

Journal of the Royal College of  
Paediatrics and Child Health

**Editor in Chief**

Nick Brown

**Edition Editor**

Ben Stenson

**Commissioning Editor**

Mark Johnson

**Editorial Office***Archives of Disease in Childhood*

BMJ Publishing Group Ltd

BMA House

Tavistock Square

London WC1H 9JR, UK

E: [info.adc@bmj.com](mailto:info.adc@bmj.com)**Senior Production Editor**

Malcolm Smith

ISSN: 1359-2998 (print)

ISSN: 1468-2052 (online)

Impact factor 5.436

**Disclaimer:** The Editor of *ADC* has been granted editorial freedom and *ADC* is published in accordance with editorial guidelines issued by the World Association of Medical Editors and the Committee on Publication Ethics. *ADC* 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 *ADC* does not imply endorsement. Neither *RCPCCH* nor BMJ Publishing Group Limited shall have any liability for any loss, injury or damage howsoever arising from *ADC* (except for liability which cannot be legally excluded).

**Copyright** © 2021 BMJ Publishing Group Ltd and Royal College of Paediatrics and Child Health. All rights reserved; no part of this publication may be reproduced in any form without permission.

*ADC* is published by BMJ Publishing Group Ltd, typeset by Exeter Premedia Services Private Limited, Chennai, India and printed in the UK on acid-free paper.

*ADC* (ISSN No: 0003-9888) is distributed in the USA by Air Business Ltd. Periodicals postage paid at Jamaica NY 11431, and additional mailing offices. POSTMASTER: send address changes to *Archives of Disease in Childhood*, Air Business Ltd, c/o WN Shipping USA, 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

**Fantoms****F343** Highlights from this issue*B J Stenson***Editorial****F344** Neonatal resuscitation: it's a family affair*C P F O'Donnell***Original research****F346** Reviewing recordings of neonatal resuscitation with parents*M C den Boer, M Houtlosser, R S G M Witlox, R van der Stap, M C de Vries, E Lopriore, A B te Pas***F352** Cardiorespiratory monitoring in the delivery room using transcutaneous electromyography*R W van Leutenen, E Kho, C G de Waal, A B te Pas, H H Salverda, F H de Jongh, A H van Kaam, G J Hutten***F357** Disorders of vision in neonatal hypoxic-ischaemic encephalopathy: a systematic review*E Nagy, J Self, C Williams, B Vollmer***F363** Retrospective analysis of neonatal deaths secondary to infections in England and Wales, 2013–2015*G Oligbu, L Ahmed, L Ferraras-Antolin, S Ladhani***F370** Regional ventilation characteristics during non-invasive respiratory support in preterm infants*J Thomson, C M Rüegger, E J Perkins, P M Pereira-Fantini, O Farrell, L S Owen, D G Tingay***F376** Documentation during neonatal resuscitation: a systematic review*A Avila-Alvarez, P G Davis, C O F Kamlin, M Thio***F381** Physiological responses to facemask application in newborns immediately after birth*V D Gaertner, C M Rüegger, E O'Curraín, C O F Kamlin, S B Hooper, P G Davis, L Springer***F386** Bronchopulmonary dysplasia and postnatal growth following extremely preterm birth*T Dassios, E E Williams, A Hickey, C Bunce, A Greenough***F392** Associations between family presence and neonatal intubation outcomes: a report from the National Emergency Airway Registry for Neonates: NEAR4NEOS*B K Brei, T Sawyer, R Umoren, M M Gray, J Krick, E E Foglia, A Ades, K Class, J H Kim, N Singh, P Jung, L Johnston, A Moussa, N Napolitano, J Barry, J Zenge, B Quek, S D DeMeo, J Shults, J Unrau, V Nadkarni, A Nishisaki, On behalf of the National Emergency Airway Registry for Neonates (NEAR4NEOS) investigators***F398** Hypotension in Preterm Infants (HIP) randomised trial*E M Dempsey, K J Barrington, N Marlow, C P F O'Donnell, J Miletin, G Naulaers, P-Y Cheung, J D Corcoran, A F EL-Khuffash, G B Boylan, V Livingstone, G Pons, J Macko, D Van Laere, H Wiedermannova, Z Siraňák, On behalf of the HIP consortium***F404** Comparison of inspiratory effort with three variable-flow nasal continuous positive airway pressure devices in preterm infants: a cross-over study*A Bordessoule, A Moreira, C Felice Civitillo, C Combescure, A Polito, P C Rimensberger***F408** Absence of relationship between serum cortisol and critical illness in premature infants*I Prelipecan, J L Wynne, L Thompson, D J Burchfield, L James-Woodley, P B Chase, C P Barnes, A Bernier***F413** Outcomes of a uniformly active approach to infants born at 22–24 weeks of gestation*F Söderström, E Normann, M Jonsson, J Ågren***F418** No change in neurodevelopment at 11 years after extremely preterm birth*N Marlow, Y Ni, R Lancaster, E Suonperä, M Bernardi, A Fahy, J Larsen, J Trickett, J R Hurst, J Morris, D Wolke, S Johnson***MORE CONTENTS ►**

The content of *Fetal and Neonatal* is endorsed by the Royal College of Paediatrics and Child Health for Continued Professional Development in line with RCPCCH CPD guidelines

EDITOR'S  
CHOICE

This article has been chosen by the Editor to be of special interest or importance and is freely available online.



OPEN ACCESS

This article has been made freely available online under the BMJ Journals open access scheme. See <https://authors.bmj.com/open-access/>



C O P E

COMMITTEE ON PUBLICATION ETHICS

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

[www.publicationethics.org](http://www.publicationethics.org)



When you have finished  
with this please recycle it

- F425** Changes over time in quality of life of school-aged children born extremely preterm: 1991–2005  
*S Peart, J L Y Cheong, G Roberts, N Davis, P J Anderson, L W Doyle, for the Victorian Infant Collaborative Study Group*

---

**Short reports**

- F431** Feasibility of non-invasive cardiac output monitoring at birth using electrical bioimpedance in term infants  
*K N McCarthy, A Pavel, A A Garvey, A-L Hawke, C Levins, V Livingstone, E M Dempsey*
- F435** Bench-top comparison of thermometers used in newborn infants  
*E A Dunne, K Cunningham, C P F O'Donnell, L K McCarthy*
- F438** Randomised study of heart rate measurement in preterm newborns with ECG plus pulse oximetry versus oximetry alone  
*M C Murphy, A Jenkinson, J Coveney, L K McCarthy, C P F O'Donnell*

---


**Reviews**

- F442** Discharge planning considerations for the neonatal intensive care unit  
*V C Smith*

- F446** Management of systemic hypotension in term infants with persistent pulmonary hypertension of the newborn: an illustrated review  
*H M Siefkes, S Lakshminrusimha*

---

**PostScript**

- F456** Increase of stillbirth and decrease of late preterm infants during the COVID-19 pandemic lockdown  
 *M De Curtis, L Villani, A Polo*

---

**Images in neonatal medicine**

- F430** Unintentional longline insertion into the descending aorta in a neonate with left congenital diaphragmatic hernia  
*K L Benn, S Shetty, A M Masna, A M Kulkarni*
- F441** Whirlpool sign on ultrasound imaging in a preterm infant with suspected malrotation volvulus  
*H Watts, R Harrison, K Graham-Evans*

---

**Electronic page**

- e3** Correction: *Trends in intensive neonatal care during the COVID-19 outbreak in Japan*