

# EDUCATION & PRACTICE

an edition of Archives of Disease in Childhood

The content of Archives of Disease in Childhood is endorsed by the Royal College of Paediatrics and Child Health for Continued Professional Development in line with RCPCH CPD guidelines



## EDITOR IN CHIEF

R Mark Beattie

## EDITION EDITOR

Ian Wacogne

## SECTION EDITORS

**Best practice:** Ian Wacogne

**Problem solving in clinical practice:** Greg Skinner, Mark Anderson

**Pharmacy update:** Sharon Conroy, Steve Tomlin

**Learning and teaching:** Debbie Murdoch-Eaton

**Dermatophile:** Peter Lio

**Guidelines:** Philippa Prentice

**Illuminations:** Helen Williams

**Interpretations:** Sam Behjati

**Picket:** Giordano Perez-Gaxiola

**Equipped:** Ian Wacogne and Bob Klaber

**Research in Practice:** Bob Phillips

*Education & Practice* is an edition of *Archives of Disease in Childhood* that aims to assist paediatricians at all levels in their training and ongoing professional development. *Education & Practice* will evolve to continue to meet the needs of paediatricians.

## Editorial Office

*Archives of Disease in Childhood*

BMJ Publishing Group Ltd

BMA House

Tavistock Square

London WC1H 9JR, UK

T: +44 (0)20 7383 6467

F: +44 (0)20 7383 6668

E: [archdischild@bmjgroup.com](mailto:archdischild@bmjgroup.com)

**Production editor:** Malcolm Smith  
[production.adc@bmj.com](mailto:production.adc@bmj.com)

**Reprints:** Commercial reprint enquiries (except USA and Canada) please contact Nadia Gurney-Randall, T: +44 (0)20 8445 5825, F: +44 (0)20 8445 5870, E: [ngurneyrandall@bmjgroup.com](mailto:ngurneyrandall@bmjgroup.com). In the USA and Canada please contact Marsha Fogler, T: +1 800 482 1450 (toll free in the USA) T: +1 856 489 4446 (outside the USA), F: +1 609 482 7414, E: [mfogler@medicalreprints.com](mailto:mfogler@medicalreprints.com)

Authors are required to grant *Archives of Disease in Childhood* an exclusive licence to publish; further details available online at <http://adc.bmj.com/site/about/guidelines.xhtml>

For further information about ADC visit <http://ep.bmj.com/site/about/>

**Disclaimer:** *Archives of Disease in Childhood Education & Practice* 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 *Education & Practice*. *Education & Practice* 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.

*Education & Practice* 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 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 Ltd shall not be liable for any loss, injury or damage resulting from the use of *Education & Practice* 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** © 2015 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

*Archives of Disease in Childhood* is published by BMJ Publishing Group Ltd, typeset by Techset and printed in the UK on acid-free paper.

*Education & Practice* (an edition of *Archives of Disease in Childhood*) is published bi-monthly by BMJ Publishing Group and distributed in the US by Air Business Ltd. Periodicals postage paid at Jamaica NY 11431 POSTMASTER: send address changes to *Education & Practice*, Air Business Ltd, c/o Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

## Contents

### Epistle

57 Highlights from this issue *I Wacogne*

### Best practice

58 Fifteen minute consultation: Managing neonatal and childhood herpes encephalitis *K Le Doare, E Menson, D Patel, M Lim, H Lyall, J Herberg*



OPEN ACCESS



EDITOR'S CHOICE

64 Fifteen-minute consultation: eczema herpeticum in a child *A Khan, L Shaw, J Bernatoniene*

### Interpretations

69 How to use central venous catheter tip cultures *N O'Flaherty, B Crowley*

75 How to use: amplitude-integrated EEG (aEEG) *N A Shah, C J Wusthoff*

### Dermatophile

82 Not only athlete's foot survives in feet *M S C Rosvailer, V O Carvalho, R Robl, M Uber, K T Abagge, L P Marinoni*

### Quality improvement

83 Clinical audit: Still an important tool for improving healthcare *J Y Paton, R Ranmal, J Dudley, on behalf of RCPCH Clinical Standards Committee*

89 Developing clinical guidelines: how much rigour is required? *M Haroon, R Ranmal, H McElroy, J Dudley, On behalf of the Royal College of Paediatrics and Child Health Clinical Standards Committee*

### Guideline review

97 Head injury: triage, assessment, investigation and early management of head injury in children, young people and adults (NICE guideline CG 176) *T Davis, A Ings*

### Pharmacy update

101 Ethanol exposure through medicines commonly used in paediatrics *N Christiansen*

105 Topical anaesthetics: What's new? *K D Young*

### Picket

111 Thalidomide improves clinical remission in children with Crohn's disease *S Harbour, N Brown*

### Dermatophile answers

112 Answers to Dermatophile questions

## Subscription Information

### Institutional rates 2015

**Print** (all ADC editions)  
£810; US\$1580; €1094

### Online

Site licences are priced on FTE basis and allow access by the whole institution. Print is available at deeply discounted rates for online subscribers; details available online at <http://group.bmj.com/subscribe/?ep> or contact the Subscription Manager in the UK (see above right)

ADC *Education & Practice* edition is published bimonthly and is available separately only to personal subscribers. Institutional customers receive all editions and supplements: *Archives of Disease in Childhood* is published monthly plus *Fetal & Neonatal Edition* bimonthly and *Education & Practice Edition* bimonthly

### Personal rates 2015

**Print** (E&P edition only, includes online access at no additional cost)  
£106; US\$207; €144

### Online only

£101; US\$164; €114

Personal print or online only and institutional print subscriptions may be purchased online at <http://group.bmj.com/subscribe/?ep> (payment by Visa/Mastercard only)

Residents of some EC countries and Canada must pay VAT; for details, call us or visit [www.bmj.com/subscriptions/vatandpaymentinfo.dtl](http://www.bmj.com/subscriptions/vatandpaymentinfo.dtl)

ISSN 1743-0585 (print); 1743-0593 (online)

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



C O P E COMMITTEE ON PUBLICATION ETHICS equator network

[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