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ARTICLES



Early Acid Suppression Therapy Exposure and Fracture in Young Children

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• PPI use in infancy, alone or with H₂RAs, is associated with fracture after 1 year of age.

Laura Malchodi, Kari Wagner, Apryl Susi, Gregory Gorman, Elizabeth Hisle-Gorman





(I) 🗀 👊 Acellular Pertussis Vaccine Effectiveness Over Time

• Compared with children fully DTaP vaccinated, unvaccinated and undervaccinated children were at a greater risk of pertussis. However, most pertussis cases occurred among age-appropriately vaccinated children.

Ousseny Zerbo, Joan Bartlett, Kristin Goddard, Bruce Fireman, Edwin Lewis, Nicola P. Klein



Incidence of Herpes Zoster Among Children: 2003–2014

· Using data from 6 health care organizations, we examined herpes zoster (HZ) incidence among children in the varicella vaccine era (2003-2014).

Sheila Weinmann, Allison L. Naleway, Padma Koppolu, Roger Baxter, Edward A. Belongia, Simon J. Hambidge, Stephanie A. Irving, Michael L. Jackson, Nicola P. Klein, Bruno Lewin, Elizabeth Liles, Mona Marin, Ning Smith, Eric Weintraub, Colleen Chun





🕼 🗀 👊 Implementing Evidence-Based Strategies to Improve HPV **Vaccine Delivery**

• The experience of a large, not-for-profit health care system suggests that local adaptation may be effective in engaging physicians in HPV vaccine-related QI efforts.

Melissa B. Gilkey, Michael J. Parks, Marjorie A. Margolis, Annie-Laurie McRee, Jason V. Terk

The print edition of Pediatrics contains abstracts of original research and full text of policies of the American Academy of Pediatrics. Full text of original research and all other journal article types can be found online at www.pediatrics.org.













Sample citation format: Ralston SL, Garber MD, Rice-Conboy E, et al. A Multicenter Collaborative to Reduce Unnecessary Care in Inpatient Bronchiolitis. Pediatrics. 2016;137(1):e20150851.

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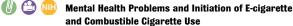
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ARTICLES (continued)









· Data from a nationally representative sample of youth were used to explore associations between mental health problems and initiation of e-cigarette and combustible cigarette use.

Kira E. Riehm, Andrea S. Young, Kenneth A. Feder, Noa Krawczyk, Kayla N. Tormohlen, Lauren R. Pacek, Ramin Mojtabai, Rosa M. Crum









· In this multicenter case-control study, we derive and internally validate a highly sensitive score that identifies non-ill-appearing febrile infants at low probability of bacteremia and/or bacterial meningitis.

Paul L. Aronson, Veronika Shabanova, Eugene D. Shapiro, Marie E. Wang, Lise E. Nigrovic, Christopher M. Pruitt, Adrienne G. DePorre, Rianna C. Leazer, Sanyukta Desai, Laura F. Sartori, Richard D. Marble, Sahar N. Rooholamini, Russell J. McCulloh, Christopher Woll, Fran Balamuth, Elizabeth R. Alpern, Samir S. Shah, Derek J. Williams, Whitney L. Browning, Nipam Shah, Mark I. Neuman, for the Febrile Young Infant Research Collaborative





Prevalence, Risk Factors, and Outcomes of Bacteremic Pneumonia in Children

• Using systematic, prospective blood culture collection in children admitted with CAP, this study identifies risk factors and characterizes outcomes associated with

Cristin Q. Fritz, Kathryn M. Edwards, Wesley H. Self, Carlos G. Grijalva, Yuwei Zhu, Sandra R. Arnold, Jonathan A. McCullers, Krow Ampofo, Andrew T. Pavia, Richard G. Wunderink, Evan J. Anderson, Anna M. Bramley, Seema Jain, Derek J. Williams

Infant Deaths in Sitting Devices

• This study uses a nationwide data set to compare risk factors for sleep-related infant deaths occurring in sitting devices and in nonsitting devices.

Peter Liaw, Rachel Y. Moon, Autumn Han, Jeffrey D. Colvin

Safety Interventions and Liquid Laundry Detergent **Packet Exposures**

• Liquid laundry detergent packet exposures among children <6 years of age have decreased modestly since 2015, whereas exposures among older children and adults have continued to increase.

Christopher E. Gaw, Henry A. Spiller, Marcel J. Casavant, Thitphalak Chounthirath, Gary A. Smith

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ARTICLES (continued)

Hydroxyurea Use for Sickle Cell Disease Among **Medicaid-Enrolled Children**

· This population-based study of children with SCD assesses trends in hydroxyurea use and associated changes in ED visits and hospitalizations.

David C. Brousseau, Troy Richardson, Matt Hall, Angela M. Ellison, Samir S. Shah, Jean L. Raphael, David G. Bundy, Staci Arnold





🕼 🗀 🔤 Patterns of Electrolyte Testing at Children's Hospitals for Common Inpatient Diagnoses

· A retrospective cohort study revealed wide variation in electrolyte testing rates across hospitals, with strong hospital-level correlation across diagnoses.

Michael J. Tchou, Matt Hall, Samir S. Shah, David P. Johnson, Alan R. Schroeder, James W. Antoon, Marquita C. Genies, Ricardo Quinonez, Christopher W. Miller, Snehal P. Shah, Patrick W. Brady, for the Pediatric Research in Inpatient Settings (PRIS) Network





Cervical Spine Injury Risk Factors in Children With **Blunt Trauma**

 In this multicenter, prospective observational study of 4091 children who experienced blunt trauma, we identified 14 risk factors for CSI.

Julie C. Leonard, Lorin R. Browne, Fahd A. Ahmad, Hamilton Schwartz, Michael Wallendorf, Jeffrey R. Leonard, E. Brooke Lerner, Nathan Kuppermann

Palivizumab and Long-term Outcomes in Cystic Fibrosis

• In this study, we explore palivizumab's potential benefits related to longer-term outcomes (lung function at age 7, first acquisition of Pseudomonas, and hospitalizations) in children with CF.

Aliza K. Fink, Gavin Graff, Carrie L. Byington, Deena R. Loeffler, Margaret Rosenfeld, Lisa Saiman





🕼 🔤 🛮 A 2017 US Reference for Singleton Birth Weight **Percentiles Using Obstetric Estimates of Gestation**

· This study provides an updated birth weight reference by using a more reliable GA estimate and reflects the current sociodemographic composition of the United States.

Izzuddin M. Aris, Ken P. Kleinman, Mandy B. Belfort, Anjali Kaimal, Emily Oken



A Simpler Prediction Rule for Rebound Hyperbilirubinemia

• We turned our previous 3-variable clinical prediction rule for rebound hyperbilirubinemia into a simpler 2-variable rule with similarly excellent discrimination.

Pearl W. Chang, Thomas B. Newman

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ARTICLES (continued)





Physical Activity and Trajectories of Cardiovascular **Health Indicators During Early Childhood**

• This prospective cohort study examines the longitudinal effects of physical activity on cardiovascular fitness, arterial stiffness, and blood pressure over 3 years during early childhood.

Nicole A. Proudfoot, Sara King-Dowling, John Cairney, Steven R. Bray, Maureen J. MacDonald, Brian W. Timmons



Mental Illness Among Youth With Chronic Physical Conditions

· This nationally representative cohort study examines the risk of mental health diagnosis among youth with CPCs and explores the mediating role of activity limitations.

John S. Adams, Alyna T. Chien, Lauren E. Wisk

Adolescent Connectedness and Adult Health Outcomes

· Using the National Longitudinal Study of Adolescent to Adult Health, we document long-term protective associations between family and school connectedness and multiple health outcomes.

Riley J. Steiner, Ganna Sheremenko, Catherine Lesesne, Patricia J. Dittus, Renee E. Sieving, Kathleen A. Ethier





Factors Associated With Management of Pediatric **Ovarian Neoplasms**

 Through retrospective review of >800 patients, we describe the current approach to ovarian masses, both benign and malignant, in the pediatric patient.

Amy E. Lawrence, Dani O. Gonzalez, Mary E. Fallat, Jennifer H. Aldrink, Geri D. Hewitt, S. Paige Hertweck, Amanda Onwuka, Christina Bence, Robert C. Burns, Patrick A. Dillon. Peter F. Ehrlich. Jason D. Fraser. Julia E. Grabowski, Ronald B. Hirschl, Rashmi Kabre, Jonathan E. Kohler, Dave R. Lal, Matthew P. Landman, Charles M. Leys, Grace Z. Mak, Thomas T. Sato, Madeline Scannell, Joseph A. Sujka, Peter C. Minneci, Katherine J. Deans



Neurologic Outcome After Prematurity: Perspectives of Parents and Clinicians

· This qualitative descriptive study illustrates that parents and clinicians discuss and weigh prognostic information differently from each other as they consider choices for premature infants.

Monica E. Lemmon, Hanna Huffstetler, Mary Carol Barks, Christine Kirby, Madelaine Katz, Peter A. Ubel, Sharron L. Docherty, Debra Brandon



Social Robots for Hospitalized Children

 SRs offer unique opportunities to extend emotionally responsive care among limited human resources. We explore feasibility and acceptability of integrating SR technology into pediatric health care.

Deirdre E. Logan, Cynthia Breazeal, Matthew S. Goodwin, Sooyeon Jeong, Brianna O'Connell, Duncan Smith-Freedman, James Heathers, Peter Weinstock

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ARTICLES (continued)



Defining Global Health Tracks for Pediatric Residencies

49

 We present a consensus definition, minimal educational offerings and institutional supports, and evaluation methods for a GH track in pediatric residency using Delphi methodology.

Heather Haq, Adelaide Barnes, Maneesh Batra, Tania Condurache, Michael B. Pitt, Jeff A. Robison, Chuck Schubert, Nicole St Clair, Omolara Uwemedimo, Jennifer Watts, Christiana M. Russ

Characteristics and Workload of Pediatricians in China

 Through a national survey, we found that uneven development of the pediatric care system is the major challenge facing China's pediatric health care system.

Yongjun Zhang, Lisu Huang, Xin Zhou, Xi Zhang, Zheng Ke, Zhaoxi Wang, Qiang Chen, Xiangyu Dong, Lizhong Du, Jianpei Fang, Xing Feng, Jianhua Fu, Zhixu He, Guoying Huang, Songming Huang, Xiuli Ju, Li Gao, Li Li, Tingyu Li, Yarui Li, Geli Liu, Wenjun Liu, Xiaoping Luo, Guangming Nong, Jiahua Pan, Kunling Shen, Hongmei Song, Jinghui Sun, Dezhi Mu, Tianyou Wang, Baoxi Wang, Wei Xiang, Changyi Yang, Shufen Yang, Zhengyan Zhao, Hua Zhu, Yimin Zhu, Jun Zhang, Julian Little, Therese Hesketh, Kun Sun

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Christiana M. Russ, Errol Alden

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FROM THE AMERICAN ACADEMY OF PEDIATRICS

Policy Statement Alcohol Use by Youth

Joanna Quigley, Committee on Substance Use and Prevention

Policy Statement

Electronic Communication of the Health Record and Information With Pediatric Patients and Their Guardians

Emily C. Webber, David Brick, James P. Scibilia, Peter Dehnel, Council on Clinical Information Technology, Committee on Medical Liability and Risk Management, Section on Telehealth Care

Policy Statement

Improving Health and Safety at Camp

Michael J. Ambrose, Edward A. Walton, Council on School Health

e-Policy Pages-www.pediatrics.org

Technical Report Alcohol Use by Youth

Sheryl A. Ryan, Patricia Kokotailo, Committee on Substance Use and Prevention

PEDIATRICS PERSPECTIVES

Let Them Breathe: A Plea to Pediatricians to Advocate for Stock Inhaler Policies at School

Andrea A. Pappalardo, Lynn B. Gerald

Health Equity in Rwanda and Boston and Back Again

Sara N. Stulac

MONTHLY FEATURE

The Right Stuff: Priming Students to Focus on Pertinent Information During Clinical Encounters

Elizabeth Stuart, Janice L. Hanson, Robert Arthur Dudas

REVIEW ARTICLES—Online only at www.pediatrics.org

Neurodevelopmental and Academic Outcomes in Children With Orofacial Clefts: A Systematic Review

 In this systematic review, we examine the findings that children with OFCs have worse neurodevelopmental and academic outcomes compared with unaffected peers, examining trends by age.

Emily R. Gallagher, Brent R. Collett

Omega-3 Long-chain Polyunsaturated Fatty Acids for Bronchopulmonary Dysplasia: A Meta-analysis

 With this meta-analysis, we provide a new perspective on the association between N-3 LCPUFA intervention and incidence of BPD in preterm infants.

Qian Wang, Bing Zhou, Qiliang Cui, Chao Chen

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STATE-OF-THE-ART REVIEW ARTICLE

Continuous Noninvasive Carbon Dioxide Monitoring in Neonates: From Theory to Standard of Care

 We review the different noninvasive CO₂ monitoring alternatives, their advantages and disadvantages, and the available data supporting their use as a standard of care in NICUs.

Ori Hochwald, Liron Borenstein-Levin, Gil Dinur, Huda Jubran, Shlomit Ben-David, Amir Kugelman

SPECIAL ARTICLES

Spread of Measles in Europe and Implications for US Travelers

 The record number of measles cases in the WHO European Region puts both international travelers and nontraveling US residents at risk for measles.

Kristina M. Angelo, Paul A. Gastañaduy, Allison T. Walker, Manisha Patel, Susan Reef, C. Virginia Lee, Jeffrey Nemhauser

Firearm Injuries and Children: Position Statement of the American Pediatric Surgical Association

 The increase in firearm injuries affects all pediatric care providers. The APSA recommends improved trauma care, research, prevention, and policy to address this public health problem.

John K. Petty, Marion C.W. Henry, Michael L. Nance, Henri R. Ford, APSA Board of Governors

THICS ROUNDS

Allowing Adolescents to Weigh Benefits and Burdens of High-stakes Therapies

 In this case study, we discuss the ethical considerations when there is discordance between an adolescent close to attaining age of majority and the parent currently responsible for medical decision-making in a high-risk medical setting

Kriti Puri, Janet Malek, Caridad Maylin de la Uz, John Lantos, Antonio Gabriel Cabrera, Ernest Frugé

OUALITY REPORTS—www.pediatrics.org

Five-Year Outcomes of Behavioral Health Integration in Pediatric Primary Care

 In this study, we describe the 5-year outcomes of BH integration in a large pediatric primary care network in patient experience, cost, and provider satisfaction domains

Heather J. Walter, Louis Vernacchio, Emily K. Trudell, Jonas Bromberg, Ellen Goodman, Jessica Barton, Gregory J. Young, David R. DeMaso, Glenn Focht

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QUALITY REPORTS—www.pediatrics.org (continued)



Addressing Disparities in Mother's Milk for VLBW **Infants Through Statewide Quality Improvement**

• We report findings from a 3-year Massachusetts statewide OI collaborative that aimed to improve mother's milk provision and reduce racial and ethnic disparities.

Margaret G. Parker, Laura A. Burnham, Patrice Melvin, Rachana Singh, Adriana M. Lopera, Mandy B. Belfort, James M. Moses, Munish Gupta

Hypotonia and Lethargy in a Two-Day-Old Male Infant

· The case of a 2-day-old term male infant found in the newborn nursery to be hypotonic and minimally reactive is discussed.

Adrienne H. Long, Jennifer G. Fiore, Riaz Gillani, Laurie M. Douglass, Alan M. Fujii, Jodi D. Hoffman

CASE REPORTS—Online only at www.pediatrics.org

Suspicion and Persistence: A Case of Pediatric **Brugada Syndrome**

· This case study highlights the difficulty in diagnosing Brugada syndrome in a young patient with a normal electrocardiogram result at baseline.

Brynn E. Dechert, Martin J. LaPage, Mitchell I. Cohen

Sacral Myeloradiculitis: An Uncommon Complication of Genital Herpes Infection

· An 18-year-old man with genital HSV infection presents with constipation, urinary retention, paresthesias, and MRI findings of sacral myeloradiculitis.

Allison M. Whalen, Camila M. Mateo, Amanda S. Growdon, Andrew F Miller

Inflammatory Arthritis as a Possible Feature of **Coffin-Siris Syndrome**

• Case report of a young boy with true inflammatory arthritis and diagnosis of CSS. Inflammatory arthritis may be under-recognized in chromatin remodeling-associated genetic syndromes.

Sonia Melo Gomes, Cristina Dias, Ebun Omoyinmi, Sandrine Compeyrot-Lacassagne, Nigel Klein, Neil J. Sebire, Paul Brogan

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