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#### ARTICLES





Adolescent E-Cigarette, Hookah, and Conventional Cigarette Use and Subsequent Marijuana Use

> · We sought to determine whether the well-established comorbidity between combustible cigarette smoking and subsequent marijuana use in adolescence translates to e-cigarette and hookah use.

Janet Audrain-McGovern, Matthew D. Stone, Jessica Barrington-Trimis, Jennifer B. Unger, Adam M. Leventhal





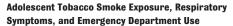




· With this study, we quantified levels of cannabinoids  $\Delta$ 9-THC, 11-OH-THC, cannabidiol, and cannabinol in 54 milk samples provided by breastfeeding mothers who reported recent marijuana use.

Kerri A. Bertrand, Nathan J. Hanan, Gordon Honerkamp-Smith, Brookie M. Best, Christina D. Chambers





· We examined the association between TSE and related respiratory symptoms and ED and/or UC use among nonsmoking adolescents without asthma diagnoses.

Ashley L. Merianos, Roman A. Jandarov, E. Melinda Mahabee-Gittens



#### Negative Chest Radiography and Risk of Pneumonia

· In this prospective study, we examine the ability of using the CXR to exclude pneumonia in children.

Susan C. Lipsett, Michael C. Monuteaux, Richard G. Bachur, Nicole Finn, Mark I. Neuman

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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.

### American Academy of Pediatrics DEDICATED TO THE HEALTH OF ALL CHILDREN\*



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#### ARTICLES (continued)





#### 🚌 и Prescription Medication Use Among Children and **Adolescents in the United States**

• We report the prevalence of acute and chronic prescription medication use, concurrent use, and potential major DDIs, among US children and adolescents.

Dima M. Qato, G. Caleb Alexander, Jenny S. Guadamuz, Stacy Tessler Lindau





#### Efficacy of Propranolol Between 6 and 12 Months of Age in High-Risk Infantile Hemangioma

• Extending propranolol treatment beyond 6 months up to 12 months of age produces a meaningful increase in the high-risk IH success rate.

Eulalia Baselga, Bozenna Dembowska-Baginska, Przemysław Przewratil, María Antonia González-Enseñat, Dariusz Wyrzykowski, Antonio Torrelo, Juan-Carlos López Gutiérrez, Magdalena Rychłowska-Pruszyńska, Raúl de Lucas-Laguna, Altea Esteve-Martinez, Esther Roé, Mohammed Zaim, Yoann Menon, Stéphanie Gautier Geneviève Lebbé. Athmane Bouroubi, Alain Delarue, Jean-Jacques Voisard



#### **Health Care Use and Health Behaviors Among Young Adults With History of Parental Incarceration**

· We examined the relationship between a history of PI, health care use, and health behaviors among young adults in the United States.

Nia Heard-Garris, Tyler N. A. Winkelman, Hwajung Choi, Alex K. Miller, Kristin Kan, Rebecca Shlafer, Matthew M. Davis

#### Infant Analgesia With a Combination of Breast Milk, Glucose, or Maternal Holding

· Effects of breast milk on neonatal cortical response to heel stick differ depending on whether breast milk is administered alone or combined with the maternal-infant relationship.

Stefano Bembich, Gabriele Cont, Enrica Causin, Giulia Paviotti, Patrizia Marzari, Sergio Demarini



#### A Healthy Life for a Child With Medical Complexity: 10 Domains for Conceptualizing Health

• In a GCM study with experts on CMC, we identified 10 outcome domains for measuring the health of CMC.

Elizabeth S. Barnert, Ryan J. Coller, Bergen B. Nelson, Lindsey R. Thompson, Thomas S. Klitzner, Moira Szilagyi, Abigail M. Breck, Paul J. Chung







#### **Legislation to Increase Uptake of HPV Vaccination** and Adolescent Sexual Behaviors

• Legislation to raise uptake of HPV vaccination among adolescents was not associated with increases in risky sexual behavior in this quasi-experimental study.

Erin E. Cook, Atheendar S. Venkataramani, Jane J. Kim, Rulla M. Tamimi, Michelle D. Holmes

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#### ARTICLES (continued)





#### Prenatal Tetanus, Diphtheria, Acellular Pertussis **Vaccination and Autism Spectrum Disorder**

 In this retrospective observational cohort study, we evaluate the association between Tdap vaccination during pregnancy and ASD in children in an integrated health care system in Southern California.

Tracy A. Becerra-Culqui, Darios Getahun, Vicki Chiu, Lina S. Sy, Hung Fu Tseng

#### **Primary Ovarian Insufficiency and Adolescent Vaccination**

40

39

· We investigated the risk for young women of developing POI after adolescent vaccination. No increased risk was observed.

Allison L. Naleway, Kathleen F. Mittendorf, Stephanie A. Irving, Michelle L. Henninger, Bradley Crane, Ning Smith, Matthew F. Daley, Julianne Gee

#### **Surgeries and Health Outcomes Among Patients** With Spina Bifida

41

44

• In this study, we use data from the NSBPR to describe the age distribution of surgical procedures and health outcomes among patients with SB.

Noreen B. Alabi, Judy Thibadeau, John S. Wiener, Mike J. Conklin, Mark S. Dias, Kathleen J. Sawin,





#### Hypertonic Saline in Bronchiolitis and Type I Error: **A Trial Sequential Analysis**

· TSA of HS in acute viral bronchiolitis reveals that statistically significant results from conventional meta-analysis may represent false-positive evidence of benefit.

Wade Harrison, Francois Angoulvant, Samantha House, Vincent Gajdos, Shawn L. Ralston





#### Predicting Escalated Care in Infants With Bronchiolitis

· In this global study, we derived a risk score for escalated care in bronchiolitis that may be used to aid clinicians with management and disposition decisions.

Gabrielle Freire, Nathan Kuppermann, Roger Zemek, Amy C. Plint, Franz E. Babl, Stuart R. Dalziel, Stephen B. Freedman, Eshetu G. Atenafu, Derek Stephens, Dale W. Steele, Ricardo M. Fernandes, Todd A. Florin, Anupam Kharbanda, Mark D. Lyttle, David W. Johnson, David Schnadower, Charles G. Macias, Javier Benito, Suzanne Schuh, for the Pediatric Emergency Research Networks (PERN)



#### **Emergency Department Revisits After an Initial Parenteral Antibiotic Dose for UTI**

51

• We investigated the relationship between children with UTIs who receive parenteral antibiotics before ED discharge and the risk of revisits and subsequent

Pradip P. Chaudhari, Michael C. Monuteaux, Richard G. Bachur

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#### **Variations in Neonatal Antibiotic Use**

· Four years of California neonatal antibiotic use data reveal a substantial decline and continued unexplained variation.

Joseph Schulman, Jochen Profit, Henry C. Lee, Grace Dueñas, Mihoko V. Bennett, Janella Parucha, Maria A. L. Jocson, Jeffrey B. Gould



#### Lost Earnings and Nonmedical Expenses of Pediatric **Hospitalizations**

· Nonmedical costs can place burdens on families of children who are hospitalized, disproportionately affecting those with competing socioeconomic challenges.

Lenisa V. Chang, Anita N. Shah, Erik R. Hoefgen, Katherine A. Auger, Huibin Weng, Jeffrey M. Simmons, Samir S. Shah, Andrew F. Beck, on behalf of the H20 Study Group

#### **Repeat Head CT for Expectant Management of Traumatic Epidural Hematoma**

· The assessment of neurologic status and initial head CT findings may allow for the reduced use of repeat CT imaging in patients with traumatic EDH.

Brian F. Flaherty, Hannah E. Moore, Jay Riva-Cambrin, Susan L. Bratton



#### Pediatric Antibacterial and Antifungal Trials From 2007 to 2017

 We examine the impact of BPCA and PREA on pediatric antibacterial and antifungal drug trials.

Joshua T. Thaden, Karen Chiswell, Ian Jaffe, Stephen P. Bergin, William E. Yang, Andrew Romaine, Jamie Roberts, Sumathi Nambiar, John Farley, Daniel K. Benjamin Jr, P. Brian Smith, Ephraim L. Tsalik



#### Use of Oximetry to Determine Need for **Adenotonsillectomy for Sleep-Disordered Breathing**

· Abnormal desaturation index is used to identify a subgroup of children with tonsillar hypertrophy and snoring who will benefit from surgery.

Chariton E. Papadakis, Konstantinos Chaidas, Theognosia S. Chimona, Panagiota Asimakopoulou, Alexandros Ladias, Efklidis K. Proimos Michael Miligkos, Athanasios G. Kaditis



#### **Longitudinal BMI Growth Curves for Surviving** Preterm NICU Infants Based on a Large US Sample

· We describe how body proportionality changes with age in prematurely born infants and compare newly developed longitudinal curves with existing cross-sectional intrauterine curves.

Adrienne L. Williamson, Josip Derado, Bradley J. Barney, Greg Saunders, Irene E. Olsen, Reese H. Clark, M. Louise Lawson

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### ARTICLES (continued)





#### Adoption of Serogroup B Meningococcal Vaccine Recommendations

• We examined how primary care physicians are adopting the MenB vaccine after it received a category B recommendation by the ACIP in 2015.

Allison Kempe, Mandy A. Allison, Jessica R. MacNeil, Sean T. O'Leary, Lori A. Crane, Brenda L. Beaty, Laura P. Hurley, Michaela Brtnikova, Megan C. Lindley, Alison P. Albert

#### Meningococcal B Vaccine Immunogenicity in Children With Defects in Complement and Splenic Function

• Children with complement deficiency respond less well to immunization with 4CMenB than healthy children in the control category; surveillance for vaccine failures is required to determine the significance of this.

Federico Martinón-Torres, Ewa Bernatowska, Anna Shcherbina, Susanna Esposito, Leszek Szenborn, Magda Campins Marti, Stephen Hughes, Saul N. Faust, Luis I. Gonzalez-Granado, Ly-Mee Yu, Diego D'Agostino, Marco Calabresi, Daniela Toneatto, Matthew D. Snape



#### **Lung Ultrasound Score Predicts Surfactant Need** in Extremely Preterm Neonates

• We enrolled >130 extremely preterm infants in our study to demonstrate the accuracy of the LUS for an early prediction of surfactant treatment.

Lucia De Martino, Nadya Yousef, Rafik Ben-Ammar, Francesco Raimondi, Shivani Shankar-Aguilera, Daniele De Luca

#### **Educational Disabilities Among Children Born With Neonatal Abstinence Syndrome**

· An analysis of >7000 children in Tennessee revealed that children with a history of NAS were significantly more likely to have a subsequent educational disability.

Mary-Margaret A. Fill, Angela M. Miller, Rachel H. Wilkinson, Michael D. Warren, John R. Dunn, William Schaffner, Timothy F. Jones



#### The Risk of Offspring Psychiatric Disorders in the Setting of Maternal Obesity and Diabetes

· Using a Finnish nationwide cohort, we investigate the combined effects of maternal diabetes and obesity on the risk of offspring psychiatric and mild neurodevelopmental disorders.

Linghua Kong, Gunnar Norstedt, Martin Schalling, Mika Gissler, Catharina Lavebratt



#### **Neurodevelopment After Perinatal Arterial Ischemic Stroke**

· With this study, we distinguish different neurodevelopmental outcome domains in perinatal stroke subtypes and specify several risk factors for these outcomes.

Nienke Wagenaar, Miriam Martinez-Biarge, Niek E. van der Aa, Ingrid C. van Haastert, Floris Groenendaal, Manon J. N. L. Benders, Frances M. Cowan, Linda S. de Vries

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#### ARTICLES (continued)



#### Prenatal Diet and Child Growth at 18 Months

· Providing an antenatal dietary and lifestyle intervention for pregnant women who are overweight and obese did not alter child growth and adiposity at 18 months of age.

Jodie M. Dodd, Jennie Louise, Andrea R. Deussen, Andrew J. McPhee, Julie A. Owens, Jeffrey S. Robinson

#### **Short Malnourished Children and Fat Accumulation** With Food Supplementation

· We assess if it is justified to exclude shorter children with MAM from treatment out of fear they will accumulate too much fat.

Christian Fabiansen, Kevin P. Q. Phelan, Bernardette Cichon, Charles W. Yaméogo, Ann-Sophie luel-Brockdorff, Anura Kurpad, Jonathan C. Wells, Christian Ritz, Suzanne Filteau, André Briend, Vibeke B. Christensen, Kim F. Michaelsen, Susan Shepherd, Henrik Friis

#### **Sociodemographic Factors and Survival of Infants With Congenital Heart Defects**

· Using birth defects surveillance data linked to census and vital records, we examine sociodemographic differences in first-year survival among infants with CHDs.

Nelson D. Pace, Matthew E. Oster, Nina E. Forestieri, Dianne Enright, Jessica Knight, Robert E. Meyer



#### **Neuroimaging of Early Life Epilepsy**

• This study reveals the high yield of radiographic abnormalities in children presenting with epilepsy who are <3 years old regardless of multiple clinical factors.

Jason Coryell, William D. Gaillard, Renée A. Shellhaas, Zachary M. Grinspan, Elaine C. Wirrell, Kelly G. Knupp, Courtney J. Wusthoff, Cynthia Keator, Joseph E. Sullivan, Tobias Loddenkemper, Anup Patel, Catherine J. Chu, Shavonne Massey, Edward J. Novotny Jr, Russel P. Saneto, Anne T. Berg



#### **Home Medication Readiness for Preschool Children With Asthma**

· In this study, we assess asthma medication readiness through direct observation and surveys during home visits with caregivers of urban low-income preschool-aged children with asthma.

Jennifer A. Callaghan-Koru, Kristin A. Riekert, Elizabeth Ruvalcaba, Cynthia S. Rand, Michelle N. Eakin



#### **Behavioral Health and Adult Milestones in** Young Adults With Perinatal HIV Infection or Exposure

• PHIVYAs are achieving adult milestones but have high rates of psychiatric, substance use, and cognitive problems that may affect health outcomes.

Elaine J. Abrams, Claude A. Mellins, Amelia Bucek, Curtis Dolezal, Jeannette Raymond, Andrew Wiznia, Andrea Jurgrau, Mahrukh Bamji, Cheng-Shiun Leu, Yiu Kee Warren Ng

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## Recruitment and Retention of Community Preceptors

 We provide an analysis of the challenges and proposed solutions in recruiting and retaining community preceptors from the viewpoint of pediatric department chairs.

Michael S. Ryan, Lisa E. Leggio, Christopher B. Peltier, Archana Chatterjee, Steven Arenberg, Julie S. Byerley, Julia L. Belkowitz, Gerard P. Rabalais, Michael A. Barone

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in High-Risk Groups: What Are the Implications?

**Novel Technologies for Neonatal Care: The Case** 

of Point-of-Care Lung Ultrasonography
María V. Fraga, Jason Z. Stoller, Scott A. Lorch

Sheldon L. Kaplan

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Laura Schroeder, David C. Stockwell

The Neighborhood As Patient: 1 Hospital's Approach to Neighborhood Effects

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Irene Yen, Susan Neufeld, Leslie Dubbin

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#### **Clinical Report**

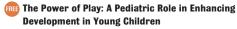
Marijuana Use During Pregnancy and Breastfeeding: Implications for Neonatal and Childhood Outcomes

Sheryl A. Ryan, Seth D. Ammerman, Mary E. O'Connor, Committee on Substance Use and Prevention, Section on Breastfeeding

e-Policy Pages—www.pediatrics.org

#### **Policy Statement**

AAP Publications Reaffirmed or Retired
Clinical Report



Michael Yogman, Andrew Garner, Jeffrey Hutchinson, Kathy Hirsh-Pasek, Roberta Michnick Golinkoff, Committee on Psychosocial Aspects of Child and Family Health, Council on Communications and Media

#### Technical Report



Diagnosis, Evaluation, and Management of High Blood Pressure in Children and Adolescents

Carissa M. Baker-Smith, Susan K. Flinn, Joseph T. Flynn, David C. Kaelber, Douglas Blowey, Aaron E. Carroll, Stephen R. Daniels, Sarah D. de Ferranti, Janis M. Dionne, Bonita Falkner, Samuel S. Gidding, Celeste Goodwin, I Michael G. Leu, Makia E. Powers, Corinna Rea, Joshua Samuels, Madeline Simasek, Vidhu V. Thaker, Elaine M. Urbina, Subcommittee on Screening and Management of High BP In Children

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B. Emily Esmaili

Incorporating Patient- and Family-Centered Care Into Practice: The PA Medical Home Initiative

Salini Mohanty, Nora Wells, Richard Antonelli, Renee M. Turchi

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### FAMILY PARTNERSHIPS

**Patient and Family Partnership for Safer Health Care** 

Philippa Rees, Janet Wimberg, Kathleen E. Walsh

#### MONTHLY FEATURE

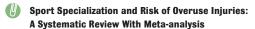
#### Separation and Reunification: Mental Health of **Chinese Children Affected by Parental Migration**

Chenyue Zhao, Helen L. Egger, Cheryl R. Stein, Kyle A. McGregor

Talk, Read, Sing: Early Language Exposure As an **Overlooked Social Determinant of Health** 

Danielle LoRe, Peter Ladner, Dana Suskind

### REVIEW ARTICLES—Online only at www.pediatrics.org



· This study is a systematic review of the relationship between sport specialization and overuse injury risk.

David R. Bell, Eric G. Post, Kevin Biese, Curtis Bay, Tamara Valovich McLeod

#### **Prevalence of Autism Spectrum Disorder in Preterm** Infants: A Meta-analysis

· This is a comprehensive systematic review and meta-analysis of the prevalence of ASD in the preterm population.

Sachin Agrawal, Shripada C. Rao, Max K. Bulsara, Saniav K. Patole

#### Down Syndrome and the Risk of Severe RSV Infection: A Meta-analysis

· Children with DS had a significantly higher risk of severe RSV infection (hospital admission, mortality, LOS, ICU admission, ventilation, and oxygen requirements) than children without DS.

Andrea A. Beckhaus, Jose A. Castro-Rodriguez



#### Preventable Adverse Drug Events Among Inpatients: **A Systematic Review**

• We review the incidence and severity of pADEs resulting from medication errors identified by chart review or observation in pediatric inpatient settings.

Peter J. Gates, Sophie A. Meyerson, Melissa T. Baysari, Christopher U. Lehmann, Johanna I. Westbrook

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#### FTHICS ROLINDS

#### Fertility Preservation for a Transgender Teenager

 A transgender teenager refuses to consider interventions to preserve the possibility of later fertility. The doctor wonders what to do.

Leena Nahata, Lisa T. Campo-Engelstein, Amy Tishelman, Gwendolyn P. Quinn, John D. Lantos

## Controversy About a High-Risk and Innovative Fetal Cardiac Intervention

 After a fetal diagnosis of complex congenital heart disease, doctors and parents disagree about the risks and benefits of an experimental fetal intervention.

Lindsay Atherton Edwards, Henri Justino, Shaine A. Morris, Katie and John, Jack Rychik, Chris Feudtner, John D. Lantos

#### SPECIAL ARTICLES—Online only at www.pediatrics.org

#### Understanding FDA-Approved Labeling and CDC Recommendations for Use of Vaccines

 Recommendations for the use of FDA-licensed vaccines are provided by the CDC. In this article, we discuss why a difference may exist between licensure and recommendations for vaccine use.

H. Cody Meissner, Karen Farizo, Douglas Pratt, Larry K. Pickering, Amanda C. Cohn

#### The Healthy Neighborhood, Healthy Families Initiative

 HNHF, a hospital-led collaborative, improves social determinants through housing development. In our anchor institution case study, we document the process, effects, and lessons learned.

Kelly Kelleher, Jason Reece, Megan Sandel

#### OUALITY REPORTS—Online only at www.pediatrics.org

## Family-Driven Goals to Improve Care for Children With Autism Spectrum Disorder

 Results from a QI collaborative indicated that family-driven goal setting enhances outcomes in the standardization of management of constipation and insomnia in children with ASD.

Katherine R. Bellesheim, Lynn Cole, Daniel L. Coury, Larry Yin, Susan E. Levy, Meghan A. Guinnee, Kirsten Klatka, Beth A. Malow, Terry Katz, Jane Taylor, Kristin Sohl

#### Use of Electronic Health Record Integration for Down Syndrome Guidelines

 Through EHR integration of the AAP guidelines for Down syndrome, we demonstrate an innovative approach to implementation that is sustainable and modifiable and improves adherence.

Stephanie L. Santoro, Thomas Bartman, Clifford L. Cua, Stephanie Lemle, Brian G. Skotko

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#### DIAGNOSTIC DILEMMAS

#### A 14-Year-Old Boy With Fevers, Cytopenias, and Neurocognitive Decline

 A teenaged boy is admitted with 1 month of experiencing fever, cytopenias, and neurocognitive decline. How do you approach diagnostic workup and the management of this patient?

William B. Lapin, Ariel M. Lyons-Warren, Sarah R. Risen, Nisha Rathore, Jeremy S. Slone, M. Tarek Elghetany, Monica Marcus

### CASE REPORTS—Online only at www.pediatrics.org

#### D-lactic Acidosis: Successful Suppression of D-lactate-Producing *Lactobacillus* by Probiotics

 Close monitoring of the stool microbial composition via 16S ribosomal RNA sequencing in a pediatric patient with SBS and D-lactic acidosis reveals treatment-specific changes.

Bahtiyar Yilmaz, Susanne Schibli, Andrew J. Macpherson, Christiane Sokollik

## Treatment of Ventricular Fibrillation Due to Ammonium Bifluoride Poisoning With Hemodialysis

 Fluoride poisoning causes fatal ventricular dysrhythmia.
 We report such a case of poisoning with subsequent ventricular fibrillation, successfully treated with HD.

Andrew N. Farkas, Michael S. Wolf, Elizabeth Landzberg, Michael J. Lynch, Kendra S. Woods



## ADA2 Deficiency Mimicking Idiopathic Multicentric Castleman Disease

• We report on the first case of DADA2 that mimics the clinicopathologic features of MCD.

Erika Van Nieuwenhove, Stephanie Humblet-Baron, Lien Van Eyck, Lien De Somer, James Dooley, Thomas Tousseyn, Michael Hershfield, Adrian Liston, Carine Wouters

#### e-Letters—Online only at www.pediatrics.org

#### Errata

#### SUPPLEMENT 1—accompanies this issue



Lessons From Scandinavia: Decisions at the Borderline of Viability in Sweden, Denmark, and Norway

Janicke Syltern, Lars Ursin, Supplement Editors S53

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