



Journal of the Royal College of Paediatrics and Child Health

Editor in Chief  
R Mark Beattie

Edition Editor  
Ben Stanson

Senior Editor  
Martin Ward Platt

Deputy Editors  
Patrick Cartledge (Commissioning Editor)  
Irini Choonara (Drug Therapy)

Peter Hoyer  
Ian Wacogne (Education & Practice)  
Martin Ward Platt (FNV)

Editorial Office  
Archives of Disease in Childhood  
BMJ Publishing Group Ltd

BMA House  
Tavistock Square  
London WC1H 9JH, UK

T: +44 (0)20 7383 6909  
F: +44 (0)20 7383 6668  
E: [archdischild@bmjgroup.com](mailto:archdischild@bmjgroup.com)

ISSN: 1359-2998 (print)  
ISSN: 1468-2052 (online)

Impact factor 3.861

**Disclaimer:** ADC is published by BMJ Publishing Group Ltd (a wholly owned subsidiary of the British Medical Association) and the Royal College of Paediatrics and Child Health. The owners grant editorial freedom to the Editor of ADC. ADC follows guidelines on editorial independence produced by the World Association of Medical Editors and the code on good publication practice of the Committee on Publication Ethics.

ADC is intended for medical professionals and is provided without warranty, express or implied. Statements in the journal are the responsibility of their authors and advertisers and not authors' institutions, the BMJ Publishing Group, the Royal College of Paediatrics and Child Health or the BMA unless otherwise specified or determined by law. Acceptance of advertising does not imply endorsement.

To the fullest extent permitted by law, the BMJ Publishing Group shall not be liable for any loss, injury or damage resulting from the use of Heart or any information in it whether based on contract, tort, or otherwise. Readers are advised to verify any information they choose to rely on.

**Copyright:** © 2016 BMJ Publishing Group and Royal College of Paediatrics and Child Health. 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 prior permission.

ADC is published by BMJ Publishing Group Ltd, typeset by Nova Toronto Private Limited, Bengaluru & Chennai, India and printed in the UK on acid-free paper.

ADC (ISSN No: 0003-8988) is published monthly by BMJ Publishing Group and 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 Worldnet Shipping Inc., 156-15, 148th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

**Fantoms**

**F185** Highlights from this issue  
*M W Platt*

**Editorials**

**F186** Nurse staffing to patient ratios and mortality in neonatal intensive care  
*A C Fenton, S Turrill, C Davey*

**F188** Treating hypotension in extremely preterm infants. The pressure is mounting  
*K J Barrington, M Janaiilac*

**Leading article**

**F190** Despising the weak: long shadows of infant murder in Nazi Germany  
*M Ohlادن*

**Original articles**

**F195** The effects of a one-to-one nurse-to-patient ratio on the mortality rate in neonatal intensive care: a retrospective, longitudinal, population-based study  
*S I Watson, W Arulampalam, S Petrou, N Marlow, A S Morgan, ES Draper, N Modi, On behalf of the Neonatal Data Analysis Unit (NDAU) and the Neonatal Economic, Staffing, and Clinical Outcomes Project (NESCOPE) Group*

**F201** Early blood pressure, antihypertensive therapy and outcomes at 18–22 months' corrected age in extremely preterm infants  
*B Baton, L Li, N S Newman, A Das, K L Watterberg, B A Yoder, R G Faix, M M Laughon, B J Stoll, R D Higgins, M C Walsh, for the Eunice Kennedy Shriver National Institute of Child Health & Human Development Neonatal Research Network*

**F207** In utero exposure to valproate increases the risk of isolated cleft palate  
*A Jackson, R Bromley, J Morrow, B Irwin, J Clayton-Smith*

**F212** Neurodevelopmental outcome in very low birthweight infants with pathological umbilical artery flow  
*S Brüttsch, T Burkhardt, J Kurmanavicius, D Bassler, R Zimmermann, G Natalucci, N Ochsenbein-Köblle*

**F217** Quantitative analysis of cranial ultrasonographic periventricular echogenicity in relation to early neuromotor development in preterm infants  
*T Beller, T Peylan, L B Sira, S I Shiran, L Levi, H Bassan*

**F223** Variables associated with the decreased risk of intraventricular haemorrhage in a large sample of neonates with respiratory distress syndrome  
*H Doshi, Y Moradiva, P Roth, J Blau*

**F230** Preterm infant growth and asthma at age 8 years  
*M B Belfort, R T Cohen, L M Rhein, M C McCormick*

**F236** A propensity-matched cohort study of vancomycin-associated nephrotoxicity in neonates  
*J E Constance, A H Balch, C Stockmann, M W Linakis, E Kent Korgenski, J K Roberts, R M Ward, C M T Sherwin, M G Spigarelli*

**F244** Resuscitative interventions during simulated asystole deviate from the recommended timeline  
*S McKinsey, J M Perlman*

**F248** The effects of non-invasive respiratory support on oropharyngeal temperature and humidity: a neonatal manikin study  
*C T Roberts, R Korkeas, J A Dawson, B J Manley, L S Owen, P G Davis*

**F253** Neonatal EEG and neurodevelopmental outcome in preterm infants born before 32 weeks  
*M Périer, J-C Rozé, G Gascoin, M Hanf, B Branger, V Rouger, I Berlie, Y Monicho, Y Péréon, C Flamant, S N The Tich*



**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 RCPCH CPD guidelines



This article has been chosen by the Editor 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://adc.bmj.com/site/about/guidelines.xhtml#open>



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

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



When you have finished with this please recycle it

Receive regular table of contents by email. Register using this QR code.



---

**Global child health**

- F260** Current status of neonatal intensive care in India  
*N K Nagesh, A Razak*

---

**Reviews**

- F266** Respiratory transition in the newborn: a three-phase process  
*S B Hooper, A B te Pas, M J Kitchen*
- F272** A review of approaches to optimise chest compressions in the resuscitation of asphyxiated newborns  
*A L Solevåg, P-Y Cheung, M O'Reilly, G M Schmölzer*

---

**Images in neonatal medicine**

- F235** Omental herniation following intrauterine transfusion  
*R L Conn, S Lawson, S Craig*

- F252** Congenital intraoral Fordyce spots  
*T A Babu, V Vijayadevagan, U Carounanidy*

- F264** Dr Isaac Henry Gosset (1907–1965) inventor of the 'Gosset' icterometer and founder of Northamptonshire neonatal paediatrics  
*A N Williams, F O'Dell*

---

**PostScript**

- F277** Effect of surgical ligation of the patent ductus arteriosus on cerebral perfusion of premature infants in the postoperative period  
*A T McLaren, A M Heuchan*

---

**Hyperion**

- F278** Highlights from the literature