

British Thoracic Society Winter Meeting Online

Wednesday 17th February 2021: 08:00-08:30

BTS JOURNAL CLUB – NEW INSIGHTS TO CHRONIC COUGH

Professor Jacky Smith runs a specialist cough clinic and multi-disciplinary research team studying the symptom of cough. Her group has developed a patented objective cough monitoring system, that has been commercialised by Vitalograph Ltd, the VitaloJAK. This system has changed the standards by which cough therapies are evaluated in clinical trials. She has also led work on the development of novel treatments for chronic cough, including P2X3 antagonists. She is funded by a Wellcome Investigator Award, is Director of the NIHR Manchester Clinical Research Facility and is an NIHR Senior Investigator.

PAPERS TO BE PRESENTED AND DISCUSSED

- 1) Gefapixant, a P2X3 receptor antagonist, for the treatment of refractory or unexplained chronic cough: a randomised, double-blind, controlled, parallel-group, phase 2b trial. Smith JA, Kitt MM, Morice AH, Birring SS, McGarvey LP, Sher MR, Li YP, Wu WC, Xu ZJ, Muccino DR, Ford AP; Protocol 012 Investigators. *Lancet Respir Med.* 2020 Aug;8(8):775-785. PMID: 32109425
 - 2) The effect of gefapixant, a P2X3 antagonist, on cough reflex sensitivity: a randomised placebo-controlled study. Morice AH, Kitt MM, Ford AP, Tershakovec AM, Wu WC, Brindle K, Thompson R, Thackray-Nocera S, Wright C. *Eur Respir J.* 2019 Jul 4;54(1):1900439. PMID: 31023843
 - 3) Airway Sensory Nerve Density is Increased in Chronic Cough. Shapiro CO, Proskocil BJ, Oppegard LJ, Blum ED, Kappel NL, Chang CH, Fryer AD, Jacoby DB, Costello RW, Drake MG. *Am J Respir Crit Care Med.* 2020 Aug 18. doi: 10.1164/rccm.201912-2347OC. Online ahead of print.
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Thursday 18th February 2021: 08:00-08:30

BTS JOURNAL CLUB – THE EVIDENCE FOR AND AGAINST LOW EMISSION ZONES

Dr Ian Mudway is a Senior Lecturer at the MRC Centre for Environment and Health, Environmental Research Group, Imperial College London, UK. He is also a member of the Asthma UK Centre in Allergic Mechanisms of Asthma and NIHR Health Protection Research Unit in Environmental Exposures and Health. He has over 25 years of experience researching the impacts of air pollution on human health, with his current work focused on understanding early life impacts of pollutants on the development of the lung and cognitive function in children living within urban areas, as well impact of air pollution mitigation schemes on public health.

PAPERS TO BE PRESENTED AND DISCUSSED

- 1) [Review of the efficacy of low emission zones to improve urban air quality in European cities.](#) Holman C, Harrison R, Querol X. *Atmos. Environ.* 2015. doi:10.1016/j.atmosenv.2015.04.00
 - 2) [Impact of London's low emission zone on air quality and children's respiratory health: a sequential annual cross-sectional study.](#) *Lancet Public Health.* Mudway IS, Dundas I, Wood HE, Marlin N, Jamaludin JB, Bremner SA, Cross L, Grieve A, Nanzer A, Barratt BM, Beevers S, Dajnak D, Fuller GW, Font A, Colligan G, Sheikh A, Walton R, Grigg J, Kelly FJ, Lee TH, Griffiths CJ. 2019 Jan;4(1):e28-e40. doi: 10.1016/S2468-2667(18)30202-0.
 - 3) [Interventions to reduce ambient air pollution and their effects on health: An abridged Cochrane systematic review.](#) Burns J, Boogaard H, Polus S, Pfadenhauer LM, Rohwer AC, van Erp AM, Turley R, Rehfuess EA. *Environ Int.* 2020 Feb;135:105400. doi: 10.1016/j.envint.2019.105400.
 - 4) [Health benefits of traffic-related air pollution reduction in different socioeconomic groups: the effect of low-emission zoning in Rome.](#) Cesaroni G, Boogaard H, Jonkers S, Porta D, Badaloni C, Cattani G, Forastiere F, Hoek G. *Occup Environ Med.* 2012 Feb;69(2):133-9. doi: 10.1136/oem.2010.063750.
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Friday 19th February 2021: 08:00-08:30

BTS JOURNAL CLUB – RESPIRATORY DISEASE IN ATHLETES

Dr James Hull is a Consultant Respiratory Physician at the Royal Brompton Hospital (RBH) and an Associate Professor at the Institute of Sport, Exercise and Health (ISEH), UCL. He is clinical lead for the unexplained breathlessness and chronic cough services at RBH and has a specialist clinical and research sports pulmonology clinic at ISEH. He is a specialist advisor to the International Olympic Committee, English Institute of Sport and UK Anti-doping and UEFA on sport-related respiratory issues.

PAPERS TO BE PRESENTED AND DISCUSSED

1) The benefits of a systematic assessment of respiratory health in illness susceptible athletes

Hull JH, Jackson AR, Ranson C, Brown F, Wootten M, Loosemore M. *Eur Respir J*. 2020 Dec 17:2003722. doi: 10.1183/13993003.03722-2020. Online ahead of print. PMID: 33334943

2) Cardiorespiratory considerations for return-to-play in elite athletes after COVID-19 infection: a practical guide for sport and exercise medicine physicians

Wilson MG, Hull JH, Rogers J, Pollock N, Dodd M, Haines J, Harris S, Loosemore M, Malhotra A, Piele G, Shah A, Taylor L, Vyas A, Haddad FS, Sharma S. *Br J Sports Med*. 2020 Oct;54(19):1157-1161. doi: 10.1136/bjsports-2020-102710. Epub 2020 Sep 2.

3) High prevalence of exercise-induced stridor during Parkrun: a cross-sectional field-based evaluation

Sails J, Hull JH, Allen H, Darville L, Walsted ES, Price OJ. *BMJ Open Respir Res*. 2020 Sep;7(1):e000618. doi: 10.1136/bmjresp-2020-000618.

4) Is the healthy respiratory system built just right, overbuilt, or underbuilt to meet the demands imposed by exercise?

Dempsey JA, La Gerche A, Hull JH. *J Appl Physiol* (1985). 2020 Dec 1;129(6):1235-1256. doi: 10.1152/jappphysiol.00444.2020. Epub
