

The JOURNAL of PEDIATRICS


August 2020 • Volume 223

Copyright © 2020 by Elsevier Inc.

The Editors' Perspectives

This Month in *The Journal of Pediatrics* 1

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

Time Well Spent: Resident Promotion of Microcompetency-Based Medical Education During Inpatient Pediatric Experiences 

Laura Chiel, MD, Brian Hasselfeld, MD, Carolyn H. Marcus, MD, and Ariel S. Winn, MD 6

Editorials

Type 1 Diabetes and Celiac Disease: Can (and Should) We Raise the Cut-off of Tissue Transglutaminase Immunoglobulin A to Decide Whether to Biopsy?

Stefano Guandalini, MD 8


Neonatal Hypoglycemia: GLOW at the End of the Tunnel?

Diva D. De Leon, MD, and Charles A. Stanley, MD 10

Realizing the Improvement Potential of the Value in Inpatient Pediatrics Network

Sangeeta K. Schroeder, MD 12

Original Articles

Clinical Characteristics and Outcomes of Hospitalized and Critically Ill Children and Adolescents with Coronavirus Disease 2019 at a Tertiary Care Medical Center in New York City 

Jerry Y. Chao, MD, MSc, Kim R. Derespina, MD, Betsy C. Herold, MD, David L. Goldman, MD, Margaret Aldrich, MD, Jacqueline Weingarten, MD, Henry M. Ushay, MD, PhD, Michael D. Cabana, MD, MPH, and Shivanand S. Medar, MD 14

50 Years Ago in *The Journal of Pediatrics* – Type 1 Diabetes Mellitus and the Presence of Other Autoimmune Disease

Hilary H. Seeley, MD, and David M. Maahs, MD, PhD 19

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

Early Neonatal Oxygen Exposure Predicts Pulmonary Morbidity and Functional Deficits at 1 Year 	
Andrew M. Dylag, MD, Hannah G. Kopin, MPH, Michael A. O'Reilly, PhD, Hongyue Wang, PhD, Stephanie D. Davis, MD, Clement L. Ren, MD, and Gloria S. Pryhuber, MD	20
Relationships between Early Nutrition, Illness, and Later Outcomes among Infants Born Preterm with Hyperglycemia 	
Juan David Gonzalez Villamizar, MD, Jacob L. Haapala, MPH, Johannah M. Scheurer, MD, Raghavendra Rao, MD, and Sara E. Ramel, MD	29
Glucose Profiles in Healthy Term Infants in the First 5 Days: The Glucose in Well Babies (GLOW) Study 	
Deborah L. Harris, PhD, Philip J. Weston, MBChB, Greg D. Gamble, MSc, and Jane E. Harding, DPhil	34
Effects of Neonatal Hyperglycemia on Retinopathy of Prematurity and Visual Outcomes at 7 Years of Age: A Matched Cohort Study 	
Myra Leung, PhD, Joanna Black, PhD, Frank H. Bloomfield, PhD, Greg D. Gamble, MSc, Jane E. Harding, DPhil, Yannan Jiang, PhD, Tanya Poppe, PhD, Benjamin Thompson, PhD, Anna C. Tottman, PhD, Trecia A. Wouldes, PhD, and Jane M. Alsweiler, PhD, on behalf of the PIANO study group	42
50 Years Ago in <i>The Journal of Pediatrics</i> – Adolescent Drug Use 50 Years Later: Marijuana's New Morbidity and Opiates Still Omnipresent	
Nancy Dodson, MD, MPH, and Elizabeth Alderman, MD	50
Early Cardiac and Cerebral Hemodynamics with Umbilical Cord Milking Compared with Delayed Cord Clamping in Infants Born Preterm 	
Anup C. Katheria, MD, Jeff M. Szychowski, PhD, Jochen Essers, MD, Marc R. Mendler, MD, Eugene M. Dempsey, MD, Georg M. Schmölzer, MD, PhD, Kathy Arnell, RN, Wade D. Rich, RCP, Kasim Hassen, RCP, Phillip Allman, PhD, Michael Varner, MD, Gary R. Cutter, PhD, and Neil Finer, MD	51
50 Years Ago in <i>The Journal of Pediatrics</i> – The Liver in Juvenile Idiopathic Arthritis and the Evolution of Liver Function Tests	
Batul Kaj-Carbaidwala, MD	56
Increase in Brain Volumes after Implementation of a Nutrition Regimen in Infants Born Extremely Preterm 	
Pauline E. van Beek, MD, Nathalie H. P. Claessens, MD, PhD, Antonios Makropoulos, PhD, Floris Groenendaal, MD, PhD, Linda S. de Vries, MD, PhD, Serena J. Counsell, PhD, and Manon J. N. L. Benders, MD, PhD	57
Vaccine Hesitancy and Low Immunization Rates in Children with Down Syndrome 	
Diane L. Langkamp, MD, MPH, Anna Dusseau, BHCA, and Miraides F. Brown, MS	64
Body Image Dissatisfaction among Pediatric Patients with Inflammatory Bowel Disease 	
Jennifer D. Claytor, MD, MS, Bharati Kochar, MD, MSCR, Michael D. Kappelman, MD, MPH, and Millie D. Long, MD, MPH	68
Intensive Multidisciplinary Intervention for Young Children with Feeding Tube Dependence and Chronic Food Refusal: An Electronic Health Record Review 	
William G. Sharp, PhD, Valerie M. Volkert, PhD, Kathryn H. Stubbs, PhD, Rashelle C. Berry, MPH, MS, RD, Michele Cole Clark, Med, CCC-SLP, Erika Lynn Bettermann, MPH, Courtney E. McCracken, PhD, Carla Luevano, MEd, BCBA, Barbara McElhanon, MD, and Lawrence Scahill, MSN, PhD	73
Psychometric Properties of the Infant and Child Feeding Questionnaire 	
Alan H. Silverman, PhD, Kristoffer S. Berlin, PhD, Chris Linn, BS, Jaclyn Pederson, MS, Benjamin Schiedermayer, MS, and Julie Barkmeier-Kraemer, PhD	81

Raising the Cut-Off Level of Anti-Tissue Transglutaminase Antibodies to Detect Celiac Disease Reduces the Number of Small Bowel Biopsies in Children with Type 1 Diabetes: A Retrospective Study 	
Margreet Wessels, MD, PhD, Anouk Velthuis, MD, Ellen van Lochem, PhD, Eline Duijndam, MD, Gera Hoorweg-Nijman, MD, Ineke de Kruijff, MD, Victorien Wolters, MD, PhD, Eveline Berghout, MD, Jos Meijer, MD, PhD, Jan Alle Bokma, MD, Dick Mul, MD, PhD, Janielle van der Velden, MD, PhD, Lian Roovers, PhD, M. Luisa Mearin, MD, Prof, and Petra van Setten, MD, PhD	87
Muscle Mass Is Linked to Liver Disease Severity in Pediatric Nonalcoholic Fatty Liver Disease 	
Toshifumi Yodoshi, MD, Sarah Orkin, MD, Ana-Catalina Arce Clachar, MD, Kristin Bramlage, MD, Qin Sun, MPH, Lin Fei, PhD, Andrew F. Beck, MD, MPH, Stavra A. Xanthakos, MD, MS, Andrew T. Trout, MD, and Marialena Mouzaki, MD MSc.....	93
50 Years Ago in <i>The Journal of Pediatrics</i> – Change in Growth Hormone with Obesity: More Consequence Than Cause, Although Questions Remain	
Connor Corcoran, MD, Diane E. J. Stafford, MD, and David M. Maahs, MD, PhD.....	99
Pathways to Improve Pediatric Asthma Care: A Multisite, National Study of Emergency Department Asthma Pathway Implementation 	
Sunitha V. Kaiser, MD, MSc, Michael D. Johnson, MD, MS, Theresa A. Walls, MD, MPH, Stephen J. Teach, MD, MPH, Esther M. Sampayo, MD, MPH, Nanette C. Dudley, MD, and Joseph J. Zorc, MD, MSCE.....	100
50 Years Ago in <i>The Journal of Pediatrics</i> – Clinical and Genetic Delineation of Saethre–Chotzen Syndrome	
Philip F. Giampietro, MD, PhD.....	107
A Prospective Study of Costs Associated with the Evaluation of β-Lactam Allergy in Children 	
Miriam Sobrino, MD, Francisco J. Muñoz-Bellido, MD, PhD, Eva Macías, MD, PhD, Milagros Lázaro-Sastre, MD, PhD, Sonia de Arriba-Méndez, MD, PhD, and Ignacio Dávila, MD, PhD.....	108
Population-Level Outcomes of Pediatric Acute Promyelocytic Leukemia in the United States 	
Raji Venkitachalam, MD, Aniko Szabo, PhD, and Guru Subramanian Guru Murthy, MD, MS.....	114
50 Years Ago in <i>The Journal of Pediatrics</i> – Light Exposure to the Immature Eye	
Jannicke H. Andresen, MD, PhD, and Ola Didrik Saugstad, MD, PhD	119
Evaluation of Chest Radiographs of Children with Newly Diagnosed Acute Lymphoblastic Leukemia 	
Wesley T. Smith, DO, Kenneth T. Shiao, BSE, Elena Varotto, MD, Yinmei Zhou, MS, Mayuko Iijima, MD, Doralina L. Anghelescu, MD, Cheng Cheng, PhD, Sima Jeha, MD, Ching-Hon Pui, MD, Sue C. Kaste, DO, and Hiroto Inaba, MD, PhD	120
Characteristics of Concussion in Elementary School-Aged Children: Implications for Clinical Management	
Christina L. Master, MD, Allison E. Curry, PhD, MPH, Melissa R. Pfeiffer, MPH, Kristina B. Metzger, PhD, MPH, Ronni S. Kessler, MEd, Juliet Haarbauer-Krupa, PhD, Lara DePadilla, PhD, Arlene Greenspan, PhD, Matthew J. Breiding, PhD, and Kristy B. Arbogast, PhD.....	128
50 Years Ago in <i>The Journal of Pediatrics</i> – Pancreatic Function in Malnutrition: How Far Have We Come?	
Moinak Sen Sarma, MD, DM, and Piyush Gupta, MD, FAMS.....	135
Treatment Discontinuation within 3 Years of Levothyroxine Initiation among Children Diagnosed with Congenital Hypothyroidism	
Alex R. Kemper, MD, MPH, MS, Scott D. Grosse, PhD, Mei Baker, MD, Allison J. Pollock, MD, Cynthia F. Hinton, PhD, and Stuart K. Shapira, MD, PhD.....	136
Anesthesia Exposure during Therapy Predicts Neurocognitive Outcomes in Survivors of Childhood Medulloblastoma 	
Lisa M. Jacola, PhD, Doralina L. Anghelescu, MD, Lacey Hall, MS, Kathryn Russell, PhD, Hui Zhang, PhD, Fang Wang, MS, Joanna B. Peters, PhD, Michael Rossi, DO, Jane E. Schreiber, PhD, and Amar Gajjar, MD	141

The Presence of Anemia in Children with Abusive Head Trauma 

Katelyn M. Even, MD, Subramanian Subramanian, MD, Rachel P. Berger, MD, MPH, Patrick M. Kochanek, MD, MCCM, Giulio Zuccoli, MD, Barbara A. Gaines, MD, and Ericka L. Fink, MD, MS 148

Hypertension during Diabetic Ketoacidosis in Children 

Andrew DePiero, MD, Nathan Kuppermann, MD, MPH, Kathleen M. Brown, MD, Jeff E. Schunk, MD, Julie K. McManemy, MD, MPH, Arleta Rewers, MD, PhD, Michael J. Stoner, MD, Leah Tzimenatos, MD, Aris Garro, MD, MPH, Sage R. Myers, MD, MSCE, Kimberly S. Quayle, MD, Jennifer L. Trainor, MD, Maria Y. Kwok, MD, MPH, Lise E. Nigrovic, MD, MPH, Cody S. Olsen, MS, T. Charles Casper, PhD, Simona Ghetti, PhD, and Nicole S. Glaser, MD, for the Pediatric Emergency Care Applied Research Network (PECARN) DKA FLUID Study Group 156

50 Years Ago in *The Journal of Pediatrics* – Amblyopia Screening: An Update

Jose M. Gonzalez, MD, and Mariana Urdapilleta, MD..... 163

Elevated Interleukin-6 Levels Predict Clinical Worsening in Pediatric Pulmonary Arterial Hypertension 

Jenny Y. Chen, BA, Megan Griffiths, MD, Jun Yang, PhD, Melanie K. Nies, MD, Rachel L. Damico, MD, Catherine E. Simpson, MD, R. Dhananjay Vaidya, MD, PhD, Stephanie Brandal, MS, D. Dunbar Ivy, MD, Eric D. Austin, MD, William C. Nichols, PhD, Michael W. Pauciulo, BS, Katie Lutz, BS, Erika B. Rosenzweig, MD, Russel Hirsch, MD, Delphine Yung, MD, and Allen D. Everett, MD..... 164

50 Years Ago in *The Journal of Pediatrics* – The Cause of Spasmus Nutans and Congenital Nystagmus: Frozen in Time

Shannon Beres, MD 169

Multicenter Analysis of Acquired Undescended Testis and Its Impact on the Timing of Orchidopexy 

Philip Boehme, MD, Stephan Degener, MD, Stefan Wirth, MD, Berit Geis, MSc, Malik Aydin, MD, Karin Lawrenz, MD, Ralf-Bodo Troebbs, MD, Peter Schmittenebecher, MD, Jan Beume, MD, Simone Pötzsch, MD, Beate Schwarz, MD, and Kai O. Hensel, MD PhD 170

Parents of Children with Sickle Cell Disease Are Interested in Preimplantation Genetic Testing 

Monica Attia, BS, Shawn Kripalani, MS, BS, Isha Darbari, BS, and Robert Sheppard Nickel, MD, MSc 178

Commentary

Reopening Schools Safely: The Case for Collaboration, Constructive Disruption of Pre-Coronavirus 2019 Expectations, and Creative Solutions

Dan M. Cooper, MD, Lisa Guay-Woodford, MD, Bruce R. Blazar, MD, Scott Bowman, MS, Carrie L. Byington, MD, Jeffrey Dome, MD, PhD, Donald Forthal, MD, Michael W. Konstan, MD, Nathan Kuppermann, MD, MPH, Robert I. Liem, MD, Eduardo R. Ochoa, Jr, MD, Brad H. Pollock, PhD, Olga Acosta Price, PhD, Bonnie W. Ramsey, MD, Lainie Friedman Ross, MD, PhD, Ronald J. Sokol, MD, and Rosalind J. Wright, MD, MPH..... 183

Caring for Pediatric Patients with Diabetes amidst the Coronavirus Disease 2019 Storm

Cindy Ho, MBBS, MMed, Nicholas Beng Hui Ng, BSc, MBBS, MMed, and Yung Seng Lee, MBBS, MMed, PhD..... 186

Effects of the Global Coronavirus Disease-2019 Pandemic on Early Childhood Development: Short- and Long-Term Risks and Mitigating Program and Policy Actions

Hirokazu Yoshikawa, PhD, Alice J. Wuermli, PhD, Pia Rebello Britto, PhD, Benard Dreyer, MD, James F. Leckman, MD, PhD, Stephen J. Lye, PhD, Liliana Angelica Ponguta, PhD, Linda M. Richter, PhD, and Alan Stein, FRCPsych 188

The Challenge of Risk Stratification of Infants Born Preterm in the Setting of Competing and Disparate Healthcare Outcomes

Halana V. Whitehead, MD, Christopher C. McPherson, PharmD, Zachary A. Vesoulis, MD, MSCI, Barbara A. Cohlan, MD, Rakesh Rao, MD, Barbara B. Warner, MD, MSc, and F. Sessions Cole, MD 194

Brief Reports

Unintended Consequences of Coronavirus Disease-2019: Remember General Pediatrics

Valentino Cherubini, MD, Anisha Gohil, DO, Ananta Addala, DO, MPH, Angela Zanfardino, MD, Dario Iafusco, MD, Tamara Hannon, MD, and David M. Maahs, MD, PhD..... 197

Severe Coronavirus Disease-2019 in Children and Young Adults in the Washington, DC, Metropolitan Region

Roberta L. DeBiasi, MD, MS, Xiaoyan Song, MBBS, PhD, Meghan Delaney, MD, Michael Bell, MD, Karen Smith, MD, Jay Pershad, MD, Emily Anusinha, MA, Andrea Hahn, MD, MS, Rana Hamdy, MD, MPH, Nada Harik, MD, Benjamin Hanisch, MD, Barbara Jantausch, MD, Adeline Koay, MBBS, Robin Steinhorn, MD, Kurt Newman, MD, and David Wessel, MD..... 199

Human Herpesvirus 6 Detection during the Evaluation of Sepsis in Infants Using the FilmArray Meningitis/Encephalitis Panel

Keerti L. Dantuluri, MD, Katherine C. Konvinse, PhD, Jennifer Crook, BS, Isaac P. Thomsen, MD, MSCI, and Ritu Banerjee, MD, PhD..... 204

From Dysgammaglobulinemia to Autosomal-Dominant Activation-Induced Cytidine Deaminase Deficiency: Unraveling an Inherited Immunodeficiency after 50 Years

Jehane Fadlallah, MD, PhD, Loic Chentout, MS, Bertrand Boisson, PhD, Aurore Pouliet, BS, Cecile Masson, MS, Florence Morin, PharmD, Anne Durandy, MD, Jean-Laurent Casanova, MD, PhD, Eric Oksenhendler, MD, and Sven Kracker, PhD..... 207

Diagnostic Accuracy of QuantiFERON-TB Gold Plus Assays in Children and Adolescents with Tuberculosis Disease

Alex Soler-Garcia, MD, Anna Gamell, MD, PhD, Begoña Santiago, MD, PhD, Manuel Monsonís, MD, Cristina Calvo, MD, PhD, Elvira Cobo, MD, Elena Colino, MD, María Espiau, MD, PhD, Carmelo Guerrero-Laleona, MD, Zulema Lobato, MD, Andrea Martín-Nalda, MD, Beatriz Pérez-Gorricho, MD, Tomas M. Perez-Porcuna, MD, PhD, Ana Isabel Piqueras, MD, Paula Rodríguez-Molino, MD, Marta Ruiz, MD, Antoni Soriano-Arandes, MD, PhD, Teresa Valmanya, MD, Marc Tebruegge, DTM&H, MRCPCH, FHEA, MSc, MD, PhD, and Antoni Noguera-Julian, MD, PhD, on behalf of the QFT-Plus Study Group of the Spanish Pediatric TB Research Network (pTBred)..... 212

Rediscovering the Physical Exam

New Onset Chorea in a Previously Healthy 7-Year-Old

Marc A. Delaney, MD, Maria S. Rueda, MD, Jeffrey Strelzik, MD, Alexandra Yonts, MD, and Nada Harik, MD..... 216

Tense Bullae on the Hands

Christina N. Kraus, MD, and Janellen Smith, MD..... 217

Axillary Calcification Due to Bacillus Calmette–Guérin Vaccination

Indi Trehan, MD, MPH, DTM&H, Sonesavanh Mouayaxeng, MD, and Mark A. Nigogosyan, MD..... 218

A Toddler with Sudden Scrotal Swelling

Andrea Trombetta, MD, Andrea Taddio, MD, Flora Maria Murru, MD, and Irene Berti, MD..... 220

Insights and Images

Revascularization of Portal Venous System after Occlusion of Congenital Intrahepatic Portosystemic Shunt

Liuxiang Chen, MD, Bo Wei, MD, Bo Xiang, PhD, and Hao Wu, PhD..... 222

Brown Plaque with Ripple Pattern on Nasolabial Fold

Yue-Tong Qian, MD, and Dong-Lai Ma, MD, PhD..... 224

Renal Arterial Doppler Perfusion Pattern with and without Ductal Steal Amelie Stritzke, MD, FRCPC, FMH(Swiss).....	225
------------------------------------------------------------------------------------------------------------------------------	-----

Letters to the Editor

Defining the Effect of Medical Treatment on Respiratory Needs in Patients with Type 1 Spinal Muscular Atrophy Ayse Filiz Yetimakman, MD, Selman Kesici, MD, Benan Bayrakci, MD, and Antonio M. Esquinas, MD, PhD, FCCP.....	227
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----

Reply Valeria A. Sansone, MD, PhD, and Eugenio Mercuri, MD, PhD.....	227
--------------------------------------------------------------------------------	-----

Reconsidering Asymptomatic Bacteriuria and Contamination as Causes of Bacteriuria without Pyuria Kenneth B. Roberts, MD, and Ellen R. Wald, MD.....	228
---------------------------------------------------------------------------------------------------------------------------------------------------------------	-----

Reply Nader Shaikh, MD, MPH.....	229
--------------------------------------------	-----

Editors' Response Thomas R. Welch, MD, and Sarah S. Long, MD.....	230
-----------------------------------------------------------------------------	-----

Statistics, Explained

The Use of Statistical Learning in Pediatric Research Byron C. Jaeger, PhD.....	231
-------------------------------------------------------------------------------------------	-----

European Paediatric Association Pages

The Importance of Continuing Breastfeeding during Coronavirus Disease-2019: In Support of the World Health Organization Statement on Breastfeeding during the Pandemic Julianne Williams, MPH, PhD, Leyla Namazova-Baranova, MD, PhD, Martin Weber, MD, PhD, Mehmet Vural, MD, Julije Mestrovic, MD, Angel Carrasco-Sanz, MD, Joao Breda, MPH, MBA, PhD, Nino Berdzuli, MPH, MD, and Massimo Pettoello-Mantovani, MD, PhD.....	234
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----