

The Action Collaborative on Disaster Research Symposium on Pediatric Disaster Science

Health and Medicine Division Board on Health Sciences Policy

Briefing Materials August 1-2, 2022



Symposium on Pediatric Disaster Science August 1-2, 2022

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The Action Collaborative on Disaster Research Symposium on Pediatric Disaster Science

AGENDA

August 1, 2022, 8:00 A.M. - 4:30 P.M. ET August 2, 2022, 8:00 A.M. - 4:00 P.M. ET

Purpose:

To convene broad representation of federal and non-federal stakeholders, and subject matter experts, to scope perspectives, experiences, information, and scientific needs related to disasters affecting child populations. Meeting outcomes will result in high-level prioritization of pediatric disaster science foci; opportunities for alignment and synergy of scientific efforts to collective and effectively advance pediatric disaster science; and set the stage for capacity building around evidence-based practices and scientific discovery to improve outcomes of children.

[For the purposes of this meeting, *pediatric* refers to population of infants, children, and adolescents, aged 0-21 years¹ of all sociodemographic backgrounds; physical and intellectual abilities; access, functional and healthcare needs; and linguistic preferences.]

"...we owe it to the youngest members of our communities to learn from each event, to fill in our critical knowledge gaps, and to do so through ethically sound research during public health emergencies."

- 2016 Pediatrics Perspectives "Planning for Research On Children During Public Health Emergencies"



MONDAY, AUGUST 1, 2022 Identifying the Pediatric Disaster Science Domains and Approaches

SESSION I: Welcoming Remarks and Reflection

8:00 A.M. Welcome and Agenda Overview (10 minutes)

Cinnamon Dixon, Co-Chair

Medical Officer, Pediatric Trauma and Critical Illness Branch

Eunice Kennedy Shriver, National Institute of Child Health and Human

Development, National Institutes of Health

Richard Kwok, Co-Chair

Program Director, Office of Scientific Coordination, Planning, and Evaluation

National Institute of Environmental Health Sciences, National

Institutes of Health

8:10 A.M. Opening Remarks (15-20 minutes)

Steven Krug

Chairperson, Council on Children and Disasters

American Academy of Pediatrics

Professor of Pediatrics, Division of Emergency Medicine

Lurie Children's Hospital of Chicago

Rohan Hazra

Director, Division of Extramural Research

Eunice Kennedy Shriver, National Institute of Child Health and Human Development, National Institutes of Health

Sara Kinsman

Director, Division of Child, Adolescent, and Family Health

Health Resources and Services Administration

SESSION II: Setting the Stage for Disaster Science

Moderator: Michael Anderson, Senior Advisor, Assistant Secretary for

Preparedness and Response

8:30 A.M. Why Pediatric Disaster Research Overview (20 minutes)

Debra Weiner

Attending Physician Emergency Medicine, Boston Children's Hospital

Director, Pediatric Disaster Beth Israel Deaconess Medical Center Disaster Fellowship

Assistant Professor Pediatrics, Harvard Medical School

Jeffrey Upperman

Professor and Chair, Department of Pediatric Surgery

Surgeon-in-Chief, Monroe Carell Jr. Children's Hospital Vanderbilt University Medical Center

Karen Koski-Miller

Lead, Disaster Mental Health National Headquarters American Red Cross

Q & A (10 minutes)

9:00 A.M. Pediatric Disaster Research Over the Ages (pre-recorded) (15 minutes)

Lori Peek (virtual)

Professor and Director, Natural Hazards Center

Institute of Behavioral Science University of Colorado-Boulder

David Abramson (pre-recorded)

Director, Population Impact, Recovery and Resilience (PiR2) Clinical Associate Professor, Social and Behavioral Sciences

School of Global Public Health

New York University

Current Gaps and Opportunities in Pediatric Disaster Science (15 minutes)

Cullen Clark (virtual)

Director of Disaster Preparedness, Division of Emergency Medicine Nationwide Children's Hospital

The Ohio State University College of Medicine

David Schonfeld

Chair, National Advisory Committee on Children and Disasters Director, National Center for School Crisis and Bereavement

Children's Hospital Los Angeles

Professor of Clinical Pediatrics, USC Keck School of Medicine

Q & A (10 minutes)

9:40 A.M. Session II Discussion (15 minutes)

9:55 A.M. Break (10 minutes)

SESSION III: Prioritizing Research Throughout Disaster Management

Cycles for Children in Disasters

Emergency Planning, Preparedness, and Response

Moderator: **Jeremy Brown**, Director, Office of Emergency Care Research, National Institutes of Health

10:05 A.M.

Emergency Planning Research to Equitably Identify and Prepare for Hazards (15 minutes)

Andrew Garrett

Section Chief, Emergency Health Operations
Associate Professor, George Washington University School of Medicine and Health Sciences

Natalie Grant

Director, Office of Human Services Emergency Preparedness and Response Administration for Children and Families

Trauma and Medical Preparedness and Response Science for Better Physical Outcomes (15 minutes)

Craig Newgard (virtual)

Professor and Director for the Center for Policy and Research Emergency Medicine Oregon Health & Science University

Steve Krug

Chairperson, Council on Children and Disasters American Academy of Pediatrics Professor of Pediatrics, Division of Emergency Medicine Lurie Children's Hospital of Chicago

Q & A (15 minutes)

Reunification, Recovery, and Resilience

Moderator: **Rosalind King,** Associate Director for Prevention, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health

10:50 AM

Optimizing Reunification Science to Prevent Lost Children (15 minutes)

Sarita Chung

Director of Disaster Preparedness, Division of Emergency Medicine Boston Children's Hospital Harvard Medical School

Elizabeth Barnert

Associate Professor of Pediatrics David Geffen School of Medicine University of California Los Angeles

Behavioral Interventions and Mental Health Research with Life Course Lens (15 minutes)

David Schonfeld

Chair, National Advisory Committee on Children and Disasters Director, National Center for School Crisis and Bereavement Children's Hospital Los Angeles

Professor of Clinical Pediatrics, USC Keck School of Medicine

Melinda Baldwin

Chief, Child, Adolescent, and Family Branch Center for Mental Health Services Substance Abuse and Mental Health Services Administration

Short and Long-Term Recovery Science and Resilience Building for Stronger Communities (15 minutes)

Jonathan White

Director of Community Mitigation and Recovery
Office of the Assistant Secretary for Preparedness and Response
U.S. Department of Health and Human Services

Ann Masten (virtual)

Regents Professor Institute of Child Development University of Minnesota

Q & A (20 minutes)

11:55 A.M. Session III Discussion (25 minutes)

12:20 P.M. Lunch and Open Sharing of Resources (60 minutes)

SESSION IV:

Fostering the Full Spectrum of Translational Research in Pediatric Disaster Management Plans and Activities

<u>Type 1 Translational Research – From Basic Science to Clinical</u> Effectiveness

Moderator: **Robert Tamburro**, Senior Advisor for Clinical Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health

1:20 P.M.

Cultivating Discovery Through Basic, Epidemiologic, and Exposome Science (15 minutes)

Robert Wright (virtual)

Professor and System Chair
Environmental Medicine and Public Health
Co-Director; Institute for Exposomic Research
Icahn School of Medicine at Mount Sinai

Yvonne [Bonnie] Maldonado

Senior Associate Dean for Faculty Development
Diversity Taube Endowed Professor of Global Health and Infectious
Diseases, Professor; Pediatrics and Epidemiology and Population Health
Stanford University School of Medicine

Trials and Mechanistic Science to Increase the Rigor of Pediatric Disaster Research (20 minutes)

Nathan Kuppermann

Distinguished Professor and Chair
Bo Tomas Brofeldt Endowed Chair
Emergency Medicine
University of California, Davis School of Medicine

Christopher Horvat

Assistant Professor, Pediatric Critical Care Medicine Director of Clinical Informatics, Department of Critical Care Medicine University of Pittsburgh

Perdita Taylor-Zapata

Program Officer, Obstetric and Pediatric Pharmacology and Therapeutics Branch Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health

Q & A (15 minutes)

<u>Type 2 Translational Research – From Practice to Communities</u>

Dissemination and Implementation, and Community-Engaged Research, to Broaden

Moderator: **Lorah Ludwig**, Lead Public Health Analyst, Division of Child, Adolescent, and Family Health; Health Resources and Services Administration

Reach and Impact of Evidence-Based Interventions (15 minutes)

Joelle Simpson

Division Chief, Emergency Medicine Medical Director, Emergency Preparedness Children's National

Betty Lai

Associate Professor

Department of Counseling, Developmental and Educational Psychology
Boston College

2:10 P.M.

Improvement, Systems and Applied Sciences for Comprehensive Pediatric Disaster Management Activities and Regulations (20 minutes)

Charles Macias

Chief Quality Officer/Vice Chair Quality
Division Chief, Pediatric Emergency Medicine
University Hospitals Rainbow Babies and Children's Hospital

Jeffrey Schlegelmilch

Director, National Center for Disaster Preparedness Columbia Climate School, Columbia University

Debbie Malone

Program Coordinator, Child Care Aware Northwest Arkansas

Q & A (25 minutes)

3:10 P.M. Session IV Discussion (25 minutes)

3:35 P.M. Break (10 minutes)

SESSION V: Day One Recap and Prioritization Activities

Moderators:

Cinnamon Dixon, Medical Officer, Pediatric Trauma and Critical Illness Branch, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health

Sara Kinsman, Director, Division of Child, Adolescent, and Family Health; Health Resources and Services Administration

Michael Anderson, Senior Advisor, Assistant Secretary for Preparedness and Response

3:45 P.M. Facilitated Discussion of Day One and Prioritization Exercises (45 minutes)

4:30 P.M. ADJOURN

END OF DAY 1

TUESDAY, AUGUST 2, 2022 Building the Pediatric Disaster Science Enterprise [Processes, Infrastructure, and People]

SESSION VI: Welcome Remarks

8:00 A.M. Welcome and Agenda; Day One Reflections (10 minutes)

Cinnamon Dixon, Co-Chair

Medical Officer, Pediatric Trauma and Critical Illness Branch

Eunice Kennedy Shriver, National Institute of Child Health and Human

Development, National Institutes of Health

Richard Kwok, Co-Chair

Program Director, Office of Scientific Coordination, Planning, and Evaluation

National Institute of Environmental Health Sciences, National

Institutes of Health

8:10 A.M. Opening Remarks (15 minutes)

Karen Remley

Director, National Center of Birth Defects and Developmental Disabilities

Centers for Disease Control and Prevention

Meg Sullivan

Chief Medical Officer

Office of the Assistant Secretary for Preparedness and Response

Valerie Maholmes (virtual)

Chief. Pediatric Trauma and Critical Illness Branch

Eunice Kennedy Shriver, National Institute of Child Health and Human

Development, National Institutes of Health

SESSION VII: Preparing the Foundation to Conduct Pediatric Disaster Research

Moderator: Karen Remley, Director, National Center of Birth Defects and Developmental

Disabilities, Centers for Disease Control and Prevention

8:25 A.M. Developing Pediatric-Specific Disaster Science Protocols and Appropriate Instruments,

and Incorporating Common Data Elements (30 minutes)

Robert Tamburro

Senior Advisor for Clinical Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health

Erika Felix

Professor

Department of Counseling, Clinical, & School Psychology

University of California, Santa Barbara

Richard Kwok

Program Director, Office of Scientific Coordination, Planning, and Evaluation; National Institute of Environmental Health Sciences, National Institutes of Health

Shan Ward (virtual)

Assistant Professor of Pediatrics University of California, San Francisco

Human Subjects Protections and Rapid Review Considerations in Disaster Science (20 minutes)

Bruce Gordon

Assistant Vice-Chancellor for Regulatory Affairs Executive Chairman, Institutional Review Boards Professor, Pediatrics Hematology/Oncology University of Nebraska Medical Center

Megan Singleton

Associate Dean, Human Research Protections Director, Human Research Protections Program Johns Hopkins University School of Medicine

Calvin Keene

Pastor, Memorial Baptist Church, Baltimore

Member, Johns Honkins Medicine IRB Committee #

Member, Johns Hopkins Medicine IRB Committee # 5 and Emergency Response IRB

Q & A (20 minutes)

9:35 A.M. Session VII Discussion (20 minutes)

9:55 A.M. Break (10 minutes)

SESSION VIII: Developing and Maintaining a Registry of Networks and Scientists

Moderator: **Robert Tamburro**, Senior Advisor for Clinical Research, National Institute of Child Health and Human Development, National Institutes of Health

10:05 A.M.

Leveraging Centers, Networks, and Consortia to Deploy and Implement Disaster Science Studies (30 minutes)

Sara Kinsman

Director, Division of Child, Adolescent, and Family Health Health Resources and Services Administration

Nathan Kuppermann

Distinguished Professor and Chair Bo Tomas Brofeldt Endowed Chair

Emergency Medicine

University of California, Davis School of Medicine

Lori Peek (virtual)

Professor and Director, Natural Hazards Center

Institute of Behavioral Science University of Colorado-Boulder

Kenneth Mandl (virtual)

Director, Computational Health Informatics Program (CHIP) Donald A.B. Lindberg Professor of Pediatrics and Professor Biomedical Informatics

Harvard Medical School

Building a Pipeline of, and the Capacity for, Pediatric Disaster Scientists (15 minutes)

Craig Newgard (virtual)

Professor and Director for the Center for Policy and Research

Emergency Medicine

Oregon Health & Science University

Betty Lai

Associate Professor

Department of Counseling, Developmental and Educational Psychology

Boston College

Q & A (20 minutes)

11:10 A.M. Session VIII Discussion (15 minutes)

SESSION IX: Leveraging Big Data for Pediatric Populations

Moderator: Meg Sullivan, Chief Medical Officer, Assistant Secretary for

Preparedness and Response

11:25 A.M. Real-time Data Sharing, Technology, and Mathematical Modeling (15 minutes)

Christopher Horvat

Assistant Professor. Pediatric Critical Care Medicine

Director of Clinical Informatics, Department of Critical Care Medicine University of Pittsburgh

Kenneth Mandl (virtual)

Director, Computational Health Informatics Program (CHIP) Donald A.B. Lindberg Professor of Pediatrics and Professor Biomedical Informatics Harvard Medical School

Data Harmonization and Interoperability of Existing Data Repositories (20 minutes)

Rebecca Rosen

Director, Office of Data Science and Sharing

Eunice Kennedy Shriver National Institute of Child Health and Human

Development, National Institutes of Health

Adam Resnick

Co-Executive Director, Center for Data Driven Discovery in Biomedicine (D3b)
Children's Hospital of Philadelphia

Leremy Colf (virtual or pre-recorded)

Donna L. Wong Professorship of Pediatric Nursing Senior Advisor and Research Liaison, Health Informatics University of Oklahoma Health Sciences Center

Q & A (15 minutes)

12:15 P.M. Session IX Discussion (15 minutes)

12:30 P.M. Lunch and Open Sharing of Resources (45 minutes)

SESSION X: Funding Streams and Regulations to Help Bridge Scientific Gaps

Moderator: **Richard Kwok**, Program Director, Office of Scientific Coordination, Planning, and Evaluation, National Institute of Environmental Health Sciences, National Institutes of Health

1:15 P.M. Funding Streams to Expedite Pediatric Disaster Research Science (20 minutes)

Jacqueline Meszaros

Science and Technology Advisor for Natural Hazards, Disasters, and Resilience Division of Civil, Mechanical, and Manufacturing Innovation National Science Foundation

Diana Rutberg

Chief Grants Management Officer, Grants Management Branch Division of Extramural Activities National Institute of Dental and Craniofacial Research, National Institutes of Health

Terrance Perry

Director, Office of Grants Services
Office of Financial Resources
Office of the Chief Operating Officer
Centers for Disease Control and Prevention

Understanding Pediatric Disaster Research with a Lens on Policy (15 minutes)

Jeffrey Schlegelmilch

Director, National Center for Disaster Preparedness Columbia Climate School, Columbia University

Erika Felix

Professor

Department of Counseling, Clinical, & School Psychology University of California, Santa Barbara

Q & A (15 minutes)

2:05 P.M. Session IX Discussion (15 minutes)

SESSION XI: Day Two Recap and Prioritization Activities

Moderators:

Cinnamon Dixon, Medical Officer, Pediatric Trauma and Critical Illness Branch Eunice Kennedy Shriver, National Institute of Child Health, National Institutes of Health

Karen Remley, Director, National Center of Birth Defects and Developmental Disabilities, Centers for Disease Control and Prevention

Debra Weiner, Attending Physician Emergency Medicine, Boston Children's Hospital Director Pediatric Disaster Beth Israel Deaconess Medical Center Disaster Fellowship Assistant Professor Pediatrics. Harvard Medical School

2:20 P.M. Facilitated Discussion and Prioritization Exercises (45 min)

3:05 P.M. CLOSING REMARKS (10 min)

Cinnamon Dixon, Co-Chair

Medical Officer, Pediatric Trauma and Critical Illness Branch Eunice Kennedy Shriver, National Institute of Child Health and Human Development, National Institutes of Health Richard Kwok, Co-Chair

Program Director, Office of Scientific Coordination, Planning, and Evaluation National Institute of Environmental Health Sciences, National Institutes of Health

END OF DAY 2

The National Academies of SCIENCES · ENGINEERING · MEDICINE

Action Collaborative on Disaster Research

Action Collaboratives engage participants with similar interests and responsibilities in cooperative activities that analyze in-depth high-priority issues, advance identified goals, and make progress on recommendations from previous National Academies consensus reports.

As illustrated in the graphic below, collaboratives are participant-driven, action-oriented activities that foster collaboration and information sharing among members and external thought leaders and stakeholders. Collaboratives may:

- identify issues of common interest and marshal needed leadership, expertise, and resources;
- highlight potential paths forward through, e.g., individually authored (or small group) literature summaries or discussion papers, or through the convening of technical discussions;
- engage in cooperative development of tools needed for progress;
- incubate and pilot-test novel approaches; and
- develop proposals for formal workshops and studies for consideration by the National Academies.

Each action collaborative is an ad hoc activity, associated with a Forum or Roundtable, at the National Academies. The work it produces does not necessarily represent the views of any one organization, the parent Forum, or the National Academies.

Impact/Reach

Collaboratives offer considerable flexibility for their participants to pursue a wide range of activities and products and the opportunity to have an impact on the field. Products are ascribed to the Collaborative participants and are not products of the National Academies, and endorsement and use of the Collaborative's work is at the discretion of its participants' individual organizations. Examples of impact/reach might include:

- advancing progress on recommendations highlighted in previous National Academies reports;
- developing papers authored by individual participants in the Collaborative:
- submitting journal articles to independent publications;
- spurring formation of public-private partnerships;
- envisioning a charge for a planning committee to convene a workshop or a consensus study.

Action Collaborative on Disaster Research

The Action Collaborative on Disaster Research (ACDR) is associated with The Forum on Medical and Public Health Preparedness for Disasters and Emergencies. The ACDR will vary in structure and content over time to meet the specified needs and challenges identified by their participants. With support from and facilitation by Forum

staff, Collaborative participants will determine the focus, timeline and frequency with which Collaboratives meet; many Collaboratives hold regular teleconferences, and meet in person several times each year.

Goals and Objectives

Overall, the goals of the action collaborative are to:

- Foster improved processes and platforms for developing and implementing needed time-critical data collection and research in response to disasters ("Science Preparedness");
- Identify evidence-based mechanisms and opportunities for conducting and sharing information gathered from public health research during disasters;
- Engage cross-sector stakeholders in development, refinement and dissemination of disaster research opportunities and best practices;
- Provide a venue to support the development and maintenance of a rapid response mechanism for the National Academies to continue to meet sponsor needs for convening, idea generation and information sharing during the initial stages of a public health emergency.

Areas of Interest for FY 23 Include:

- a focus on vulnerable populations, the ability to facilitate standardized data collection tools to generate more measurable outcomes, platforms for data harmonization and integration, improvements in IRB and ethical research, rapid identification of research priorities, enhanced collaborations and opportunities for funding and support.
- Plans include:
 - Upcoming hybrid symposium focusing on Pediatric Disaster Science best practices and goals for the future; possible other disaster data science meetings
 - Collaborative meetings 2-3 times each year

Meetings of the action collaborative will take place in Washington, DC, or adjacent to existing gatherings of the disaster research stakeholder community.





The Action Collaborative on Disaster Research Symposium on Pediatric Disaster Science

SPEAKER BIOGRAPHIES



David Abramson, Ph.D., M.P.H., is a Clinical Associate Professor at NYU's School of Global Public Health and the director of the research program on Population Impact, Recovery and Resilience (PiR2). His research employs a social ecological framework to examine the health consequences of disasters, individual and community resilience, and long-term recovery from acute collective stressors. His work has focused on population health consequences, interactions of complex systems, and risk communication strategies associated with hurricanes Katrina

and Sandy, the Joplin tornado, the Deepwater Horizon oil spill, H1N1, and Zika, among other natural, technological, and man-made disasters. Before joining NYU's faculty, Dr. Abramson was the Deputy Director at Columbia University's National Center for Disaster Preparedness at the Earth Institute. In 2005 Dr. Abramson launched the Gulf Coast Child and Family Health study, an ongoing longitudinal cohort study of over 1,000 randomly sampled Katrina survivors in Louisiana and Mississippi, which is presently a core research project in the NIH-funded Katrina@10 Program (P01HD082032, NICHD). After Superstorm Sandy he partnered with colleagues at Rutgers University, Columbia University, and the University of Colorado to conduct the Sandy Child and Family Health study, an observational cohort study modeled on the Katrina study. More recently, he was funded by the National Science Foundation and the Robert Wood Johnson Foundation to study the risk salience of an evolving threat, the Zika virus, among the US population in general and among women of child-bearing age. In addition, Dr. Abramson serves on two National Academies of Medicine panels, the Standing Committee on Medical and Public Health Research During Large-Scale Emergency Events, and the Committee on Evidence-Based Practices for Public Health Emergency Preparedness and Response. Prior to entering the field of public health, Dr. Abramson spent a decade as a national magazine journalist, having worked at or written for such publications as Rolling Stone. Esquire, and Outside magazines, and was a nationally-certified paramedic. He has a PhD in sociomedical sciences, with a sub-specialization in political science, and an MPH, both from Columbia University.



Michael Anderson, M.D., M.B.A., has served in a number of important health care and policy leadership roles: Medical Director, Chief Medical Officer, Children's Hospital President, Professor of Pediatrics, and Senior Advisor for the Federal COVID response. Dr. Anderson received his Bachelor's degree from John Carroll University, his MD from Case Western Reserve, and his MBA in Health Care from Kent State University. He spent the majority of his career as a Pediatric Intensivist and Health Care Administrator at Case Western Reserve and UH/Rainbow Babies and Children's in Cleveland, serving as Chief Medical Officer for the 15 hospital UH system from 2008 to 2016.

Dr. Anderson served as the inaugural President of UCSF Benioff Children's Hospitals from 2016 to 2020, where he focused on program integration, leadership recruitment, and novel program development. He currently serves as a Senior Advisor at HHS/ASPR in Washington DC, focused on COVID therapeutics and helping drive a pediatric-focused response agenda. Dr. Anderson has also taken on the role of Senior Advisor at Children's National Hospital in DC, focused on pandemic response, leadership development, and strategic planning. Dr. Anderson's advocacy career has been served primarily in assuring children have adequate focus and resources when disasters strike. As President George W. Bush's appointee, he served as Vice-Chair of the National Commission on Children and Disasters. In 2014, Dr. Anderson was appointed by the Obama Administration to chair the National Advisory Committee on Children and Disasters at HHS. In addition, he has chaired an IOM task force on pediatric readiness and published on both critical care and disaster topics. Dr. Anderson is a regular contributor on MSNBC, focused primarily on pediatric issues. He has served on several nonprofit boards, including the Marian K. Shaughnessy Nurse Leadership Academy at CWRU, the FBI Citizens Academy Foundation, Cuyahoga Health Alliance Program, the Children's Museum of Cleveland, John Carroll University Board of Directors, the Community Advisory Board for Cleveland State University's Urban Health Program, the Joint Powers Authority Health Care Committee, the American Heart Association Heart Ball and the Jesuit Friends and Alumni Network. He has received several awards for his community service and child advocacy, including an Alumni Medal and honorary degree from John Carroll University and a Child Advocacy Award from the Children's Hospital Association.



Melinda Baldwin, Ph.D., M.S.W. is the Director of the Division of Prevention, Traumatic Stress, & Special Programs in the Center for Mental Health Services at SAMHSA. Dr. Baldwin is a subject matter expert in behavioral health, trauma, program evaluation (grounded in implementation science), in the intersection with child welfare/maltreatment and mental health practice and policy. She has had extensive field experience in working with children and families in the intersection of child maltreatment and children's mental health. Dr. Baldwin has a PhD in Social Work from the University of Illinois at Chicago, an MSW from the University of

Illinois at Urbana-Champaign and is licensed as a clinical social worker in Illinois.



Elizabeth Barnert, M.D., M.P.H., M.S., is an Associate Professor of Pediatrics at the David Geffen School of Medicine at UCLA. She provides pediatric care to youth in the juvenile legal system. She is a board-certified pediatrician whose clinical interests focus on adolescent health. Through the UC Berkeley-UCSF Joint Medical Program, Dr. Barnert received her medical degree from UCSF and earned a Master's of Science degree from the UC Berkeley School of Public Health. Her public health Master's thesis used ethnography to examine the family reunification experiences of the "disappeared" children of El Salvador. Her ethnographic book, REUNION: FINDING THE DISAPPEARED CHILDREN OF EL SALVADOR, will be coming out in January 2023. After medical school,

Dr. Barnert completed residency training in pediatrics at Stanford. She came to UCLA in 2012 as a Clinical Scholar in the Robert Wood Johnson (RWJ) Clinical Scholars Program. During fellowship, she also completed training in health policy and earned a Masters of Public Health (MPH) degree from UCLA. Dr. Barnert joined UCLA faculty upon completion of her fellowship training.

A Cuban-American born and raised in Los Angeles, Dr. Barnert is passionate about improving health outcomes of marginalized youth. Her research, grounded in human rights and social action, examines children affected by violence, family separation, and incarceration. She has numerous publications in top-tier journals, including in Science, JAMA Pediatrics, Pediatrics, and American Journal of Public Health.

Dr. Barnert advises the California state legislature and U.S. Congress on juvenile justice policy. Her research contributed to the passage of California SB 1322, which decriminalized child victims of commercial sexual

exploitation; to AB 2992, which requires police officer training on commercial sexual exploitation of children; and to SB 439, which excludes children 11 and under from the juvenile justice system in California. Her research and advocacy led to a national coalition around juvenile justice minimum age (#MinimumAge. #RaiseTheFloor, #UncuffKids) and informed Congresswoman Karen Bass's HR 2908, which proposes to establish a minimum age of 12 for the federal justice system. Her work on youth reentry and Medicaid coverage contributed to the federal law, HR 6 (SUPPORT for Patients and Communities Act) and to California's related law, AB 80, which improved linkages to Medicaid coverage for youth exiting incarceration. Dr. Barnert is co-leader of DNA BRIDGE, a consortium of scientists and human rights activists working to enable and promote the ethical and secure use of DNA data to reunify families separated by armed conflict, political repression, immigration, climate change, and disasters. DNA BRIDGE seeks to support the use of DNA analysis in a humane manner to reunify families and identify missing persons around the globe. Dr. Barnert also serves on the Juvenile Health Committee of the National Commission of Correctional Health Care (NCCHC), on the NCCHC's Committee on Systemic Racism in Correctional Health Care, and the advisory board of Human Rights for Kids, a non-profit dedicated to promoting children's rights in the U.S. Dr. Barnert's work is guided by the principle that all children should receive the support they need to be healthy and thrive.



Jeremy Brown, M.D., is Director of the Office of Emergency Care Research, part of the National Institute of Neurological Disorders and Stroke at the National Institutes of Health. He trained as an emergency physician in Boston, and prior to joining the NIH he worked in the Department of Emergency Medicine at the George Washington University in Washington DC, where he was also the research director for the department, and received R01 funding from the NIH. He is the author of over fifty peer reviewed papers and three books, including two textbooks of emergency medicine, all published by Oxford University Press. His most recent book is Influenza: The Hundred-Year Hunt to Cure the Deadliest Disease in History, published by Simon and Schuster.

Sarita Chung, M.D., is the Director of Disaster Preparedness in the Division of Emergency Medicine at Boston Children's Hospital and Associate Professor of Pediatrics and Emergency Medicine, Harvard Medical School. Board certified in pediatrics and pediatric emergency medicine, Dr. Chung is actively involved in all aspects of pediatric emergency preparedness and response, including advocacy, research, education, and clinical care. In her role as a member and currently vice-chair of the AAP Council on Children and Disasters, she has collaborated with federal partners and nongovernmental organizations to include the needs of children and their families throughout the disaster cycle. She previously served on the FEMA National Advisory Council and currently is the Co-Lead for EMSC EIIC Disaster domain as well as an executive council member of the Pediatric Pandemic Network. In terms of her research, Dr. Chung published one of the first post-9/11 articles, examining the efficacy of web-based training in bioterrorism. Dr. Chung was the principal investigator of an EMSC Targeted Issue grant to develop a novel image based family reunification system which proved to be effective and led to the development of the AAP Family Reunification Following Disasters: A Planning Tool for Health Care Facilities. Her research has also included the effects of the H1N1 pandemic influenza on pediatric emergency departments, alternate care sites and laboratory testing as well as developing and testing educational curriculum for pediatric disaster preparedness for clinicians and public health professionals. She is the lead author on the AAP policy statement Chemical-Biological Terrorism and Its Impact on Children. In terms of education, Dr. Chung is a nationally recognized lecturer on pediatric aspects of disaster preparedness, having presented at federally sponsored workshops and national meetings on disaster topics including family reunification, mass casualty events and caring for children in disasters.



Cullen Clark, **M.D.** is the director of disaster preparedness in the Division of Emergency Medicine for Nationwide Children's Hospital at the Ohio State University College of Medicine.



Leremy Colf, Ph.D., holds the Donna L. Wong Professorship of Pediatric Nursing at The University of Oklahoma Health Sciences Centers. Previously, he served as the Operations Planning Branch Chief for the Department of Health and Human Services (HHS) Office of the Assistant Secretary for Preparedness and Response (ASPR). His role uses science, data, and evidence to improve preparedness and response for public health and medical disasters .Before joining ASPR, Colf was an American Association for the Advancement of Science fellow, and deputy program manager at the Department of Homeland Security Science and Technology Directorate. There, he focused on scientific research to support

the Ebola response, as well as developing new programs for overlap areas of public health and biodefense. In addition to his current efforts with ASPR, Colf is an adjunct assistant professor of biochemistry at the George Washington University School of Medicine and Health Sciences. He earned a PhD in microbiology and immunology from the Stanford University School of Medicine, as well as a bachelor's of chemistry and biochemistry from the University of Arkansas, and has worked as a scientist in academic, industry, and government research institutions for over 20 years.



Cinnamon Dixon, D.O., M.P.H., is a board-certified pediatric emergency medicine physician and pediatrician who joined PTCIB as a medical officer in 2021. In this capacity, Dr. Dixon oversees the PTCIB research and training portfolio related to emergency medical and trauma services for children, pediatric injury and trauma control, global health, and disaster management. Prior to joining NICHD, Dr. Dixon was an academic physician scientist whose research interests focused on unintentional injury prevention, mobile health intervention development and testing, global health and quality improvement, and human-animal interactions. Her extensive global health experiences span the fields of medical education, advocacy, research, and medical care. Dr. Dixon most recently served as the co-director of the University of Colorado Global Health and

Pediatric Disasters Course and was the associate program director of the Children's Hospital Colorado Pediatric Residency Global Health Pathway. She has served as a pediatric injury consultant to the World Health Organization (WHO) and other national organizations helping to build capacity for global child injury control. She has experience conducting research and providing medical care in both the United States and in low- and middle-income countries. She continues to provide clinical care to children.



Erika Felix, Ph.D., is a professor of Clinical Psychology at the University of California, Santa Barbara (UCSB) and a licensed psychologist specializing in trauma treatment for children and families. Currently, she is serving as an American Psychological Association/AAAS Congressional Fellow working on disability policy across the lifespan in Senator Casey's office on Capitol Hill. The policy issues covered included inclusive emergency management, school safety, health equity, civil rights, and accessibility of outdoor areas. Her program of research has focused on the risk and protective factors affecting children's long term mental health following natural and human-caused disasters, and this work has been funded by the National Institute of Mental Health, National Institute of Child Health and Human Development, National Institute of Justice,

and the National Science Foundation. Her research has covered the impact of hurricanes in Puerto Rico, wildfires in California, floods in Texas, terror attacks in Washington, DC and New York, and mass shooting in California and has been published in peer-reviewed academic journals. Dr. Felix trains counseling, clinical, and school psychologists on preventive interventions and trauma treatment for children and has developed a Disaster Mental Health class for undergraduates at UCSB.



Andrew Garrett, M.D., M.P.H., is the Academic Section Chief and Medical Director for Emergency Health Operations at The George Washington University's School of Medicine and Health Sciences. His medical specialty areas are Pediatrics as well as Emergency Medical Services (EMS) and Disaster Medicine. Andy has over fifteen years of leadership experience in the federal disaster response and emergency management community, most recently with the Department of Health and Human Services (HHS) as a deputy chief medical officer and then director of the National Disaster Medical System (NDMS). He then

spent two years detailed to the White House —the first as part of the charter cohort of the White House

Leadership Development Program and the second serving as the Director for Biodefense and Medical Preparedness Policy on the National Security Council for both Presidents Obama and Trump. In his last year of full-time federal service, Andy was the senior medical advisor to the Assistant Secretary of Preparedness and Response (ASPR) and served as the medical officer in the HHS Office of National Security. He departed full time federal service in 2018 to accept a faculty position at G.W. University. In 2020 he rejoined the federal family as a senior advisor in pediatrics and disaster response to HHS/ASPR, in a shared role with GW. Andy has deployed both domestically and internationally to over 25 major disasters and public health emergencies as either a clinical provider or as the chief medical officer to the incident command structure for medical and public health. He is a clinical associate attending physician with the Department of Emergency Medicine at Children's National Medical Center in Washington, DC. and is a medical officer with the Maryland-1 Disaster Medical Assistance Team, and a Nationally Registered Paramedic.



Natalie Grant, joined the Department of Health and Human Services (HHS) Administration for Children and Families (ACF) as director of the Office of Human Services Emergency Preparedness and Response in November, 2018. In this capacity, she oversees the disaster human service emergency management mission for the agency and the Department. OHSEPR's primary responsibilities include preparing human and social service programs and providers for disaster incidents, overseeing coordinated delivery of disaster human service case management, developing a disaster and applied science agenda for human services, supporting the coordination of support services for children, youth and families in emergencies, and overseeing emergency repatriation mission for U.S. Citizens overseas

during international crises.

Previously, Grant worked for HHS' Assistant Secretary for Preparedness and Response (ASPR) in the Division of Recovery where she served as the Health and Social Services Recovery field coordinator for federal interagency coordination following Hurricane Sandy in New York and the lead for the U.S. Virgin Islands and Puerto Rico following Hurricanes Irma and Maria. She has also managed other disaster and emergency incidents within HHS Regions 1, 2, 5, and 10.



Bruce Gordon, M.D., is Assistant Vice-Chancellor for Regulatory Affairs, and Professor of Pediatric Hematology/Oncology at the University of Nebraska Medical Center (UNMC). Dr. Gordon has been a member of the UNMC institutional review board since 1992, served as chair since 1996, and as executive chair since 2011. He has served on numerous national committees including the Secretary's Advisory Committee on Human Research Protections Subpart A Subcommittee and the NIEHS Best Practices Working Group for IRB Review of Disaster Research. He was the first chair of the National Cancer Institute Pediatric Central IRB. He served on the Board of Directors for PRIMR (Public Responsibility in Medicine & Research).

was the co-chair for the 2009 PRIMR Advancing Ethical Research (AER) Conference, co-developed several PRIMR educational programs, and has been a faculty member at every PRIMR national meeting since 2002. He currently serves on the Council on Accreditation for the Association for the Accreditation of Human Research Protection Programs (AAHRPP), is a frequent accreditation site visitor and has been a faculty member at numerous AAHRPP conferences. He is a founding member of the Collaborative Institutional Training Initiative (CITI) and served on the Executive Advisory Committee for the program. In addition to authoring several core modules for the Biomedical Research course, he co-developed a course on research involving vulnerable subjects. Dr. Gordon is editor of the 3rd edition of "IRB: Management and Function", and is the author of numerous original papers, chapters, review articles, and abstracts regarding human subject protections and research ethics. He has presented frequently on ethical and regulatory issues associated with research during a bioemergency, and on the development and use of the UNMC Rapid Response IRB, and the NETEC Special Pathogens Research Network Rapid Response sIRB in the setting of the Ebola Virus Disease epidemic and SARS-CoV2 pandemic.



Rohan Hazra, M.D., was named the director of the Division of Extramural Research (DER) in March 2022, after serving as the division's acting director since February 2020. Prior to becoming acting DER director, he was chief of the NICHD Maternal and Pediatric Infectious Disease Branch. He provided scientific leadership for domestic and international research, research training, and career development programs related to the epidemiology, diagnosis, pathogenesis, transmission, treatment, and prevention of HIV and its complications as well as other selected pathogens in infants, children, adolescents, and pregnant people. Prior to

joining NICHD in 2007, he conducted clinical studies in pediatric HIV in the National Cancer Institute's intramural program. Dr. Hazra's research interests include studying the long-term effects of HIV and its treatment on children, adolescents, and young adults who acquired HIV as infants. His research interests also include clinical trials of new antiretroviral medications and treatment strategies for children with HIV, especially in resource-limited countries. Dr. Hazra received his bachelor's degree in biology from Yale University and his medical degree from the Johns Hopkins University School of Medicine. Following graduation from medical school, he completed a pediatric residency and pediatric infectious disease fellowship at Children's Hospital in Boston. He is certified by the American Board of Pediatrics in both pediatrics and pediatric infectious diseases.



Christopher Horvat, M.D., M.H.A., is board-certified in Pediatrics, Pediatric Critical Care Medicine and Clinical Informatics. He earned a BS in Chemistry at the University of North Carolina at Chapel Hill in 2006, graduating with highest honors and distinction. He completed medical school at the University of North Carolina at Chapel Hill in 2010, during which time he was elected into Alpha Omega Alpha Medical Honor Society. Dr. Horvat completed a residency in General Pediatrics at the University of Washington Affiliated Hospitals/Seattle Children's Hospital, where he served as Associated Chief

Resident and received the Seattle Children's Resident Peer-Teacher Award. He completed a fellowship in Pediatric Critical Care Medicine at UPMC Children's Hospital of Pittsburgh where he served as Chief Fellow. He went on to complete a National Institutes of Health T-32 Postdoctoral Research Fellowship in Pediatric Neurointensive Care at the University of Pittsburgh Safar Center for Resuscitation Research in 2017. In 2017 he also earned a Master's Degree in Health Administration (MHA) from the University of Pittsburgh Graduate School of Public Health's Department of Health Policy and Management and was inducted into Delta Omega national public health honor society. Dr. Horvat's academic interests focus on the National Academy of Medicine's Learning Health System concept. He is currently funded by a K23 career development award (1K23HD099331-01A1) titled "A Learning Health System Approach to Precision Sedation and Analgesia in Critically III Children" from the National Institute for Child Health and Human Development (NICHD). Inhis current work, Dr. Horvat aims to utilize a combination of electronic health record-derived datasets, pharmaco kinetic models and pharmacogenomic insights to develop advanced clinical decision support tools to help refine the use of potent sedatives and analgesic medications in the pediatric intensive care unit. He also serves a number of other roles in clinical informatics, including leading the development of informatics-integrated multidisciplinary workflows for detecting and treating pediatric sepsis, spearheading the creation of artificial intelligence tools for predicting inpatient pediatric deterioration events, and helping to deploy randomized, embedded, multifactorial, adaptive, platform (REMAP) trials across the UPMC system.



Rev. Calvin Keene, is the pastor of Memorial Baptist Church in Baltimore and a member of the Johns Hopkins Medicine IRB Committee # 5 and Emergency Response IRB.



Rosalind King, Ph.D., was named NICHD Associate Director for Prevention in January 2018. She also continues her responsibilities as a program director with the Population Dynamics Branch. NICHD's Associate Director for Prevention coordinates and promotes institute programs related to the prevention of health problems of mothers and children. The institute portfolio includes prevention-focused activities in the basic, translational, and clinical research realms. As a PDB program director, Dr. King has guided large interdisciplinary initiatives such as the NICHD-led Science and Ecology of Early Development program and the Work, Family, and Health Network. She oversees the Population Dynamics Research Infrastructure Program and scientific grant portfolios on biosocial approaches, fertility and infertility, and lifecourse health. Dr. King chairs the NICHD Reproductive Health Interest Group and serves as a project scientist for the Science of Behavior Change program within the NIH Common Fund. She also manages the institute's involvement with the National

Survey of Family Growth, an interagency activity with the National Center for Health Statistics. She has published on methodological approaches for measuring infertility with population-level data, the use of infertility services and assisted reproductive technologies in the United States, and the effects of work-family interventions on adolescent and adult health.



Sara Kinsman, M.D., Ph.D., M.S.C.E., serves as the Director of the Division of Child, Adolescent and Family Health (DCAFH) in the Maternal and Child Health Bureau (MCHB) of the Health Resources and Services Administration (HRSA) in Health and Human Services. The Division of Child, Adolescent and Family Health aims to advance strength-based health promotion; enhance injury prevention in schools and communities, and expand and improve emergency medical services and emergency preparedness for all our nation's children, adolescents and young adults. Prior to joining HRSA, Dr.

Kinsman served as the Director of the Division of Maternal, Child and Family Health in the Philadelphia Department of Public Health. During her tenure as director, Dr. Kinsman led the development of the Philadelphia Maternal and Infant Community Action Network; re-energized the Philadelphia Fetal and Infant Mortality Review Team; and supported the creation of innovative breastfeeding and safe sleep campaigns. She also worked to increase access to long acting reversible contraception and educated providers about the importance of strength-based, trauma-informed adolescent health care.

Prior to joining the Philadelphia Department of Public Health, Dr. Kinsman was an Associate Professor of Clinical Pediatrics and Director of Inpatient Adolescent Medicine Services at the Children's Hospital of Philadelphia. Dr. Kinsman received her medical degree from the University of Pennsylvania School of Medicine, and completed her General Pediatric Residency and Adolescent Medicine Fellowship at the Children's Hospital Of Philadelphia. With support from the Robert Wood Johnson Foundation Clinical Scholars program, Dr. Kinsman completed her Master's Degree in Clinical Epidemiology and PhD in Sociology at the University of Pennsylvania.



Karen Koski-Miller, LCSW-C., serves as the Senior Associate for Disaster Mental Health (DMH) for the American Red Cross – National Headquarters. Her role involves leading a cadre of 2500+ licensed and retired Disaster Mental Health volunteer professionals and developing doctrine and training for Red Cross DMH workers. She also works with partner agencies and participates in other Red Cross initiatives as appropriate.

Prior to her work with the Red Cross, Karen's career included leadership roles within the Maryland criminal justice system, most recently as the Director of Social Work for the Maryland Department of Public Safety and Correctional Services. While leading a team of 25-30 social workers at adult correctional

facilities throughout Maryland, Karen oversaw release/reentry planning for medical parolees, served on a Governor's task force for Social Determinates of Health, and participated in the development and revision of cognitive behavioral group programming for eligible offenders.Ms. Koski-Miller previously worked for the Maryland Office of the Public Defender's Client Services Division. In this role, she conducted psychosocial evaluations for adults charged with serious felonies and prepared mitigation reports for possible alternatives to incarceration, as well as waiver/transfer hearings for juvenile offenders facing adult prosecution. Karen was

also the Forensic Coordinator for Springfield Hospital Center and participated in preparation of competency/criminal responsibility evaluations for hospitalized adults, as well as representation of the hospital's case for retention hearings as required by statute. Karen first volunteered with Red Cross Disaster Mental Health during the 2005 Hurricane Katrina response, as a partner member of the Maryland Medical Reserve Corps. She has volunteered in Disaster Mental Health leadership and staff roles on a number of national disaster relief operations including the El Paso Walmart Shooting, the Puerto Rico Earthquake and Hurricanes Ida, Florence and Harvey.

Karen's academic background includes a master's degree in social work from the University of Maryland School of Social Work, with a specialization in adult mental health. She is a licensed clinical social worker and board approved supervisor as authorized by the Maryland Board of Social Work Examiners in Maryland. She is a member of the National Association of Social Workers.



Steven Krug, M.D., is a professor of Pediatrics at the Feinberg School of Medicine at Northwestern University. His primary areas of interest lie within the broad continuum of emergency medical services for children (EMSC). He is interested in issues relating to pediatric readiness of the various components of the EMSC continuum, including prehospital and hospital-based services. Within the realm of pediatric emergency care, he is interested in a variety of clinical issues, including care quality and patient safety. More recently, he has focused on issues relating to pediatric disaster preparedness. His interests in EMSC also include public policy and health care access.



Nathan Kuppermann, M.D., M.P.H., is a Distinguished Professor of Emergency Medicine and Pediatrics, and the Bo Tomas Brofeldt Endowed Chair of the Department of Emergency Medicine at UC Davis. He is a pediatric emergency medicine (PEM) physician and clinical epidemiologist, and a leader in emergency medical services for children, particularly in multicenter research. Research foci for which he is a leading national investigator include 1) infectious emergencies in children including the laboratory evaluation of young febrile children, 2) the evaluation of children at risk of diabetic ketoacidosisrelated cerebral injury, and 3) the laboratory and radiographic evaluation of the pediatric trauma patient. His focus is on clinical trials and clinical prediction rules using

large cohorts of acutely ill and injured children. He has published works in all three focus areas in high-impact journals such as the New England Journal of Medicine, JAMA, BMJ, and the Lancet.

Dr. Kuppermann has received more than \$30 million in federal grants and contracts as a PI over the past decade, and has published more than 275 peer-reviewed publications (Hirsch Index 70). Dr. Kuppermann has been a leader in multicenter research in PEM, starting by chairing the first U.S. research network in PEM (the Pediatric Emergency Medicine Collaborative Research Committee of the AAP) from 1996-2000, and leading several investigations there. He then became one of the founding investigators and founding Chair of the Steering Committee of the Pediatric Emergency Care Applied Research Network (PECARN) since it's inception in 2001 until late in 2008, and remains one of the 7 network Pls. He recently completed a 4-year term as Chair of the Executive Committee of the (global) Pediatric Emergency Research Network (PERN), an international consortium of PEM research networks. He has mentored scores of trainees and junior faculty members, most of whom have gone on to academic careers, many of whom have secured federally-funded grants. Dr. Kuppermann has been recognized nationally for his research and mentorship. In 2009, Dr. Kuppermann received the Miller-Sarkin Mentoring Award from the Academic Pediatric Association, and in 2012 received the Jim Seidel Distinguished Service Award, from the Section on Emergency Medicine of the AAP for outstanding contributions to Pediatric Emergency Medicine. In 2010 and 2011, he received national research awards from the EMSC program of HRSA, the Society for Academic Emergency Medicine (SAEM), and the American College of Emergency Physicians. In 2015, he was recognized with the American College of American Physicians EBSCO/PEMSoft Achievement Award for outstanding contributions to pediatric emergency evidence-based medicine. In 2017 a PEM Scientific Research Mentoring award was named after him by the SAEM, and in 2020 he was awarded the Hibbard Williams Extraordinary Achievement Award from UC Davis Health as well as the UC Davis Faculty Distinguished Research Award from the Academic Senate, UC Davis. In 2003 he was a Fulbright Distinguished Scholar in the U.K. and in 2010 he was elected to the National Academy of Medicine. In 2022 he was the recipient of the Maureen Andrew Mentor Award from the Society for Pediatric Research.



Richard Kwok, Ph.D., is a Program Director in the Office of the Director, Office of Scientific Coordination, Planning, and Evaluation (SCOPE) at NIEHS. He focuses on health outcomes following both natural and anthropogenic disasters through the Disaster Research Response (DR2) Program. He works closely on implementation of data harmonization and data integration efforts across the environmental health sciences. He maintains a secondary appointment in the Epidemiology Branch at NIEHS and is an Investigator for the GuLFSTUDY. The study focuses on the potential health effects of clean-up workers, volunteers, and community members from the Deepwater Horizon disaster. Kwok specializes

in the environmental causes of a range of diseases, and the pervasive nature of the environment in disease etiology has allowed him to work on a number of different projects with domestic and international collaborators from federal, academic, and industry sectors. His work has included research into air and water pollution, including arsenic, and non-ionizing UV radiation exposures with outcomes including cardiovascular, respiratory, reproductive and cancer health outcomes. Kwok received his B.S.P.H. in environmental science, and his M.S.P.H. and Ph.D. in epidemiology from the University of North Carolina at Chapel Hill.

Betty Lai, Ph.D., is an Associate Professor in Counseling Psychology at Boston College. Lai's research



focuses on the impacts of the climate crisis and disasters on children. Her work has examined children's mental health symptoms, physical health symptoms, and school functioning following large-scale disasters (e.g., Hurricanes Katrina, Ike, Charley). Lai is also dedicated to training the next generation of scholars. Lai's book, The Grant Writing Guide: A Road Map for Scholars (Princeton University Press), includes strategies and insights gleaned from her interviews of scores of grant writing experts. Lai's work has been funded by the National Science Foundation and the National Institute of Mental Health. Lai was a Fellow in the Enabling the Next

Generation of Hazards and Disaster Researchers Program and a National Scholar for the Academy on Violence and Abuse. Her work has been recognized with awards from the American Psychological Association and the American Educational Research Association.



Lorah Ludwig, serves as the lead public health analyst and federal project officer for the Department of Health and Human Services, Health Resources and Services Administration's Regional Pediatric Pandemic Network.



Valerie Maholmes, Ph.D., is the Chief of the Pediatric Trauma and Critical Illness Branch at the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) at the National Institutes of Health. The Branch was established to encourage collaborative inquiry in basic, clinical, and translational research to promote discoveries, new treatment paradigms, and interventions that improve the quality of life for children and families who have experienced all forms trauma, life-threatening injury, or critical illness. In her role as Branch Chief, she sets the vision and priorities for research that addresses the continuum of psychosocial, behavioral, biological, and physiological influences that affect child health outcomes in trauma, injury, and acute care. Prior to leading the Branch, Dr. Maholmes served

as the program official in the Institute's Child Development and Behavior Branch where she directed the Social and Affective Development /Child and Family Processes program. In this capacity, she provided scientific leadership on the impact of specific aspects of physical and social environments on the health and psychological development of infants, children, and adolescents.



Yvonne Maldonado, **M.D.**, is Professor and Chief of the Division of Infectious Diseases, Department of Pediatrics at Stanford University School of Medicine. She is also the Senior Associate Dean for Faculty Development and Diversity at the Stanford School of Medicine. Dr. Maldonado attended Stanford University School of Medicine. She was a Pediatric resident and fellow in Pediatric Infectious Diseases at Johns Hopkins Hospital. Dr. Maldonado then served in the Public Health Service in the Epidemiology Intelligence Service (EIS) for the Centers for Disease Control and Prevention, where she was awarded the Alexander D. Langmuir Prize, named in honor of the founder of the EIS

Program. She has led a number of NIH, CDC, USAID, Gates Foundation and WHO funded domestic and international pediatric vaccine studies, as well as studies in prevention and treatment of perinatal HIV infection in the US, India, Mexico and Africa. With the onset of the COVID-19 pandemic she has over 10 clinical, epidemiology and laboratory-based studies in this area and is involved in epidemiologic modeling at the University, state and national level. She is the Chair of the American Academy of Pediatrics Committee on Infectious Diseases, a member of the Infectious Diseases Society of America, the Society for Pediatric Research, the Pediatric Infectious Diseases Society, the Society for Healthcare Epidemiology of America, and the American Public Health Association. She is a member of the Board of the Pediatric Infectious Diseases Society, a liaison to the USPHS Advisory Committee on Immunization Practices (ACIP) and previously a member of the Board of Scientific Counselors for the Office of Infectious Diseases at the Centers for Disease Control and Prevention. Dr. Maldonado has published over 200 peer-reviewed articles in scientific journals and is co-editor of the textbooks "Remington and Klein Infectious Diseases of the Fetus and Newborn Infant" and "Report of the American Academy of Pediatrics Committee on Infectious Diseases (Red Book)".

Debbie Malone, is a Program Coordinator at Child Care Aware Northwest Arkansas.



Kenneth Mandl, M.D., M.P.H., directs the Computational Health Informatics Program at Boston Children's Hospital and is the Donald A.B. Lindberg Professor of Pediatrics and Biomedical Informatics at Harvard Medical School. He is trained as a pediatrician and pediatric emergency physician. His work at the intersection of population and individual health exerts a sustained influence on the developing field of biomedical informatics. He was a real time biosurveillance pioneer. Having long advocated for patient participation in producing and accessing data, Mandl was a designer of the first personal health and participatory surveillance systems. Cognizant of electronic

health record system limitations, Mandl was a developer of SMART on FHIR (substitutable apps running universally on health IT) for innovators to reach large markets and patients and doctors to access an "app store for health." Through his influence on the 21st Century Cures Act, federal regulations require support for SMART interfaces, ensuring standardized access to individual and population data at system scale, "without special effort." He leads the federated Genomic Information Commons across nine top children's hospitals and directs the Boston Children's Hospital PrecisionLink Biobank for Health Discovery. Dr. Mandl has been elected to the National Academy of Medicine, American Society for Clinical Investigation, Society for Pediatric Research, American College of Medical Informatics and American Pediatric Society. He is a recipient of the he Presidential Early Career Award for Scientists and Engineers, the Donald A.B. Lindberg Award for Innovation in Informatics and the Clifford A. Barger Award for top mentors at Harvard Medical School. His trainees lead informatics in academia and in the world's largest technology companies. He was advisor to two Directors of the CDC and chaired the Board of Scientific Counselors of the NIH's National Library of Medicine. Dr. Mandl teaches and mentors extensively at the postgraduate level and leads an NIH-funded training program in biomedical informatics and genomics.



Ann Masten, Ph.D., L.P., Regents Professor of Child Development at the University of Minnesota, is internationally known for her research on resilience in human development, particularly in the context of homelessness, poverty, disaster, war, and migration. She completed her BA at Smith College, PhD in clinical psychology at the University of Minnesota, and clinical internship at the UCLA Neuropsychiatric Institute. She has served as President of the Society for Research in Child Development and the developmental division of the American Psychological

Association (APA). She is the recipient of numerous awards, including the Bronfenbrenner Award for Lifetime Contributions to Developmental Psychology from APA and election to the American Academy of Arts and

Sciences. Dr. Masten has published more than 200 scholarly works, including the book, Ordinary Magic: Resilience in Development. She offers a free MOOC (Mass Open Online Course) on "Resilience in Children Exposed to Trauma, Disaster and War" that has been taken thousands of participants from more than 180 countries.



Jacqueline "Jack" Meszaros Ph.D., is NSF's Science and Technology Advisor for Natural Hazards, Disasters and Resilience, coordinating disaster-relevant interagency and cross-directorate activities across the Foundation. From 2015-2019, she served as the Senior Policy Advisor and Assistant Director for Natural Hazards Resilience at the White House Office of Science and Technology Policy (OSTP). She has provided science advice to the National Academy of Sciences and NASA, among others. Prior to serving in OSTP, from 2004-2015, Jack was a program director then a policy analyst for NSF and the National Science Board. Before joining NSF, Jack held faculty positions at the University of Washington, Bothell, and Temple University. Her research focused on

decision making about ambiguous and low-probability risks, including earthquake, accident, and medical risks. Her research has appeared in the Journal of Risk and Uncertainty, Risk Analysis, and the Journal of Clinical Epidemiology, among others. In her faculty capacity, Jack was a researcher with the Pacific Earthquake Engineering Research Center, served as an elected officer of the Institute for Operations Research and the Management Sciences, and an area editor for the INFORMS Journal on Applied Analytics.



Craig Newgard, M.D., M.P.H., is an emergency physician, physician scientist, and Professor of Emergency Medicine at Oregon Health & Science University in Portland, Oregon. He serves as Vice Chair of Research & Academic Affairs and Director of the Center for Policy and Research in Emergency Medicine at OHSU. He has been funded through federal research grants (NIH, AHRQ, CDC, and HRSA) for 22 years, with a focus on improving systems of care for emergency services and trauma. He has served on multiple national

committees, including the 2011 and 2021 Expert Panels for the national field trauma triage guidelines. His current research examines emergency department (ED) pediatric readiness (preparedness) and outcomes among children, how changes in ED readiness over time affect pediatric survival, and firearm injury prevention in children. Dr. Newgard has been involved in multiple national scientific leadership positions, emergency care research networks, has mentored over 50 interdisciplinary trainees, and has led two NIH K12 institutional training programs in emergency care research. He was elected to the National Academy of Medicine in 2019.



Lori Peek, Ph.D., is director of the Natural Hazards Center and professor in the Department of Sociology at the University of Colorado Boulder. She is recipient of the Fred Buttel Distinguished Contribution Award for Environmental Sociology. She wrote the award-winning book Behind the Backlash: Muslim Americans after 9/11, co-edited Displaced: Life in the Katrina Diaspora and the Handbook of Environmental Sociology, and co-authored Children of Katrina and The Continuing Storm. Peek also helped develop and write school safety guidance for the nation, which resulted in the publication of FEMA P-1000, Safer, Stronger, Smarter: A Guide to Improving School Natural Hazard Safety. In 2021, she was nominated by President Joseph Biden and approved by the U.S. Senate to serve on the Board of the National Institute of Building Sciences. Peek's research is currently funded by the National Science Foundation, U.S. Geological Survey, Andrew A. Mellon Foundation, and Margaret A. Cargill Philanthropies. She has

conducted field investigations in the aftermath of several major disasters and recently testified before members of the U.S. Congress on the topic of Ensuring Equity in Disaster Preparedness, Response, and Recovery. Peek is the principal investigator for the NSF-funded CONVERGE facility, which is dedicated to improving research coordination and advancing the ethical conduct and scientific rigor of disaster research. She also leads the NSF-supported Social Science Extreme Events Research (SSEER) and Interdisciplinary Science and Engineering Extreme Events Research (ISEEER) networks. Peek is co-principal investigator for an NSF-effort focused on advancing interdisciplinary methods and approaches for hazards and disaster research. She is also co-leading a U.S. Geological Survey funded project on earthquake early warning systems in schools, and she is principal investigator for a recently funded project on reducing social vulnerability to disasters. Her work has appeared in a variety of scholarly outlets including Nature, Journal of the American Medical Association (JAMA), Child Development, Sociological Inquiry, Qualitative Research, and Disasters, among

others. In 2021, she and Mithra Moezzi received the Best Paper Award from Risk Analysis. In 2016, Peek received honorable mention for the Leo Goodman Award for Outstanding Contributions to Sociological Methodology from the American Sociological Association Section on Methodology. And in 2009, the American Sociological Association Section on Children and Youth honored her with the Early Career Award for Outstanding Scholarship. In addition to the recognition for her scholarship, Peek has received nearly a dozen awards for her teaching and mentoring. Notably, she received the 2016 Board of Governor's Excellence in Undergraduate Teaching Award, which is the highest teaching honor bestowed at her former institution, Colorado State University. Peek regularly works with graduate and undergraduate research and teaching assistants, and has mentored numerous postdoctoral scholars and doctoral, master's, and undergraduate advisees throughout her career. She was recognized with the Outstanding Postdoctoral Mentor Award at the University of Colorado Boulder in 2019. Peek regularly teaches a 400-student large lecture Introduction to Sociology class. Peek is the past President of the Research Committee on Disasters for the International Sociological Association and is past Chair of the American Sociological Association Section on Environmental Sociology. She served as co-PI for the NSF INCLUDES Minority SURGE Capacity in Disasters project, and is a Board Member for the William Averette Anderson Fund; both initiatives are dedicated to increasing the number of people of color in hazards and disaster research and practice. She served as an appointed member of the National Academies Resilience Roundtable, a member of the oversight committee for the Mitigation Saves 2.0 study, and a federally-appointed member of the Advisory Committee on Earthquake Hazards Reduction (ACEHR) for the National Earthquake Hazards Reduction Program (NEHRP). Peek earned her B.A. in Sociology from Ottawa University in her home state of Kansas, M.Ed from Colorado State University, and Ph.D. in Sociology from the University of Colorado Boulder. She was a research assistant at the Natural Hazards Center from 1999-2005, and a faculty member in Sociology at Colorado State University from 2005-2016. She returned to the University of Colorado Boulder in 2017.



Terrence Perry, is the Director of the Office of Grant Services at the Centers for Disease Control and Prevention.



Karen Remley, M.D., M.P.H., M.B.A., F.A.A.P., is the Director for the National Center on Birth Defects and Developmental Disabilities (NCBDDD). She has more than 30 years of experience in public health and health care, with leadership roles in the public and private sectors. Her "north star" has always been children and families, and she has shaped her career around helping every family have the best opportunity for health and well-being. Prior to joining NCBDDD, Dr. Remley served as Senior Advisor to the COVID-19 response for the Office of the Commissioner, Virginia Department of Health, where she was instrumental in increasing and assuring testing for COVID-19 to ensure it was widely available across the Commonwealth of Virginia. She also worked as a Professor of

Pediatrics at Eastern Virginia Medical School. Dr. Remley has served on many national committees and commissions working on public health education, health equity, and patient safety, including her roles as Chief Executive Officer of the American Academy of Pediatrics; Commissioner of Health for the Commonwealth of Virginia under two governors; Chief Medical Director of Anthem Blue Cross Blue Shield Virginia; and Chief Executive Officer of Physicians for Peace. In 2018, she served as the Inaugural Senior Fellow at the de Beaumont Foundation, a foundation dedicated to pragmatic solutions to improve public health. Dr. Remley earned an MBA from the Fuqua School of Business at Duke University, an MPH at the University of Massachusetts Amherst, and her MD from University of Missouri in Kansas City. She completed her pediatrics residency at St. Louis Children's Hospital-Washington University School of Medicine in St. Louis.



Adam Resnick, M.D., Ph.D., is the Co-Executive Director of Data Driven Discovery in Biomedicine (D3b) at Children's Hospital of Philadelphia (CHOP) responsible for leading a multidisciplinary team to build and support a scalable, patient-focused healthcare and educational discovery ecosystem on behalf of all children. He is also responsible for all scientific and fiscal responsibility for projects within the Center including: center leadership, supervision of bioinformatics, genomics, visualization tools and software development for the data resource portal shared by various center initiatives. Adam's research is focused on defining the cell signaling mechanisms of oncogenesis and tumor progression in brain tumors. His research lab studies cell signaling cascades and their alterations in pediatric brain tumors to elucidate the molecular and genetic underpinnings

of each tumor in an effort to identify and develop targeted therapies. Adam serves as Scientific Chair for several consortia-based efforts, including the Children's Brain Tumor Network (CBTN) and Pacific Pediatric Neuro-Oncology Consortium (PNOC), which include more than 20 pediatric hospitals across the globe. Adam earned a dual-bachelor's in neuroscience and English & literature from the University of Florida before completing a PhD in neuroscience from Johns Hopkins University in Baltimore, MD.



Rebecca Rosen, Ph.D., is the director of the new Office of Data Science and Sharing, established in July 2021, where she oversees responsible use of data and biospecimens generated by the NICHD community. She also is the product owner for the NIH Researcher Auth Service (RAS), a resource for centralized and secure identity and access management across the NIH research data ecosystem.

Previously, Dr. Rosen was a senior advisor in the Office of Technology Development and Coordination at the National Institute of Mental Health (NIMH) and the program lead for the NIMH

Data Archive (NDA). NDA, NIMH's single data repository for human subjects data, securely makes available for secondary analysis clinical, phenotypic, imaging, and -omics data from more than half a million research participants.

Prior to joining NIH, Dr. Rosen was a research assistant professor at New York University's (NYU) Institute for the Study of Decision Making and chief data officer for the Human Project. She also was associate director for data resources and data strategy at NYU's Center for Urban Science and Progress. Before joining NYU, Dr. Rosen co-founded the Center for the Science of Science & Innovation Policy at the American Institutes for Research, working with U.S. and international science funders to build data platforms for research management. She has been a policy analyst at both the National Science Foundation and NIH. Dr. Rosen earned a Ph.D. in neuroscience from Emory University and a B.S. in psychobiology from Yale University.



Diana Rutberg, **M.B.A.**, is Chief of the Grants Management Branch at the National Institute of Dental and Craniofacial Research at the National Institutes of Health.



Meg Sullivan, **M.D.**, **M.P.H.**, is the Chief Medical Officer in the Office of the Assistant Secretary for Preparedness and Response.



Jeffrey Schlegelmilch, M.P.H., M.B.A., is a Research Scholar and the Director of the National Center for Disaster Preparedness, Columbia Climate School, at Columbia University. In this role he oversees the operations and strategic planning for the center. Before becoming director, he served as the center's deputy director for more than five years. He also oversees projects related to the practice and policy of disaster preparedness, including the multi-award winning Resilient Children / Resilient Communities Initiative. His areas of expertise includes public health preparedness, community resilience and the integration of private and public sector capabilities. Prior to his work at Columbia, he was the Manager for the

International and Non-Healthcare Business Sector for the Yale New Haven Health System Center for Emergency Preparedness and Disaster Response. He was also previously an epidemiologist and emergency planner for the Boston Public Health Commission. He has advised leaders on preparedness systems and policy at all levels of government. He is an Opinion Contributor with The Hill and is frequently utilized as a subject matter expert for numerous media outlets. He is also the author Rethinking Readiness: A brief guide to twenty-first-century megadisasters published by Columbia University Press. He holds a Master's degree in Public Health from UMASS Amherst in Health Policy and Management, and a Master's degree in Business Administration from Quinnipiac University.

David Schonfeld, M.D., is a developmental-behavioral pediatrician in General Pediatrics at Children's Hospital



Los Angeles and director of the National Center for School Crisis and Bereavement (NCSCB). He holds a joint appointment at the Keck School of Medicine of USC. In 2005, Schonfeld established the NCSCB with funding from the September 11th Children's Fund and the National Philanthropic Trust. Further funding from the New York Life Foundation has allowed the center to provide ongoing and expanded services. The center aims to promote an appreciation of the role that schools play to support students, staff and families at times of crisis and loss; to collaborate with organizations and agencies to further this goal; and to serve as a resource for information, training materials, consultation and technical assistance. Schonfeld has authored more than 100 scholarly articles, book chapters and books (e.g., The

Grieving Student: A Teacher's Guide, Brookes Publishing) and has given more than 800 presentations on the topics of pediatric bereavement and crisis. He has provided consultation and training on school crisis and pediatric bereavement in the aftermath of a number of school crisis events and disasters within the United States and abroad, including school and community shootings in Newtown, Connecticut; Marysville, Washington; Aurora, Colorado, Chardon, Ohio; and Townville, South Carolina; flooding from hurricanes Sandy in New York and New Jersey, Katrina in New Orleans, and Ike in Galveston, Texas; 2008 earthquake in Sichuan, China; tornadoes in Joplin, Missouri and Alabama; and Great Smoky Mountain wildfires in Sevierville, Tennessee. He has also conducted school-based research (funded by NICHD, NIMH, NIDA, the Maternal and Child Health Bureau, William T. Grant Foundation and other foundations) involving children's understanding of and adjustment to serious illness and death, as well as school-based interventions to promote adjustment and risk prevention. Schonfeld is a member the American Academy of Pediatrics Disaster Preparedness Advisory Council, serving as commissioner for both the National Commission on Children and Disasters as well as the Sandy Hook Advisory Commission in Connecticut. He was president of the Society for Developmental and Behavioral Pediatrics from 2006 to 2007.

Joelle Simpson, M.D., M.P.H., is the Medical Director for Emergency Preparedness at Children's National



Health System. In this role, Joelle provides strategic leadership for Children's National's disaster preparedness, response, and community outreach efforts. She is the Program Director for the Emergency Medical Services for Children (EMSC) State Partnership program in Washington DC working on a current national project to improve the everyday "pediatric readiness" of local emergency departments. She is also an appointed member of the DC Mayor's Emergency Medical Services Advisory Council for DC serving as a pediatric advocate in the development of prehospital policies and protocols. Dr. Simpson also founded the Pediatric Medical Reserve Corp of DC which provides specialized pediatric support services to the DC community in preparation for, response to, and recovery from disaster, pandemic, and mass-casualty events involving children and families. On a regional level she participates in the National

Photograph of Joelle Simpson, MD, MPH Capital Region planning for pediatric surge and disaster response. Locally, she represents Children's National at the DC Department of Health – Health and Medical Coalition which coordinates multiple agencies and organizations around emergency preparedness for Washington DC. She serves on the pediatric emergency medicine and disaster committees for the American Academy of Pediatrics and the American College of Emergency Physicians.



Megan Singleton, J.D., M.B.E., C.I.P., is Associate Dean for Human Research Protection and Director of the Human Research Protection Program at Johns Hopkins University School of Medicine. In this role she is responsible for oversight and direction of JHM's 8 IRBs. Ms. Singleton is a licensed attorney in Pennsylvania. She earned her law degree from Temple University and her Masters in Bioethics from the University of Pennsylvania. In addition to her role in leading the Johns Hopkins Medicine HRPP, she serves as the director of central IRB (CIRB) activities for the Johns Hopkins/Tufts Trial Innovation Center (TIC), leading the charge for innovations in operationalizing single IRB (sIRB) review. Ms. Singleton serves as a member of the SMART IRB

Harmonization Steering Committee, is an AAHRPP, Inc. site visitor and member of AAHRPP council and is a member of the Steering Committee for AEREO, a consortium designed to advance effective research ethics oversight through empirical research. Ms. Singleton currently teaches at the graduate level at the University of Pennsylvania and Johns Hopkins University, leading courses in research ethics and clinical trial management. She has developed research ethics curriculum and practical training in IRB administration tailored for national and international audiences. Ms. Singleton is a member of the PRIM&R Board of Directors and serves as Co-Chair of PRIM&R's Certification Committee and as PRIM&R Board Secretary.

Robert Tamburro, M.D., MS.c., is a Pediatric Intensive Care and Hospice and Palliative Care Medicine Physician who joined the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) in June 2014. He graduated from the Northeastern Ohio Universities College of Medicine in 1986 and completed his Pediatric Critical Care Medicine training at LeBonheur Children's Medical Center, University of Tennessee Health Science Center, in 1992. He has worked clinically in the field since then and continues to do so to date. Dr. Tamburro has recently assumed a new position at NICHD as a Senior Adviser for Clinical Research for the Division of Extramural Research.

Perdita Taylor-Zapata, M.D., is a Physician with the Obstetric and Pediatric Pharmacology and Therapeutics



Branch at the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), where leads the effort for the implementation of the Best Pharmaceuticals for Children Act (BPCA) at the NICHD. She is a pediatrician from the Washington Metropolitan area. She graduated from Howard University Medical School in 1994, and completed her pediatric residency training at the Children's National Medical Center in Washington, D.C. After her residency, she worked at the National Institutes of Health Clinical Center as a clinic physician in the Pediatric HIV Working Group of the National Cancer Institute. There she spent 7 years taking care of the outpatient and inpatient medical needs of the HIV-positive pediatric patients enrolled in phase I/II clinical

treatment trials. In addition to her role as a staff physician, she was also involved in medical research, writing parts of clinical protocols and conducting retrospective and prospective research projects. Since 2004, she has worked in OPPTB, starting as the primary outreach liaison for the BPCA Program, then as the Program official for the BPCA Data Coordinating Center (DCC), and now as the primary program lead for the entire BPCA Program, including the Pediatric Trials Network, the DCC and the logistics contract team. In addition to pediatric drug development, Dr. Taylor-Zapata also has research interests in pharmacoepidemiology, workforce diversity, and adverse effects of medications used in children.



Jeffrey Uppermann, M.D., F.A.C.S., is a professor and Chair of the Department of Pediatric Surgery at Vanderbilt University Medical Center and Surgeon-in-Chief at Monroe Carell Jr. Children's Hospital.



Shan Ward, M.D., is an Assistant Professor in the Division of Pediatric Critical Care at UCSF. Her clinical research expertise involves the study of obesity in children with acute respiratory failure as well as the development of common data elements to standardize and improve the quality of data collection for multi-center studies.



Debra Weiner, M.D., Ph.D., is an attending physician of emergency medicine at Boston Children's Hospital and the director of the Pediatric Disaster Beth Israel Deaconess Medical Center Disaster Fellowship. She is also an assistant professor of pediatrics at Harvard Medical School.



Jonathan White, Ph.D., L.C.S.W-C, C.P.H., is a career officer in the U.S. Public Health Service Commissioned Corps and a Maryland licensed certified social worker-clinical. He is an emergency manager specializing in the needs of children and vulnerable populations in crisis events. He is currently stationed in the HHS Office of the Assistant Secretary for Preparedness and Response as the Director of Recovery in the Office of Emergency Management and Medical Operations. He led the mission to reunify children separated from their parents at the U.S. border as the Federal Health Coordinating Official/HHS Operational Lead for the reunification mission. Prior to joining ASPR, he was the Deputy Director for Children's Programs in the Administration for Children and Families (ACF) Office Of Refugee Resettlement

(ORR), where he led the Unaccompanied Alien Children Program, which provides care and services to 40,000-60,000 children and youth annually who enter the U.S. without parents or legal guardians. He previously served as Senior Adviser in ACF's Immediate Office of the Assistant Secretary, responsible for crisis management, public health, and strategic initiatives. Prior to that he served as Deputy Director of ACF's Office of Human Services Emergency Preparedness and Response. Earlier in his social work career he was an oncology social worker with the National Institutes of Health Clinical Center, working with advanced cancer patients and their families. Previous to his social work career he was a college professor and labor union campaign staffer. He has deployed or held national-level leadership roles in over 50 domestic disaster, public health emergency, UAC influx, and programmatic crisis events.



Robert Wright, M.D., M.P.H., is a pediatrician, medical toxicologist, and environmental epidemiologist at the Icahn School of Medicine at Mount Sinai. He is the Ethel H. Wise Chair of the Department of Environmental Medicine and Public Health, Co-Director of the Institute for Exposomic Research, and Principal Investigator of an ongoing longitudinal birth cohort in Mexico City (Programming Research in Obesity, Growth, Environment and Social Stress--PROGRESS) in collaboration with the National Institute of Public Health, Mexico. He also founded the (Metals Assessment Targeting Community Health) MATCH study in Tar Creek, Oklahoma. In September 2018, he joined the National Advisory Environmental Health Sciences Council (NAEHSC), a Congressionally mandated body that advises the

secretary of Health and Human Services, the director of NIH, and the director of the National Institute of Environmental Health Sciences (NIEHS) on matters relating to the direction of research, research support, training, and career development supported by the NIEHS. Dr. Wright studies chemical mixtures, social stressors as a modifier of chemical toxicity, and the role of genetics/epigenetics in modifying or mediating chemical toxicity. He is an international advocate for research on exposomics—the measure of all health relevant human exposure throughout the lifespan. He has published over 200 research studies and has served on numerous international and national committees and advisory boards. Dr. Wright founded the Senator Frank Lautenberg Laboratory of Environmental Health Sciences at Mount Sinai in 2014 and in 2020 launched the Laboratory for Innovation in Exposomic Precision Medicine. He is a graduate of the University of Michigan Medical School and completed residency in Pediatrics at Northwestern University, as well as the following fellowships: Emergency Medicine, (Brown University), Medical Toxicology (Harvard University), Environmental Epidemiology, (Harvard University) and Genetic Epidemiology (Harvard University). Finally, he also established the Mount Sinai Transdisciplinary Center on Early Environmental Exposures—a NIH funded Core Center grant program that provides infrastructure support to Mount Sinai environmental researchers.