

	ARTICLES
361	Acid-Base Disorders Benson S. Hsu, Saquib A. Lakhani, Michael Wilhelm
370	Evaluation and Initial Management of Hypopituitarism Melinda Pierce, Lisa Madison
377	Chronic and Recurrent Abdominal Pain Paul E. Hyman
	INDEX OF SUSPICION
391	Case 1: Constipation, Irritability, and Poor Feeding in 2-month-old Boy Nidhi A. Shah, Henry C. Lee
394	Case 2: Acute Respiratory Distress and Facial Petechiae in a 4-month-old Boy Alpa Patel Shah, Mary Lu Angelilli
397	Case 3: Sore Throat and Fever in a 4-year-old Boy Katsuaki Kojima, Melissa Rosenberg, B. Keith English
399	Case 4: Two Black Eschars in a 6-year-old Girl Zachary Graff, Geronimo Mendoza, Apurv Barche, Curtis Turner
	IN BRIEF
402	Pulse Oximetry and the Neonate Philip Roth
405	CME Quiz Corrections
	ONLINE
e38	Visual Diagnosis: Spoon Nails and Short, Brittle Hair in a 3-year-old Boy Eric P. Sorensen, Wynniss L. Tom

Editor-in-Chief: Joseph A. Zenil, *Sioux Falls, SD*
Deputy Editor: Hugh D. Allen, *Houston, TX*
Associate Editor, Index of Suspicion: Philip R. Fischer, *Rochester, MN*
Associate Editor, Index of Suspicion: Deepak M. Kamat, *Detroit, MI*
Associate Editor, Visual Diagnosis: Mark F. Weems, *Memphis, TN*
Associate Editor, In Brief: Henry M. Adam, *Bronx, NY*
Associate Editor, In Brief: Janet Serwint, *Baltimore, MD*
Associate Editor, CME: Rani Gereige, *Miami, FL*
Editorial Fellow: Amir Jeewa, *Houston, TX*
Early Career Physician: Heather Campbell, *Washington, DC*
Editor Emeritus: Lawrence F. Nazarian, *Rochester, NY*
Founding Editor: Robert J. Haggerty, *Canandaigua, NY*
Managing Editor: Luann Zanzola
Publications Editor: Sara Strand
Medical Copyediting: Deborah K. Kuhlman

EDITORIAL BOARD

Robert D. Baker, *Buffalo, NY*
 Peter F. Belamarich, *Bronx, NY*
 Eyal Ben-Isaac, *Los Angeles, CA*
 Theresa Auld Bingemann, *Rochester, NY*
 Stephen E. Dolgin, *New Hyde Park, NY*
 Lynn Garfunkel, *Rochester, NY*
 Rani Gereige, *Miami, FL*
 Nupur Gupta, *Boston, MA*
 Gregory A. Hale, *St. Petersburg, FL*
 Thomas C. Havranek, *Bronx, NY*
 Jacob Hen, *Bridgeport, CT*
 Jeffrey D. Hord, *Akron, OH*
 Neal S. LeLeiko, *Providence, RI*
 Michael Macknin, *Cleveland, OH*
 Susan Massengill, *Charlotte, NC*
 Carrie A. Phillipi, *Portland, OR*
 Peter Pizzutillo, *Philadelphia, PA*
 Mobeen Rathore, *Jacksonville, FL*
 Jennifer S. Read, *Rockville, MD*
 E. Steve Roach, *Columbus, OH*
 Sarah E. Shea, *Halifax, Nova Scotia*
 Andrew Sirotnak, *Denver, CO*
 Miriam Weinstein, *Toronto, ON*

PUBLISHER: American Academy of Pediatrics
 Mark Grimes, Director, Department of Publishing
 Joseph Puskarz, Director, Division of Journal Publishing

Pediatrics in Review offers 36 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 credited for AMA PRA Category 1 Credit™ from organizations accredited by ACCME. Physician assistants may receive 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:

Pediatrics in Review can be accessed and reviewed in print or online at <http://pedsinreview.aappublications.org>. Learners can claim credit monthly online upon completion of each CME article. The deadline for completing this activity is December 31, 2018. Credit will be recorded in the year in which it is submitted. It is estimated that it will take approximately 1 hour to complete each CME article. 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.

Answer Key appears on page 405.

Pediatrics in Review® (ISSN 0191-9601) 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 *Pediatrics in Review*® 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 2016 for print and online/online only: AAP/CPS Member \$204/\$156; AAP National Affiliate Member \$160/\$110; Nonmember \$255/\$198; Allied Health or In-training \$190/\$128. Institutions call for pricing (866-843-2271). For overseas delivery, add \$120. Current single issue price is \$10 domestic, \$12 international. Replacement issues must be claimed within 6 months from the date of issue and are limited to three per calendar year. Periodicals postage paid at ARLINGTON HEIGHTS, ILLINOIS and at additional mailing offices.

© AMERICAN ACADEMY OF PEDIATRICS, 2016.

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 PEDIATRICS IN REVIEW®, American Academy of Pediatrics Customer Service Center, 141 Northwest Point Blvd., Elk Grove Village, IL 60007-1098.

Pediatrics in Review® Print Issue 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, PREP Coordinating Committee members 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, PREP Coordinating Committee members, 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

- Robert Baker, MD, PhD, disclosed he has an author relationship with AstraZeneca.
- Lynn Garfunkel, MD, FAAP, disclosed that her family member is an employee of Philips Healthcare.
- Nupur Gupta, MD, MPH, disclosed she has a financial relationship with Springer US as co-editor for MassGeneral Hospital for Children Handbook of Pediatric Global Health.
- Gregory A. Hale, MD, disclosed that he is on the board of directors of Make A Wish, Suncoast Chapter, and the Sickle Cell Disease Association of America, North Pinellas Chapter, and that he has research grants with Hyundai Hope on Wheels and with the V Foundation for Cancer Research.
- Miriam Weinstein, MD, has disclosed she is on the advisory board of Tribute Pharmaceuticals; on the advisory board and has a consensus meeting/author relationship with Pierre Fabre; is a paid consultant and advisory board member for Johnson & Johnson and Valeant; on the advisory board of Valeo Pharma Inc.; is a paid consultant, advisory board member, and receives honoraria and grants from LaRoche-Posay; and receives honoraria for lectures from Galderma and PEDIAPHARM.

The journal extends special thanks to the following question writers and reviewers who contributed to this issue:

- Amika Adhikari, MD
- James Wilde, MD
- Catherine Wiley, MD
- H. Stephen Williams, MD

Updated Information & Services

including high resolution figures, can be found at:
<http://pedsinreview.aappublications.org/content/37/9>

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.pedsinreview.aappublications.org/content/reprints>

Pediatrics in Review®

AN OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS



37 (9)

Pediatrics in Review 2016;37:e38

The online version of this article, along with updated information and services, is located on the World Wide Web at:

<http://pedsinreview.aappublications.org/content/37/9>

Pediatrics in Review is the official journal of the American Academy of Pediatrics. A monthly publication, it has been published continuously since 1979. Pediatrics in Review is owned, published, and trademarked by the American Academy of Pediatrics, 345 Park Avenue, Itasca, Illinois, 60143. Copyright © 2016 by the American Academy of Pediatrics. All rights reserved. Print ISSN: 0191-9601.

American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN®

