

Standing Committee on Emerging Infectious Diseases and 21st Century Health Threats

Committee

Gerald W. Parker

Chair

Dr. Gerald W. Parker, D.V.M., Ph.D. is a nationally recognized leader in biodefense, health security, and pandemic preparedness. With more than 36 years of federal public service—including 26 years on active duty in the U.S. Army—he has held senior executive leadership roles in the White House National Security Council (NSC), Department of Defense (DOD), Department of Health and Human Services (HHS), and Department of Homeland Security (DHS). His leadership experience includes serving as the Special Assistant to the President and Senior Director for Biosecurity and Pandemic Response in the NSC; Principal Deputy Assistant Secretary for Preparedness and Response at HHS; Deputy Assistant Secretary for Chemical and Biological Defense at DOD; and Commander and Deputy Commander of the U.S. Army Medical Research Institute of Infectious Diseases. Dr. Parker also served as senior advisor for the Assistant Secretary for Preparedness and Response at the Department of Health and Human Services from August 2020 to February 2021. He has testified before Congress and served on multiple national advisory boards. His awards include the Distinguished Executive Presidential Rank Award and the Secretary of Defense Medal for Meritorious Civilian Service. Currently, Dr. Parker serves as Associate Dean for Global One Health at the College of Veterinary Medicine & Biomedical Sciences and Director for the Biosecurity and Pandemic Policy Center at the Bush School of Government & Public Service at Texas A&M University.

Nahid Bhadelia

Member

Dr. Nahid Bhadelia, M.D., M.A.L.D. is the Founding Director of Boston University Center for Emerging Infectious Diseases and the Biothreats Emergence, Analysis and Communications Network (BEACON). She is a board-certified infectious diseases physician and an Associate Professor at the BU School of Medicine. She served as the Senior Policy Advisor for Global COVID-19 Response for the White House COVID-19 Response Team in 2022-2023 as well as the interim Testing Coordinator on the White House MPOX Response Team. Between 2011-2021, Dr. Bhadelia helped develop and then served as the medical director of the Special Pathogens Unit (SPU) at Boston Medical Center, a medical unit designed to care for patients with highly communicable diseases. She was also previously an associate director for BU's maximum containment research program, the National Emerging Infectious Diseases Laboratories. She has provided direct care and helped lead medical and research response to multiple viral hemorrhagic fever outbreaks in East and West Africa. Dr. Bhadelia's research focuses on global health security and pandemic preparedness, including medical countermeasure evaluation and clinical care for emerging infections, diagnostics evaluation and positioning, infection control policy development, and healthcare worker training. She is a member of the National Academies Forum on Microbial Threats and was previously a member of the National Academies Ad Hoc Committee on Current State of Research, Development, and Stockpiling of Smallpox Medical Countermeasures. Disclosure of other relevant information: She is a member of Pan American Health Organization's (PAHO) Strategic Advisory Group on Pandemic & Epidemic Threats. She receives grant funding from National Science Foundation, Department of War, Coalition for Epidemic Preparedness Innovations, and Gates Foundation.

David Callaway

Member

Dr. David Callaway, M.D. is a Professor of Emergency Medicine at Advocate Health in Charlotte, NC where he is the Enterprise Global Health Security and Sustainability for one of the largest health systems in the United States. In this role, Dr. Callaway leads the execution of the Advocate Health climate resilience strategy that includes transforming clinical operations to achieve net zero carbon goals. In addition, he directs the Office of Operational Medicine and leads all enterprise national security engagements. In 2024, Callaway was appointed as the Senior Associate Dean of Planetary Health at Wake Forest University School of Medicine, responsible for leading multidisciplinary academic and research teams to address the triple threat to human health of climate change, environmental pollution and biodiversity loss. Dr. Callaway earned his Medical Degree from Georgetown University School of Medicine and completed residency training at the Harvard Affiliated Emergency Medicine Residency. He holds a master's in public administration focused on national security from the Harvard Kennedy School of Government. He is a member of the World Economic Forum of Young Global Leaders, the U.S. Global Leadership Coalition, and a life member of the Council on Foreign Relations. Disclosure of other relevant information: Advocate Health receives Mission Zero funding, a Military and Civilian Partnership for Trauma Readiness Grant Program administered by ASPR.

Christian J. Dameff

Member

Dr. Christian Dameff, M.D., M.S. is an associate professor of Emergency Medicine, Biomedical Informatics, and Computer Science at the University of California San Diego. He serves as the nation's first Medical Director of Cybersecurity at UC San Diego Health and is the co-director of the UC San Diego Center for Healthcare Cybersecurity (CHC). As a physician, hacker, and security researcher, Dr. Dameff's research focuses on the intersection of disaster medicine, cybersecurity, and patient safety. He has published healthcare cybersecurity research in journals like JAMA Open, JAMA Internal Medicine, and the Annals of Emergency Medicine. His focus over the last four years has been on revolutionizing hospital ransomware response as he leads the Healthcare Ransomware Resiliency and Response Program, a two-year initiative sponsored by the US Advanced Projects Agency for Health (ARPA-H). He holds a medical degree from the University of Arizona, and is board certified in Emergency Medicine and Clinical Informatics.

Asha Devereaux

Member

Dr. Asha Devereaux, M.D., M.P.H. received a Bachelor's degree in Biology from the University of California, San Diego, followed by an M.D. and M.P.H. from Tulane University School of Medicine and Public Health. Upon graduation, she served in the United States Navy achieving the rank of Commander while receiving Board Certification in Internal Medicine, Pulmonology, and Critical Care. During her 11-year Naval career, Dr. Devereaux served on the Navy Surgeon General's Panel for Tobacco Cessation, served as Head of Medicine at Beaufort Naval Hospital, served on numerous committees, and spent three years covering the USNS Mercy's Chemical/Biological ICU. She has Co-Chaired and remains on the Executive committee of the American College of Chest Physicians (ACCP) Mass Critical Care Task Force, has served on IOM/NAM and CDC panels for Influenza, America's Medical Supply Chain, and Crisis Care, is Past-Chairman of the ACCP Disaster Response Network and is a Past-President of the California Thoracic Society. She has responded to natural disasters ranging from fires to hurricanes, with the Medical Reserve Corps, the National Disaster Medical System and currently serves as the Sr. Medical Officer for San Diego CAL-MAT. She has provided COVID-19 care in Alternate Care Sites throughout Southern California. She has authored and collaborated on many publications advancing the field of disaster medicine. She was selected as a Top Doctor in San Diego in 2009 and 2021, selected Best of Coronado physicians in 2022, and in 2017, Dr. Devereaux was named the Outstanding Pulmonologist by the California Thoracic Society.

Melissa Harvey

Member

Melissa Harvey, M.S.P.H., B.S.N. is the Assistant Vice President for Enterprise Emergency Operations for HCA Healthcare, the nation's largest health system, comprised of 190 hospitals and 2000+ sites of care in 23 states and the United Kingdom. Melissa has more than 15 years of health security-related federal government service at DHS, HHS, and at the CIA. While at HHS, from 2015- 2019, Melissa served as the Director of National Healthcare Preparedness Programs in the Office of the Assistant Secretary for Preparedness and Response (ASPR), where she developed and advanced the implementation of policies, capabilities, and performance metrics that aimed to improve the nation's overall healthcare emergency readiness. Melissa led ASPR's domestic healthcare system response to Ebola in 2014-2015, including developing a regional and tiered infectious disease strategy for the nation's healthcare facilities that still exists today. In 2016-2017, she also concurrently served as the ASPR Chief of Staff, facilitating the Office's policy and legislative priorities and its \$1.5 billion budget. Melissa also has strategic and tactical healthcare emergency management experience, serving as the Director of Strategic Projects for the Global Center for Health Security at the University of Nebraska Medical Center and as the Manager of Emergency Management for Northwell Health in New York. Her primary professional and research expertise centers around developing and implementing metrics programs to assess health system and community readiness for emergency events. Melissa was a member of the COVID Crisis Group, which aimed to pave the way for a potential National COVID Commission, preserve the lessons learned during the crisis, and recommend solutions to safeguard the nation from future threats. The Group published its report, *Lessons from the COVID War: An Investigative Report* in March 2023. Melissa has clinical experience as an RN and an EMT. She attended Harvard University (M.S.P.H.), Boston College (B.A.), and George Mason University (B.S.N.), and is currently a Ph.D. candidate at the University of Nebraska Medical Center.

Dawn M. Heisey-Grove

Member

Dawn Heisey-Grove, Ph.D. is the Global Health Lead for AWS Social Responsibility and Impact, where she helps organizations worldwide use technology to improve health outcomes. She specializes in translating health and technology needs for public health agencies, helping them leverage cloud and AI solutions to respond to emergencies and prepare for future pandemics. Dawn began her career as an infectious disease epidemiologist at the Massachusetts Department of Public Health, pioneering automated data capture and analytics for disease surveillance. She has published over 2 dozen articles in public health and health informatics journals. Dawn holds a B.S. in Microbiology from University of Maryland, an M.P.H. in Epidemiology and Biostatistics from Boston University, and a Ph.D. in Health Outcomes Research from Virginia Commonwealth University.

Rachel K. Herlihy

Member

Dr. Rachel Herlihy, M.D., M.P.H. is the State Epidemiologist and Deputy Chief Medical Officer at the Colorado Department of Public Health and Environment. She has been with the Department since 2011 and has been Colorado's State Epidemiologist since 2017. Previously, Dr. Herlihy was the Deputy State Epidemiologist for Utah, and the Deputy Director for the Department of War's Infectious Diseases Clinical Research Program in Bethesda, Maryland. In her current role, she directs medical and epidemiologic activities for the Department including communicable disease reporting, surveillance, and investigation efforts. She led Colorado's epidemiologic response to the COVID-19 pandemic and was recognized for her work with the state's highest civilian honor, the Governor's Citizenship Medal. Dr. Herlihy is actively engaged with the Council of State and Territorial Epidemiologists through multiple committees and workgroups. Dr. Herlihy earned her MD and BS degrees in Bacteriology, and Medical Microbiology and Immunology at the University of Wisconsin. She completed an internal medicine internship at the University of Virginia and a preventive medicine residency at Johns Hopkins University, including an M.P.H. from the Johns Hopkins Bloomberg School of Public Health. Dr. Herlihy has previously participated in National Academies workshops on avian influenza. Disclosure of other relevant information: Colorado Department of Health is a recipient ASPR funding through the Hospital Preparedness Program (HPP) for healthcare system readiness.

John L. Hick

Member

Dr. John L. Hick, M.D. is a faculty emergency physician at Hennepin Healthcare and a Professor of Emergency Medicine at the University of Minnesota Medical School. He serves as the Deputy Medical Director for Hennepin County Emergency Medical Services and Medical Director for Emergency Preparedness at Hennepin Healthcare. He is also Assistant Medical Director for LifeLink III aeromedical services. Dr. Hick served the Minnesota Department of Health as the Medical Director for the Office of Emergency Preparedness from 2002-2014 and as the Incident Manager for the COVID-19 Statewide Healthcare Coordination Center in 2020. He has supported US Health and Human Services (HHS/ASPR) as an advisor to the National Hospital Preparedness Program since 2014 and conceptualized and serves as lead editor for the ASPR Technical Resources, Assistance Center, and Information Exchange (TRACIE) website since 2016. He is an expert on hospital preparedness and developed the initial framework for crisis standards of care. Dr. Hick has authored or co-authored over one hundred peer-reviewed articles dealing with hospital preparedness for contaminated casualties, disaster standards of care, surge capacity, and Medical Operations Coordination Centers. He has been fortunate to serve as a member or leader of multiple National Academies of Medicine committees and workgroups addressing crisis standards of care and disaster response issues.

Noreen A. Hynes

Member

Dr. Noreen A. Hynes, M.D., M.P.H. is an Associate Professor of Medicine (Infectious Diseases) and Public Health (International Health), Johns Hopkins University (JHU). Additionally, Dr Hynes serves as the interim Medical Director of the Johns Hopkins Hospital (JHH) Biocontainment Unit (BCU), its Associate Medical Director (Infectious Diseases) and the Director of Research; Director, Geographic Medicine Center, Division of Infectious Diseases, JHU School of Medicine (SOM); Co-Director, JHU Bloomberg School of Public Health (BSPH), Master of Public Health (M.P.H.) degree Infectious Disease Concentration. She has over 35 years of experience at the clinical-public health interface in both domestic and international settings addressing emerging and re-emerging infectious diseases, included those that are vaccine-preventable. Dr. Hynes previously served as a Deputy Assistant Secretary at the Department of Health and Human Services tasked with development and acquisition of medical countermeasures for the Strategic National Stockpile utilizing the \$8 billion Special Reserve Fund. She served as the JHU site principal investigator (PI) for the international Adaptive COVID-19 Treatment Trial (ACTT) which commenced in the very early months of the SARS-CoV-2 pandemic. Currently she serves at the site PI for several investigational treatments for patients admitted to the JHH BCU with emerging infectious diseases including Ebola Sudanvirus and Marburg virus. She serves as co-chair of the Clinical State of the Science Working Group of the Special Pathogens Research Network (SPRN) of the National Special Pathogens Training and Education Center (NETEC). Dr. Hynes is a practicing physician with board certifications in internal medicine and infectious diseases. She also holds an M.P.H. degree from JHU and a diploma in tropical medicine from the London School of Hygiene and Tropical Medicine. Dr. Hynes was a member of the 2023-2024 Committee on the Current State of Research, Development, and Stockpiling of Smallpox Medical Countermeasures with findings published in the Consensus Study Report "Future State of Smallpox Medical Countermeasures".

Stephen Murphy

Member

Dr. Stephen Murphy, Ph.D., M.P.H., M.B.A. is an Associate Professor of Environmental Health Sciences at Tulane University C.S. Weatherhead School of Public Health & Tropical Medicine, leading the M.S. in Health Security program. His experience spans two decades implementing STLT health security and readiness and response programs, including leadership roles in bioterrorism and medical countermeasure distribution strategies across major metropolitan areas (including the Cities Readiness Initiative), New Orleans hurricane evacuation strategy, numerous high-threat SEAR2+ events (e.g., Super Bowls, Mardi Gras), the BP Oil Spill, and infectious disease threat readiness. He is the principal investigator/director of the Region 6 Center for Health Security & Response Readiness, a CDC-funded initiative charged with improving readiness for pandemic and high-consequence pathogens, and the South-Central Public Health Training Center, which hosted 4+ million training hours covering preparedness/response from asynchronous, online workforce learners during 2020-2023. Dr. Murphy also served on the First Responder CBRN Workgroup with DHS's Countering Weapons of Mass Destruction Office, an extension of his work during the DHS-led, New Orleans-based Chemical Defense Demonstration Project. He holds a Ph.D. and an M.P.H. in Environmental Health Sciences from Tulane University, an M.B.A. in Health Systems Management from Mercer University, and a B.A. in Economics from the University of Georgia.

Christopher Newton

Member

Dr. Christopher Newton, M.D. is a clinically active pediatric trauma surgeon and professor in the UCSF Department of surgery. He currently serves as the department chair at the UCSF Benioff Children's Hospital Oakland. He completed adult surgical training at UCSF East Bay, Critical Care Training at Northwestern, and Pediatric Surgery fellowship at St. Christopher's Hospital for Children. Following active-duty service in the Army with deployments to Iraq, he then came to Oakland as the Trauma Director helping to establish and grow a robust Level 1 pediatric trauma center. In 2019 he became the principal investigator for one of the ASPR funded pediatric disaster centers of excellence leading the western regional alliance (WRAPEM). He is one of the national Co-PI's for the HRSA funded Pediatric Pandemic Network (PPN) awarded in 2021.

Meghan Ramsey

Member

Dr. Meghan Ramsey, Ph.D. is a senior staff member in the Counter Weapons of Mass Destruction (WMD) Systems group at MIT Lincoln Laboratory. Her work addresses a range of topics related to biodefense, detection, and response, including threat understanding, aerosol science, characterization of pathogen dispersion in real-world environments, advanced technology development for broad agnostic detection systems, genomic sequencing and complex sample preparation techniques, and systems analyses of biosurveillance architectures. She has served as a member of the MIT Lincoln Laboratory Advanced Concepts Committee and was the recipient of an Early Career Technical Achievement Award from MIT Lincoln Laboratory. Dr. Ramsey received a B.A. in biology and English from Williams College, a Ph.D. in microbiology from the University of Wisconsin - Madison, and conducted postdoctoral work at Tufts University on bacterial pathogenesis and host-pathogen interactions.

Lauren Sauer

Member

Lauren Sauer, Ph.D., M.Sc. is an Associate Professor in the College of Public Health, Department of Environmental, Agricultural, and Occupational Health, at the University of Nebraska Medical Center and the Associate Director of Research for the UNMC Global Center for Health Security. She is an Adjunct Associate Professor of Emergency Medicine in the Johns Hopkins School of Medicine. Lauren has been working in the field of disaster and public health emergency research and education for over two decades. She is an alumnus of the Emerging Leaders in Biosecurity program at the Johns Hopkins Center for Health Security. She also served on the American Red Cross Scientific Advisory Committee, Disaster Preparedness Sub Committee, supporting the Red Cross' operations with a scientifically sound evidence base. She previously served as Director of Operations for the Johns Hopkins Office of Critical Event Preparedness and Response. Lauren received her Ph.D. from Johns Hopkins Bloomberg School of Public Health's department of Health Policy and Management and her master's from Towson University. Lauren has advised national governments, research and response networks, and nonprofit organizations on preparedness and response efforts. She has authored over 80 journal articles in the fields of bioemergencies and disaster preparedness and response.

Mariana Socal

Member

Dr. Mariana P. Socal, M.D., Ph.D., M.P.P., M.Sc. is an Associate Professor in the Department of Health Policy and Management, Johns Hopkins Bloomberg School of Public Health. Dr. Socal's research focuses on improving pharmaceutical access and affordability. Specific topics include the global pharmaceutical supply chain, gene therapies, generics and biosimilar markets, and ways to control spending without restricting pharmaceutical access. She has published over 100 peer-reviewed academic studies and is the Principal Investigator of the Johns Hopkins Prescription Drug Supply Chain Data Dashboard and Resource Center, a publicly available tool that tracks the sources of U.S. prescription drugs for the U.S. market. Dr. Socal routinely advises states, Congress, and the U.S. government on biopharmaceutical pricing, regulation and supply chains, having provided testimony before U.S. Congress, FDA, and various states on such issues. She has been a member of the World Health Organization Technical Advisory Group on Pricing Policies for Medicines since 2023. Dr. Socal is a physician trained in adult neurology. She holds a master's in public policy from Princeton University and a Ph.D. in Public Health/Health Systems from Johns Hopkins University.

Alexandra Waterman

Member

Alexandra Waterman, M.P.H, B.S.N., R.N. is the Medical Surge Coordinator, Emergency Preparedness & Response Division at the Minnesota Department of Health (MDH). She has been with MDH for ten years focusing on high consequence infectious diseases planning and crisis standards of care. During the COVID-19 pandemic, Ms. Waterman executed many projects including PPE allocation and distribution, long-term care testing, and monoclonal antibody distribution. Additionally, she represented MDH on the statewide ethics and critical care workgroups. Her response work was published in CHEST and Frontiers of Public Health. With a B.S.N. from the University of Maryland Baltimore, Ms. Waterman has worked in scarce resource situations abroad in Haiti and in Rwanda. She specialized in adult critical care and was a member of an NDMS response team for five years. While receiving her Master of Public Health at the George Washington University, she interned in Disaster Health Services at the American Red Cross and completed her thesis work, a retrospective review of the Haiti response, with HHS/ASPR which was also published. She is currently working on her of DNP focusing in psychiatric/mental health at St. Catherine University. Disclosure of other relevant information: Minnesota Department of Health is a recipient ASPR funding through the Hospital Preparedness Program (HPP) for healthcare system readiness, and Ms. Waterman's salary is directly supported by the program.

Lindsay F. Wiley

Member

Lindsay F. Wiley is a professor of law and professor of public health (by courtesy) at UCLA. Her research focuses on access to health care and on governmental and private institutional powers and duties to protect and promote the public's health. She is the author of *Public Health Law and Ethics: Power, Duty, Restraint* and *Public Health Law and Ethics: A Reader* (with Lawrence O. Gostin). She serves as a consultant to the Ethics Committee of the California Department of Public Health and as a member and immediate past chair of the Board of Directors of ChangeLab Solutions, LLC, a nonpartisan, nonprofit organization that uses law and policy tools to advance health equity. She has previously served as the United States Rapporteur for the Lex-Atlas COVID-19 Project, a global project comparing national responses to COVID-19, as President of the American Society of Law, Medicine, and Ethics, and as a member of the National Conference of Lawyers and Scientists, a joint standing committee of the American Association for the Advancement of Science and the American Bar Association's Section of Science and Technology Law. She has served as a member of and consultant to ad hoc committees convened by National Academies related to public health emergency response and federal communicable disease control powers.