

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

HEALTH AND MEDICINE DIVISION
Board on Health Sciences Policy
Board on Health Care Services

Accelerating Progress in Traumatic Brain Injury Research and Care

VIRTUAL WORKSHOP AGENDA

All times listed are Eastern Time

Traumatic brain injury (TBI) is an alteration in brain function, or other evidence of brain pathology, caused by an external force. Through this virtual workshop, the [Committee on Accelerating Progress in Traumatic Brain Injury Research and Care](#) will gather input from public and private experts and stakeholders to assess civilian and military health burdens of TBI; examine the landscape of TBI care and research; and consider gaps and opportunities for improving systems from acute care through rehabilitation and beyond. The workshop will provide important input into the committee's report.

Virtual workshop sessions will be held over 4 days:

- **Tuesday, March 16 from 12:00 – 4:00 pm ET**
- **Thursday, March 18 from 1:00 – 5:00 pm ET**
- **Tuesday, March 30 from 12:00 – 4:00 pm ET**
- **Thursday, April 1 from 12:00 – 4:00 pm ET**

KEY QUESTIONS FOR THE WORKSHOP

- What is a vision for improved TBI care? What improvements could be achieved and for whom?
- What do we know from recent research and clinical successes? What do we still need to know or improve?
- How can remaining challenges be overcome to achieve a vision of improved TBI systems of care?

Visit the [project website](#) for additional information on the committee, its task, and the virtual workshop.

DAY 1: TUESDAY, MARCH 16

12:00 – 4:00 PM ET

Objectives:

- Learn about patient and family experiences with traumatic brain injury.
 - Discuss gaps in TBI care systems and needs or aims for improvement.
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12:00 Welcome and Opening Remarks

Donald Berwick, Institute for Healthcare Improvement (*Committee Chair*)

12:10 Patient Experiences with TBI Systems of Care

Preliminary Questions:

- *What issues or concerns have you experienced as you moved through TBI systems of care?*
- *What worked well and what did not for you? What are your key challenges and needs?*
- *If you could have changed one thing about the care you received, what would that have been?*

Moderator: Matthew Fink, Weill Cornell Medical College and New York Presbyterian

Panelists: Lisa Brandt
Scott Hamilton
Kristine Swift
Aemon Purser
Keith Primeau

1:20 Disparities in TBI Outcomes

Preliminary Questions:

- *What is known about causes of disparities in TBI care and outcomes?*
- *How can disparities be reduced?*

Moderator: Corinne Peek-Asa, University of Iowa College of Public Health

Speakers: Richard Sidwell, The Iowa Clinic
Megan Moore, University of Washington

2:10 Break

2:30 Family Impacts from TBI and Engagement in TBI Care

Preliminary Questions:

- *In your experience, what concerns or issues have patients, caregivers, and family members faced as they move through TBI systems of care?*
- *What is working well or has significantly improved in the past five years? What is not?*
- *Are any patient and family populations particularly underserved in current TBI systems?*

Moderator: Helene Moriarty, Villanova University and Corporal Michael J. Crescenzo VA Medical Center

Panelists: Susan Connors, Brain Injury Association of America
Angelle Sander, Baylor College of Medicine
Elizabeth Rotenberry, Elizabeth Dole Foundation
Kelli Williams Gary, Virginia Commonwealth University

3:30 Public Comment Period

Comments from individuals registered in advance (2 minutes each).

3:50 Wrap-up of Day 1 and Preview of Day 2

Donald Berwick, *Committee Chair*

4:00 Adjourn

DAY 2: THURSDAY, MARCH 18

1:00 – 5:00PM ET

Objectives:

- Hear provider perspectives on acute and post-acute TBI care.
 - Discuss gaps in TBI care systems and the research needed to enable more optimal care.
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1:00 **Welcome and Goals of Day 2**

Donald Berwick, Institute for Healthcare Improvement (*Committee Chair*)

1:10 **TBI Care Gaps and Opportunities: Provider Perspectives on the Acute-Stage Continuum of Care**

Preliminary Questions:

- *In your experience, what aspects of acute-stage TBI care (injury through acute-stage hospital care) currently work well? What aspects do not work well?*
- *What prevents you from providing optimal care to patients? What care or research gaps would you need filled or what tools would you need to provide improved care?*

Moderator: Thomas Scalea, R Adams Cowley Shock Trauma Center and University of Maryland Medical System

Panelists: James Robinson, Spectrum Retirement Communities
David Wright, Emory University
Deborah Stein, University of California, San Francisco
Karen McQuillan, University of Maryland

2:10 *Break*

2:20 **TBI Care Gaps and Opportunities: Provider Perspectives on the Post-Acute Continuum of Care**

Preliminary Questions:

- *In your experience, what aspects of post-acute TBI care (rehabilitation and longer-term services or care) currently work well? What aspects do not work well?*
- *What prevents you from providing optimal care to patients? What care or research gaps would you need filled or what tools would you need to provide improved care?*

Moderator: Christina Master, University of Pennsylvania Perelman School of Medicine and Children's Hospital of Philadelphia

Panelists: Alberto Esquenazi, MossRehab, Einstein Healthcare Network
Flora Hammond, Indiana University School of Medicine
Mary Voegeli, Medical College of Wisconsin and Froedert Hospital
Monica Lichi, Ohio State University

3:30 *Break*

3:40 **Research to Fill Identified TBI Care Gaps**

Preliminary Questions:

- *Where are there misalignments between available TBI tools, treatments, or interventions and patient and provider needs?*
- *What research is needed to help address these gaps?*

Moderator: Jessica Gill, National Institute of Nursing Research, National Institutes of Health

Panelists: Roger Lewis, Harbor-UCLA Medical Center
David Brody, Uniformed Services University
Kristine Yaffe, University of California, San Francisco
Hilaire Thompson, University of Washington
Ramona Hicks, One Mind

4:50 **Wrap-up of Day 2 and Preview of Day 3**
Donald Berwick, *Committee Chair*

5:00 *Adjourn*

DAY 3: TUESDAY, MARCH 30
12:00 – 4:00 PM ET

Objectives:

- Discuss systems issues for TBI care and research.
 - Learn from systems of care for other conditions.
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12:00 **Welcome and Goals of Day 3**
Donald Berwick, Institute for Healthcare Improvement (*Committee Chair*)

12:10 **Introduction to a Learning Health System**
Kedar Mate, Institute for Healthcare Improvement

12:40 **System Challenges for TBI Care**

Preliminary Questions:

- *What are the key challenges in TBI care systems?*
- *How do funding and priority selection affect TBI systems?*
- *How can TBI care and research be a learning system?*

Moderator: Eric Schoomaker, Lieutenant General (Ret), U.S. Army, Uniformed Services University

Panelists: Jandel Allen-Davis, Craig Hospital, Denver
Joel Scholten, Veterans Health Administration
Katherine Lee, Department of Defense
Thomas Mayer, NFL Players Association

1:50 *Break*

2:00 **Using the System of TBI Research to Meet Key Needs**

Preliminary Questions:

- *How can the research system address gaps reported by patients and providers? What changes may be needed?*
- *What levers are available for motivating change and filling key research gaps?*

Moderator: Sidney Hinds, Colonel (Ret), U.S. Army and Long-term Impact of Military-relevant Brain Injury Consortium-Chronic Effects of Neurotrauma Consortium

Panelists: Patrick Bellgowan, National Institute of Neurological Disorders and Stroke, National Institutes of Health
Magali Haas, Cohen Veterans Bioscience
Pimjai Sudsawad, National Institute on Disability, Independent Living, and Rehabilitation Research
CDR Travis Polk, Combat Casualty Care Research Program, Department of Defense

3:00 Comparative Systems of Care: Lessons from Other Disease Systems

Preliminary Questions:

- *What aspects are part of making the system “ideal”?*
- *What is the connection between research and care in the system?*
- *What is the role of rehabilitation and post-acute care in the system?*
- *What lessons and limitations for TBI can be drawn from these care system examples?*

Moderator: Martin Schreiber, Oregon Health and Science University

Speakers: Gregory Albers, Stanford University
Bruce Miller, University of California, San Francisco

3:50 Wrap-up of Day 3 and Preview of Day 4 (Final Day)

Donald Berwick, *Committee Chair*

4:00 Adjourn

DAY 4: THURSDAY, APRIL 1

12:00 – 4:00 PM ET

Objectives:

- Identify actions that could help bring a vision of improved TBI care and research to fruition.
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12:00 Welcome to Final Day

Donald Berwick, Institute for Healthcare Improvement (*Committee Chair*)

12:10 Social Determinants of Health

Preliminary Questions:

- *How do social determinants of health affect TBI experiences and outcomes?*
- *How might this information be used to improve TBI care and research systems?*

Moderator: Michael McCrea, Medical College of Wisconsin

Speakers: Julia Iyasere, Dalio Center for Health Justice, New York-Presbyterian
Paul Perrin, Virginia Commonwealth University

1:10 Lessons from Implementation Science

Preliminary Questions:

- *What does implementation science tell us about effectively translating knowledge into improved practice, and about replacing out-of-date practices?*
- *How could these lessons be applied to improve TBI systems?*

Moderator: Frederick Korley, University of Michigan

Speakers: Joe McCannon, University of Chicago Booth School of Business and the Billions Institute
Rinad Beidas, University of Pennsylvania

2:10 Break

2:30 Achieving a Vision of Improved TBI Care and Research: Reflections on Actions for Advancing TBI Systems

Preliminary Questions:

- *What are the top 1-3 problems you would address? Why would you start with these?*
- *Is there a rallying point or idea that can bring collective action by the diverse community interested in improving TBI care and research?*

Moderator: Susan Margulies, Georgia Institute of Technology and Emory University

Panelists: David Cifu, Virginia Commonwealth University
John Corrigan, Ohio State University
Ramon Diaz-Arrastia, University of Pennsylvania
David Okonkwo, University of Pittsburgh
Jeffrey Upperman, Vanderbilt University Medical Center

3:45 Closing Remarks

Ellen MacKenzie, Johns Hopkins Bloomberg School of Public Health

4:00 Adjourn