

## Editorial Staff

Editor in Chief: Alistair G.S. Philip, *Palo Alto, CA*  
Associate Editor: Josef Neu, *Gainesville, FL*  
Assistant Editor, CME: Henry C. Lee, *Palo Alto, CA*  
Assistant Editor, Visual Diagnosis, Video Corner: JoDee Anderson, *Portland, OR*

### Editorial Board:

Dara Brodsky, *Boston, MA*  
Sergio Golombek, *Valhalla, NY*  
Joseph R. Hageman, *Evanston, IL*  
Ivan Hand, *Great Neck, NY*  
M. Gary Karlowicz, *Norfolk, VA*  
Jane McGowan, *Philadelphia, PA*  
Karen M. Puopolo, *Boston, MA*  
Renate Savich, *Albuquerque, NM*  
Karen Shattuck, *Galveston, TX*  
Michael P. Sherman, *Columbia, MO*

Founding Editor: William W. Hay Jr, *Denver, CO*

### International Advisory Board:

Claudine Amiel-Tison, *Paris, France*  
Malcolm Battin, *Auckland, New Zealand*  
Matts Blennow, *Stockholm, Sweden*  
Jose Diaz Rossello, *Montevideo, Uruguay*  
Janusz Gadzinowski, *Poznan, Poland*  
Gorm Greisen, *Copenhagen, Denmark*  
Kazushige Ikeda, *Tokyo, Japan*  
Ian Laing, *Edinburgh, Scotland*  
Frank Pohlant, *Ulm, Germany*  
Jorge César Martínez, *Buenos Aires, Argentina*  
J. Jane Pillow, *Subiaco, Western Australia*  
Siddarth Ramji, *New Delhi, India*  
Francesco Raimondi, *Naples, Italy*  
Eric Shinwell, *Jerusalem, Israel*  
Bo Sun, *Shanghai, China*  
Cleide Trindade, *Sao Paulo, Brazil*  
Maximo Vento, *Valencia, Spain*  
Andrew Whitelaw, *Bristol, United Kingdom*  
David Woods, *Cape Town, South Africa*  
Khalid Yunis, *Beirut, Lebanon*  
Tsu-Fuy Yeh, *Tai Chung, Taiwan*

### Liaison, Council on International Neonatal Nurses:

Carole Kenner, *Boston, MA*  
Liaison, National Association for Neonatal Nurses:  
Susan Reinarz, PhD, DNP, ARNP, NNP-BC, *Grand Prairie, TX*

Managing Editor: Luann Zanzola

Editorial Associate: Sara Strand

Publisher: American Academy of Pediatrics

Associate Executive Director for Education: Robert Perelman

Division of Scholarly Journals Director: Michael Held

## NeoReviews™

(ISSN 1526-9906) is owned and controlled by the American Academy of Pediatrics. It is published monthly by the American Academy of Pediatrics, 141 Northwest Point Blvd., Elk Grove Village, IL 60007-1098.

Statements and opinions expressed in *NeoReviews™* are those of the authors and not necessarily those of the American Academy of Pediatrics or its Committees. Recommendations included in this publication do not indicate an exclusive course of treatment or serve as a standard of medical care.

Subscription price for *NeoReviews™* for 2014: AAP Member \$118; AAP National Affiliate Member \$89; Nonmember \$134; Allied Health/In-training \$104; AAP Perinatal Section Member \$104. Institutions call for pricing (866-843-2271).

© AMERICAN ACADEMY OF PEDIATRICS, 2013. All rights reserved. Printed in USA. No part may be duplicated or reproduced without permission of the American Academy of Pediatrics. POSTMASTER: Send address changes to NEOREVIEWS™, American Academy of Pediatrics, 141 Northwest Point Blvd., Elk Grove Village, IL 60007-1098.

*NeoReviews™* is supported, in part, through an educational grant from Abbott Nutrition, a division of Abbott Laboratories, Inc.



## NeoReviews™ Editorial Board Disclosures

The American Academy of Pediatrics (AAP) Policy on Disclosure of Financial Relationships and Resolution of Conflicts of Interest for AAP CME Activities is designed to ensure quality, objective, balanced, and scientifically rigorous AAP CME activities by identifying and resolving all potential conflicts of interest before the confirmation of service of those in a position to influence and/or control CME content.

All individuals in a position to influence and/or control the content of AAP CME activities are required to disclose to the AAP and subsequently to learners that the individual either has no relevant financial relationships or any financial relationships with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in CME activities. Commercial interest is defined as any entity producing, marketing, reselling or distributing health-care goods or services consumed by, or used on, patients.

Each of the editorial board members, reviewers, question writers, and staff has disclosed, if applicable, that the CME content he/she edits/writes/reviews may include discussion/reference to generic pharmaceuticals, off-label pharmaceutical use, investigational therapies, brand names, and manufacturers.

None of the editors, board members, reviewers, question writers, or staff has any relevant financial relationships to disclose unless noted below. The AAP has taken steps to resolve any potential conflicts of interest.

## Disclosures

- JoDee Anderson, MD, MEd, FAAP, disclosed that she has a paid consultant relationship with SimHealth.
- Josef Neu, MD, FAAP, disclosed that he serves as a consultant to Abbott Nutrition, BioGaia, Mead Johnson, Medela, and Fonterra Foods; he receives honoraria from Nestlé and Danone; and he has research grants with Covidien and Gerber.

Answer key appears on page e617.

# contents

NeoReviews™

Vol.14 No.12 December 2013

## Articles

e588

### Ethics at the Margins of Viability

William Meadow

e592

### The Pre- and Early Postnatal Microbiome: Relevance to Subsequent Health and Disease

Josef Neu

e600

### Neonatal Lymphatic (Chylous) Disorders

Bengt-Ola S. Bengtsson

## Index of Suspicion in the Nursery

### Case 1: Persistent Respiratory Difficulty and Fever From 10 Days of Age

e613

### Case 2: Newborn With Hyperbilirubinemia

Case 1: Deepak Sharma, Srinivas Murki

Case 2: Keri A. Marques, Charles E. Mercier, Rachel Cohen, Amelia Fisher, John Lunde

e618

### Strip of the Month: December 2013

Maurice L. Druzin, Nancy Peterson

e626

### Visual Diagnosis: Ventriculomegaly and Intracranial Masses

Leah Yieh, Jamie B. Warren

*NeoReviews* offers 24 CME articles per year. A maximum of one *AMA PRA Category 1 Credit™* is earned after achieving a 60% score on each designated quiz.

### CME statements:

The American Academy of Pediatrics (AAP) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The AAP designates this journal-based CME activity for a maximum of 1.00 *AMA PRA Category 1 Credit™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This activity is acceptable for a maximum of 1.00 AAP credit. These credits can be applied toward the AAP CME/CPD\* Award available to Fellows and Candidate Members of the AAP.

The American Academy of Physician Assistants accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credits™* from organizations accredited by ACCME. Physician assistants may claim a maximum of 1.00 hour of Category 1 Credit for completing this program.

This program is accredited for 1.00 NAPNAP CE contact hour; pharmacology (Rx) and psychopharmacology contact hours to be determined per the National Association of Pediatric Nurse Practitioners (NAPNP) Continuing Education Guidelines.

It has been established that each CME activity will take the learner approximately 1 hour to complete.

\*Continuing Professional Development

### How to complete this activity

*NeoReviews* can be accessed and reviewed in print or online at <http://neoreviews.aappublications.org>. Learners can claim credit monthly online upon completion of each CME article. The deadline for completing this activity is December 31, 2015. Credit will be determined per the National Association of Pediatric Nurse Practitioners (NAPNP) Continuing Education Guidelines. This activity is not considered to have been completed until the learner documents participation in that activity to the provider via online submission of answers. Course evaluations are online.

**Updated Information & Services**

including high resolution figures, can be found at:  
<http://neoreviews.aapublications.org/content/14/12.citation>

**Permissions & Licensing**

Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at:  
<https://shop.aap.org/licensing-permissions/>

**Reprints**

Information about ordering reprints can be found online:  
<http://classic.neoreviews.aapublications.org/content/reprints>



**14 (12)**  
*NeoReviews* 2013;14:e613

The online version of this article, along with updated information and services, is located on the World Wide Web at:  
<http://neoreviews.aappublications.org/content/14/12.citation>

Neoreviews is the official journal of the American Academy of Pediatrics. A monthly publication, it has been published continuously since 2000. Neoreviews is owned, published, and trademarked by the American Academy of Pediatrics, 141 Northwest Point Boulevard, Elk Grove Village, Illinois, 60007. Copyright © 2013 by the American Academy of Pediatrics. All rights reserved. Online ISSN: 1526-9906.

**American Academy of Pediatrics**

DEDICATED TO THE HEALTH OF ALL CHILDREN<sup>®</sup>

