

The JOURNAL of PEDIATRICS

February 2021 • Volume 229

Copyright © 2021 by Elsevier Inc.

The Editors' Perspectives

This Month in <i>The Journal of Pediatrics</i>	1
--	---

Special Communication

The Nimbleness and Resource Costs of Expedited Review and Concerns of Duplicate Publication: SARS-CoV-2 Manuscripts Submitted to *The Journal of Pediatrics*

Sarah S. Long, MD, Thomas R. Welch, MD, Rebecca Pellett Madan, MD, MS, Meghan McDevitt, BA, and William F. Balistreri, MD	5
---	---

Notes from the Association of Medical School Pediatric Department Chairs, Inc.

One Size Does Not Fit All: Implementation of an Equitable and Inclusive Strategic Response to Address Needs of Pediatric Resident Physicians during the Coronavirus Disease 2019 (COVID-19) Crisis

Marcella Luercio, MD, Valerie L. Ward, MD, MPH, Theodore C. Sectish, MD, Camila M. Mateo, MD, MPH, and Catherine D. Michelson, MD, MMSc.....	8
--	---

Editorials

Cancer in Children with Inflammatory Bowel Disease: Are We Making a Difference?

M. Ellen Kuenzig, PhD, and Eric I. Benchimol, MD, PhD.....	11
--	----

Prolonged Ductal Patency in Preterm Infants: Does It Matter?

William E. Benitz, MD, and Valerie Y. Chock, MD, MSc.....	12
---	----

Infant Growth After Maternal Dietary Supplementation Before and During Pregnancy

Per Ashorn, MD, PhD.....	14
--------------------------	----

Improving Advance Care Planning for Seriously Ill Children: Engaging a Diverse Research Population Early and Often

Carolyn C. Foster, MD, MSHS, and Erin T. Paquette, MD, JD, MBe.....	16
---	----

 – contains additional content that can be found at www.jpeds.com

Medical Progress

Seizure Rescue Medications for Out-Of-Hospital Use in Children

Erin M. Fedak Romanowski, DO, Nancy A. McNamara, MD, Erin E. Neil, DO, Rachel Gottlieb-Smith, MD, and Louis T. Dang, MD, PhD..... 19

Original Articles

Discriminating Multisystem Inflammatory Syndrome in Children Requiring Treatment from Common Febrile Conditions in Outpatient Settings

Rebecca F. Carlin, MD, Avital M. Fischer, MD, Zachary Pitkowski, BA, Dori Abel, MD, Taylor B. Sewell, MD, MBA, Erika Grun Landau, MD, MS, Steve Caddle, MD, MPH, Laura Robbins-Milne, MD, Alexis Boneparth, MD, Josh D. Milner, MD, Eva W. Cheung, MD, Philip Zachariah, MD, MS, Melissa S. Stockwell, MD, MPH, Brett R. Anderson, MD, MBA, MS, and Mark Gorelik, MD..... 26

50 Years Ago in *The Journal of Pediatrics* – Diagnostic Utility of the Newborn Electrocardiogram

Anne Lee Solevåg, MD, PhD, and Ola Didrik Saugstad, MD, PhD..... 32

Multisystem Inflammatory Syndrome in Children: Survey of Protocols for Early Hospital Evaluation and Management

Matthew L. Dove, MD, Preeti Jaggi, MD, Michael Kelleman, MSPH, Mayssa Abuali, MD, Jocelyn Y. Ang, MD, Wassim Ballan, MD, Sanmit K. Basu, MD, M. Jay Campbell, MD, Sathish M. Chikkabyrappa, MD, Nadine F. Choueiter, MD, Katharine N. Clouser, MD, Daniel Corwin, MD, MSCE, Amy Edwards, MD, FAAP, Shira J. Gertz, MD, Rod Ghassemzadeh, MD, Rima J. Jarrah, MD, Sophie E. Katz, MD, MPH, Stacie M. Knutson, MD, Joseph D. Kuebler, MD, Jennifer Lighter, MD, Christine Mikesell, MD, Kanokporn Mongkolrattanothai, MD, Ted Morton, PharmD, Natasha A. Nakra, MD, Rosemary Olivero, MD, Christina M. Osborne, MD, Laurie E. Panesar, MD, Sarah Parsons, PharmD, BCPPS, Rupal M. Patel, PharmD, Jennifer Schuette, MD, MS, Deepika Thacker, MD, Adriana H. Tremoulet, MD, MAS, Navjyot K. Vidwan, MD, MPH, and Matthew E. Oster, MD, MPH..... 33

50 Years Ago in *The Journal of Pediatrics* – Arteriovenous Fistulas after Renal Biopsies: Have We Silenced the Bruit?

Benjamin Steinman, DO, and Beatrice Goilav, MD..... 40

Comparison of Clinical and Epidemiologic Characteristics of Young Febrile Infants with and without Severe Acute Respiratory Syndrome Coronavirus-2 Infection

Jill Leibowitz, MD, William Krief, MD, Stephen Barone, MD, Kristy A. Williamson, MD, Pratchi K. Goenka, MD, Shipra Rai, MD, MPH, Shannon Moriarty, DO MS, Prachi Baodhankar, MD, and Lorry G. Rubin, MD..... 41

Temporal Clusters of Kawasaki Disease Cases Share Distinct Phenotypes That Suggest Response to Diverse Triggers

Jane C. Burns, MD, Laurel L. DeHaan, MS, Chisato Shimizu, MD, Emelia V. Bainto, BA, Adriana H. Tremoulet, MD, MAS, Daniel R. Cayan, PhD, and Jennifer A. Burney, PhD..... 48

Kawasaki Disease and Clinical Outcome Disparities Among Black Children

Luz A. Padilla, MD, Jacqueline L. Collins, MD, Adeniyi J. Idigo, MPH, Yung Lau, MD, Michael A. Portman, MD, and Sadeep Shrestha, PhD..... 54

Normative Values for Cardiopulmonary Exercise Stress Testing Using Ramp Cycle Ergometry in Children and Adolescents

Danielle S. Burstein, MD, Michael G. McBride, PhD, Jungwon Min, PhD, Alexander A. Paridon, MD, Sarah Perelman, BS, Erika M. Huffman, MS, Shannon O'Malley, MS, Julia Del Grosso, MS, Herman Groepenhoff, PhD, Stephen M. Paridon, MD, and Julie A. Brothers, MD..... 61

50 Years Ago in *The Journal of Pediatrics* – Hepatopulmonary Syndrome: Transplantation Is the Big Difference

Runar Almaas, MD, PhD, and Ola Didrik Saugstad, MD, PhD..... 69

Children with Heterozygous Familial Hypercholesterolemia in the United States: Data from the Cascade Screening for Awareness and Detection-FH Registry

Sarah D. de Ferranti, MD, MPH, Peter Shrader, MA, MacRae F. Linton, MD, Joshua W. Knowles, MD, PhD, Lisa C. Hudgins, MD, Irwin Benuck, MD, PhD, Iris Kindt, MD, MPH, Emily C. O'Brien, PhD, Amy L. Peterson, MD, Zahid S. Ahmad, MD, Sarah Clauss, MD, P. Barton Duell, MD, Michael D. Shapiro, MD, Katherine Wilemon, BS, Samuel S. Gidding, MD, and William Neal, MD 70

50 Years Ago in *The Journal of Pediatrics* – From Aspirin to Magnets: 50 Years of Pediatric Ingestions

Matthew C. Spence, MD, and Michael D. Cabana, MD, MPH 77

Pretransplantation and Post-Transplantation Liver Disease Assessment in Adolescents Undergoing Isolated Heart Transplantation for Fontan Failure

Dellys Soler Rodriguez, MD, Chad Mao, MD, William T. Mahle, MD, Kirk R. Kanter, MD, Adina Alazraki, MD, Kiery Braithwaite, MD, Heather Rytting, MD, Shelley Caltharp, MD, Joseph F. Magliocca, MD, and René Romero, MD 78

Outcomes in Patients with Alagille Syndrome and Complex Pulmonary Artery Disease

Roger Luong, BS, Jeffrey A. Feinstein, MD, Michael Ma, MD, Noelle H. Ebel, MD, Lisa Wise-Faberowski, MD, Yulin Zhang, PhD, Lynn F. Peng, MD, Vamsi V. Yarlagadda, MD, Jennifer Shek, NP, Frank L. Hanley, MD, and Doff B. McElhinney, MD 86

50 Years Ago in *The Journal of Pediatrics* – 50 Years Ago Today: The Expanding Phenotype of Larsen Syndrome

Philip F. Giampietro, MD, PhD 94

Autoimmune Hepatitis: Predictors of Native Liver Survival in Children and Adolescents

Gilda Porta, MD, PhD, Elisa de Carvalho, MD, PhD, Jorge L. Santos, MD, PhD, Jorge Gama, PhD, and Jorge A. Bezerra, MD, Brazilian Group for the Study of Pediatric Liver Diseases 95

Risk of Cancers in Patients with Pediatric Inflammatory Bowel Diseases: A Systematic Review and Meta-Analysis

Yuga Komaki, MD, PhD, Fukiko Komaki, MD, Akihiro Yamada, MD, PhD, Dejan Micic, MD, Akio Ido, MD, PhD, and Atsushi Sakuraba, MD, PhD 102

50 Years Ago in *The Journal of Pediatrics* – Diagnosis of Coagulation Defects in Reye Syndrome

Anjali Gupta, MD, and E. Vincent S. Faustino, MD, MHS 117

Development and Assessment of a Pictographic Pediatric Constipation Action Plan

Patrick T. Reeves, MD, Nathan T. Kolasinski, MD, H. Shonna Yin, MD, Waleed Alqurashi, MD, Sofia Echelmeyer, BFA, Bruno P. Chumpitazi, MD, Philip L. Rogers, MD, Carolyn Sullivan Burklow, MD, and Cade M. Nylund, MD 118

A Pilot Randomized Controlled Trial of Early Targeted Patent Ductus Arteriosus Treatment Using a Risk Based Severity Score (The PDA RCT)

Afif EL-Khuffash, MD, Neidín Bussmann, MB, Colm R. Breatnach, PhD, Aisling Smith, MB, Elizabeth Tully, PhD, Joanna Griffin, PhD, Naomi McCallion, MD, John David Corcoran, MD, Elena Fernandez, MSc, Claudia Looi, BSc, Brian Cleary, PhD, Orla Franklin, MRCPCH, and Patrick J. McNamara, MD 127

50 Years Ago in *The Journal of Pediatrics* – Oral rehydration solution in children with cholera: proof of an important concept for child health

Christopher P. Duggan, MD, MPH, and Richard A. Cash, MD, MPH 133

Survival and Developmental Outcomes of Neonates Treated with Extracorporeal Membrane Oxygenation: A 10-Year Single-Center Experience

Faith Kim, MD, Judy Bernbaum, MD, James Connelly, BS, RRT-NPS, Marsha Gerdes, PhD, Holly L. Hedrick, MD, Casey Hoffman, PhD, Natalie E. Rintoul, MD, Kristina Ziolkowski, CMA (AAMA), and Sara B. DeMauro, MD, MSCE 134

Outcomes after Introduction of Minimally Invasive Surfactant Therapy in Two Australian Tertiary Neonatal Units

Calum T. Roberts, PhD, Ikhwan Halibullah, MB BS, Risha Bhatia, PhD, Elys A. Green, MB BS, C. Omar F. Kamlin, MD, Peter G. Davis, MD, and Brett J. Manley, PhD 141

Epidemiology of Surgical Procedures, Anesthesia, and Imaging Studies by Gestational Age during the First Year of Life in Medicaid-Insured Infants

Andreas H. Taenzer, MD, MS, Reto M. Baertschiger, MD, PhD, Cecilia Ganduglia Cazaban, MD, DrPH, Rebecca E. Evans, MD, MS, Megan Murphy, MS, SM, Jared Wasserman, MS, and David C. Goodman, MD, MS 147

Development and Validation of a Model to Predict Neonatal Abstinence Syndrome

Stephen W. Patrick, MD, MPH, MSc, James C. Slaughter, DrPH, Frank E. Harrell, Jr., PhD, Peter R. Martin, MD, MSc, Katherine Hartmann, MD, PhD, Judith Dudley, BS, Shannon Stratton, BS, and William O. Cooper, MD, MPH..... 154

Costs of Neonatal Intensive Care for Canadian Infants with Preterm Birth

Juan D. Rios, MA, Prakesh S. Shah, MD, FRCPC, MSc, Marc Beltempo, MD, FRCPC, MSc, Deepak Louis, MD, Amit Mukerji, MD, MSc, Shahirose Premji, PhD, Vibhuti Shah, MD, FRCPC, MSc, Shoo K. Lee, MBBS, PhD, and Petros Pechlivanoglou, PhD, on behalf of the Canadian Preterm Birth Network Investigators, the Canadian Neonatal Network Investigators..... 161

Congenital Heart Defects and the Risk of Spontaneous Preterm Birth

Niels B. Matthiesen, MD, PhD, John R. Østergaard, MD, DMSc, Vibeke E. Hjortdal, MD, PhD, DMSc, and Tine B. Henriksen, MD, PhD 168

Improvement in the Prediction of Neonatal Hypoxic-Ischemic Encephalopathy with the Integration of Umbilical Cord Metabolites and Current Clinical Makers

Daragh S. O'Boyle, MSc, Warwick B. Dunn, PhD, Donna O'Neill, PhD, Jennifer A. Kirwan, PhD, David I. Broadhurst, PhD, Boubou Hallberg, MD, PhD, Geraldine B. Boylan, MD, PhD, and Deirdre M. Murray, MD, PhD 175

Outcomes of Infants with Very Low Birth Weight Associated with Birthplace Difference: A Retrospective Cohort Study of Births in Japan and California

Satoshi Kusuda, MD, Mihoko Bennett, PhD, and Jeffrey Gould, MD, on behalf of the Neonatal Research Network of Japan and the California Perinatal Quality Care Collaborative 182

50 Years Ago in *The Journal of Pediatrics* – Combating Varicella Through Drugs and Vaccination

Peter Paul Lim, MD, and Philip Toltzis, MD 190

Longitudinal B-Type Natriuretic Peptide Levels Predict Outcome in Infants with Congenital Diaphragmatic Hernia

Elyssa Guslits, MD, Martina A. Steurer, MD, MAS, Hythem Nawaytou, MD, and Roberta L. Keller, MD 191

Growth from Birth Through Six Months for Infants of Mothers in the “Women First” Preconception Maternal Nutrition Trial

Nancy F. Krebs, MD, K. Michael Hambidge, MD, Jamie L. Westcott, MS, Ana L. Garcés, MD, Lester Figueroa, MD, Antoinette K. Tsefu, MD, Adrien L. Lokangaka, MD, Shivaprasad S. Goudar, MD, Sangappa M. Dhaded, MD, Sarah Saleem, MD, Sumera Aziz Ali, MD, Carl L. Bose, MD, Richard J. Derman, MD, Robert L. Goldenberg, MD, Vanessa R. Thorsten, MPH, Amaanti Sridhar, MS, Dhuly Chowdhury, MS, MBA, and Abhik Das, PhD, the Women First Preconception Maternal Nutrition Study Group 199

Antibiotic Choice and Clinical Outcomes in Ambulatory Children with Community-Acquired Pneumonia

Susan C. Lipsett, MD, Matthew Hall, PhD, Lilliam Ambroggio, PhD, MPH, Adam L. Hersh, MD, Samir S. Shah, MD, MSCE, Thomas V. Brogan, MD, Jeffrey S. Gerber, MD, PhD, Derek J. Williams, MD MPH, Carlos G. Grijalva, MD, MPH, Anne J. Blaschke, MD, PhD, and Mark I. Neuman, MD, MPH 207

Year-Round, Routine Testing of Multiple Body Site Specimens for Human Parechovirus in Young Febrile Infants

Cristina Tomatis Souverbielle, MD, Huanyu Wang, PhD, John Feister, MD, Jason Campbell, MS, MD, Alexandra Medoro, MD, Asuncion Mejias, MD, PhD, Octavio Ramilo, MD, Domenico Pietropaolo, MD, Douglas Salamon, BS, Amy Leber, PhD, and Guliz Erdem, MD 216

50 Years Ago in *The Journal of Pediatrics* – Does One Size Fit All? High-Value Care For Learning and Developmental Concerns

Britany Weissman, MD, and Jennifer Accardo, MD, MSCE 222

Family Experiences Deciding For and Against Pediatric Home Ventilation

Renee D. Boss, MD, MHS, Carrie M. Henderson, MD, Jessica C. Raisanen, MSPH, Nicholas A. Jabre, MD, MS, Kelly Shipman, MS, and Benjamin S. Wilfond, MD 223

**A Battery of Easily Accessible, Simple Tools for the Assessment of Concussion in Children **

William D. Brown, MD, Janette Baird, PhD, and Peter K. Kriz, MD 232

**Hospitalization Outcomes for Rural Children with Mental Health Conditions **

Jessica L. Bettenhausen, MD, Matt Hall, PhD, Stephanie K. Doupnik, MD, MSHP, Jessica L. Markham, MD, MSc, James A. Feinstein, MD, MPH, Jay G. Berry, MD, MPH, and James C. Gay, MD, MMHC 240

**Development of a Stakeholder Driven Serious Illness Communication Program for Advance Care Planning in Children, Adolescents, and Young Adults with Serious Illness **

Danielle D. DeCoursey, MD, MPH, Lindsay Partin, BS, Anna Revette, PhD, Rachelle Bernacki, MD, MS, and Joanne Wolfe, MD, MPH 247

Disability, Hospital Care, and Cost: Utilization of Emergency and Inpatient Care by a Cohort of Children with Intellectual and Developmental Disabilities

Scott Lindgren, PhD, Emily Lauer, MPH, Elizabeth Momany, PhD, Tara Cope, MS, Julie Royer, MSPH, Lindsay Cogan, PhD, Suzanne McDermott, PhD, and Brian S. Armour, PhD 259

**Hemophagocytic Lymphohistiocytosis Associated with Histiocytic Necrotizing Lymphadenitis: A Clinical Study of 13 Children and Literature Review **

Ying Yang, MD, Hongyun Lian, MD, Honghao Ma, MD, Yunze Zhao, PhD, Qing Zhang, PhD, Li Zhang, MD, Tianyou Wang, MD, Zhigang Li, PhD, and Rui Zhang, MD 267

Commentary**Practical School Algorithms for Symptomatic or SARS-CoV-2-Exposed Students Are Essential for Returning Children to In-Person Learning**

Rachel C. Orscheln, MD, Jason G. Newland, MD, and David A. Rosen, MD, PhD 275

An Evidence-Based Ethical Approach to Parental Refusal of Screening Tests: The Case of Asymptomatic Neonatal Hypoglycemia

Samantha J. Palmaccio, MD, Alexis L. Rodriguez, MD, Matthew J. Drago, MD, MBE, and Mark R. Mercurio, MD, MA 278

Brief Reports**Prolonged Tracheal Intubation and the Association Between Patent Ductus Arteriosus and Bronchopulmonary Dysplasia: A Secondary Analysis of the PDA-TOLERATE trial **

Ronald I. Clyman, MD, Joseph Kaempf, MD, Melissa Liebowitz, MD, Omer Erdeve, MD, Ali Bulbul, MD, Stellan Håkansson, MD, Johanna Lindqvist, MD, Aijaz Farooqi, MD, Anup Katheria, MD, Jason Sauberan, PharmD, Jaideep Singh, MD, Kelly Nelson, MD, Andrea Wickremasinghe, MD, Lawrence Dong, MD, Denise C. Hassinger, MD, Susan W. Aucott, MD, Madoka Hayashi, MD, Anne Marie Heuchan, MD, William A. Carey, MD, Matthew Derrick, MD, Erika Fernandez, MD, Meera Sankar, MD, Tina Leone, MD, Jorge Perez, MD, and Arturo Serize, PA, the PDA-TOLERATE Trial Investigators 283

**Trajectories in Neurodevelopmental, Health-Related Quality of Life, and Functional Status Outcomes by Socioeconomic Status and Maternal Education in Children with Single Ventricle Heart Disease **

Emily M. Bucholz, MD, PhD, MPH, Lynn A. Sleeper, ScD, Renee Sananes, PhD, CPsych, Cheryl L. Brosig, PhD, Caren S. Goldberg, MD, MS, Sara K. Pasquali, MD, MPH, and Jane W. Newburger, MD, MPH 289

**Routine Early Antibiotic Use in Symptomatic Preterm Neonates: A Pilot Randomized Controlled Trial **

J. Lauren Ruoss, MD, Catalina Bazaciu, MD, Jordan T. Russell, BS, Diomel de la Cruz, MD, Nan Li, MD, Matthew J. Gurka, PhD, Stephanie L. Filipp, MPH, Richard A. Polin, MD, Eric W. Triplett, PhD, and Josef Neu, MD 294

Rediscovering the Physical Exam

Bilateral Congenital Dislocation of the Knee

Tomohiro Hirade, PhD, Kousuke Katsube, MD, and Fumihide Kato, MD 299

Asymmetric Overgrowth and a Facial Port Wine Stain

Peter Seiringer, MD, Tilo Biedermann, MD, and Christina Schnopp, MD 300

Insights and Images

Mucopolipidosis II

Ranjit I. Kylat, MD 302

Cyst-Like: An Incongruent Chest Radiograph

Andrew Hallett, MRCPCH, Lena Uzunova, MRCPCH, and Lena Thia, MRCPCH 304

Unilateral Laterothoracic Exanthema

Francisco J. Navarro-Triviño, MD, Israel Pérez-López, MD, and Ricardo Ruiz-Villaverde, PhD 306

Osteochondrosis of Ischiopubic Synchronosis: Van Neck–Odelberg Disease

Nuran Sabir, MD, Pinar Çakmak, MD, Neslihan Yılmaz, MD, and Selçuk Yüksel, MD 307

Letters to the Editor

Optimizing Oxygenation of the Preterm Infant Directly at Birth: Focus of Future Studies

Janneke Dekker, PhD, Stuart B. Hooper, PhD, and Arjan B. te Pas, MD, PhD 309

Reply

Ola Didrik Saugstad, MD, PhD, FRCPE, Satyan Lakshminrusimha, MD, and Maximo Vento, MD, PhD 309

Clarification of aOR Calculation

Bharath Srivatsa, MD 310

Reply

Elizabeth E. Foglia, MD, MSCE, Benjamin Carper, MS, Marie Gantz, PhD, and Barbara Schmidt, MD, MSc 311

Do B-Type Natriuretic Peptide Levels Accurately Predict Outcome in Infants with Congenital Diaphragmatic Hernia?

Yongquan Tang, MD, and Yi Ji, MD, PhD 311

Reply

Elyssa Guslits, MD, Martina A. Steurer, MD, MAS, Hythem Nawaytou, MD, and Roberta L. Keller, MD 312

Coronavirus Disease 2019, Multisystem Inflammatory Syndrome in Children, Apolipoprotein E4, and Race

Mark R. Goldstein, MD, FACP, Gregory A. Poland, MD, MACP, FIDSA, FRCP (London), and Charles W. Graeber, MD 313

RNA is Not Virus

Gregory I. Sawchyn, MD, MBA 314

Reply

Lael M. Yonker, MD, and Alessio Fasano, MD 314

European Paediatric Association Pages**Ensuring Safe Food for Infants: The Importance of an Integrated Approach to Monitor and Reduce the Risks of Biological, Chemical, and Physical Hazards**

Massimo Pettoello-Mantovani, MD, PhD, Julije Mestrovic, MD, Leyla Namazova-Baranova, MD, PhD, Ida Giardino, MD,
Eli Somekh, MD, and Mehmet Vural, MD.....**315**