

Forum on Traumatic Brain Injury

Committee

Donald M. Berwick

Co-Chair

Donald Berwick, MD, MPP, FRCP (London) (NAM) (Chair), is president emeritus and senior fellow at the Institute for Healthcare Improvement and former administrator of the Centers for Medicare & Medicaid Services. A pediatrician by background, Berwick has served on the faculty of the Harvard Medical School and Harvard School of Public Health, and on the staffs of Boston's Children's Hospital Medical Center, Massachusetts General Hospital, and the Brigham and Women's Hospital. He has also served as vice chair of the U.S. Preventive Services Task Force, the first "independent member" of the American Hospital Association Board of Trustees, and chair of the National Advisory Council of the Agency for Healthcare Research and Quality. He served two terms on the Institute of Medicine's (IOM's) Governing Council, was a member of the IOM's Global Health Board, and served on President Clinton's Advisory Commission on Consumer Protection and Quality in the Healthcare Industry. Recognized as a leading authority on health care quality and improvement, Berwick has received numerous awards for his contributions. In 2005, he was appointed "Honorary Knight Commander of the British Empire" by Her Majesty, Queen Elizabeth II in recognition of his work with the British National Health Service. Berwick is the author or co-author of over 160 scientific articles and six books.

Corinne Peek-Asa

Co-Chair

Corinne Peek-Asa, PhD MPH (NAM), is the Vice Chancellor for Research and Professor with Distinction of Epidemiology at UC San Diego. She is an elected member of the National Academy of Medicine and served as a member of the National Academies Committee on Accelerating Progress in Traumatic Brain Injury and Care and the Global Violence Forum. Prior to joining UC San Diego, she was the associate dean for research for the University of Iowa College of Public Health and the William G. Battershell Distinguished Professor. Peek-Asa is a leading epidemiologist in the area of traumatic injury and violence prevention, and her work has addressed the full spectrum of traumatic brain injuries from surveillance to prevention among a variety of populations. Peek-Asa has led international traumatic brain injury research, including a role as principal investigator on National Institutes of Health-funded projects that established prospective traumatic brain injury registries in four countries. She has conducted research on data systems to identify TBI; the impact of gender on TBI outcomes; predictors of outcomes based on injury type and severity; the impact of trauma systems on TBI patients reaching definitive care; and, she has evaluated numerous TBI prevention strategies such as motorcycle helmet legislation.

Ramon Diaz-Arrastia

Member

Ramon Diaz-Arrastia, MD, PhD, is Professor of Neurology at the University of Pennsylvania, where he leads the TBI Clinical Research Initiative. His research interests are focused on understanding the molecular, cellular, and tissue level mechanisms of neuronal injury and neuroregeneration, with the goal of developing neuroprotective and neuroregenerative therapies. Diaz-Arrastia received his MD and PhD degrees from Baylor College of Medicine and completed post-graduate training at Harvard and Columbia. Prior to coming to Penn, he served on the faculty at the University of Texas Southwestern, the Uniformed Services University of the Health Sciences, and the National Institute of Neurologic Disorders and Stroke (NINDS). Diaz-Arrastia has published over 250 primary research papers, as well as over 40 invited reviews and book chapters. He has also served in several national committees related to traumatic brain injury, epilepsy, and dementia, convened by the National Institutes of Health, the Department of Defense, the Veterans Administration, and the National Academy of Medicine.

E. Wesley Ely

Member

E. Wesley Ely, MD, MPH, is an internist, pulmonologist, and critical care physician. He serves as the Grant W. Liddle endowed chair in medicine and is a physician-scientist and tenured professor at Vanderbilt University Medical Center. He is also the associate director of aging research for the Tennessee Valley Veteran's Affairs Geriatric Research Education Clinical Center. He is the founder and codirector of the Critical Illness, Brain Dysfunction, and Survivorship Center, and a pioneer in the investigation of delirium and long-term cognitive outcomes, including dementia, in survivors of critical illness. Ely has had numerous studies published in The New England Journal, JAMA, and The Lancet, and his writing has appeared in The Wall Street Journal, The Washington Post, USA TODAY, State News, The Daily Beast, and numerous other publications. Ely earned his MD at Tulane University School of Medicine, in conjunction with a Masters in Public Health.

David Goldstein

Member

David Goldstein, MS, OTR is a health policy leader, clinician, and federal public servant with over a decade of experience advancing public health innovation and health system transformation. Most recently, he served as the Deputy Director of the Office of Science and Medicine within the U.S. Department of Health and Human Services (HHS), where he advised on national strategy spanning brain injury, Long COVID, Parkinson's, kidney innovation, and public health preparedness. His work included leading federal research and clinical coordination, managing cross-agency teams, and translating scientific evidence into policy solutions. Prior to HHS, Goldstein held leadership roles at the Centers for Medicare and Medicaid Services' Center for Medicare and Medicaid Innovation (CMMI), where he directed the design and implementation of value-based care models and system transformation initiatives focused on State and Population health across behavioral health, complex care, and emergency services. He is a trained Occupational Therapist and began his career in clinical practice at The University of California San Diego Medical Center. Goldstein has held adjunct faculty positions and guest lectures on health policy, public health transformation and healthcare quality and outcomes measurement. He is currently pursuing his Doctorate in Public Health at George Washington University and holds a Master of Science in Occupational Therapy from Thomas Jefferson University in Philadelphia and a Bachelor of Arts in Geography from the University of Wisconsin-Madison.

Odette Harris

Member

Odette Harris, MD, MPH, is the Paralyzed Veterans of America, Endowed Professor of Spinal Cord Injury Medicine, a Professor of Neurosurgery and the Vice Chair, Diversity and Director of Brain Injury for Stanford. She is the Deputy Chief of Staff, Rehabilitation at the Veterans Affairs Palo Alto Health Care System, overseeing the TBI/Polytrauma System of Care, Spinal Cord Injury, Blind Rehabilitation Services, Recreational Therapy and Physical Medicine & Rehabilitation. Harris graduated from Dartmouth College and received her MD from Stanford University School of Medicine. She did her internship and residency at Stanford and earned a Master of Public Health, Epidemiology from the University of California, Berkeley. Harris has authored numerous articles/books, is a member of several Editorial Boards and National Committees including as the Associate Editor for Neurosurgery and as an appointed Member, National Football League (NFL) Head, Neck and Spine Committee. She also serves on the Defense Health Board's Trauma and Injury Subcommittee and is a Trustee of Dartmouth College. She has won numerous awards: Appointed a Fellow of the Aspen Global Leadership Network in 2018; Recognized in 2019 by Forbes and Ebony Magazine Power 100 List Award as one of 100 most influential African Americans and received the National Medical Fellowships Award for Excellence in Academic Medicine. In 2021 she received the Stanford RISE Award and in 2022 she was recognized as one of Stanford's 13 women's history makers. Harris' Endowed Professorship further distinguishes her as the first woman in Neurosurgery at Stanford to receive this honor.

Frederick Korley

Member

Frederick Korley, MD, PhD, is a Professor and the Associate Chair for Research in Emergency Medicine at the University of Michigan. He is also the scientific director of the Massey TBI Grand Challenge sponsored by the Weil Institute at the University of Michigan, which support investigators with high-risk and high-reward ideas for developing novel diagnostics and therapeutics in traumatic brain injury (TBI). Korley has conducted pioneering work in uncovering and quantifying gaps in emergency department evaluation and management of TBI and developed novel diagnostic and therapeutic approaches to bridge these gaps. He is a PI of the multicenter NINDS-funded study of hyperbaric oxygen treatment in treating acute severe TBI (HOBIT) and its blood-based biomarker ancillary study, which examines the role of blood-based biomarkers in monitoring response to therapy. He is also the PI of two DoD-funded studies validating brain injury biomarkers in TBI and another DoD funded study that is developing a microfluidic device for point-of-care measurement of TBI biomarkers. Korley's research has been published as first-author manuscripts in journals including the NEJM, JAMA, JAMA Cardiology, Journal of the American College of Cardiology, and Lancet Neurology. He is the recipient of the 2021 SAEM Mid-Career Investigator Award. He is an elected member of the American Society for Clinical Investigators.

Geoffrey T. Manley

Member

Geoffrey Manley, MD, PhD, is the Chief of Neurosurgery at Zuckerberg San Francisco General Hospital (ZSFG) and is Professor and Vice Chairman of Neurosurgery at the University of California, San Francisco. Manley is an internationally recognized expert in neurotrauma. In addition to a robust clinical practice at ZSFG, San Francisco and the Greater Bay Area's level 1 trauma center, he coordinates and leads national and international clinical research efforts in the study of the short- and long-term effects of TBI. With a nationwide team of TBI experts, he launched the TRACK-TBI NETWORK as an innovative, precision-medicine driven consortium that will test Phase 2 drugs for TBI. The TRACK-TBI studies have created a modern precision medicine information commons for TBI that integrates clinical, imaging, proteomic, genomic, and outcome biomarkers to drive the development of a new TBI disease classification system, which could revolutionize diagnosis, direct patient-specific treatment, and improve outcomes.

Christina Master

Member

Christina Master, MD, is a Professor of Pediatrics and Orthopaedic Surgery at the University of Pennsylvania Perelman School of Medicine and a pediatric and adolescent primary care sports medicine specialist and academic general pediatrician at the Children's Hospital of Philadelphia (CHOP). Additionally, she is the cofounding codirector of the Minds Matter Concussion Program, which provides comprehensive cutting-edge and multidisciplinary clinical care and rehabilitation for concussion, community advocacy, and outreach. Her research focuses on visual deficits following concussion, its role in persistent postconcussive symptoms, its potential as a target for active intervention and treatment, and its usefulness as an objective physiological measure serving as a quantitative biomarker of injury and recovery. She is board certified in pediatrics, sports medicine, and brain injury medicine, and is an elected fellow of the American College of Sports Medicine and American Medical Society for Sports Medicine. She treats over 800 children, youth, and young adults with concussion annually in her clinical sports medicine practice. She completed her undergraduate studies at Princeton University with an A.B. in Molecular Biology and graduated summa cum laude from the University at Buffalo School of Medicine and Biomedical Sciences. She completed pediatric residency training with an additional year as chief resident at CHOP and served for 14 years as the associate and vice program director for the pediatric residency program. She subsequently completed a sabbatical year sports medicine fellowship at the Hospital of the University of Pennsylvania and has since been caring for patients with concussion in her sports medicine practice and conducting clinical translational research in concussion.

David Okonkwo

Member

David Okonkwo, MD, PhD, is professor of neurological surgery and director of the Neurotrauma Clinical Trials Center at the University of Pittsburgh. He is also director of Neurotrauma and the Scoliosis and Spinal Deformity Program at UPMC Presbyterian. Okonkwo is past chair of the AANS/CNS Section on Neurotrauma and Critical Care. In addition, he is team neurosurgeon for the Pittsburgh Steelers. He completed his medical and doctoral education through the MD/PhD program of the Medical College of Virginia of Virginia Commonwealth University. He joined the University of Pittsburgh Department of Neurological Surgery in 2006, following completion of neurosurgical residency at the University of Virginia and a fellowship at Auckland Public Hospital in Auckland, New Zealand. He has additional specialized training in scoliosis surgery. Okonkwo's clinical interests are traumatic injuries to the brain and spine as well as scoliosis and spinal deformity. His research endeavors involve developing biomarkers, advanced neuroimaging modalities and novel therapeutic interventions for brain and spinal cord injury. Okonkwo is a principal investigator of a national clinical research network (TRACK-TBI) to advance our understanding and treatment of traumatic brain injury and a principal investigator of ongoing clinical studies in neurotrauma in Pittsburgh. He is a member of the American Association of Neurological Surgeons, the Congress of Neurological Surgeons and the National and International Neurotrauma Societies.

Tolulope Oyesanya

Member

Tolu O. Oyesanya, PhD, RN, is an Associate Professor at Duke University School of Nursing and is Associate Program Director of the Duke National Clinician Scholars Program. She is trained as a PhD-prepared registered nurse and health services researcher. Her research program focuses on patient- and family-centered care and support of adult patients with traumatic brain injury (TBI) and their family caregivers. Her current research efforts center on developing and testing interventions to improve the TBI transition from acute hospital care to home. Oyesanya is also a qualitative expert, with over 10 years of experience using qualitative research methodologies. She earned her BSN, MSN, and PhD in Nursing from University of Wisconsin-Madison and completed a post-doctoral fellowship in Brain Injury Research at Shepherd Center in Atlanta, GA. Oyesanya is actively involved in professional organizations including as chair of the Mentoring Task Force of the Career Development Networking Group with the American Congress of Rehabilitation Medicine and as a member of the Association of Rehabilitation Nurses and the International Brain Injury Association.

Kristine Yaffe

Member

Kristine Yaffe, MD, is the Scola Endowed Chair and Vice Chair, Professor of Psychiatry, Neurology, and Epidemiology, and Director of the Center for Population Brain Health at the University of California, San Francisco. She is an internationally recognized expert in the epidemiology of dementia and cognitive aging and the foremost leader in identifying modifiable risk factors for dementia. Yaffe and her colleagues were the first to determine that potentially 30% of dementia risk is preventable. She pioneered early investigations on the roles of estrogen, physical activity, and cardiovascular factors in dementia risk, and more recently, her research group has led work on the connections between cognitive aging and traumatic brain injury, sleep disorders, and life course exposures. With over 600 peer-reviewed articles dedicated to improving population brain health, her work has formed the cornerstone for dementia prevention trials worldwide. In recognition of these groundbreaking accomplishments, Yaffe received the Potamkin Prize for Alzheimer's Research in 2017 and was elected to the National Academy of Medicine in 2019. She attended Yale University for her undergraduate degree and the University of Pennsylvania for her medical degree. She then completed residencies in both Neurology and Psychiatry at the University of California, San Francisco.

Joe Bonner

Ex Officio Member

Joe Bonner, PhD, is a program officer with the National Center for Medical Rehabilitation Research (NCMRR) at the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD). Prior to joining NIH, his training and research focused on regenerative medicine approaches in rodent models of neural injury and disease and was supported by the Craig H. Neilsen Foundation and the California Institute for Regenerative Medicine. Bonner joined NIH as a AAAS Science and Technology Policy Fellow in the office of the Assistant Director for Data Science before moving to NCMRR. At NCMRR, he manages a portfolio of rehabilitation medicine grants and contracts across a broad array of chronic conditions, including traumatic brain injury, spinal cord injury, stroke, and limb loss. NCMRR aims to foster development of scientific knowledge needed to enhance the health, productivity, independence, and quality of life of people with physical disabilities through basic, translational, and clinical research.

Joe Brennan

Ex Officio Member

Javier Cárdenas

Ex Officio Member

Javier Cárdenas, MD, represents the American Academy of Neurology on the Forum. Cárdenas is a professor and chief of the Division of Sports Neurology at the Rockefeller Neuroscience Institute, West Virginia University. He was formerly director of the Barrow Concussion and Brain Injury Center. He is board certified in neurology by the American Board of Psychiatry and Neurology. Cárdenas' expertise involves concussion, postconcussion syndrome, spinal trauma, and traumatic brain injury. He is a member of the American Academy of Neurology; the National Football League Head, Neck, and Spine Committee; and the Arizona Governor's Advisory Council on Spinal and Head Injuries. He received his medical degree from the University of Arizona College of Medicine, completed a residency in pediatrics at St. Joseph's Hospital and Medical Center, and trained in child neurology at Barrow Neurological Institute. Cárdenas founded the Barrow Concussion and Brain Injury Center, which is recognized as one of the most comprehensive concussion prevention, treatment, and education programs in the United States. He also created Barrow Brainbook as part of a program that Arizona high school students must complete to participate in school sports. It is the first mandated online concussion education and testing tool for student athletes in the country.

John D. Corrigan

Ex Officio Member

John Corrigan, PhD, represents the Brain Injury Association of America on the Forum. Corrigan is a professor in the Department of Physical Medicine and Rehabilitation at Ohio State University and Director of the Ohio Valley Center for Brain Injury Prevention and Rehabilitation, which among other activities is the designated lead agency in the state of Ohio for TBI policy and planning. Corrigan is the Project Director for the Ohio Regional Traumatic Brain Injury Model System and chairs the executive committee of the TBI Model Systems Project Directors and is editor-in-chief of The Journal of Head Trauma Rehabilitation. Corrigan has been a member of the National Academies' Board on the Health of Select Populations, the Neurological & Behavioral Health Subcommittee of the Defense Health Board, the advisory committee to the National Center on Injury Prevention and Control at the Centers for Disease Control and Prevention, and the boards of directors of the Commission on Accreditation of Rehabilitation Facilities (CARF) and the Brain Injury Association of America (BIAA). He has provided consultation to the Department of Defense and the Department of Veterans Affairs and has served on three National Academies' committees examining the health and well-being of military personnel. He has received many awards for his service and research in brain injury rehabilitation, including the Brain Injury Association of America's William Fields Caveness Award, the 2007 Robert L. Moody Prize, and the Gold Key Award from the American Congress of Rehabilitation Medicine.

LaGwyn Durden

Ex Officio Member

LaGwyn Durden, ATC, LAT is Director of Sports Medicine at the National Collegiate Athletics Association. Durden joined the NCAA as its first director of sports medicine in January 2018. A long-time member of The University of Texas at Austin sports medicine staff, Durden served as Texas' associate athletics director for sports medicine, overseeing healthcare delivery to 17 Longhorns teams and coordinating women's health and wellness programming. Additionally, she served as the athletic trainer for women's track and field/cross country for more than 20 years. Durden earned her bachelor's and master's degrees in exercise and sports sciences at the University of Florida and is a member of the National Athletic Trainers' Association, Southwest Athletic Trainers' Association and Texas State Athletic Trainers' Association. She served as a member of the 2008 and 2012 Olympic Games sports medicine staff and was a member of the National Athletic Trainers' Association Intercollegiate Council for Sports Medicine. Durden chaired the NCAA Committee on Competitive Safeguards and Medical Aspects of Sports and was a member of the NCAA Commission to Combat Campus Sexual Violence.

Courtney Edwards

Ex Officio Member

Courtney Edwards, DNP, MSN, MPH, is the Director of Trauma Community Outreach & BioTel EMS for Parkland Health in Dallas, Texas and serves as the appointed representative of the Emergency Nurses Association to the Forum. Edwards is responsible for design, implementation, and evaluation of injury prevention and outreach programs, focused on building community partnerships, program growth and improvement projects. Within the Parkland/UTSW BioTel EMS system, Edwards supports the operations of 14 EMS agencies and an EMS social work division supporting over 2.4 million people in the Dallas metro area through 260,000 EMS-911 calls annually. Edwards achieved a Doctor of Nursing Practice from Texas Christian University and Master of Public Health from University of North Texas Health Sciences Center. She is a fellow within the Academy of Emergency Nursing.

Bruce Evans

Ex Officio Member

Bruce Evans, NREMT-MPA, represents the National Association of Emergency Medical Technicians on the Forum. Evans is the Fire Chief and a 30 year paramedic at the Upper Pine River Fire Protection District, Colorado. He is also an NFPA Fire Instructor III and served as a college faculty member at the College of Southern Nevada's Fire Technology program teaching various fire and EMS topics for 21 years. He has over 38 years of experience in a variety of EMS settings and is the 2010 recipient of the International Association of Fire Chiefs James O Page award for Leadership in EMS. He is currently the President of the National Association of EMTs and was awarded the 2014 Presidential Leadership Award. He holds a Master's degree in public administration, Bachelor's degree in Education, and Associates degree in Fire Management. Chief Evans has an appointment to the National Academy of Sciences and National Academy of Medicine's Preparedness Committee. He completed a six-year appointment on the Colorado Governor's State EMS and Trauma Advisory Committee. Evans is also an instructor at the National Emergency Training Center, authoring several courses in emergency response and incident management. He co-authored several textbooks, Crew Resource Management with Jones and Bartlett and Management of EMS and EMS Research and Quality Management with Prentice Hall. Chief Evans is part of the LaPlata County Suicide Prevention Coalition and served on the SW Colorado Child Fatality Review Team.

Steve Flanagan

Ex Officio Member

Steven Flanagan, MD, FAAPMR, represents the American Academy of Physical Medicine and Rehabilitation on the Forum. Flanagan joined NYU Langone Health and the NYU Grossman School of Medicine in 2008 as Howard A. Rusk Professor and Chair of Rehabilitation Medicine and Medical Director of Rusk Rehabilitation. He previously served as Vice Chairman of Rehabilitation Medicine at Mount Sinai School of Medicine. He serves on several national and international medical advisory boards as well as the editorial board for the Journal of Head trauma Rehabilitation. He served in multiple leadership roles for the American Academy of Physical Medicine and Rehabilitation where he is currently President Elect. He authored numerous chapters and peer-reviewed publications and participated in both federally and industry sponsored research. He served as Panel Chair for several national review panels including for the Veterans Administration and the Congressionally Directed Medical Research Program-Department of Defense program for traumatic brain injury. He received awards for his work as an educator, clinician and advocate for people with brain injury from several organizations, including the Brain Injury Association of New York State, Mount Sinai Medical Center, Brain Injury Assistance, North American Brain Injury Association, and Rutgers - New Jersey Medical School. Castle Connolly has continually listed him as one of America's Top Doctors since 2010.

Gene Gurkoff

Ex Officio Member

Gene Gurkoff, PhD, represents the National Neurotrauma Society on the Forum. Gurkoff is an Associate Professor of Neurological Surgery at the University of California, Davis. His research includes investigating therapies to reduce neuronal toxicity following traumatic brain injury, developing a neuromodulation model to explore the potential for functional restoration in the injured brain, and collaborations with Lawrence Livermore National Laboratory on sensors for mechanical and blast injuries and with Banyan Biomarkers Inc. on measurement of brain injury biomarkers. He currently serves as President of the National Neurotrauma Society.

Richard Hodes

Ex Officio Member

Richard Hodes, MD, directs the research program of the National Institute on Aging (NIA) at the National Institutes of Health. A leading immunologist, Hodes was named Director of the NIA in 1993 to oversee studies of the biological, clinical, behavioral and social aspects of aging. Under Hodes' stewardship, the NIA budget has grown to nearly \$1.6 billion, reflecting increased public interest in aging as America and the world grow older. Hodes has devoted his tenure to the development of a strong, diverse, and balanced research program, focusing on the genetics and biology of aging, basic and clinical studies aimed at reducing disease and disability, including Alzheimer's disease and age-related cognitive change, and investigation of the behavioral and social aspects of aging. Ultimately, these efforts have one goal -- improving the health and quality of life for older people and their families. Hodes also directs the Federal research effort to find effective ways to treat or prevent Alzheimer's disease. Hodes represents NIH on the HHS Secretary's Federal Advisory Council on Alzheimer's Disease Research, Care, and Services and coordinates the NIH research efforts under the National Plan to Address Alzheimer's Disease. Hodes is a graduate of Yale University and received his M.D. from Harvard Medical School. He completed training in Internal Medicine at Massachusetts General Hospital and in Oncology at the National Cancer Institute. Hodes is a Diplomate of the American Board of Internal Medicine, a member of The Dana Alliance for Brain Initiatives, a Fellow of the American Association for the Advancement of Science, and a member of the Institute of Medicine of the National Academy of Sciences. As an author of more than 250 research papers, he is an influential scientist in and contributor to the field of immunology.

Stuart W. Hoffman

Ex Officio Member

Stuart Hoffman, PhD, is Senior Health Science Officer for TBI and Brain Health, as well as the director for the TBI Actively Managed Portfolio for the Department of Veterans Affairs Office of Research and Development (ORD). Hoffman is responsible for providing overall direction, program planning, development and implementation for ORD TBI and brain health research; coordinating with ORD leads and Federal partners in high priority efforts in TBI and brain health; promoting TBI research data sharing; and to expand the clinical trials network nationally to improve TBI treatments and diagnostics for Veterans. Hoffman has authored over 45 peer-reviewed publications in translational research on neuroprotection and recovery of function after brain injury. He earned his doctoral degree in behavioral and molecular neuroscience at Rutgers University and completed his postdoctoral training in pharmacology at Virginia Commonwealth University's medical campus.

Walter J. Koroshetz

Ex Officio Member

Walter Koroshetz, MD, has been Director of the National Institutes of Neurological Disorders and Stroke (NIHDS) at the National Institutes of Health since 2015. Koroshetz joined NINDS in 2007 as Deputy Director and served as Acting Director from October 2014 through June 2015. As NINDS Director, Koroshetz directs program planning and budgeting, and oversees the scientific and administrative functions of the Institute. He has held leadership roles in many NIH and NINDS programs including the NIH's Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative, the NIH Blueprint for Neuroscience Research, the Traumatic Brain Injury Center collaborative effort between the NIH intramural program and the Uniformed Health Services University, and the establishment of the NIH Office of Emergency Care Research. Additionally, Koroshetz serves as Chair of the Interagency Pain Research Coordinating Committee (IPRCC) and the Executive Committee for the NIH Pain Consortium.

Rachel Lazarus

Ex Officio Member

Rachel Lazarus, PhD, is a neuroscientist at AARP and leads the Staying Sharp program, which provides educational content about healthy brain aging and works toward improved clinical research and evidence-based clinical guidelines for geriatric TBI. Previously, Lazarus served as the research portfolio manager for the Defense Health Agency's Defense and Veterans Brain Injury Center, now called the TBI Center of Excellence. Lazarus has also volunteered for several years as a Grand Award Judge in Cellular and Molecular Biology for the Regeneron International Science and Engineering Fair and as an Evaluator and Judge for the Regeneron Science Talent Search. Lazarus earned her Ph.D. degree at the Uniformed Services University of the Health Sciences (USUHS), where her work investigated blood-based biomarkers and neuroimmunological changes following traumatic brain injury. Following her time at USUHS, she contributed to research at the FlyLight Lab at Howard Hughes Medical Institute's Janelia Research Campus, focusing on Drosophila-based brain mapping and novel methods in immunofluorescent tagging for confocal microscopy.

Kathy Lee

Ex Officio Member

Kathy Lee, MS, CRNP, ANP-BC, CNRN, is the lead for the US Department of Defense (now Department of War) Warfighter Brain Health program supporting the Deputy Assistant Secretary of Defense for Health Readiness Policy and Oversight. She brings considerable clinical, educational and research experience in the field of neuroscience and neurotrauma to include more than 200 regional, national and international presentations and more than 30 peer-reviewed publications. Lee has served in a variety of leadership, advisory and operational roles in the US Department of the Army and US Department of War for over 15 years; including the Assistant Chief of the Defense and Veterans Brain Injury Center (DVBIC), Deputy Director for the Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury; Deputy Director for the Clinical and Educational Affairs Office for DVBIC and the manager of the Office of Clinical Standards at DVBIC. Prior to working in Washington DC, Lee worked in academic/level I trauma centers as a nurse practitioner/clinical care coordinator at the University of Louisville Hospital and clinical research coordinator in the Division of Neurosurgery at the Medical College of Virginia Hospitals/Virginia Commonwealth University. Lee holds Bachelor's and Master's degrees in nursing from Virginia Commonwealth University, as well as a Bachelor of Science in family and child development from Virginia Tech University.

Julie Malloy

Ex Officio Member

Julie Malloy, OTD, MOT, OTR/L, PMP, CPHQ, FNAP, FAOTA, is an occupational therapist, Vice President of Practice, and Staff Liaison to the Commission on Practice at the American Occupational Therapy Association (AOTA). In these roles, she works to further the role of evidence and quality in the profession, and advocates for occupational therapy in the national healthcare discussion. Malloy has worked in acute care and rehabilitation, healthcare information technology, quality, process improvement, and healthcare project management. She has focused on professional development throughout her career, obtaining certifications as a Project Management Professional (PMP), Six Sigma Green Belt (SSGB), Certified Software Quality Engineer (CSQE) and Certified Professional in Healthcare Quality (CPHQ). She has been inducted as a Distinguished Fellow in the Occupational Therapy Academy of the National Academies of Practice (FNAP), and to the Roster of Fellows of the American Occupational Therapy Association.

Tara Jo Manal

Ex Officio Member

Tara Jo Manal, PT, DPT, FAPTA, is Senior Vice President, Scientific Affairs of the American Physical Therapy Association (APTA), where she leads the Research, Practice, Innovation and Career Advancement divisions. Prior to joining APTA, Manal was the University of Delaware Director of Physical Therapy Clinical Services and Director of the UD Residency Training Programs and Associate Professor for 28 years. Manal publishes and is an international speaker on areas of rehabilitation and clinical practice change. She recently held a position on the State of Delaware Innovation in Healthcare Practice and Education Committee and is a Catherine Worthingham Fellow of the American Physical Therapy Association.

Luca Marinelli

Ex Officio Member

Luca Marinelli, PhD, is a senior principal scientist at GE HealthCare Technology & Innovation Center. During his time at GE, Marinelli has led the clinical research study part of the GE/NFL Head Health Initiative, a partnership between GE and the National Football League on Traumatic Brain Injury. He is currently co-PI on the GE-MIT performing team for DARPA Measuring Biological Aptitude, a study focused on biological drivers of human performance. His research interests are quantitative MRI, fast MRI imaging, and advanced algorithms for accelerated image acquisition and reconstruction, including the development of early compressed sensing applications to MRI, and diffusion imaging in the brain. Marinelli is a coauthor on over 100 journal publications, book chapters, and conference proceedings. Marinelli also serves on the scientific advisory board of the ALS Finding a Cure Foundation. Marinelli earned a Ph.D. in physics at Harvard University, after which he completed a postdoctoral fellowship in information theory and wireless telecommunications at Bell-Laboratories-Lucent Technologies.

Beth McQuiston

Ex Officio Member

Beth McQuiston, MD, RD, is a neurologist, registered dietitian, and medical director for Abbott's neuroscience diagnostics business, where she leads a global neuroscience team focused on blood tests to help evaluate and treat brain injury. She is also focused on advancing brain health. In 2014, Abbott and the Department of Defense announced a collaboration on blood-based biomarker development. A licensed physician, McQuiston has also participated in the Alzheimer's Disease Neuroimaging Initiative and served on the executive board for the Center for Nutrition Learning and Memory. She has a number of traumatic brain injury related patents, publications and invited presentations. She completed her medical training at University of Chicago, Rush University Medical Center and Harbor UCLA.

Cate Miller

Ex Officio Member

Cate Miller, PhD, is a Rehabilitation Program Specialist at the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) in the Administration for Community Living, U.S. Department of Health and Human Services. Before coming to NIDILRR (then NIDRR) in 2003, Miller was a Clinical Assistant Professor at New York University Medical Center, Rusk Institute of Rehabilitation Medicine where she worked in both research and clinical capacities. At NIDILRR she is the Program Manager of the Traumatic Brain Injury Model System Centers Program. This program plays a pivotal role in building the national capacity for high quality treatment and research serving people with TBI, their families, and the communities in which they reside. Miller has assisted in the creation of interagency TBI research initiatives between NIDILRR's TBI Model System Centers Program and federal agencies, including the Department of Veterans Affairs, the National Institutes of Health, and the Centers for Disease Control and Prevention. Miller received a Doctorate in psychology from Columbia University after earning Masters Degrees from both Harvard and Columbia Universities.

Chris Nowinski

Ex Officio Member

Chris Nowinski, PhD, is a social entrepreneur leading a global conversation on concussions, chronic traumatic encephalopathy (CTE), and the future of sports. An All-Ivy Harvard football player-turned WWE professional wrestler-turned neuroscientist, he uncovered the sports concussion crisis after a 2003 kick to the chin in a WWE tag-team match caused career-ending post-concussion syndrome. While recovering, Nowinski wrote the expose *Head Games: Football's Concussion Crisis* in 2006 and soon after became the founding CEO of the non-profit Concussion Legacy Foundation (CLF), which is leading the fight against concussions and CTE and dedicated to improving the lives those impacted in the US, UK, Canada and Australia. In 2008, Nowinski co-founded the VA-Boston University-CLF Brain Bank, where he serves as the Outreach, Recruitment, Education, and Public Policy Leader for the world's largest brain bank focused on the long-term effects of repetitive head impacts and concussion in athletes and veterans. He serves on the NFL Players Association Mackey-White Health & Safety Committee, the Ivy League Concussion Committee, and the Positive Coaching Alliance National Advisory Board. Nowinski earned his Ph.D. in Behavioral Neuroscience from Boston University School of Medicine and has authored more than 35 scientific publications.

Tessie October

Ex Officio Member

Tessie October, MD, MPH, currently serves as a medical officer in the Pediatric Trauma and Critical Illness Branch within the Eunice Kennedy Shriver National Institute of Child Health and Human Development of the National Institutes of Health (NIH). In this role, October manages a research portfolio and sets the priorities for pediatric critical care research, including severe traumatic brain injury. October is trained as a pediatric critical care and palliative care physician. Before her transition to the NIH she held an active career as a clinical scientist and academician. Her research focused on transforming communication practices between clinicians and families of children with serious illness for which she was continuously funded over the past 10 years.

Mayur B. Patel

Ex Officio Member

Mayur Patel, MD, represents the American College of Surgeons Committee on Trauma on the Forum. Patel is an acute care surgeon (trauma, emergency general surgery, burns, critical care) at Vanderbilt University, the Ingram Chair in Surgical Sciences, and a member of the Executive Committee of the Critical Illness, Brain dysfunction, and Survivorship (CIBS) Center. He graduated from Johns Hopkins, earned his medical degree at Vanderbilt, and completed his general surgery residency at Duke. He returned to Vanderbilt for his clinical training in Acute Care Surgery and for his research training by completing Vanderbilt's two-year program in the Master of Public Health. Patel has three active Board Certificates in General Surgery, Surgical Critical Care, and Neurocritical Care. His publication record reflects over 130 peer-reviewed articles, invited reviews, book chapters, and editorials. He serves as an Associate Editor for the Sabiston Textbook of Surgery and the Advanced Trauma Operative Management textbook. Patel's research focuses on getting answers that matter to trauma victims, ICU survivors, and their health-care providers. His current research focuses on brain dysfunction and critical illness, as related to traumatic brain injury (TBI), post-traumatic stress disorder (PTSD), long-term cognitive impairment, dementia, and other aspects of ICU survivorship. Since 2010, he has been research funded via the Vanderbilt Faculty Scholars Program, Vanderbilt CTSA, Agency for Healthcare Research & Quality, Eastern Association Surgery of Trauma, Department of Defense, and National Institutes of Health.

Leslie Prichep

Ex Officio Member

Leslie Prichep, PhD, is the Chief Scientific Officer of BrainScope, a medical device neurotechnology company, where she directs research and algorithm development efforts using machine learning to identify scientifically validated biomarkers of traumatic brain injury and concussion. Prichep came to BrainScope from an academic tenure as a neuroscientist at NYU School of Medicine where she was the Director of the Brain Research Laboratories (BRL) and Professor of Psychiatry. The BrainScope platform has at its core, technology she co-developed while at BRL and which they licensed from NYU. Throughout her career her focus on quantitative electrophysiology and translational research has been applied to a number of brain-related disease states including, traumatic brain injury, dementia, addiction, depression, pain, and schizophrenia. Prichep has successfully led the path for integrating objective measures of brain function into commercially available medical devices from concept through FDA clearance for several applications. She has published extensively in peer-reviewed journals; has led the BrainScope team to FDA clearances and Department of Defense research contracts in development of the products; and has added substantially to the company's patent portfolio. In 2019 she was elected as a Fellow to the National Academy of Inventors, having been nominated by NYU School of Medicine.

Terry M. Rauch

Ex Officio Member

Terry Rauch, PhD, is currently the acting Deputy Assistant Secretary of Defense for Health Readiness Policy and Oversight. In addition, he serves as the HRP&O Director of Medical Research and Development for deployment medicine and force health protection. Rauch also represents the DoD R&D community in international health agreements and domestic federal agency and non-government partnership in an effort to better serve missions, and medical readiness for 2.3 million service members through cross-collaborations. Rauch has more than 35 years of experience in many facets of the Military Health System and has held numerous senior level positions in the Army and the Office of the Secretary of Defense. As a senior military officer he served as the Chief of Staff to the Assistant Secretary of Defense for Health Affairs, and principal advisor to four Assistant Secretaries of Defense for Health Affairs on matters pertaining to biomedical research, development and acquisition as well as medical products and devices needed to protect U.S. military forces against Chemical, Biological, Radiological & Nuclear (CBRN) threats. He commanded the U.S. Army Public Health Command-Europe, a scientific and technical organization that provided comprehensive preventive medicine services to garrisoned U.S. Army forces in Europe. Rauch served as the Chairman of the North Atlantic Treaty Organization (NATO) Working Group on Preventive Medicine advising Stabilization Forces-Bosnia and Stabilization Forces-Kosovo on preventive medicine matters. As Deputy Commander, and then later as Chief of Staff, of the U.S. Army Medical Research and Materiel Command he supported the daily management and integration of a medical research, development, and acquisition program encompassing 11 subordinate laboratories in six countries, 3,000 personnel, and over \$1 billion in funding. After retiring from the U.S. Army in October 2005 at the rank of colonel, he joined Science Applications International Corporation (SAIC) as a Senior Principal Life Scientist. At SAIC, he focused on comprehensive strategic planning and analysis for the Office of the Secretary of Defense on matters relating to Defense biomedical research, development and acquisition investment strategies and their supporting infrastructure. Rauch received a Bachelor of Science degree in psychology from the University of Cincinnati, where he also earned his Ph.D. in biology and psychology.

Joel Scholten

Ex Officio Member

Joel Scholten, MD, is Department of Veterans Affairs National Director of Physical Medicine and Rehabilitation (PM&R) providing policy and planning oversight for VA rehabilitation programming which includes the Polytrauma and Amputation Systems of Care. Scholten assumed the role of PM&R Director in September 2015. He maintains an active clinical and research practice at the Washington DC VA Medical Center and serves as the Associate Chief of Staff for Rehab Services. Prior to his move to Washington, Scholten served as the medical director of Brain Injury Rehabilitation programs at the Tampa VA Medical Center for over 10 years. He received his medical degree at the University of South Dakota and completed his residency in Physical Medicine and Rehabilitation at Eastern Virginia Graduate School of Medicine.

Shelly Timmons

Ex Officio Member

Shelly Timmons, MD, PhD, FAANS, FACS, represents the American Association of Neurological Surgeons on the Forum. Timmons is a professor and Sanford J. Larson Chair in Neurosurgery at the Medical College of Wisconsin. She was formerly chair of the Department of Neurological Surgery at Indiana University School of Medicine. Timmons holds leadership roles in several national societies and organizations and completed a term as president of the American Association of Neurological Surgeons in 2019. She is a specialist in neurotrauma and neurocritical care, with a focus on traumatic brain injury, and has led or co-led numerous clinical research studies sponsored by the NIH and industry partners. Other prior roles include vice chair for administration in the Department of Neurosurgery and director of neurotrauma at the Penn State Health Milton S. Hershey Medical Center and director of neurotrauma and residency program director at Geisinger Health System in Danville, Penn. Timmons began her career at Semmes Murphey Clinic, a leading provider of neurosurgical care in Memphis, Tenn., and was associate professor and chief of the neurotrauma division at University of Tennessee Health Science Center-Memphis, as well as assistant dean for graduate medical education. A graduate of the University of Illinois at Urbana-Champaign, Timmons earned her medical degree from the University of Illinois College of Medicine at Peoria in 1991. She completed residency training at the University of Tennessee Health Science Center-Memphis in 1997 and earned a PhD in anatomy and neurobiology there in 2002.

Dario Villarreal

Ex Officio Member

Darío Villarreal, PhD is the Sr. Director and Head of Science and Technology at the Toyota Way Forward Fund, where he funds initiatives to improve health outcomes for children with concussions. He previously served as a tenure-track Professor at Southern Methodist University. Villarreal specializes in robotics, biomechanics, control systems, and neuroscience, with a strong focus on human-robot interactions and rehabilitation robotics. He has developed FDA-compliant biomedical robots and advancing Toyota's technology strategies. Villarreal has authored over 20 peer-reviewed publications, holds 10 patents, and contributed a chapter to a textbook on rehabilitation robotics. He is a Fulbright Specialist and has received numerous awards, including recognition as one of Mexico's top engineering students by ANFEI. Villarreal holds a PhD in Biomedical Engineering from The University of Texas at Dallas and a B.Eng. in Mechatronics Engineering from Saltillo Tech, Mexico, graduating Summa Cum Laude.

Gamunu Wijetunge

Ex Officio Member

Gamunu “Gam” Wijetunge, MPM, NREMT-P, currently serves as the lead staff member for preparedness and workforce issues in the National Highway Traffic Safety Administration’s (NHTSA’s) Office of Emergency Medical Services (OEMS). Wijetunge came to NHTSA in November 2001 after working as a paramedic in Bethesda, Maryland. Wijetunge’s responsibilities at NHTSA involve a broad range of preparedness issues including pandemic influenza and integration of preparedness into the day-to-day EMS system. His work involves close coordination with a number of federal agency partners through the Federal Interagency Committee on EMS (FICEMS). Wijetunge holds a master’s degree in public management from the University of Maryland’s School of Public Policy and is a member of the public administration academic honor society, Pi Alpha Alpha. He also holds a bachelor’s of science in emergency health services from the University of Maryland Baltimore County. He has volunteered with the Wheaton Volunteer Rescue Squad since 1995, where he holds the rank of lieutenant and practices as a paramedic/ firefighter.

Rebecca Wolfkiel

Ex Officio Member

Rebecca Wolfkiel, MPP, joined the National Association of State Head Injury Administrators (NASHIA) as Executive Director in January 2018. She brings over fifteen years of experience in promoting policies that provide resources for individuals with brain injury, and their families. In her role as Executive Director, Wolfkiel is committed to representing the interests of State governments and supporting the unique and integral role they play within the service delivery system. Wolfkiel worked with former Pennsylvania Governor, Tom Ridge, at the Ridge Policy Group for ten years, where she formerly represented NASHIA as a government affairs advisor. She played an integral role in the successful reauthorization of the Traumatic Brain Injury in 2014, paving the way for the federal TBI program’s move to the Administration for Community Living. Prior to her time at the Ridge Policy Group, worked on Capitol Hill where she served as Legislative Director to Congressman Todd R. Platts, Co-Chair of the Traumatic Brain Injury Taskforce. During her tenure on the Hill, she became keenly aware of the importance of bipartisanship and developed strong Congressional relationships with Republicans and Democrats alike and she bridged partisan gaps and facilitated communication between contrasting viewpoints. Wolfkiel received a Bachelor of Arts from Dickinson College and a Master of Public Policy degree from George Mason University.