Summary of VA & DOD TBI Model Systems & I-MAP Activities
(Current as of 04-15-2019)

Peer-Reviewed Scientific Publications

<table>
<thead>
<tr>
<th>Category</th>
<th>Published</th>
<th>In Progress</th>
<th>In Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Published and In-press</td>
<td>38</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Under Review</td>
<td>2</td>
<td>48</td>
<td>1</td>
</tr>
</tbody>
</table>

Special Issues in Journals

4 Published
- Journal of Head Trauma and Rehabilitation (Published March 2016; Sleep and TBI; R. Nakase-Richardson, Ph.D., Editor)
- Journal of Head Trauma and Rehabilitation TBI SOTA-themed issue featuring VA TBIMS studies (Published July 2017; R. Nakase-Richardson, Ph.D., & L. Stevens, Ph.D. Editors)
- Archives of Physical Medicine and Rehabilitation (Published February 2018; Community Reintegration Among Veterans with Polytrauma; T. Dillahunt-Aspillaga, Ph.D. & Gail Powell-Cope, Ph.D., Editors)
- Brain Injury Professional (Published March 2018; Sleep Disorders and TBI; R. Nakase-Richardson, Ph.D. Editor)

1 In Development (Proposed to Editorial Board)
- Journal of Head Trauma and Rehabilitation (Caregiver; A. Sander, PhD & L.F. Stevens, PhD, Editors)

Presentations:

134 Conference presentations completed in 2015 - 2019
6 Conference presentations pending presentation
28 Conference presentations under review
28 Veterans Health Administration Research Day presentations completed in 2015 - 2019
Awards
- 2019 Top Abstract Award, 13th World Congress on Brain Injury
- 2018 Brain Injury I-SIG of ACRM, David Strauss Award, American Congress of Rehabilitation Medicine
- 2018 Military and Veteran Networking Group, Best Poster Award, American Congress of Rehabilitation Medicine
- 2018 Second Place Founders Award, Southern Sleep Society Conference
- 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)

Funded/Invited

6. Identifying APOE related lipid biomarkers for diagnosing chronic neurocognitive deficits in TBI patients. PIs: Abdullah and Crawford; Collaborators: Richardson and Silva. VA RR&D. 2019-2024.

Submitted

1. Natural History of Sleep Apnea Following TBI. NIH R01. Not funded.
3. A causal study of tobacco smoking on health outcomes after traumatic brain injury (TBI). NIH Center for Large Data Research. Not funded.
4. The Relationship between Social Cognition and Social Integration in Moderate to Severe TBI. NIDILRR TBIMS Collaborative Submission. Not funded.
5. Improving Sleep Apnea Treatment Adherence after Brain Injury: A Feasibility Study. VA RR&D SPIRE. Submitted 03/01/2019.
Peer-Reviewed Manuscripts

Under Review


In Press or Epub Ahead of Print:


Published:


Notifications to Analyze Data in Progress:

2. 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.
3. Cotner BA, Nakase-Richardson R. Veteran and Service Members Access to Rehabilitation Services: Preliminary Qualitative Results
6. Finn J, Royer A, Silva M, Nakase-Richardson R. Development and feasibility of a measurement tool for rehabilitation needs in veterans and service members with chronic TBI.
9. Ropacki S, Harris O. TBI and Amputation: A VA TBI Model System Study
13. Kretzmer T, et al. Population health differences between Special Operations Forces (SOF) and conventional military personnel following TBI.
Scientific Presentations

2020 ISPRM and AAP Annual Meeting

Symposia / Instructional Courses


2019 American Congress of Rehabilitation Medicine Conference

Symposia / Instructional Courses


Posters/Papers


Study. Poster submitted to: The 96th annual meeting of the American Congress of Rehabilitation Medicine; November 2019; Chicago, IL.


2019 Military Health System Research Symposium


SLEEP 2019, the 33rd Annual Meeting of the Associated Professional Sleep Societies


34. Nakase-Richardson R, Silva M, Calero K, Zeitzer J. Alternative scoring paradigms of rest-activity consolidation (RAC) in moderate to severe traumatic brain injury (TBI) during inpatient...
rehabilitation. Oral presentation and poster accepted at: SLEEP 2019; June 2019; San Antonio, TX.

**Completed Presentations**

*Society for Brain Mapping and Therapeutics Meeting 2019*

**2019 World Congress on Brain Injury**

*Symposia / Instructional Courses*

*Posters/Papers*
5. Nakase-Richardson R. Comparative Effectiveness Study of Sleep Apnea Screening and Diagnostic Tools. Poster presented at: International Brain Injury Association’s 13th World Congress on Brain Injury; March 2019; Toronto, Canada.

**2019 Rehabilitation Psychology Conference**

9. Silva MA, Brennan EM, Nakase-Richardson R. Weak agreement between prospectively and retrospectively measured posttraumatic amnesia duration: A VA Traumatic Brain Injury Model
2018 American Congress of Rehabilitation Medicine Conference

Symposia


13. Nakase-Richardson R, Silva MA, Garcia A. Sleep Apnea and Outcome After Military TBI. Symposium presented at: The 95th annual meeting of the American Congress of Rehabilitation Medicine; September 2018; Dallas, TX.

Posters


2018 Current Concepts in Sleep 19th Annual Meeting

2018 Military Health System Research Symposium
25. Cotner, B. A., O’Connor, D. R., Nakase-Richardson, R. Caregiver Quality of Life Following Veteran and Service Member TBI: VA TBI Model System Study. Poster presented at: The Military Health Services Research Symposium; August 2018; Orlando, FL.
2018 4th Federal Interagency Conference on TBI

Symposia

Posters/Papers


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

**Symposia**

51. 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 presented at: SLEEP 2018, the 32nd Annual Meeting of the Associated Professional Sleep Societies; June 2018; Baltimore, MD.

**Poster Presentations**


**2018 Veterans Health Administration Annual Research Day**


**Western Michigan Brain Injury Network Symposium**

54. Nakase-Richardson R. Improving the significance and direction of sleep management in TBI. Keynote presentation at: Western Michigan Brain Injury Network Symposium; April 19, 2018; Grand Rapids, MI.

**Southern Sleep Society 40th Annual Meeting**


**2018 Brain Injury Summit**

Symposia

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

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

Posters/Papers

*University of Pittsburgh Medical Center Brain Injury Conference*

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

Posters/Papers

*2017 American Academy of Physical Medicine and Rehabilitation*

2017 Current Concepts in Sleep and Epilepsy Conference

Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury 2017 Summit

2017 Military Health System Research Symposium

**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**


XII. Nakase-Richardson R. Comparison of Sleep Apnea Assessment Strategies to Maximize TBI Rehabilitation Participation and Outcome (C-SAS). Oral presentation presented 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


APA Division 22 2017 Rehabilitation Psychology Annual Conference,

10/2016 American Congress of Rehabilitation Medicine
Symposia / Instructional Courses
93. Wallace T, Morris J, Gore R, and Nakase-Richardson R. Novel Applications of Technology for Brain Injury Rehabilitation of Military Service Members. Symposia presented at: 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

2016 Military Health System Speaker Series

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
121. 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.


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


**2015 The Military Health System Research Symposium**

126. 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.


128. 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**


XXVI. 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


- Cotner BA, O’Connor DR, Nakase-Richardson R. (Invited). Caregiver Quality of Life and Needs Following Veteran and Service Member TBI: A VA TBI Model System Study. HSR&D Center of Innovation on Disability and Rehabilitation Research (CINDRR), James A. Haley Veterans’ Hospital, Tampa, FL, June 26, 2018.


- 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.

Identifying APOE related lipid biomarkers for diagnosing chronic neurocognitive deficits in TBI patients. PIs: Drs. Laila Abdullah, Fiona Crawford. Collaborators: Drs. Risa Richardson, Marc Silva. VA RR&D; I01RX002767 2019-2024.

**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.

**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.

**NIDILRR:**
Characterization and Treatment of Chronic pain after Moderate to Severe Traumatic Brain Injury. PIs: Cindy Harrison-Felix, PhD, Jeanne Hoffman, PhD (University of Washington TBIMS), Kimberley Monden, PhD. Co-Investigators: Risa Richardson, Jolie Haun (Tampa VA); Flora Hammond (Indiana TBIMS); Bill Walker (VCU TBIMS); Tamara Bushnik (Rusk TBIMS); Simon Driver (North Texas TBIMS); Ross Zafonte (Spaulding TBIMS); Tom Bergquist (Mayo TBIMS); Robin Hanks (Southeastern Michigan TBIMS).

**Submitted:**

**NIH:**
Natural History of Sleep Apnea Following TBI. PIs: Kathleen Bell, MD & Risa Nakase-Richardson, PhD. (R01)

Long-term safety of low-risk alcohol use following rehabilitation for traumatic brain injury. 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. (R01).

Even super heroes need sleep: characteristics and impact of sleep in caregivers of persons with traumatic brain injury. PI: Noelle Carlozzi, Ph.D. Co-Investigators: Risa Nakase-Richardson, Ph.D., Heather Belanger, Ph.D., Jill Massengale, D.N.P. (R01)

**NIDILRR:**
Even super heroes need sleep: characteristics and impact of sleep in caregivers of persons with traumatic brain injury. PI: Noelle Carlozzi, PhD. Co-Investigators: Risa Nakase-Richardson, PhD, Heather Belanger, PhD, Jill Massengale, DNP. NIDILRR. Submitting April 2019.

**VA HSR&D:**
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].

Improving Sleep Apnea Treatment Adherence after Brain Injury: A Feasibility Study. PI: Marc Silva, Ph.D., Co-I: need. VA Rehabilitation Research and Development SPiRE.

*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]