

# PEDIATRICS®

SEPTEMBER 2014 • VOLUME 134 • NUMBER 3

## icon legend

Most of the articles in *PEDIATRICS* have more content available online at [www.pediatrics.org](http://www.pediatrics.org).



= supplement



= data file/supplementary information available online



= podcast available online



= video available online



= free access online



= funded by NIH

## contents

**General Information** A22

**Classified Advertisements & Announcements** A29–A55

**For Author Guidelines please visit**  
[www.pediatrics.org](http://www.pediatrics.org)

**For a Thank You to Our Reviewers please visit**  
<http://pediatrics.aappublications.org/content/133/3/e800.full>

### PEDIATRICS PERSPECTIVES

**Reasonable Break Time for Nursing Mothers: A Provision Enacted Through the Affordable Care Act** 423  
*Tonse N. K. Raju*

*e-Pediatrics* Perspectives—[www.pediatrics.org](http://www.pediatrics.org)

**Pediatric Neurology Referrals in Armenia: Lessons We Can Learn** 607  
*Peter M. Bingham, Biayna Sukhudyana, Artsruni Hakobyan*

### MONTHLY FEATURE

**Children in Hospitals Before There Were Children's Hospitals** 425  
*Andrew N. Williams, Raman M. Sharma*

### ARTICLES

  **Pre- and Postnatal Exposure to Parental Smoking and Allergic Disease Through Adolescence** 428  
*Jesse D. Thacher, Olena Gruzdeva, Göran Pershagen, Åsa Neuman, Magnus Wickman, Inger Kull, Erik Melén, Anna Bergström*

**Cerebral Oxygenation in Preterm Infants** 435  
*Karinna L. Fyfe, Stephanie R. Yiallourou, Flora Y. Wong, Alexandria Odoi, Adrian M. Walker, Rosemary S. C. Horne*

American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN™



## contents

### ARTICLES (continued)

- Health Care Provider Advice for Adolescent Tobacco Use: Results From the 2011 National Youth Tobacco Survey** 446  
*Gillian L. Schauer, Israel T. Agaku, Brian A. King, Ann M. Malarcher*
- FREE** **Impact of a Pertussis Epidemic on Infant Vaccination in Washington State** 456  
*Elizabeth R. Wolf, Douglas Opel, M. Patricia DeHart, Jodi Warren, Ali Rowhani-Rahbar*
- NIH** **Hydroxyurea and Growth in Young Children With Sickle Cell Disease** 465  
*Sohail Rana, Patricia E. Houston, Winfred C. Wang, Rathi V. Iyer, Jonathan Goldsmith, James F. Casella, Caroline K. Reed, Zora R. Rogers, Myron A. Waclawiw, Bruce Thompson, for the BABY HUG Investigators*
- FREE** **Teacher and Peer Reports of Overweight and Bullying Among Young Primary School Children** 473  
*Pauline W. Jansen, Marina Verlinden, Anke Dommissie-van Berkel, Cathelijne L. Mieloo, Hein Raat, Albert Hofman, Vincent W. V. Jaddoe, Frank C. Verhulst, Wilma Jansen, Henning Tiemeier*
- Generational Shift in Parental Perceptions of Overweight Among School-Aged Children** 481  
*Andrew R. Hansen, Dustin T. Duncan, Yelena N. Tarasenko, Fei Yan, Jian Zhang*
- FREE** **Impact Locations and Concussion Outcomes in High School Football Player-to-Player Collisions** 489  
*Zachary Y. Kerr, Christy L. Collins, Jason P. Mihalik, Stephen W. Marshall, Kevin M. Guskiewicz, R. Dawn Comstock*
- Neonatal Vitamin K Refusal and Nonimmunization** 497  
*Vanita Sahni, Florence Y. Lai, Shannon E. MacDonald*
- Incidence, Etiology, and Outcomes of Hazardous Hyperbilirubinemia in Newborns** 504  
*Michael W. Kuzniewicz, Andrea C. Wickremasinghe, Yvonne W. Wu, Charles E. McCulloch, Eileen M. Walsh, Soora Wi, Thomas B. Newman*
- Extreme Neonatal Hyperbilirubinemia and a Specific Genotype: A Population-Based Case-Control Study** 510  
*Jesper Padkær Petersen, Tine Brink Henriksen, Mads Vilhelm Hollegaard, Pernille Kure Vandborg, David Michael Hougaard, Ole Thorlacius-Ussing, Finn Ebbesen*
- Defining and Determining Medical Necessity in Medicaid Managed Care** 516  
*Anne Rossier Markus, Kristina D. West*
- Automated Urinalysis and Urine Dipstick in the Emergency Evaluation of Young Febrile Children** 523  
*John T. Kanegaye, Jennifer M. Jacob, Denise Malicki*
- NIH** **Changing Trends of Childhood Disability, 2001–2011** 530  
*Amy J. Houtrow, Kandyce Larson, Lynn M. Olson, Paul W. Newacheck, Neal Halfon*
- NIH** **Variation in Emergency Department Admission Rates in US Children's Hospitals** 539  
*Florence T. Bourgeois, Michael C. Monuteaux, Anne M. Stack, Mark I. Neuman*



## contents


### ARTICLES (continued)

-  **Hospitalizations for Severe Lower Respiratory Tract Infections** 546  
*Adena H. Greenbaum, Jufu Chen, Carrie Reed, Suzanne Beavers, David Callahan, Deborah Christensen, Lyn Finelli, Alicia M. Fry*
- Establishing Benchmarks for the Hospitalized Care of Children With Asthma, Bronchiolitis, and Pneumonia** 555  
*Kavita Parikh, Matt Hall, Vineeta Mittal, Amanda Montalbano, Grant M. Mussman, Rustin B. Morse, Paul Hain, Karen M. Wilson, Samir S. Shah*
-   **Small Geographic Area Variations in Prescription Drug Use** 563  
*Shelsey J. Weinstein, Samantha A. House, Chiang-Hua Chang, Jared R. Wasserman, David C. Goodman, Nancy E. Morden*

### REVIEW ARTICLE

-  **Effectiveness of Quality Improvement in Hospitalization for Bronchiolitis: A Systematic Review** 571  
*Shawn Ralston, Allison Comick, Elizabeth Nichols, Devin Parker, Patricia Lanter*

### STATE-OF-THE-ART REVIEW ARTICLES

- Eating Disorders in Children and Adolescents: State of the Art Review** 582  
*Kenisha Campbell, Rebecka Peebles*
- e-State-of-the-Art Review Article—[www.pediatrics.org](http://www.pediatrics.org)
-  **Autosomal Recessive Polycystic Kidney Disease: A Hepatorenal Fibrocystic Disorder With Pleiotropic Effects** 617  
*Erum A. Hartung, Lisa M. Guay-Woodford*

### ETHICS ROUNDS

- Mechanical Ventilation for a Child With Quadriplegia** 593  
*William E. Novotny, Ronald M. Perkin, Debjani Mukherjee, John D. Lantos*

### COMMENTARIES

- Cerebral Tissue Oxygenation Index and SIDS** 598  
*Avihu Z. Gazit, James S. Kemp*
- Delivering Tobacco Control Interventions in Adolescent Health Care Visits: Time for Action** 600  
*Jonathan D. Klein*
- Pertussis Resurgence and Vaccine Uptake: Implications for Reducing Vaccine Hesitancy** 602  
*Jessica E. Atwell, Daniel A. Salmon*



## contents

### COMMENTARIES (continued)

- Evidence-based Standardization and ED Admission Rate Variation in US Children's Hospitals** Jesse M. Pines 605

e-Commentary—[www.pediatrics.org](http://www.pediatrics.org)

- Let's Call It As It Is: On Results, Reach, and Resolution in Population-Based Obesity Trials** Melissa Wake, Kate Lycett 618

### ONLINE ARTICLES—[www.pediatrics.org](http://www.pediatrics.org)

- FREE** **Neuroinvasive Arboviral Disease in the United States: 2003 to 2012** James T. Gaensbauer, Nicole P. Lindsey, Kevin Messacar, J. Erin Staples, Marc Fischer 607

- U** **Herpes PCR Testing and Empiric Acyclovir Use Beyond the Neonatal Period** James T. Gaensbauer, Meghan Birkholz, Kari Pfannenstein, James K. Todd 607

- U** **Long-term Study of a Quadrivalent Human Papillomavirus Vaccine** Daron Ferris, Rudiwilai Samakoses, Stan L. Block, Eduardo Lazcano-Ponce, Jaime Alberto Restrepo, Keith S. Reisinger, Jesper Mehlsen, Archana Chatterjee, Ole-Erik Iversen, Heather L. Sings, Qiong Shou, Timothy A. Sausser, Alfred Saah 608

- FREE** **Missed Opportunities for HPV Vaccination in Adolescent Girls: A Qualitative Study** Rebecca B. Perkins, Jack A. Clark, Gauri Apte, Jessica L. Vercrusse, Justen J. Sumner, Constance L. Wall-Haas, Anna W. Rosenquist, Natalie Pierre-Joseph 608

- NIH** **Vaccine Message Framing and Parents' Intent to Immunize Their Infants for MMR** Kristin S. Hendrix, S. Maria E. Finnell, Gregory D. Zimet, Lynne A. Sturm, Kathleen A. Lane, Stephen M. Downs 609

- FREE** **Severe Complications in Influenza-like Illnesses** Rakesh D. Mistry, Jason B. Fischer, Priya A. Prasad, Susan E. Coffin, Elizabeth R. Alpern 609

- Automated Conversation System Before Pediatric Primary Care Visits: A Randomized Trial** William G. Adams, Barrett D. Phillips, Janine D. Bacic, Kathleen E. Walsh, Christopher W. Shanahan, Michael K. Paasche-Orlow 610

- NIH** **Telephone Peer Counseling of Breastfeeding Among WIC Participants: A Randomized Controlled Trial** Julie A. Reeder, Ted Joyce, Kelly Sibley, Diane Arnold, Onur Altindag 610

## contents

### ONLINE ARTICLES—www.pediatrics.org (continued)

- Changes Over Time in Sex Assignment for Disorders of Sex Development** 610  
*Zofia Kolesinska, S. Faisal Ahmed, Marek Niedziela, Jillian Bryce, Marta Molinska-Glura, Martina Rodie, Jipu Jiang, Richard O. Sinnott, Ieuan A. Hughes, Feyza Darendeliler, Olaf Hiort, Yvonne van der Zwan, Martine Cools, Tulay Guran, Paul-Martin Holterhus, Silvano Bertelloni, Lidka Lisa, Wiebke Arlt, Nils Krone, Mona Ellaihi, Antonio Balsamo, Inas Mazen, Anna Nordenstrom, Katherine Lachlan, Mona Alkhawari, Pierre Chatelain, Naomi Weintrob*
- FREE Electronic Gaming and Psychosocial Adjustment** 611  
*Andrew K. Przybylski*
- Smart-Phone Obesity Prevention Trial for Adolescent Boys in Low-Income Communities: The ATLAS RCT** 612  
*Jordan J. Smith, Philip J. Morgan, Ronald C. Plotnikoff, Kerry A. Dally, Jo Salmon, Anthony D. Okely, Tara L. Finn, David R. Lubans*
- NIH Adoption of Cardiovascular Risk Reduction Guidelines: A Cluster-Randomized Trial** 612  
*Kenneth A. LaBresh, Adolfo J. Ariza, Suzanne Lazorick, Robert D. Furberg, Lauren Whetstone, Connie Hobbs, Janet de Jesus, Ilse G. Salinas, Randall H. Bender, Helen J. Binns*
- U High-dose Vitamin A With Vaccination After 6 Months of Age: A Randomized Trial** 613  
*Ane B. Fisker, Carlito Bale, Amabelia Rodrigues, Ibraima Balde, Manuel Fernandes, Mathias J. Jørgensen, Niels Danneskiold-Samsøe, Linda Hornshøj, Julie Rasmussen, Emil D. Christensen, Bo M. Bibby, Peter Aaby, Christine S. Benn*
- Cognitive Delay and Behavior Problems Prior to School Age** 613  
*Erika Rose Cheng, Mari Palta, Milton Kotelchuck, Julie Poehlmann, Whitney P. Witt*
- FREE Restrictive Eating Disorders Among Adolescent Inpatients** 613  
*Melissa Whitelaw, Heather Gilbertson, Katherine J. Lee, Susan M. Sawyer*
- U Characteristics of a Pediatric Hospice Palliative Care Program Over 15 Years** 614  
*Harold Siden, Negar Chavoshi, Barbara Harvey, Alyson Parker, Tanice Miller*
- Subdural Hemorrhage and Hypoxia in Infants With Congenital Heart Disease** 614  
*Patrick Kelly, Rebecca Hayman, Lara S. Shekerdemian, Peter Reed, Ayton Hope, Julia Gunn, Lee Coleman, John Beca*
- U Strength and Body Weight in US Children and Adolescents** 615  
*R. Bethene Ervin, Cheryl D. Fryar, Chia-Yih Wang, Ivey M. Miller, Cynthia L. Ogden*
- In Situ Simulation Training for Neonatal Resuscitation: An RCT** 615  
*Sophie Rubio-Gurung, Guy Putet, Sandrine Touzet, Hélène Gauthier-Moulinier, Isabelle Jordan, Anne Beissel, Jean-Marc Labaune, Sébastien Blanc, Nassira Amamra, Catherine Balandras, René-Charles Rudigoz, Cyrille Colin, Jean-Charles Picaud*



## contents



### ONLINE ARTICLES—[www.pediatrics.org](http://www.pediatrics.org) (continued)

- An Innovative Nonanimal Simulation Trainer for Chest Tube Insertion in Neonates** 616  
*Ashish O. Gupta, Jayashree Ramasethu*
- Mode of Obstetrical Delivery and Type 1 Diabetes: A Sibling Design Study** 616  
*Ali S. Khashan, Louise C. Kenny, Cecilia Lundholm, Patricia M. Kearney, Tong Gong, Catarina Almqvist*
- Mild Prematurity, Proximal Social Processes, and Development** 617  
*Hilary K. Brown, Kathy Nixon Speechley, Jennifer Macnab, Renato Natale, M. Karen Campbell*
-  **Identifying Very Preterm Children at Educational Risk Using a School Readiness Framework** 617  
*Verena E. Pritchard, Samudragupta Bora, Nicola C. Austin, Karelia J. Levin, Lianne J. Woodward*

### QUALITY REPORTS—[www.pediatrics.org](http://www.pediatrics.org)

-  **Improving Care for Pediatric Diabetic Ketoacidosis** 618  
*Ildiko H. Koves, Michael G. Leu, Suzanne Spencer, Jean C. Popalisky, Kate Drummond, Elaine Beardsley, Kristi Klee, Jerry J. Zimmerman, on behalf of the Diabetic Ketoacidosis Guideline Development Workgroup*
-  **Reducing Catheter-Associated Urinary Tract Infections: A Quality-Improvement Initiative** 619  
*Katherine Finn Davis, Ann M. Colebaugh, Benjamin L. Eithun, Sarah B. Klieger, Dennis J. Meredith, Natalie Plachter, Julia Shaklee Sammons, Allison Thompson, Susan E. Coffin*

### CASE REPORTS—[www.pediatrics.org](http://www.pediatrics.org)

- Retrieval of Endobronchial Foreign Bodies in Children: Involving the Cardiac Catheterization Lab** 619  
*Nikhil M. Thatte, Lokesh Guglani, Daniel R. Turner, Thomas J. Forbes, Srinath T. Gowda*
-   **Pharmacokinetics of Fluoride in Toddlers After Application of 5% Sodium Fluoride Dental Varnish** 620  
*Peter Milgrom, Donald M. Taves, Amy S. Kim, Gene E. Watson, Jeremy A. Horst*
- HIV Transmission Through Breastfeeding: Still Possible in Developed Countries** 620  
*Sophie Blumental, Alina Ferster, Sigi Van den Wijngaert, Philippe Lepage*
- Pneumatosis Intestinalis Associated With Henoch-Schönlein Purpura** 620  
*Ayesha Fatima, Donald Paul Gibson*
- Tachypnea of Infancy as the First Sign of Sanfilippo Syndrome** 621  
*Jackie Chiang, Julian Raiman, Ernest Cutz, Melinda Solomon, Sharon Dell*



# PEDIATRICS®

SEPTEMBER 2014 • VOLUME 134 • NUMBER 3

## contents

### CASE REPORTS—[www.pediatrics.org](http://www.pediatrics.org) (continued)

- Subdural Hemorrhages Associated With Antithrombotic Therapy in Infants With Cerebral Atrophy** *Louis T. Dang, Jordan A. Shavit, Rani K. Singh, Sucheta M. Joshi, Steven M. Leber, John D.E. Barks, Renée A. Shellhaas* 621
- VAD as Bridge to Recovery in Anthracycline-Induced Cardiomyopathy and HHV6 Myocarditis** *Anna Cavigelli-Brunner, Martin Schweiger, Walter Knirsch, Brian Stiasny, Karin Klingel, Oliver Kretschmar, Michael Hübler* 621
- NIH Progressive Paranoid Psychosis in a 20-Year-Old With Central Congenital Hypoventilation Syndrome** *Alex Dranovsky, Joshua P. Needleman, Jessica Sylvester, Ronald VanHeertum, Philip R. Muskin* 621

### e-Letters—[www.pediatrics.org](http://www.pediatrics.org)

eLetters appear on page 623 and online at [www.pediatrics.org](http://www.pediatrics.org)

### FROM THE AMERICAN ACADEMY OF PEDIATRICS

- FREE Clinical Report**  
**Fluoride Use in Caries Prevention in the Primary Care Setting** *Melinda B. Clark, Rebecca L. Slayton, and Section on Oral Health* 626
- FREE Policy Statement**  
**The Pediatrician's Role in the Evaluation and Preparation of Pediatric Patients Undergoing Anesthesia** *Section on Anesthesiology and Pain Medicine* 634
- FREE Policy Statement**  
**School Start Times for Adolescents** *Adolescent Sleep Working Group, Committee on Adolescence, and Council on School Health* 642

### e-Policy Pages—[www.pediatrics.org](http://www.pediatrics.org)

- FREE Clinical Report**  
**Comprehensive Evaluation of the Child With Intellectual Disability or Global Developmental Delays** *John B. Moeschler, Michael Shevell, and Committee on Genetics* 650
- FREE Policy Statement**  
**Equipment for Ground Ambulances** *American Academy of Pediatrics, American College of Emergency Physicians, American College of Surgeons Committee on Trauma, Emergency Medical Services for Children, Emergency Nurses Association, National Association of EMS Physicians, and National Association of State EMS Officials* 650

American Academy of Pediatrics  
DEDICATED TO THE HEALTH OF ALL CHILDREN™



# PEDIATRICS®


SEPTEMBER 2014 • VOLUME 134 • NUMBER 3

## contents

FROM THE AMERICAN ACADEMY OF PEDIATRICS *(continued)*

- FREE** **Policy Statement**  
**AAP Publications Reaffirmed or Retired** 650
- FREE** **Technical Report**  
**Insufficient Sleep in Adolescents and Young Adults: An Update on Causes and Consequences** 650  
*Judith Owens, Adolescent Sleep Working Group, and Committee on Adolescence*

SUPPLEMENT—[www.pediatrics.org](http://www.pediatrics.org)

-  **Infant Feeding and Long-term Outcomes: Results From the Year Six Follow-up of Children in the Infant Feeding Practices Study II** S1  
*Ruowei Li, Kelley S. Scanlon, Cria G. Perrine, Laurence M. Grummer-Strawn, Supplement Editors*

American Academy of Pediatrics  
DEDICATED TO THE HEALTH OF ALL CHILDREN™

