

Clinical Follow-Up and Care for Those Impacted by the JP-5 Releases at Red Hill

Committee

Grace M. Lee

Chair

Grace Lee (NAM) (Chair) is chief quality officer and the Christopher G. Dawes endowed director of quality at Stanford Medicine Children's Health and Lucile Packard Children's Hospital Stanford, and associate dean for Maternal and Child Health (Quality and Safety) and professor of pediatrics at Stanford University School of Medicine. She oversees the Center for Pediatric and Maternal Value that seeks to improve quality, safety, patient experience and health equity across the organization. Dr. Lee is an elected member of the National Academy of Medicine and AHRQ's Healthcare Safety and Quality Improvement Research Study Section. She also served as a Board Member for the Society for Healthcare Epidemiology of America (SHEA), Pediatric Infectious Diseases Society (PIDS), and the National Academy of Medicine (NAM) Board on Population Health and Public Health Practice. She was previously the Chair of the U.S. Advisory Committee on Immunization Practices (ACIP) that recommends vaccines for the U.S. population. Dr. Lee received her MD from the University of Pennsylvania Perelman School of Medicine and her MPH from Harvard School of Public Health. Dr. Lee has previously served as a member of the Institute of Medicine Committee (IOM) to Review Priorities in the National Vaccine Plan, the IOM Committee on the Ethical and Scientific Issues in Studying the Safety of Approved Drugs, the National Academies of Sciences, Engineering, and Medicine (NASEM) Committee on Vaccine Research and Development Recommendations for Advancing Pandemic and Seasonal Influenza Preparedness and Response.

Alberto Caban-Martinez

Member

Alberto Caban-Martinez is a professor of Public Health Sciences and associate vice-provost for research integrity, regulatory affairs, and assessment at the University of Miami. He is also the deputy director of the firefighter cancer initiative at the Sylvester Comprehensive Cancer Center, focusing on cancer prevention among firefighters and occupational health in high-risk worker populations. Dr. Caban-Martinez's research expertise lies in environmental and occupational epidemiology, with over 14 years of experience in studying occupational exposures, particularly in first responders, healthcare workers, fisherman, construction and contingent workers. His work has led to more than 202 peer-reviewed publications, and he has presented at over 298 scientific conferences. His research is published in prestigious journals, including New England Journal of Medicine, JAMA, and American Journal of Public Health. He holds a Doctor of Osteopathic Medicine (D.O.) and Master of Public Health (M.P.H.) from Nova Southeastern University and a Ph.D. in Epidemiology from the University of Miami. He has served on multiple National Academies' committees, contributing his expertise in environmental and occupational health. Previously, he served on the Gulf War and Health Volume 10.

Theresa A. Cullen

Member

Theresa A. Cullen is currently the public health director of Pima County, Arizona. She has developed a strategic approach to transformational health status change with a goal of health equity through supporting a learning public health system model based on data and action. Theresa Cullen, RADM (retired) USPHS, began her family medicine clinical career with Indian Health Service (IHS) and worked in leadership positions including as the Chief Information Officer with American Indian/Alaska Native communities with a goal of improving health status through innovation and data informatics. Dr. Cullen worked as the Chief Medical Information Officer for the Veterans Health Administration from 2012-2015. In this role, she worked on the integrated EHR project and developed new models for field involvement in HIT decision making at the VHA. This work included the development of electronic clinical quality measures, population health software suites, public health monitoring tools within software, early sentinel awareness systems, immunization reporting, and new and novel ways to document and evaluate data elements with enterprise-wide deployments. From 2015-2020, Dr. Cullen worked as the Associate Director of Global Health Informatics at the Regenstrief Institute. She graduated from Johnston College in 1978 with a Bachelor of Arts in philosophy/biology. She has a Doctor of Medicine from the University of Arizona, and a Master of Science from University of Wisconsin. Dr. Cullen previously served on the National Academies planning committee on Supporting the Capacity of Indigenous American and Tribal Communities to Prepare for, Respond to, and Recover from Disasters and Public Health Emergencies.

Ricardo Custodio

Member

Ricardo Custodio is a family man, musician, farmer, pediatrician, and professor. Throughout his 40-year career, he has provided pediatric health care to Hawaii's poor and vulnerable population living in Kalihi, Hilo, Pahoa, Kau, Waianae, Nanakuli, Kapolei and Waipahu. Presently, Dr. Custodio sees pediatric patients in a clinic in Chinatown and is a professor of health science at the University of Hawai'i West O'ahu. Previously, he served as a medical director at community health centers in Kalihi-Palama, the Big Island of Hawaii and Waianae. He has overseen the design and build of multiple clinics and the implementation of many programs. This includes helping to start a health plan, a vaccine program, a medical school, a nurse practitioner residency, a health science division, and now a nursing program. Dr. Custodio was born on Kwajalein in the Marshall Islands. His dad was a chief in the U. S. Navy, his mom was a cashier at the Navy Exchange. He became a "Reede Scholar" after completing the Commonwealth/Mongan Fellowship in Minority Health Policy at Harvard University. He was in the second class of fellows, the first Asian/Pacific Islander and, to date, the only Filipino scholar. He went to Pearl Harbor Kai Elementary, Aliamanu Intermediate, and Radford High School. "Papa Ric" received his MD from the University of Hawaii School of Medicine in 1986. Dr. Custodio previously served on the National Academies planning committee for a workshop on Addressing the Needs of an Aging Population through Health Professions Education.

Natalie Exum

Member

Natalie Exum is an assistant professor in the Department of Environmental Health and Engineering at the Johns Hopkins Bloomberg School of Public Health. She worked as a research scientist in the same department for seven years prior to her appointment as an assistant professor. Her expertise in the field of drinking water systems and exposure science will help to characterize the exposure assessment using community-engaged approaches in this activity. Dr. Exum's laboratory focuses on applying principles of environmental microbiology, data science and statistics to protect public health using community-engaged research methods. Dr. Exum was most recently an advisor to the State of Delaware Department of Health and Department of Education on their initiative to remove lead from drinking water in their public schools and is currently a member of the Maryland Statewide Prevention and Reduction Collaborative (SPARC), a statewide quality improvement project engaging public health and academia to address the evolving needs of Maryland hospitals related to infection prevention. Dr. Exum's training was in both environmental engineering (Stanford University, MS) and in public health (Johns Hopkins University, PhD). Her fellowship with the National Science Foundation Integrative Graduate Education and Research Traineeship for Water, Climate and Health has given her an interdisciplinary education.

Maida Galvez

Member

Maida Galvez is a professor in the Department of Environmental Medicine and Climate Science and the Department of Pediatrics at the Icahn School of Medicine at Mount Sinai where she is Co-Director of the New York State Children's Environmental Health Center (NYSHECK)—the first state-wide, publicly funded model for children's environmental health services in the United States. Since 2006, she has served as Co-Director of the Region 2 Pediatric Environmental Health Specialty Unit (PEHSU), an Environmental Protection Agency and Centers for Disease Control (CDC) program serving New Jersey, New York, Puerto Rico, and the US Virgin Islands. In her role as Community Engagement Core Director for the Mount Sinai Clinical & Translational Science Award (CTSA) Program (Mount Sinai Conduits) and the Mount Sinai NIEHS P30 Center for Health and Environment Across the Lifespan (Mount Sinai Heals), Dr. Galvez works to translate emerging research into programs and policies that prevent and reduce environmental exposures for children, their families, and their communities. In 2023, she was appointed to the New York City Board of Health. She previously served on the EPA's federal advisory board for the Office of Children's Health Protection, is a past president of District 2 Chapter 3 American Academy of Pediatrics and is a current member of the CDC/American Public Health Association National Council for Environmental Health and Equity. Dr. Galvez is a recipient of the 2016 Region 2 EPA Environmental Champion Award, the 2017 Science Champion Award from Clean and Healthy and is a member of the Delta Omega Public Health Honor Society. Dr. Galvez received her MD from the Mount Sinai School of Medicine, as well as her MPH. Dr. Galvez has previously served on the National Academies committee on phthalates' health risks.

O'neil W. Guthrie

Member

O'neil W. Guthrie is the director of the cell and molecular pathology laboratory in wetlaw biochemistry at Northern Arizona University. In addition to his research credentials, he is also a licensed clinical audiologist with decades of diagnostic and rehabilitation experiences. His basic science research program is focused on revealing molecular mechanisms that regulate the integrity of active genes and the engineering of biomedical approaches to enhance the capacity of cells to protect their DNA. To this end, Dr. Guthrie's research group employs a range of genetic, epigenetic, molecular and pharmacologic strategies to regulate cellular DNA repair capacity. The research from this work has led to patented and unpatented molecular constructs that could affect clinical outcomes. In addition to his basic science research program, Dr. Guthrie is also interested in translational research that improves clinical and epidemiology outcomes. His research on the interaction between jet-propulsion fuel and background noise exposure has revealed that such combined exposures can disrupt brain functions without peripheral nervous system impairment or hearing loss. Dr. Guthrie received his B.S. and M.S. degrees from the State University of New York campuses at Geneseo and Fredonia. He completed research training in molecular biology and audiology at the University of Pittsburgh where he earned a Ph.D. He then completed postdoctoral training in molecular genetics at Duke University where he was awarded the Hargett Cell Biology Fellowship.

Jerris R. Hedges

Member

Jerris R. Hedges (NAM) is a professor and dean emeritus of the University of Hawaii – Manoa, John A. Burns School of Medicine. He is the contact principal investigator for a health disparities research infrastructure grant that sustains a strong community engagement core. He has extensive leadership experience in clinical practice, educational programs and institutions, and community-facing translational research. Clinically, Dr. Hedges has practiced emergency medicine for more than 30 years, has led emergency medical services research programs, and has directed the OHSU emergency care facility (adult and pediatric). His research, focusing on cardiac ischemia, cardiac resuscitation, and trauma system optimization, plus his leadership in organized emergency medicine, led to his 2000 election to the NAM. Dr. Hedges received his BS, MChEngr, and MD degrees from the University of Washington and a master's in business (MMM) from the University of Southern California. He was residency-trained in emergency medicine at the Medical College of Pennsylvania (now Drexel University). Although not certified in medical toxicology, Dr. Hedges has practiced and published in the field. Dr. Hedges is a member of the National Academy of Medicine and was a member of the Committee on Poison Prevention and Control.

Marcus K. Iwane

Member

Marcus Kawika Iwane belongs to the American College of Physicians, Hawaii Chapter and serves as president of 'Ahahui 'o na Kauka, the Association of Native Hawaiian Physicians. In 2014, Dr. Iwane joined Hawaii Permanente Medical Group, where he practices internal medicine. He serves as physician in charge of Kaiser Permanente West Oahu, Waipio and Mapunapuna Medical Offices. Dr. Iwane also serves as clinical faculty for John A. Burns School of Medicine, the Kaiser Permanente Bernard Tyson School of Medicine and the Kaiser Permanente Hawaii Internal Medicine Residency Program. In 2018, Dr. Iwane was named to Pacific Business News' 40 Under 40 list of exceptional leaders. Most recently, he was recognized on the peer-nominated list Best Doctors in America®, Castle Connolly Top Doctors and received the 2021 Kaiser Permanente David Lawrence Community Service Award. In 2023, Dr. Iwane completed the Climate and Health Equity Fellowship through the Medical Society Consortium on Climate and Health. Dr. Iwane was born and raised in Hawaii and earned his medical degree from the University of Hawaii, John A. Burns School of Medicine (JABSOM) in 2010. He continued his training at the University of Hawaii Internal Medicine Residency Program and is board certified in internal medicine.

Joseph K. Kaholokula, Ph.D.

Member

Joseph Keawe'aimoku Kaholokula is a professor and chair of Native Hawaiian Health at the John A. Burns School of Medicine. He is a clinical health psychologist and translational behavioral scientist who leads multiple federally funded research projects to improve Native Hawaiian/Pacific Islander health. He has leveraged community and cultural assets to develop culturally responsive health promotion programs to improve cardiometabolic health. He also oversees the Clinical and Translational Research Center of Pacific Innovations, Knowledge, and Opportunities. He has served on the National Advisory Council on Minority Health and Health Disparities, Chaired the Intervention Research to Improve Native American Health, a network of National Institutes of Health-funded investigators working with American Indians, Alaska Natives, and Native Hawaiians, and co-Chaired the Asian American, Native Hawaiian, and Pacific Islander Interest Group of the NIH Community Engagement Alliance. He was recently elected into the National Academy of Medicine and continues to serve on the data disaggregation subcommittee of the White House Initiative on Asian Americans, Native Hawaiians, and Pacific Islanders. Dr. Kaholokula received his PhD from the University of Hawai'i Manoa as well as his MA in Clinical Psychology.

Kurunthachalam Kannan

Member

Kurunthachalam Kannan is a Research Scientist at Wadsworth Center, New York State Department of Health. His research is focused on understanding sources and pathways of human exposure to environmental chemicals. He is one of the leaders in the field of human biomonitoring of chemical exposures in populations. He has published over 900 research articles in peer-reviewed journals and is the top 5 most highly cited researchers in the field Environmental Health. He is known for his work on the discovery of perfluorochemicals in the global environment, among several others. Dr. Kannan is a recipient of several international awards and honors throughout his career and to name a few, he has won Governor's gold medal in 1986 and SETAC's Weston F Roy Environmental Chemistry award in 1999. Dr. Kannan received his PhD in Environmental Chemistry and Ecotoxicology in 1994 from Ehime University, Japan. He also serves as a professor at several universities including State University of New York at Albany. Dr. Kannan served as a member of the National Academies Committee on Toxicology.

Andrew F. Olshan

Member

Andrew F. Olshan is a distinguished Professor of Epidemiology, Gillings School of Global Public Health. He is also a Research Professor in the Department of Otolaryngology/Head and Neck Surgery, UNC School of Medicine. Dr. Olshan is the Associate Director for Population Sciences, UNC Lineberger Comprehensive Cancer Center. Previously, he served as the Chair of the Department of Epidemiology and Interim Associate Dean for Research, Gillings School of Global Public Health. Dr. Olshan's primary research interests include the epidemiology of cancer, perinatal, and pediatric outcomes. He has been the principal investigator for multiple NIH-, EPA-, and CDC-funded studies. He currently leads or co-leads three cancer studies and one birth defects study. Dr. Olshan is Editor-in-Chief of Current Epidemiology Reports and was past-president of the Society for Epidemiologic Research. In 2022, Dr. Olshan received the John E. Larsh, Jr. Award for Mentorship, Gillings School of Global Public Health. Dr. Olshan graduated from the University of Washington, M.S. Epidemiology (1982), University of Washington, Ph.D. Epidemiology (1987), University of British Columbia, Postdoctoral Fellow (1987-1989). He has been a member of multiple IOM committees on the Health Effects in Vietnam Veterans of Exposure to Herbicides. He also served on the Committee on Contaminated Drinking Water at Camp Lejeune, Committee to Review the Draft IRIS Assessment of Formaldehyde, the Committee for the Review of EPA's 2022 Draft Formaldehyde Assessment, and Committee on Toxicology.

Melissa J. Perry

Member

Melissa J. Perry is an epidemiologist and the inaugural dean and professor of the College of Public Health at George Mason University. Her work has shed light on how people are exposed to pesticides, as well as the mutagenic and hormonal effects of these exposures on farming communities, agricultural workers, and the general public. Before being appointed Dean at George Mason University, she was a Fulbright Scholar in Albania in 2021. She previously served as chair of the Department of Environmental and Occupational Health at George Washington University in Washington DC for 11 years and was on faculty at the Harvard School of Public Health's Department of Environmental Health for 13 years. Dr. Perry was the chair of the Board of Scientific Counselors for the National Center for Environmental Health/Agency for Toxic Substances 2015-2019 and served as the president of the American College of Epidemiology in 2014-15. Dr. Perry has a BA in Psychology from the University of Vermont, and a MHS and ScD from the Johns Hopkins University School of Public Health. She co-chaired the National Academies of Sciences, Engineering, Medicine Committee on Emerging Sciences 2016-2021, and currently chairs the Review Committee of the Health Effects Institute.

Paul M. Wax

Member

Paul M. Wax has been the Executive Director of the American College of Medical Toxicology (ACMT), the national organization of board-certified medical toxicology physicians since 2008. He is also an adjunct clinical professor of Emergency Medicine (Medical Toxicology) at the University of Texas Southwestern Medical School. Previously, Dr. Wax had faculty appointments in the University of Rochester School of Medicine and the University of Arizona School of Medicine. The founder of the UT Southwestern Medical Toxicology Clinic, Dr. Wax has extensive experience with the evaluation and treatment of patients who were exposed to a large variety of industrial chemicals and environmental hazards such as heavy metals, hydrocarbons, and pesticides, and has had a long-standing interest in risk communication and working with patients to better understand concerns about these potential toxic exposures. In 2010, Dr. Wax co-founded ACMT's Toxicology Investigators Consortium (ToxIC), a multicenter research consortium with support from the NIH, CDC, and FDA. Dr. Wax's education and training includes Dartmouth College (B.A.), Mount Sinai School of Medicine (M.D.), UCLA (emergency medicine residency), and NYU (medical toxicology fellowship), and he is board-certified in both Medical Toxicology and Emergency Medicine. Dr. Wax served on the National Academies Committee on Toxicology.

Andrew J. Whelton

Member

Andrew J. Whelton is a professor of engineering at Purdue University and has 20 years of experience. Dr. Whelton has been called into some of the deadliest and most destructive disasters in recent U.S. history to advise on public health and infrastructure response and recovery decisions. His team's most recent discoveries have transformed how officials respond to drinking water safety assessments after U.S. and Canadian wildfires. Dr. Whelton's current research focuses on chemical fate and transport in municipal and building water systems, wildfire damage mitigation, response, and recovery, and reducing chemical exposures to households and workers after disasters. Dr. Whelton has been repeatedly recognized for discoveries that have had significant societal impact. Dr. Whelton earned PhD, MS, and BS civil and environmental engineering degrees from Virginia Tech. He is a Purdue University Faculty Scholar and was selected to participate in the U.S. National Academies of Engineering Frontiers of Engineering program. Prior to entering academia, Dr. Whelton completed a National Research Council postdoctoral fellowship at NIST and worked for the U.S. Army and in the private sector. He previously contributed to National Academies workshops about public health challenges after wildfires and the 2023 chemical disaster in East Palestine, Ohio.

Matthew K. Wynia

Member

Matthew K. Wynia is the Director of the Center for Bioethics and Humanities at the University of Colorado and a Professor in the School of Medicine there and at the Colorado School of Public Health. His work explores the roles of professions and professionals in society, focusing on topics like trust in the professions, conflicts of interest, and the history of professional misconduct. He is an elected Fellow of the Hastings Center and has been the President of the American Society for Bioethics and Humanities, chair of ethics groups for the American Public Health Association and the Society for General Internal Medicine. His training is in medicine (Oregon Health and Sciences University, 1990) and public health (Harvard School of Public Health, 1997). Dr. Wynia serves on the Board on Health Sciences Policy at the National Academies.

Elizabeth Boyle

Staff Officer

Elizabeth Boyle is a senior program officer in the Health and Medicine Division's Board on Population Health and Public Health Practice after serving for several years as a program officer with the Board on Environmental Studies and Toxicology. Formerly, she was an environmental health scientist at Westat, where she supported the Environmental Protection Agency, the National Institute of Child Health and Development, and the National Cancer Institute. Before her tenure at Westat, Ms. Boyle was a student epidemiologist at the Minnesota Department of Health and an industrial hygienist at a consulting firm in Cincinnati. She is a fellow of the Bloomberg American Health Initiative at the Johns Hopkins Bloomberg School of Public Health, where she is pursuing a Doctor of Public Health in environmental health. Ms. Boyle has an M.P.H. in environmental health from the University of Minnesota, a certificate in risk sciences and public policy from the Johns Hopkins University Bloomberg School of Public Health, and she is a Certified Industrial Hygienist.