

# Fetal & Neonatal

Journal of the Royal College of Paediatrics and Child Health

## Editor-in-Chief

Howard Bauchner (USA)

## Commissioning Editor

Patrick Cartlidge (UK)

## Deputy Editors

John Henderson (UK)

Martin Ward Platt (UK)

## Associate Editors

Michael Bannon (UK)

R Mark Beattie (UK)

Frances Burlock (UK)

Alan Fryer (UK)

John Gregory (UK)

Georgina Hall (UK)

Tony McShane (UK)

Mike Sharland (UK)

Robert Scott-Jupp (UK)

Ann Stark (USA)

Ben Stenson (UK)

Robert Tasker (UK)

Ian Wacogne (UK)

## Statistical Editor

Tim Cole (UK)

## Statistical Advisor—Emeritus

Michael Healy (UK)

## Perspectives Editor

Ieuan Hughes (UK)

## Global Health Editor

Peter Sullivan (UK)

## Book Review Editor

Robert Scott-Jupp (UK)

## Statistical Advisors

Mario Cortina Borja (UK)

Sara Godward (UK)

Janine Gray (UK)

Deborah Ridout (UK)

Angie Wade (UK)

## International Advisory Board

B R Agarwal (India)

Z Bhutta (Pakistan)

T F Boat (USA)

T F Fok (China)

G Greisen (Denmark)

U Heininger (Switzerland)

J Kovács (Hungary)

M Mather (UK)

F Oberklaid (Australia)

R S Oruamabo (Nigeria)

A Tenore (Italy)

A Thomas (UK)

R Viner (UK)

C Verity (UK)

Y Yamashiro (Japan)

Editor, *BMJ*

## Guidelines for authors and reviewers

Full instructions are available online at: <http://adc.bmj.com/ifa>

All papers must be submitted via Bench>Press at

<http://submit-adc.bmj.com/>

## Subscription information

See inside back cover

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

## Disclaimer

*Archives of Disease in Childhood Fetal & Neonatal Edition* 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 BMA grants editorial freedom to the Editor of *ADC Fetal & Neonatal Edition*. *ADC Fetal & Neonatal Edition* 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.

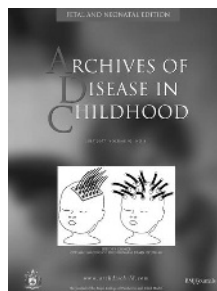
*ADC Fetal & Neonatal Edition* is intended for medical professionals and is provided without warranty, express or implied. Statements in the journal are the responsibility of their authors and advertisers and not authors' institutions, the BMJ Publishing Group Ltd, the BMA or the RCPCH unless otherwise specified or determined by law. Acceptance of advertising does not imply endorsement.

To the fullest extent permitted by law, the BMJ Publishing Group Ltd shall not be liable for any loss, injury or damage resulting from the use of *ADC Fetal & Neonatal Edition* 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

© 2007 BMJ Publishing Group Ltd & 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 the prior permission of *Archives of Disease in Childhood*.

- Authors are required to grant *Archives of Disease in Childhood* an exclusive licence to publish; further details available online at <http://adc.bmj.com/ifa/licence.dtl>
- *Archives of Disease in Childhood* is published by BMJ Publishing Group Ltd, typeset by The Charlesworth Group and printed in the UK on acid-free paper by Cambrian Printers Limited, Aberystwyth, Wales.
- Periodicals postage paid, Rahway, New Jersey, USA. Postmaster: send address changes to: *Archives of Disease in Childhood*, c/o Mercury Airfreight International Ltd, 365 Blair Road, Avenel, NJ 07001, USA.



Optimal imaging of the neonatal brain (PP 238–41)

Editor's choice articles are freely available online



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

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

## contents ADC

Fetal and Neonatal Edition

Volume 92 Number 4 July 2007

### Fantoms

235 M Ward Platt

### Leading articles

236 Optimising the provision of human milk for preterm infants *E Jones, S A Spencer*

238 Optical imaging of the neonatal brain *T Austin*

241 Prescribing home oxygen *G Harrison, B Shaw*

### Original articles

244 Conservative treatment for patent ductus arteriosus in the preterm *S Vanhaesebrouck, I Zonnenberg, P Vandervoort, E Bruneel, M-R V Hoestenbergh, C Theyskens*

248 Catheter closure of the arterial duct in preterm infants *P Roberts, S Adwani, N Archer, N Wilson*

251 Severe retinopathy of prematurity in infants <30 weeks' gestation in New South Wales and the Australian Capital Territory from 1992 to 2002 *D A Todd, A Wright, J Smith, the NICUS Group*

255 Visual development in infants with prenatal post-haemorrhagic ventricular dilatation *D Ricci, R Luciano, G Baranello, C Veredice, L Cesarini, F Bianco, M Pane, F Gallini, G Vasco, I Savarese, A A Zuppa, L Masini, C D Rocco, C Romagnoli, F Guzzetta, E Mercuri*

259 Visual and cerebral sequelae of very low birth weight in adolescents *K Hellgren, A Hellström, L Jacobson, O Flodmark, M Wadsby, L Martin*

265 Children born weighing less than 1701 g: visual and cognitive outcomes at 11–14 years *T Stephenson, S Wright, A O'Connor, A Fielder, A Johnson, S Ratib, M Tobin*

271 Epidemiology of neonatal group B streptococcal disease in the Netherlands before and after introduction of guidelines for prevention *M Trijbels-Smeulders, G A de Jonge, P C M P-de Jong, L J Gerards, A H Adriaanse, R A van Lingen, L A A Kollée*

277 Customised birthweight standards accurately predict perinatal morbidity *F Figueras, J Figueras, E Meler, E Eixarch, O Coll, E Gratacos, J Gardosi, X Carbonell*

281 Cord and placenta arterial gas analysis: the accuracy of delayed sampling *A Lynn, P Beeby*

286 Circulating levels of adiponectin in preterm infants *T Sihanidou, H Mandyla, G-P Papassotiriou, I Papassotiriou, G Chrousos*

### Short reports

291 Plasma levels of active ghrelin until 8 weeks after birth in preterm infants: relationship with anthropometric and biochemical measures

- T Shimizu, T Kitamura, N Yoshikawa, H Suganuma, K Hisata, K Tanaka, K Shinohara, Y Yamashiro*
- 293 Morphine versus remifentanyl for intubating preterm neonates *Y P e Silva, R S Gomez, J de O Marcatto, T A Maximo, R F Barbosa, A C S e Silva*
- 295 Admission temperatures following radiant warmer or incubator transport for preterm infants <28 weeks: a randomised study *M P Meyer, G T Bold*
- 298 Influence of three nasal continuous positive airway pressure devices on breathing pattern in preterm infants *H Boumeid, T Rakza, A Abazine, S Klosowski, R Matran, L Storme*
- 301 Renovascular hypertension commencing during fetal life *S Hegde, C Wright, M Shenoy, N E Maghal, M G Coulthard*
- 305 Follow-up of early unilateral nephrectomy for hypertension *S Hegde, M G Coulthard*

### Case report

- 307 Sclerema neonatorum after therapeutic whole-body hypothermia *S Navarini-Meury, J Schneider, C Bührer*

### Reviews

- 308 Genetic aspects of birth defects: new understandings of old problems *K R Prescott, A O M Wilkie*
- 315 Protein metabolism in preterm infants with particular reference to intrauterine

growth restriction *H A de Boo, J E Harding*

- 320 Are B-type natriuretic peptide (BNP) and N-terminal-pro-BNP useful in neonates? *A El-Khuffash, E J Molloy*

### Perinatal lessons from the past

- 325 Oliver Wendell Holmes (1809–1894) and his essay on puerperal fever *P M Dunn*

### PostScript

- 328 Test weighing for term and premature infants is an accurate procedure: author's reply *P L P Brand*
- 329 Book review
- 329 Corrections

### Images in neonatal medicine

- 264 Renal artery thrombosis and ischaemia presenting as severe neonatal hypertension *H S Lam, W C W Chu, C H Lee, W Wong, P C Ng*
- 304 Neonatal subcutaneous fat necrosis with characteristic rash and hypercalcaemia *K S Aucharaz, E L Baker, G C Millman, R J Ball*
- 319 Massive bacterial cell invasion and reactive type II pneumocytes in bronchoalveolar lavage fluid from a preterm neonate *J V Been, C F M Linszen, J F van Iwaarden, L J I Zimmermann*
- 324 Unusual presentation of neonatal haemophilia *A A R Hart, C M Wong, A T Gibson*

Articles carrying the



logo are available free online under the BMJ Journals unlocked scheme, see <http://adc.com/info/unlocked.dtl>