PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= **supplement**

= **data file/supplementary information available online**

= **podcast available online**

= **video available online**

= **free access online**

= **funded by NIH**

contents

Classified Advertisements & Announcements A19–A33

For Author Guidelines please visit www.pediatrics.org

For a Thank You to Our Reviewers please visit http://pediatrics.aappublications.org/content/139/4/2017tribute.full

ARTICLES

FREE **Unintentional Cannabis Intoxication in Toddlers** 17

- Despite cannabis consumption being illegal in France, its use is increasing, and the evolution of related unintentional pediatric intoxications is still poorly documented.

Isabelle Claudet, Sébastien Mouvier, Magali Labadie, Cécile Manin, Anne-Pascale Michard-Lenoir, Didier Eyer, Damien Dufour, for the Marie-Jeanne Study Group

NIH FREE **Epidemiology of Acute Otitis Media in the Postpneumococcal Conjugate Vaccine Era** 18

- In this 10-year prospective study, we capture the epidemiology and risk factors of AOM and the otitis-prone condition in the PCV era.

Ravinder Kaur, Matthew Morris, Michael E. Pichichero

Prognostic Factors for Treatment Failure in Acute Otitis Media 21

- Secondary analysis of randomized controlled trial to identify subgroups of children with AOM who would and would not benefit most from antimicrobials.

Paula A. Tähtinen, Miia K. Laine, Aino Ruohola

NIH **Cost-effectiveness of Family-Based Obesity Treatment** 22

- This study provides novel cost-effectiveness data to the published efficacy data on the treatment of youngchildren with overweight and their parents in the pediatrician's office.

Teresa Quattrin, Ying Cao, Rocco A. Paluch, James N. Roemmich, Michelle A. Ecker, Leonard H. Epstein

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.

Stay Connected

AAP Gateway

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™

PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

contents

ARTICLES *(continued)*

Tracking of BMI *z* Scores for Severe Obesity 25

- We explored the longitudinal tracking of BMI *z* scores among children with severe obesity in the Bogalusa Heart Study.

David S. Freedman, Gerald S. Berenson

Sleep Duration and Risk of Type 2 Diabetes 28

- In this study of 4525 children, a 1-hour-longer sleep duration was associated with lower levels of adiposity, insulin resistance, and fasting glucose.

Alicja R. Rudnicka, Claire M. Nightingale, Angela S. Donin, Naveed Sattar, Derek G. Cook, Peter H. Whincup, Christopher G. Owen

Early Probiotic Supplementation for Eczema and Asthma Prevention: A Randomized Controlled Trial 32

- In this randomized controlled trial, we examined the effect of early LGG infant supplementation in decreasing the risk of childhood eczema.

Michael D. Cabana, Michelle McKean, Aaron B. Caughey, Lawrence Fong, Susan Lynch, Angela Wong, Russell Leong, Homer A. Boushey, Joan F. Hilton

Medicaid Managed Care Structures and Care Coordination 33

- This article evaluates the association between MMC structure and measures of care coordination in children.

Douglas H. Gilchrist-Scott, James A. Feinstein, Rishi Agrawal

Health Care Expenditures and Utilization for Children With Noncomplex Chronic Disease 36

- Health care expenditures and use attributed to children vary with illness severity and chronicity. We describe health care expenditures and use for children with NC-CDs.

Erik R. Hoefgen, Annie L. Andrews, Troy Richardson, Matthew Hall, John M. Neff, Michelle L. Macy, Jessica L. Bettenhausen, Samir S. Shah, Katherine A. Auger

Characteristics of Children Enrolled in Medicaid With High-Frequency Emergency Department Use 37

- We describe trends in pediatric ED use and identify characteristics of Medicaid-insured children who experience high-frequency ED use over 3 consecutive years.

Alon Peltz, Margaret E. Samuels-Kalow, Jonathan Rodean, Matthew Hall, Elizabeth R. Alpern, Paul L. Aronson, Jay G. Berry, Kathy N. Shaw, Rustin B. Morse, Stephen B. Freedman, Eyal Cohen, Harold K. Simon, Samir S. Shah, Yiannis Katsogridakis, Mark I. Neuman

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= **supplement**

= **data file/supplementary information available online**

= **podcast available online**

= **video available online**

= **free access online**

= **funded by NIH**

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

PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

contents

ARTICLES *(continued)*

High-Expenditure Pharmaceutical Use Among Children in Medicaid 38

- What are the high-expenditure outpatient medications used by Medicaid enrollees, and what are the characteristics of the users of these drugs?

Eyal Cohen, Matt Hall, Ruth Lopert, Brian Bruen, Lisa J. Chamberlain, Naomi Bardach, Jennifer Gedney, Bonnie T. Zima, Jay G. Berry

Vaccine Education During Pregnancy and Timeliness of Infant Immunization 39

- We identify pregnant women's sources of immunization information and determine the associations of receiving encouraging or discouraging information with their infants' immunization timeliness.

Priya Veerasingam, Cameron C. Grant, Carol Chelimo, Kathryn Philipson, Catherine A. Gilchrist, Sarah Berry, Polly Atatoa Carr, Carlos A. Camargo Jr, Susan Morton

Vaccine-Preventable Diseases Requiring Hospitalization 40

- Through a retrospective chart review, this study determined the incidence of VPDs in central-Pennsylvania Amish, Mennonite, and non-Plain children requiring hospitalization.

Gregory Williamson, Bilaal Ahmed, Parvathi S. Kumar, Barbara E. Ostrov, Jessica E. Ericson

Trends in Antibiotic Use by Birth Season and Birth Year 41

- By using linked nationwide registry data from Denmark, we characterize the impacts of birth season and birth year on patterns of antibiotic prescribing during infancy.

Alan C. Kinlaw, Til Stürmer, Jennifer L. Lund, Lars Pedersen, Michael D. Kappelman, Julie L. Daniels, Trine Frøslev, Christina D. Mack, Henrik Toft Sørensen

Racial/Ethnic Disparity in NICU Quality of Care Delivery 45

- By using the Baby-MONITOR, a composite indicator of NICU quality, the authors of this study examined racial and/or ethnic disparities.

Jochen Profit, Jeffrey B. Gould, Mihoko Bennett, Benjamin A. Goldstein, David Draper, Ciaran S. Phibbs, Henry C. Lee

Executive Function and Academic Outcomes in Children Who Were Extremely Preterm 48

- EF stability from 8 to 18 years of age was identified in children born EP, which was related to academic outcomes.

Danielle S. Costa, Débora M. Miranda, Alice C. Burnett, Lex W. Doyle, Jeanie L.Y. Cheong, Peter J. Anderson, on behalf of the Victorian Infant Collaborative Study Group

Very Preterm Birth and Parents' Quality of Life 27 Years Later 49

- We find that VP birth does not lower parents' quality of life in the long-term.

Dieter Wolke, Nicole Baumann, Barbara Busch, Peter Bartmann

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= **supplement**

= **data file/supplementary information available online**

= **podcast available online**

= **video available online**

= **free access online**

= **funded by NIH**

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

PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

contents

ARTICLES *(continued)*

Age at Intervention for Permanent Hearing Loss and 5-Year Language Outcomes 50

- The benefit of early age at intervention for language development of children with PCHL increases with the degree of hearing loss.

Teresa Y.C. Ching, Harvey Dillon, Laura Button, Mark Seeto, Patricia Van Buynder, Vivienne Marnane, Linda Cupples, Greg Leigh

Utility of Blood Culture Among Children Hospitalized With Community-Acquired Pneumonia 51

- In this study, we evaluated the yield of blood cultures among >7500 children hospitalized with CAP at 6 US children's hospitals.

Mark I. Neuman, Matthew Hall, Susan C. Lipsett, Adam L. Hersh, Derek J. Williams, Jeffrey S. Gerber, Thomas V. Brogan, Anne J. Blaschke, Carlos G. Grijalva, Kavita Parikh, Lilliam Ambroggio, Samir S. Shah, for the Pediatric Research in Inpatient Settings Network

Reliability of Examination Findings in Suspected Community-Acquired Pneumonia 52

- In this prospective cohort study, we found only fair to moderate IRR of the majority of examination findings used to diagnose CAP in children.

Todd A. Florin, Lilliam Ambroggio, Cole Brokamp, Mantosh S. Rattan, Eric J. Crotty, Andrea Kachelmeyer, Richard M. Ruddy, Samir S. Shah

Use of a Smartphone App to Assess Neonatal Jaundice 53

- The accuracy of a new technology based on the analysis of digital images obtained by using a smartphone app in estimating bilirubin levels in newborns is assessed.

James A. Taylor, James W. Stout, Lilian de Greef, Mayank Goel, Shwetak Patel, Esther K. Chung, Aruna Koduri, Shawn McMahon, Jane Dickerson, Elizabeth A. Simpson, Eric C. Larson

Factors Associated With Choice of Infant Sleep Position 54

- Placing infants supine for sleep is crucial to decreasing deaths. In this article, we report choices mothers make when deciding how to position infants for sleep.

Eve R. Colson, Nicole L. Geller, Timothy Heeren, Michael J. Corwin

Educational Progress of Looked-After Children in England: A Study Using Group Trajectory Analysis 58

- An investigation using group trajectory analysis of care environment and other factors affecting the educational progress of looked-after children in England.

Alastair G. Sutcliffe, Julian Gardiner, Edward Melhuish

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= supplement

= data file/supplementary information available online

= podcast available online

= video available online

= free access online

= funded by NIH

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

PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

contents

COMMENTARIES

FREE **Acute Otitis Media in the 21st Century: What Now?** 19
Richard C. Wasserman, Jeffrey S. Gerber

Cost-effectiveness of Obesity Interventions: Will We Know It When We See It? 23
Eric A. Finkelstein

Time to Adopt New Measures of Severe Obesity in Children and Adolescents 26
William H. Dietz

Weighing the Causal Evidence That Associates Short Sleep Duration With Obesity 29
Nicole Glaser, Dennis Styne

Incentivizing Care Coordination in Managed Care 34
Paul J. Chung, Carlos F. Lerner

FREE **Vaccines and Outpatient Antibiotic Stewardship** 42
Adam L. Hersh, Katherine E. Fleming-Dutra

FREE **Health Equity and Quality of Care Assessment: A Continuing Challenge** 46
Scott A. Lorch

FREE **Improvements in Infant Sleep Position: We Can Do Better!** 55
Michael H. Goodstein, Barbara M. Ostfeld

FREE **Adverse Events Following Immunization: Will It Happen Again?** 60
Sean T. O'Leary, Yvonne A. Maldonado

FROM THE AMERICAN ACADEMY OF PEDIATRICS

Policy Statement
FREE **Principles of Child Health Care Financing** 79
Mark L. Hudak, Mark E. Helm, Patience H. White, Committee on Child Health Financing

Policy Statement
FREE **Age Limit of Pediatrics** 87
Amy Peykoff Hardin, Jesse M. Hackell, Committee on Practice and Ambulatory Medicine

Policy Statement
FREE **Options Counseling for the Pregnant Adolescent Patient** 90
Laurie L. Hornberger, Committee on Adolescence

Clinical Report
FREE **Diagnosis of Pregnancy and Providing Options Counseling for the Adolescent Patient** 95
Laurie L. Hornberger, Committee on Adolescence

Policy Statement
FREE **Elimination of Perinatal Hepatitis B: Providing the First Vaccine Dose Within 24 Hours of Birth** 104
Committee on Infectious Diseases, Committee on Fetus and Newborn

Policy Statement
FREE **Guidance on Forgoing Life-Sustaining Medical Treatment** 109
Kathryn L. Weise, Alexander L. Okun, Brian S. Carter, Cindy W. Christian, Committee on Bioethics, Section on Hospice and Palliative Medicine, Committee on Child Abuse and Neglect

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= **supplement**

= **data file/supplementary information available online**

= **podcast available online**

= **video available online**

FREE = **free access online**

NIH = **funded by NIH**

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

PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

contents

FROM THE AMERICAN ACADEMY OF PEDIATRICS *(continued)*

Policy Statement
FREE **Early Childhood Home Visiting** 118
James H. Duffee, Alan L. Mendelsohn, Alice A. Kuo, Lori A. Legano, Marian F. Earls, Council on Community Pediatrics, Council on Early Childhood, Committee on Child Abuse and Neglect

Clinical Practice Guideline
FREE **Clinical Practice Guideline for Screening and Management of High Blood Pressure in Children and Adolescents** 119
Joseph T. Flynn, David C. Kaelber, Carissa M. Baker-Smith, Douglas Blowey, Aaron E. Carroll, Stephen R. Daniels, Sarah D. de Ferranti, Janis M. Dionne, Bonita Falkner, Susan K. Flinn, Samuel S. Gidding, Celeste Goodwin, 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 Blood Pressure In Children

Clinical Report
FREE **Promotion of Healthy Weight-Control Practices in Young Athletes** 120
Rebecca L. Carl, Miriam D. Johnson, Thomas J. Martin, Council on Sports Medicine and Fitness

Clinical Report
FREE **Pediatric Integrative Medicine** 133
Hilary McClafferty, Sunita Vohra, Michelle Bailey, Melanie Brown, Anna Esparham, Dana Gerstbacher, Brenda Golianu, Anna-Kaisa Niemi, Erica Sibinga, Joy Weydert, Section on Integrative Medicine

Statement of Endorsement
FREE **Antenatal Corticosteroid Therapy for Fetal Maturation** 134

PEDIATRICS PERSPECTIVES

Repeal of the Affordable Care Act Will Negatively Impact Children at End of Life 1
Jessica Keim-Malpass, Lisa C. Lindley

Is Shared Decision-making the Right Approach for Febrile Infants? 4
Paul L. Aronson, Liana Fraenkel

The Care Continuum: An Evolving Model for Care and Research in Rare Diseases 7
Erika F. Augustine, E. Ray Dorsey, Peter L. Saltonstall

FAMILY PARTNERSHIPS

Patient and Researcher Engagement in Health Research: A Parent's Perspective 10
Israel Amirav, Virginia Vandall-Walker, Jananee Rasiah, Laura Saunders

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= supplement

= data file/supplementary information available online

= podcast available online

= video available online

FREE **= free access online**

NIH **= funded by NIH**

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

PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

contents

MONTHLY FEATURE

Trainee Involvement in Advancing Pediatric Shared Decision-making 14

Christopher E. Gaw

REVIEW ARTICLES—Online only at www.pediatrics.org

Risk of Recurrence of Adverse Events Following Immunization: A Systematic Review 59

- This systematic review presents the risk of recurrence of AEFIs in patients who receive subsequent doses of vaccine.

Joseline Guetsop Zafack, Gaston De Serres, Marilou Kiely, Marie-Claude Gariépy, Isabelle Rouleau, Karina Anne-Marie Top, for the Canadian Immunization Research Network

Parent Coping Support Interventions During Acute Pediatric Hospitalizations: A Meta-Analysis 62

- In this systematic literature review, we found evidence that parents of hospitalized children who received coping support interventions had better emotional well-being.

Stephanie K. Doupnik, Douglas Hill, Deepak Palakshappa, Diana Worsley, Hanah Bae, Aleesha Shaik, Maylene (Kefeng) Qiu, Meghan Marsac, Chris Feudtner

Parent-Child Interaction Therapy: A Meta-analysis 63

- Meta-analyses from PCIT studies reveal that robust positive outcomes and content modification may not be necessary for diverse populations.

Rae Thomas, Bridget Abell, Haley J. Webb, Elbina Avdagic, Melanie J. Zimmer-Gembeck

STATE-OF-THE-ART REVIEW ARTICLE—Online only at www.pediatrics.org

The Immune System in Pediatric Seizures and Epilepsies 64

- This review article presents current knowledge of the role of immunity in relation to seizures, with a particular emphasis on clinical data available in childhood.

Christian M. Korff, Russell C. Dale

DIAGNOSTIC DILEMMAS

Bloody Stools in a 3-Day-Old Term Infant 72

- A 3-day-old male is referred to you for evaluation of bloody stools. What do you do when your history and examination do not match?

Amelia Bray-Aschenbrenner, L. Richard Feldenberg, Amelia Kirby, Colleen M. Fitzpatrick, Justin B. Josephsen

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= **supplement**

= **data file/supplementary information available online**

= **podcast available online**

= **video available online**

= **free access online**

= **funded by NIH**

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

PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

contents

SPECIAL ARTICLE—Online only at www.pediatrics.org

Methodological and Ethical Issues in Pediatric Medication Safety Research 65

- This executive summary describes current challenges to conducting pediatric medication safety research and highlights state-of-the-art methodologies to overcome these challenges.

Delesha Carpenter, Daniel Gonzalez, George Retsch-Bogart, Betsy Sleath, Benjamin Wilfond

ETHICS ROUNDS

Physician-Nurse Interactions in Critical Care 66

- When a nurse questions a doctors' care plan, ethical issues arise regarding role-specific duties and obligations.

Sumaira Khowaja-Punjwani, Charlotte Smardo, Monica Rita Hendricks, John D. Lantos

QUALITY REPORTS—Online only at www.pediatrics.org

Children's Hospitals' Solutions for Patient Safety Collaborative Impact on Hospital-Acquired Harm 70

- An improvement collaborative of multiple children's hospitals focused on how process improvement and safety culture impact HACs and SSEs.

Anne Lyren, Richard J. Brilli, Karen Zieker, Miguel Marino, Stephen Muething, Paul J. Sharek

Quality Improvement Strategies for Population Management of Children With Medical Complexity 71

- We employed QI methodologies to identify the needs of children with medical complexity, reliably deliver appropriate preventive and chronic care, and implement PVP.

Jennifer Lail, Elise Fields, Pamela J. Schoettker

CASE REPORTS—Online only at www.pediatrics.org

Septic Episodes in a Premature Infant After In Utero Exposure to Rituximab

- This case report suggests a clinically significant immunocompromised state subsequent to in utero exposure to rituximab in a preterm infant with 2 episodes of sepsis.

Susanne Hay, Sandra Burchett, Oreofe Odejide, Sule Cataltepe

Meningococcal B Vaccine Failure With a Penicillin-Resistant Strain in a Young Adult on Long-Term Eculizumab

- IMD due to a vaccine-preventable and penicillin-resistant strain in a fully-immunized young adult on long-term complement inhibitor therapy and daily penicillin chemoprophylaxis.

Sydel R. Parikh, Jay Lucidarme, Coralie Bingham, Paul Warwicker, Tim Goodship, Ray Borrow, Shamez N. Ladhani

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= supplement

= data file/supplementary information available online

= podcast available online

= video available online

= free access online

= funded by NIH

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

PEDIATRICS®

SEPTEMBER 2017 • VOLUME 140 • NUMBER 3

contents

CASE REPORTS—Online only at www.pediatrics.org *(continued)*

A Sweet Case of *Mycoplasma*

- This case report describes the first pediatric case of febrile neutrophilic dermatosis, or Sweet syndrome, that is associated with Mycoplasma infection.

Jackie Hsieh, Yalcindag, Daniel T. Coghlin

Unusual Father-to-Daughter Transmission of Incontinentia Pigmenti Due to Mosaicism in IP Males

- This study demonstrates that IP father-to-daughter-transmission is due to somatic/germ-line mosaicism identified through the skin/germ-line of an IP male.

Francesca Fusco, Matilde Immacolata Conte, Andrea Diociauti, Stefania Bigoni, Maria Francesca Branda, Alessandra Ferlini, Maya El Hachem, Matilde Valeria Ursini

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

Letters to the Editor

Errata

icon legend

Most of the articles in *PEDIATRICS* have more content available online at www.pediatrics.org.

= **supplement**

= **data file/supplementary information available online**

= **podcast available online**

= **video available online**

= **free access online**

= **funded by NIH**