



To learn how to claim MOC points, go to: <http://www.aappublications.org/content/moc-credit>.

- ARTICLES**
- 157 Cough**  
Ajay S. Kasi, Rory J. Kamerman-Kretzmer
- 168 Tuberculosis in Children**  
Peter J. Holmberg, Zelalem Temesgen, Ritu Banerjee
- 179 Nontuberculous Mycobacterial Infections in Children**  
Jyotsna Bhattacharya, Sindhu Mohandas, David L. Goldman
- INDEX OF SUSPICION**
- 191 Case 1: Intermittent Fevers, Persistent Vomiting, and Lethargy in a 3-year-old Boy**  
Archana Balamohan, Lorry G. Rubin, Peter Assaad, Stefan H.F. Hagmann
- 194 Case 2: Lethargy and Ataxia in a 3-year-old Girl**  
Patrick Gavigan, Nicholas D. Hysmith, Bindiya Bagga
- 197 Case 3: Two Preschoolers with Fever**  
Shraddha Mittal, Lauren Marlowe, Dustin Elliott, Deana Gifford, Kristen Ritenour, Howard Topol
- 202 Case 4: Chronic Dysphagia and Weight Loss in a 3-year-old Boy**  
Sarah Mancone, Neelima Tummala, Thomas Pranikoff, Drew P. Plonk
- IN BRIEFS**
- 205 Water Safety**  
Emma A. Omoruyi
- 207 Hyperinsulinism**  
Dominique Long, Yasmin Akhtar
- ONLINE**
- e14 Visual Diagnosis: Annular Lesions in a 3-month-old Girl**  
Joseph S. Tadros, Yang Yu, Anne W. Lucky

*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, 345 Park Blvd., Itasca, IL 60143.

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 2019 for print and online/online only: AAP/CPS Member \$220/\$168; AAP National Affiliate Member \$165/\$115; Nonmember \$275/\$215; AAP In-training Member \$165/\$115; Nonmember In-training/Allied Health \$195/\$135. Institutions call for pricing (866-843-2271). For overseas delivery, add \$120. Current single issue price is \$22 domestic, \$25 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, 2019. 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, 345 Park Blvd., Itasca, IL 60143.

**Answer Key appears on page 201.**

# Pediatrics in Review®

**Editor-in-Chief:** Joseph A. Zenel, *Sioux Falls, SD*

**Deputy Editor:** Hugh D. Allen, *Houston, TX*

**Associate Editor, Index of Suspicion:** Philip R. Fischer, *Rochester, MN*

**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 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*

Linda Y. Fu, *Washington, DC*

Lynn Garfunkel, *Rochester, NY*

Nupur Gupta, *Boston, MA*

Gregory A. Hale, *St. Petersburg, FL*

Thomas C. Havranek, *Bronx, NY*

Jacob Hen Jr., *Trumbull, CT*

Jeffrey D. Hord, *Akron, OH*

Aamir Jeewa, *Toronto, ON*

**Assistant Editor, Index of Suspicion; Early Career Physician:**

Heather Campbell, *Washington, DC*

**Editorial Fellow:** Catherine Forster, *Washington, DC*

**Managing Editor:** Sara Weissenborn

**Medical Copyediting:** Lisa Cluver

Neal S. LeLeiko, *Providence, RI*

Michael Macknin, *Cleveland, OH*

Susan Massengill, *Charlotte, NC*

Elaine M. Pereira, *New York, NY*

Peter Pizzuttillo, *Philadelphia, PA*

Mobeen Rathore, *Jacksonville, FL*

Jennifer S. Read, *Rockville, MD*

E. Steve Roach, *Austin, TX*

Sarah E. Shea, *Halifax, Nova Scotia*

Andrew Sirotnak, *Denver, CO*

Miriam Weinstein, *Toronto, ON*

Shabana Yusuf, *Houston, TX*

**PUBLISHER:** American Academy of Pediatrics

Mary Lou White, Chief Product Officer/Senior Vice President, Membership, Marketing and Publishing

Mark Grimes, Vice President, Publishing

Joseph Puskarz, Director, Journal Publishing

## 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

- Nupur Gupta, MD, disclosed that she receives royalties from Springer as co-editor of the MassGeneral Hospital for Children Handbook of Pediatric Global Health and that her spouse has a stocks/bonds relationship with Amrin.
- Neal LeLeiko, MD, PHD, disclosed he owns stocks/bonds in Celgene Corp. and serves as a paid consultant to AbbVie Inc. as a member of the data monitoring board of an investigational drug potentially of use in inflammatory bowel disease.
- Mobeen Rathore, MD, CPE, disclosed that is a member of the advisory boards for Squire and GSK and is a consultant for Viiv Healthcare.
- E. Steve Roach, MD, disclosed he receives an honorarium from Elsevier for serving as editor of *Pediatric Neurology*.
- Miriam Weinstein, MD, disclosed the following paid consultant relationships: Paladin Labs, for participating in a product review; RX Briefcase, for consulting on a pharmacist training program on managing eczema; Johnson and Johnson, for participating in the advisory board; and Pfizer, Inc. for participating in the advisory board for an eczema product.

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

–Beatriz Cunill-de Sautu, MD      –Elizabeth Ristagno, MD, MS

–Melissa Held, MD                      –Robert Wittler, MD

–Peter Holmberg, MD

*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. 2019 *Pediatrics in Review* is approved for a total of 30 Maintenance of Certification (MOC) Part 2 credits by the American Board of Pediatrics through the AAP MOC Portfolio Program.

## 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 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 (NAPNAP) 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.aapublications.org>. Learners can claim credit monthly online upon completion of each CME article. The deadline for completing this activity is December 31, 2021. 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.

## MOC STATEMENT:

This activity is approved for 30.00 points of MOC Part 2 credit by the American Board of Pediatrics. All approved activities must be completed by the MOC Credit Approval End Date. All deadlines and MOC point values should be confirmed by checking the ABP Activity Catalog within each physician's ABP Portfolio. Learners must complete a minimum of 30 quizzes from the 2019 *Pediatrics in Review* CME Portfolio by the end of January 15, 2021.

**Updated Information & Services**

including high resolution figures, can be found at:  
<http://pedsinreview.aappublications.org/content/40/4>

**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>



40 (4)

*Pediatrics in Review* 2019;40:e14

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/40/4>

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 © 2019 by the American Academy of Pediatrics. All rights reserved. Print ISSN: 0191-9601.

## American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN®

