Summary of VA & DOD TBI Model Systems & I-MAP Activities
(Current as of 01-17-18)

Peer-Reviewed Scientific Publications
22 Published and In-press 14 In Progress
3 Under Review 25 Published Abstracts

Special Issues in Journals
2 Published
- Journal of Head Trauma and Rehabilitation (Published March 2016; Sleep and TBI; R Nakase-Richardson, Ph.D., Editor)
- JHTR TBI SOTA-themed issue featuring VA TBIMS studies (Published July 2017; R Nakase-Richardson, Ph.D., & L. Stevens, Ph.D. Editors)
2 In Progress
- Archives of Physical Medicine and Rehabilitation (Community Reintegration Among Veterans with Polytrauma; T. Dillahunt-Aspillaga, Ph.D. & Gail Powell-Cope, Ph.D., Editors)
- Brain Injury Professional (Invited, 2018 publication date; R. Nakase-Richardson, Ph.D. Editor)

Conference Presentations:
100 Completed in 2015 - 2017 14 Under Review
7 Pending Presentation

Awards
- 2017 Brain Injury ISIG Early Career Poster Award, American Congress of Rehabilitation Medicine
- 2017 Military and Veteran Affairs Networking Group Early Career Poster Award, American Congress of Rehabilitation Medicine
- 2016 Military and Veteran Networking Group Overall Best Poster Award, American Congress of Rehabilitation Medicine
- 2016 Military and Veteran Networking Group Early Career Research Poster Award, American Congress of Rehabilitation Medicine
- 2016 Blue Ribbon Award for Best Research Submission, American Psychological Association
- 2015 Military and Veteran Networking Group Early Career Research Poster Award, American Congress of Rehabilitation Medicine
- 2015 Southern Sleep Society, Founder’s Award

Grants (To Fund Next Steps/Translation)
3 Funded/Invited
- Sleep EEG Predictors of Outcome (VA RR&D)
- Quality of Life in Caregivers of Traumatic Brain Injury: The TBI-CareQOL (NIH)
- Comparative Effectiveness of Sleep Apnea Screening and Diagnostics in TBI (PCORI)
5 Submitted
- Natural History of Sleep Apnea Following TBI (NIH R01)
- Coalition Building to Implement Evidenced Based Resource Facilitation and Increase Access to Community Support Services for Veterans with TBI (VA HSR&D) – Resubmission in Progress
- Effect of Tobacco Use on Cognitive Recovery after Traumatic Brain Injury (VA HSR&D)
- Prevalence and Effective Treatment Strategies for Complex TBI with Chronic Pain (Department of Defense, Psychological Health/Traumatic Brain Injury Research Program, Complex TBI Rehabilitation Research Award)
- The contribution of moderate alcohol use after a TBI on long-term mental health outcomes (NIH)
Peer-Reviewed Manuscripts

Under Review


In Press or Epub Ahead of Print:


Published:


**Notifications In Progress:**

5. Brickell TA, Lange RT, French LM, Cotner BA, O'Connor DR, Nakase-Richardson R, Carlozzi NE. The Influence of Traumatic Brain Injury Severity on Health-Related Quality of Life in Caregivers of a Service Member or Veteran with Traumatic Brain Injury.
10. Lynn C, Silva M, Finn J, Nakase-Richardson R. Development and feasibility of a measurement tool for rehabilitation needs in veterans and service members with chronic TBI.
11. Nakase-Richardson R. Et al. Comorbidity and Outcome: A VA TBI Model System Study
12. Richardson R, Schwartz E, Schwartz D, Holcomb E, Modarres M, Schwarz D, Massengale J. Does Sleep Apnea Predict Outcome in TBI.
14. Ropacki S, Harris O. TBI and Amputation: A VA TBI Model System Study

Scientific Presentations

2018 4th Federal Interagency Conference on TBI

Symposia

Kreutzer J, Stevens LF, Finn JA. Family stability and family needs post-TBI: A collaboration of VA and NIDILRR TBIMS efforts. Symposium accepted to 4th Federal Interagency Conference on TBI; June 2018; Washington, DC.

Lamberty GJ, Brenner LA, Finn JA. Veteran and Service Member mental health post-TBI: Examining data from the VA TBI Model Systems. Symposium accepted to 4th Federal Interagency Conference on TBI; June 2018; Washington, D.C.

Nakase-Richardson R, Bell K, Hoffman J. Advancing sleep research: Two multi-center studies within the TBI Model System Program. Symposium accepted to 4th Federal Interagency Conference on TBI; June 2018; Washington, DC.

Nakase-Richardson R, Kowalski R, Hammond F. Extending our knowledge of long-term outcomes after severe TBI: Three DOC TBI Model System studies. Symposium accepted to 4th Federal Interagency Conference on TBI; June 2018; Washington, DC.


Posters/Papers


Cotner BA, O’Connor DR, Silva MA, Dillahunt-Aspillaga C, Brown RM, Nakase-Richardson R. Veteran and Service Members’ access to rehabilitation services: Preliminary qualitative results. Poster abstract submitted to 4th Federal Interagency Conference on TBI; June 2018; Washington, DC.


Stevens LF, Singh M. Stakeholder Feedback on a family intervention for the VA’s Polytrauma System of Care. Oral abstract submitted to 4th Federal Interagency Conference on TBI; June 2018; Washington, DC.

**SLEEP 2018, the 32nd Annual Meeting of the Associated Professional Sleep Societies**

**Symposia**
Bell KR, Lequerica A, Nakase-Richardson R, Coulter J, Coulter J. Advancing Sleep Research in Moderate to Severe TBI: Three Multi-Center Studies Within the TBI Model System Program of Research. Symposium abstract submitted to SLEEP 2018, the 32nd Annual Meeting of the Associated Professional Sleep Societies; June 2018; Baltimore, MD.

**Oral and Poster Presentations**

**Western Michigan Brain Injury Network Symposium**
Nakase-Richardson R. Informing the long-term needs of Veterans and Service Members with TBI. Invited oral presentation to the Western Michigan Brain Injury Network Symposium; April 2018; Grand Rapids, MI.

**Completed Presentations**

**2018 Brain Injury Summit**

**Symposia**
Nakase-Richardson R. Evidence-informed approaches to sleep dysfunction following traumatic brain injury. Invited oral presentation for the Brain Injury Summit 2018 sponsored by Craig Hospital; January 2018; Vail, CO.

Nakase-Richardson R. Sleep apnea and TBI: Pearls of diagnosis and clinical management. Invited oral presentation for the Brain Injury Summit 2018 sponsored by Craig Hospital; January 2018; Vail, CO.

Nakase-Richardson R. & Makley M. Developing a sleep-centric brain injury rehabilitation unit: Practical use of actigraphy. Invited oral presentation for the Brain Injury Summit 2018 sponsored by Craig Hospital; January 2018; Vail, CO.

**Posters/Papers**
Nakase-Richardson R. Sleep and traumatic brain injury. Invited oral presentation to the University of Pittsburgh Medical Center Brain Injury Conference; November 2017; Pittsburgh, PA.

2017 American Congress of Rehabilitation Medicine Conference

Symposia / Instructional Courses
Graham J, Middelton A, Nakase-Richardson R, Mallinson T, Beneciuk J, Roberts P, Leland N, Karmarkar A, Kumar A, Reistetter TA, Mroz TM, Hong I, Massengale J, Dismuke CE, Downer B. Health services research efforts within the ACRM: Parts I, II, & III. Symposia presented at the American Congress of Rehabilitation Medicine Conference; October 2017; Atlanta, GA.

Nakase-Richardson R, Bushnik T, Hoffman J. Advancing sleep research: Three multi-center studies within the TBI Model System Program. Symposium presented at the American Congress of Rehabilitation Medicine Conference; October 2017; Atlanta, GA.

Nakase-Richardson R, Modarres M, Fogelberg D, Travis-Seidl J. Measurement of sleep in neurorehabilitation: The role of actigraphy. Symposium presented at the American Congress of Rehabilitation Medicine Conference; October 2017; Atlanta, GA.

Nakase-Richardson R, Schwartz D, Calero K, Modarres M, Bell K, Monden K. Improving recognition and treatment of sleep apnea in the rehabilitation setting to improve outcome. Instructional course presented at the American Congress of Rehabilitation Medicine Conference; October 2017; Atlanta, GA.


Posters/Papers


Cotner BA, Carlozzi NE, Lange R, French L, O’Connor DR, Nakase-Richardson R, Brickell T. Quality of sleep in caregivers of service members and Veterans with traumatic brain injury. Arch Phys Med Rehabil; 98(10), e97–e98. doi:10.1016/j.apmr.2017.08.314 Poster presented at the American Congress for Rehabilitation Medicine (ACRM), October 2017; Atlanta, GA.
Kothari S, Nakase-Richardson R, Whyte J. Improving care for persons with disorders of consciousness (DOC): An introduction to minimal competency recommendations for DOC programs. Symposium presented at the 2017 American Academy of Physical and Medicine Rehabilitation Annual Assembly; October 2017; Denver, CO.

Nakase-Richardson R. Traumatic brain injury and sleep. Invited oral presentation at the Current Concepts in Sleep Conference; September 2017; Clearwater, FL.


funded by the Patient Centered Outcomes Research Institute (PCORI). Poster presented at the 2017 Military Health System Research Symposium; August 2017; Kissimme, FL.


**SLEEP 2017, the 31st Annual Meeting of the Associated Professional Sleep Societies**

**Oral and Poster Presentations & Published Abstracts**


**2017 Veterans Health Administration Annual Research Day**


Nakase-Richardson R. Comparison of Sleep Apnea Assessment Strategies to Maximize TBI Rehabilitation Participation and Outcome (C-SAS). Oral presentation at The Annual James A. Haley Veterans’ Hospital Research Day; May 2017; Tampa, FL.


**2017 World Congress on Brain Injury**

**Invited Symposium**


**Instructional Course**


**Presentations & Published Abstracts**

Brickell TA, Lange RT, French LM, Cotner BA, O’Connor DR, Nakase-Richardson R & Carlozzi NE. The Influence of Traumatic Brain Injury Severity on Health-Related Quality of Life in Caregivers of a Service Member or Veteran with Traumatic Brain Injury. *Brain Injury*. 2017; 31(6-7): 863-864. Poster presentation at the International Brain Injury Association’s 12th World Congress on Brain Injury; April 2017; New Orleans, LA.


**APA Division 22 2017 Rehabilitation Psychology Annual Conference.**


**10/2016 American Congress of Rehabilitation Medicine**

**Symposia / Instructional Courses**

Stevens, L, Cotner, BA, Bailey EK, Sander A, Dillihunt-Aspillaga C. Brain Injury Caregiving and Family Needs. Symposia presentation at the American Congress of Rehabilitation Medicine Conference; October 2016; Chicago IL.

Wallace T, Morris J, Gore R, and Nakase-Richardson R. Novel Applications of Technology for Brain Injury Rehabilitation of Military Service Members. Symposia presentation at the American Congress of Rehabilitation Medicine Conference; October 2016; Chicago IL.


**Posters & Published Abstracts**


2016 Military Health System Research Symposium

Poster & Published Abstract

08/2016 American Psychological Association Convention

Oral Presentation & Published Abstract

06/2016 The Annual Conference of the American Academy of Clinical Neuropsychology

Poster & Published Abstract

1st Iberoamerican Congress of Neuropsychology

2016 Veterans Health Administration Annual Research Day


2016 North American Brain Injury Society’s 13th Annual Conference on Brain Injury

Poster & Published Abstract

Invited Presentations
Nakase-Richardson R. The use of objective technologies in sleep medicine after TBI. Symposium presentation at: North American Brain Injury Society’s 13th Annual Conference on Brain Injury; April 2016; Tampa, FL.


2016 Military Health System Speaker Series
Nakase-Richardson R. Outcome and Rehabilitation of Severe TBI. Invited presentation to the Military Health System Speaker Series; March, 2016.

2016 International Brain Injury Association

Invited Symposia & Instructional Courses


**2016 Association of Academic Physiatrists Annual Conference**

**Posters**


**2015 American Congress of Rehabilitation Medicine 92nd Annual Conference**

**Posters & Published Abstracts**


**Symposia & Instructional Courses**

Dillahunt-Aspillaga C, Ottomanelli L, Schmitt M. Community Reintegration of Veterans with TBI: Implications for Practice. Symposium presented at: American Congress of Rehabilitation Medicine 92nd Annual Conference; October 2015; Dallas, TX.


Nakase-Richardson R, Whyte J, Giacino JT, Katz DI, Greenwald BD, Sherer M, Weintraub A, Zafonte RD, Hammond F, Arciniegas D, Kothari S. Building capacity in the assessment, treatment, and ethical management in severe TBI. Instructional course presented at: American Congress of Rehabilitation Medicine 92nd Annual Conference; October 2015; Dallas, TX.

**16th Annual Current Concepts in Sleep Conference**


**2015 The Military Health System Research Symposium**

Belanger H, Silva MA, McKenzie-Hartman T, Vanderploeg R. Is the Neurobehavioral Symptom Inventory (NSI) a good outcome measure? A Chronic Effects of Neurotrauma Consortium (CENC) and VA TBI Model System Study. Poster presented at: The Military Health System Research Symposium; August 2015; Fort Lauderdale, FL.


McKenzie T, Silva MA, Nakase-Richardson R. Description of neuropsychological performance and disability outcomes by severity: findings from the Traumatic Brain Injury Model Systems (TBIMS) and Implications for the chronic effects of neurotrauma consortium (CENC) Study. Poster presented at: The Military Health System Research Symposium; August 2015; Fort Lauderdale, FL.

**2015 TBI State of the Art Invitational Conference**


**2015 13th Annual Meeting of the American Academy of Clinical Neuropsychology**

Poster & Published Abstract

**2015 James A. Haley Veterans’ Hospital 17th Annual Research Day**


Silva MA, Haskin AC, Schwartz DJ, Nakase-Richardson R. Unexpected improvement following sleep apnea treatment during post-acute recovery from severe brain injury and minimally conscious state. Poster presented at: James A. Haley Veterans’ Hospital 17th Annual Research Day; May 2015; Tampa, FL.


2015 American Academy of Sleep Medicine

Poster & Published Abstract

2015 Southern Sleep Medicine Society


Grand Rounds and Other Presentations
- Stevens LF. Traumatic Brain Injury Model Systems. Invited in-service for the Mental Health Service at McGuire VA Medical Center; September 7, 2016; Richmond, VA.
- Nakase-Richardson, R. Improving the significance and direction of sleep management after TBI. Invited presentation to VA Polytrauma Grand Rounds, July 2016.
- Nakase-Richardson R. Syndromes of Impaired Consciousness: Diagnostic Distinctions and Rehabilitation. Webinar presented to: Defense Health Agency’s Mental Health Series; March 16, 2016.
- Nakase-Richardson R. Sleep and TBI. Webinar presented to: Journal of Head Trauma and Rehabilitation and Brain Injury Association of America; March 10, 2016.
- Schmitt MM. Traumatic Brain Injury. Presentation at: Randolph Air Force Base Caregiver Summit; January 21, 2016; San Antonio, TX.
- Nakase-Richardson R. Improved understanding of medical and psychological needs in veterans and service members with chronic TBI. Briefing presented to: DVBIC National Research Committee; April 24, 2015; Washington, DC.
- Nakase-Richardson R. Improved understanding of medical and psychological needs in veterans and service members with chronic TBI. Briefing presented to: National PSC Research Steering Committee; March 31, 2015; Washington, DC.
- Nakase-Richardson R. Improved understanding of medical and psychological needs in veterans and service members with chronic TBI. Briefing presented to: DVBIC Headquarters; March 27, 2015; Washington, DC.
Grant Development (Next Steps for Research):

**Funded:**

**VA RR&D:**
Sleep-EEG Predictors of Functional Outcome after TBI. VA RR&D; 1 I21 RX001923-01A1, $199,925. PI: Mo Modarres, PhD. Co-Investigators: Miranda Lim, MD, Risa Nakase-Richardson, PhD. Project Manager: Stuart Hoffman, PhD.

**NIH Subcontract via University of Michigan:**
Quality of Life in Caregivers of Traumatic Brain Injury: The TBI-CareQOL. National Institute of Nursing Research; 5R01NR013658-03. $60,000 contract with TVAREF, 10/1/2016-6/30/2017. PI: Noelle Carlozzi, PhD (University of Michigan Ann Arbor). Tampa Site Investigators: Jill Massengale, DNP, ARNP-C, Risa Nakase-Richardson, PhD.

**PCORI:**
Comparison of Sleep Apnea Assessment Strategies to Maximize TBI Rehabilitation Participation and Outcome (C-SAS). PI: Risa Nakase-Richardson, PhD, Co-Investigators: Jeanne Hoffman, PhD, Jennifer Bogner, PhD, Don Gerber, PhD, Marie Dah-dah, PhD, Tom Watanabe, MD. Consultants: Kathleen Bell, MD, John Whyte, MD, Jamie Zeitzer, PhD. PCORI.

**Submitted:**

**NIH:**
Natural History of Sleep Apnea Following TBI. PIs: Kathleen Bell, MD & Risa Nakase-Richardson, PhD. (RO1) [not funded]

The Contribution of Alcohol use after a TBI on Long-term Mental Health Outcomes. PI: Rachel Sayko-Adams, Ph.D. Co-Investigators: John Corrigan, Ph.D., Risa Nakase-Richardson, Ph.D., Xinyu Tang, Ph.D., Gale Whiteneck, Ph.D., Jessica Ketchum, Ph.D., (R21). [not funded]

**VA HSR&D:**
Coalition Building to Implement Evidenced Based Resource Facilitation and Increase Access to Community Support Services for Veterans with TBI. PI: Tina Dillahunt-Aspillaga, PhD.

Effect of Tobacco Use on Cognitive Recovery after Traumatic Brain Injury. PI: Marc Silva, PhD. [not funded]

**Department of Defense, Psychological Health/Traumatic Brain Injury Research Program, Complex TBI Rehabilitation Research Award**
Prevalence and Effective Treatment Strategies for Complex TBI with Chronic Pain. PIs: Cindy Harrison-Felix, PhD and Risa Richardson, PhD. [not funded]

**NIH Center for Large Data Research:**
NIH R21:
The association of childhood TBI and substance misuse with TBI rehabilitation outcomes in VA and Civilian TBI Model Systems. PI: Rachel Adams, Ph.D. Co-Investigators: John Corrigan, Ph.D., Risa Nakase-Richardson, Ph.D., Marc Silva, Ph.D. National Institute of Health. [not funded]

Developing a Predictive Algorithm for Mild TBI Recovery Trajectory. PI: Heather Belanger, Ph.D. Co-I: Rodney Vanderploeg, Ph.D., Risa Nakase-Richardson, Ph.D. [not funded]

VA RR&D:
Mediating Effect of Sleep Apnea on Indices of Neurodegeneration (MESA Study). PI: Risa Nakase-Richardson, Ph.D., Co-I: Treven Pickett, Ph.D., Lisa Wilde, Ph.D., et al. VA Rehabilitation Research and Development. [not funded].

Letters of Intent Submitted:

CDMRP (October 2017):
Mediating Effects of Sleep Apnea (MESA-MR) on Military Readiness After TBI. PI: Risa Richardson, PhD.

CDMRP (August 2016):
Prevalence and Effective Treatment Strategies for Complex TBI with Chronic Pain. PI: Cindy Harrison-Felix, PhD. Co-PI: Risa Nakase-Richardson, PhD. Co-Is and Collaborators: William Walker, MD, Mary Jo Pugh, PhD, Flora Hammond, MD, Wayne Gordon, PhD, Dawn Neumann, PhD, Jennifer Murphy, PhD, Aaron Martin, PhD, Kristen Phillips, PhD, Tamara Bushnik, PhD, Ross Zafonte, DO, Jennifer Bogner, PhD, Elizabeth Felix, PhD, and Simon Driver, PhD.

A Sequential Multiple Assignment Randomized Trial of Problem-Solving Therapy for Chronic Pain in Traumatic Brain Injury. PI: Kathy Bell, MD. Team includes: Drs. Tessa Hart, Simon Driver, Jeanne Hoffman, Risa Richardson, Jesse Fann, Kristin Phillips, Jennifer Murphy, Aaron Martin, Eric Lebel and Marie Davidian.

Military Suicide Research Consortium (April 2016):
RCT of Non-Pharmacological Intervention (Window To Hope) to Decrease Severe Hopelessness and Risk for Suicide in Veterans and Service Members with Moderate to Severe TBI. PI: Lisa Brenner, Ph.D., Co-I: Jeri Forster, PhD; Bridget Matarazzo, PsyD. Jacob Finn, Ph.D., Lillian Stevens, Ph.D., Risa Nakase-Richardson, Ph.D. [not invited]

CDMRP (June 2015):
Sleep Disorders - Consortium for Improving Sleep after Traumatic Brain Injury (CI-SlepT). PI: Lisa Brenner, Ph.D., Co-I: Risa Nakase-Richardson, Ph.D., Sean Barnes, Ph.D., Kathleen Bell, M.D., Michael Nadorff, Ph.D. [not invited]