Building Integrated Care Pathways for Traumatic Brain Injury – From Enhanced Characterization to Coordinated Care: A Workshop

Committee

Michael McCrea

Chair

Michael McCrea, MD, is the Shekar N. Kurpad, MD, PhD Professor and Endowed Chair in the Department of Neurosurgery at the Medical College of Wisconsin (MCW), where he also serves as Co-Director for the MCW Center for Neurotrauma Research (CNTR). He is Interim Director of the Wisconsin Institute of Neuroscience (WINS) and Director of the WINS Clinical Neuroscience Research Center (CNRC). He has an appointment as a research neuropsychologist at the Clement Zablocki VA Medical Center in Milwaukee, Wisconsin. He is past President of the American Academy of Clinical Neuropsychology (AACN) and past President of the American Psychological Association's Society for Clinical Neuropsychology (SCN). McCrea has been an active researcher in the neurosciences, with over 400 peer-reviewed scientific publications and hundreds of national and international lectures on traumatic brain injury; he has received research funding from the National Institutes of Health (NIH), Department of Defense (DOD), the National Football League (NFL), and Abbott Laboratories. He authored the text Mild Traumatic Brain Injury and Postconcussion Syndrome: The New Evidence Base for Diagnosis and Treatment published by Oxford University Press. McCrea has led several large, multi-center studies on the effects of traumatic brain injury and concussion. He currently is co-PI on the NCAA-DoD CARE Consortium studying TBI in athletes and military service members and is a key investigator for the TRACK-TBI Network conducting multi-center clinical trials in TBI. He has served on several national and international expert panels related to research and clinical care for TBI over the past two decades, including the National Academies of Science, Engineering and Medicine (NASEM) Committee on Accelerating Progress in TBI Care and Research. He was on the Steering Committee for the National Institute of Neurological Disorders and Stroke (NINDS) initiative on TBI Classification and Nomenclature.

Jeffrey J. Bazarian

Member

Jeffrey Bazarian, MD, MPH, is an emergency physician with an active concussion clinic and TBI research program at the University of Rochester Medical Center. The Bazarian TBI Lab focuses on developing neuroimaging and blood-based biomarkers of axonal injury following concussion and repetitive head impacts, while investigating mechanisms underlying recovery. Since 2009, his team has enrolled more than 1000 collegiate athletes in studies using advanced biomarker and neuroimaging approaches. He was a lead author of the ALERT-TBI trial published in Lancet Neurology, which supported FDA clearance of the first blood-based biomarkers for TBI. Dr. Bazarian has contributed to TBI-related initiatives for the CDC, NIH, NSF, and National Academies of Medicine, and helped develop concussion management guidelines for returning military personnel through the Defense and Veterans Brain Injury Center. He has received research funding from the NIH, DOD, Abbott Laboratories, BrainBox Solutions, Inc., and bioMérieux S.A. and adjudication fees from Abbott Laboratories; he serves on the scientific advisory board for bioMérieux S.A. He earned his MD and MPH from the University of Rochester School of Medicine/Dentistry.

Cathra Halabi

Member

Cathra Halabi, MD, is board certified in Neurology and in Vascular Neurology. She is the Neurorecovery Program Chief in the Department of Neurology's Neurovascular Division, the founding director of the University of California San Francisco (UCSF) Neurorecovery Clinic, and the co-founding director of the UCSF Post-Acute Traumatic Brain Injury (TBI) Program. She treats patients hospitalized with neurovascular emergencies such as ischemic stroke and subarachnoid hemorrhage. She also treats patients recovering from brain injuries including stroke and concussion/TBI. Her research interests include identifying patient and injury features that predict recovery or that may be treatment targets for recovery and she has received funding support from the Howard and Gretchen Leach Endowed Professorship in Neurology at University of California San Francisco, NIH, UC Noyce Initiative, Weill Institute for Neurosciences Neurohub, and Pac-12 Student Health and Wellbeing Initiative. She is an active member of the National Academies of Sciences, Engineering, and Medicine Action Collaborative on TBI Care and the NIH StrokeNet Recovery and Rehabilitation working group. She has received the Teaching Excellence Award for Cherished Housestaff and the Robert B. Layzer Golden Toe Award for Excellence in Neurology Resident Teaching. She holds the inaugural Howard and Gretchen Leach Endowed Professorship in Neurology.

Rebekah Mannix

Member

Rebekah Mannix, MD, MPH, is a professor of Pediatrics and Emergency Medicine at Harvard Medical School. Dr. Mannix serves as the primary investigator for her Traumatic Brain Injury Lab and is co-investigator of the Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) study and the Neurologic Function across the Lifespan: A LONGitudinal Translational Study for Former National Football League Players (NFL-LONG Study). Her clinical research interest is the identification of new serum and imaging biomarkers for diagnosing and managing mild traumatic brain injury, and her work has been funded by grants from the Department of Defense, National Institutes of Health, Abbott Laboratories, NFL, and the Biomedical Advanced Research and Development Authority (BARDA). Dr. Mannix earned her medical degree at the University of Massachusetts Medical School and completed her MPH at the Harvard School of Public Health. She completed her residency and fellowship at Boston Children’s Hospital, where she serves as Chief of Emergency Medicine and co-Director of the Brain Injury Center.

Molly McNett

Member

Molly McNett, PhD, RN, is the Associate Dean for Evidence-Based Practice and Implementation Science, and the Helene Fuld Endowed Professor of Evidence-Based Practice in the College of Nursing at The Ohio State University. In her role, she directs and oversees all programming for the Helene Fuld Health Trust National Institute for Evidence-Based Practice, and routinely works with interdisciplinary healthcare teams nationally to implement research evidence into practice settings. Dr. McNett has an established program of research that centers on identifying and implementing best practices for acute care management of patients with complex critical care and neurological injuries. She has research funding from the National Institutes of Health, the U.S. Department of Defense, and the Patient Centered Outcomes Research Institute (PCORI). She is also a GRADE trained methodologist who has led and participated in evidence-based guideline development and implementation for over a decade. Dr. McNett routinely leads interdisciplinary task forces nationally to integrate key components of research, implementation science, evidence-based practice and quality improvement initiatives into healthcare settings to improve outcomes for patients.

Mayur B. Patel

Member

Mayur Patel, MD, represents the American College of Surgeons Committee on Trauma on the National Academies' Forum on TBI. 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 150 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.

Anita Ravi

Member

Anita Ravi, MD, MPH, MSHP, FAAFP, is a board-certified family medicine physician who specializes in the care of survivors of gender-based violence (GBV), including women who have experienced domestic violence, human trafficking, and sexual assault. She is the founder and CEO of PurpLE Health Foundation, a nationally recognized non-profit organization dedicated to improving healthcare for GBV survivors. Dr. Ravi’s expertise in GBV-care spans clinical care, research, training and advocacy, leading to innovative survivor-centered models of care delivery that have informed the training of clinicians nationwide. As a James C. Puffer, MD/American Board of Family Medicine Fellow at the National Academy of Medicine, she focuses on traumatic brain injury and its intersection with intimate partner violence and incarceration. Over the past decade, Dr. Ravi's field-building work has been featured in prominent media outlets and recognized through awards and honors including selection as a L'Oréal Paris Women of Worth Honoree and New York State Family Physician of the Year. She received her BA from Washington University in St. Louis, her MD from the University of Michigan School of Medicine, her MPH from Yale University, and her MSHP from the University of Pennsylvania School of Medicine.

Joel Scholten

Member

Joel Scholten, MD, is Department of Veterans Affairs Executive 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. He has received research funding from DOD and VA 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.

Rachel M. Werner

Member

Rachel M. Werner, MD, PhD, is Professor of Medicine at the University Of Pennsylvania Perelman School Of Medicine and of Health Care Management and Economics at the Wharton School. She is the former Executive Director of the Leonard Davis Institute of Health Economics and a practicing physician at the Philadelphia VA. Over the last 20 years, Dr. Werner has built a foundational research program examining the effects of health care policies and payment on health care delivery and patient outcomes. This research has revealed the many intended and unintended effects of quality improvement incentives, and was among the first to recognize that public reporting of quality information may worsen racial disparities. She is a Core Investigator with the VA HSR&D Center for Healthcare Evaluation, Research, and Promotion (CHERP) and a consultant with CityBlock Health, advising on evaluation of patients with complex and high-cost health conditions. She has received numerous awards for her work, including the Alice Hersh New Investigator Award from AcademyHealth, the Presidential Early Career Award for Scientists and Engineers, and the American Federation of Medical Research (AFMR) Outstanding Investigator Award. Dr. Werner is a Research Associate at the National Bureau of Economic Research and was elected to the National Academy of Medicine in 2018.

Katherine Bowman

Staff Officer