic Society Impact Factor: 9,203 Editors-in-Chief M Griffiths (UK) C O'Kane (UK) J Quint (UK) **Deputy Editors** A Bottle (UK) R Chambers (UK) M Shankar-Hari (UK) **Associate Editors** M Bafhadel (UK) D Baldwin (LIK) B Barratt (UK) B Blackwood (UK) K Blvthe (UK) HJ Bogaard M Nikolic (UK) (The Netherlands) F Brimms (Australia) M Polkey (UK) N Chaudhuri (UK) J Porter (UK) B Connolly (UK) R Riha (UK) GJ Criner (USA) C Dean (UK) S Saglani (UK) D Dockrell (UK) E Sapey (UK) A Floto (UK) J Honda (USA) N Honkinson (LIK) A Shah (UK) D Jackson (UK) S Singh (India) C Janson (Sweden G Kaltsakas (UK) D Kiely (UK) K Verhamme B Kirenga (Uganda) (Netherlands) M Knauert (UK) C Wainwright (Australia)

G Lee (Australia) W Lenney (UK) M Loebinger (UK) R Masekela (South Africa) I Mudway (UK) V Navaratnam (UK) J-L Pepin (France) M Sadatsafavi (Canada) M Sauler (USA) C Scotton (UK) R Stevens (USA) M Toshner (UK)

#### **Guidelines Associate Editor**

I Du Rand (UK) Statistical Editors A Douiri (UK) E Gecili (USA) S Nolan (LIK) M Taghavi Azar Sharabiani (USA) S Stanojevic (USA) LStewart (LIK) R Szczesniak (USA) Y Wang (UK) **Journal Club Editor** P Murphy (UK) President, British Thoracic Society Onn Min Kon Multimedia Editor Nick Hopkinson (UK) **Editorial Office** Thorax, BMJ Journals, BMA House, Tavistock Square, London, WC1H 9JR, UK +44 (0)20 7383 6373

E: thorax@bmj.com Twitter: @ThoraxBMJ ISSN: 0040-6376 (print) ISSN: 1468-3296 (online)

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 pinnaring 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* not 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). **Convertent:** © 2023 BMJ Ehblishing Group 1td and

 $\begin{array}{l} \textbf{Copyright:} @ 2023 BMJ Publishing Group Ltd and the British Thoracic Society. All rights reserved; no part of this publication may be reproduced in any form without permission \\ \end{array}$ 

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 (USPS 2143) is published Thorax, ISSN No: 0040–6376 (USPS 2143) is published monthly by BNJ Publishing Group Ltd, BNA House, Tavistock Square, WC1H 9JR London, Arfreight and mailing in the USA by agent named World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Periodicals postage paid at Brooklyn, NY 11256, USA Postmaster: Send address changes to Thorax, World Container Inc, 150-15, 183rd Street, Jamaica, NY 11414, USA. Subscription perrort are maintained at BMA blaces USA. Subscription records are maintained at BMA House Tavistock Square, WC1H 9JR London. Air Business Ltd is acting as our mailing agent.

## **Contents**

## **Editorials**

- 635 Respiratory effects of air pollution: time to stop this deadly trajectory S De Matteis
- 637 Lung cancer screening in advanced chronic obstructive pulmonary disease: helpful or harmful? M Ruparel
- 640 How to handle big data for disease stratification in respiratory medicine? K Tsaneva-Atanasova, C Scotton

#### Asthma

643 Asthma exacerbations are associated with 6 a decline in lung function: a longitudinal OPEN ACCESS population-based study S Soremekun, L G Heaney, D Skinner,

L Bulathsinhala, V Carter, I Chaudhry, N Hosseini, N Eleangovan, R Murray, T N Tran, B Emmanuel, E Garcia Gil, A Menzies-Gow, M Peters, N Lugogo, R Jones, D B Price

653 Preterm or early term birth and long-term risk of asthma into midadulthood: a national cohort and cosibling study C Crump, J Sundquist, K Sundquist

661 Macrophage migration inhibitory factor promotes glucocorticoid resistance of neutrophilic inflammation in a murine model of severe asthma V S R R Allam, S Pavlidis, G Liu, N Z Kermani,

J Simpson, J To, S Donnelly, Y-K Guo, P M Hansbro, S Phipps, E F Morand, R Djukanovic, P Sterk, K F Chung, I Adcock, I Harris, M B Sukkar

#### **Critical care**

674 Population study on diagnosis, treatment and outcomes of critically ill patients with tuberculosis (2008-2018)

C So, L Ling, W T Wong, J Z Zhang, C M Ho, P Y Ng, H P Shum, A W T Yeung, K C Sin, J Chan, K F Au, T Liong, E Ho, F L Chow, L Ho, K M Chan, G M Jovnt

#### Interstitial lung disease

Topological data analysis identifies molecular 682 6 phenotypes of idiopathic pulmonary fibrosis OPEN ACCESS A Shapanis, M G Jones, J Schofield, P Skipp

#### Lung cancer



Airflow limitation and mortality during cancer screening in the National Lung Screening Trial: why quantifying airflow limitation matters R P Young, R C Ward, R J Scott, G D Gamble, G Silvestri

# **Respiratory epidemiology**

- 698 Air pollution associated with incidence and progression trajectory of chronic lung diseases: a population-based cohort study X Wang, L Chen, M Cai, F Tian, H Zou, Z (Min) Qian, Z Zhang, H Li, C Wang, S W Howard, Y Peng, L'e Zhang, E Bingheim, H Lin, Y Zou
- 706 6 OPEN ACCESS
- Patient outcomes following emergency admission to hospital for COVID-19 compared with influenza: retrospective cohort study T Woodcock, G Greenfield, A Lalvani, A Majeed, P Aylin

## Sleep

713 Randomised, controlled crossover trial of intermittent and continuous transcutaneous electrical stimulation of the genioglossus muscle for obstructive sleep apnoea X Wu, D Zhao, W Hu, Z Zheng, S Zha, Q Zhang, K Hu

# **Brief Communication**

- Patients' perceptions on clinical trials 721 outcomes in pulmonary arterial hypertension therapy
  - V Mai, C Gosselin, É Tremblav, G Rompré, A C Lajoie, J Weatherald, J-C Lega, S Bonnet, S Provencher

#### MORE CONTENTS

Cover caption: Macrophage migration inhibitory factor promotes glucocorticoid resistance of neutrophilic inflammation in a murine model of severe asthma (see Allam VSRR, et al. page 664)



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/

♦ recycle When you have finished with his magazine please recycle it

# Volume 78 Issue 7 | THORAX July 2023

## State of the art review

**726** Endotyping, phenotyping and personalised therapy in obstructive sleep apnoea: are we there yet? *C D Turnbull, J R Stradling* 

# **Images in Thorax**

**733** Rare cause of massive haemoptysis diagnosed by ultrasonography in the ICU *W W S Ng, K Chin, S M Lam* 

'Double-bifurcated' stent: when 3D is not an option

N Guibert, J Mazières, B Moreno, H Dutau, G Plat, V Héluain, R Kessler, M Porzio

#### Journal club 738 Journal club E Koukaki

735