



the Performance Lab

EXPERT WITNESS/CONSULTATION

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Marissa McCarthy, M.D.

Curriculum Vitae

Citizenship

USA

Education

Helms Medical Institute Chinese Scalp and Traditional Acupuncture	2011-2012
University of Miami Miller School of Medicine, MD, Honors Program in Medical Education	2000-2004
University of Miami Biology BS, Chemistry & Spanish Magna Cum Laude	1998-2001

Postgraduate Training

Board Certification in Physical Medicine and Rehabilitation with subspecialty certification in Brain Injury Medicine and Licensed in the State of Florida (ME 100863)	2009-Present 2014-Present
Physical Medicine and Rehabilitation, Baylor College of Medicine, Houston TX	2005-2008
Internal Medicine Internship New York Medical College St Vincent Catholic Medical Center Staten Island NY	2004-2005

Awards, Honors, Honorary Society Memberships

Nominee Board of Directors American Board of Physical Medicine and Rehabilitation	2022 & 2024
Nominee Program Director of the year USF PMR	2020-2024
Nominee David M Worthen award James A Haley VA	2023
Founders Award Southern Sleep Society Medicine	2015
Physical Medicine and Rehabilitation Research Award	2004
Bowman Ashe Scholarship	1998-2000

Appointments/Work Experience

The Performance Lab, Executive Director of Brain Health	2025-Present
RED Medical Legal LLC, Tampa, FL	2023-June 2025
Medical legal consultant. Medical interests include traumatic brain injury, spinal cord injury and multiple catastrophic injuries. Practice Highlights for 2024 include:	
<ul style="list-style-type: none">• Direct Patient Care: 60%• Teaching: 20%• Medico Legal: 20%	
Merz Therapeutics – advisory board	2023-Present
Physical Medicine and Rehabilitation Residency Program Director	2017-Present
University of South Florida	
Associate Professor University of South Florida Department of Neurology	2016-Present
Medical Director Vocational Rehabilitation James A Haley VA	2016-Present
Ipsen Biopharmaceuticals – speaker, faculty	2014-Present
Diplomate American Board of Physical Medicine and Rehabilitation	2009-Present
Allergan Neurosciences, a division of AbbVie – speaker, faculty, advisory panel	2009-Present
Site Director Physical Medicine and Rehabilitation Residency Program	2008-Present
James A Haley VA	
Associate Program Director Physical Medicine and Rehabilitation	2012-2017
Residency Program University of South Florida	
Assistant Professor University of South Florida Department of Neurology	2009-2016
Medical Director TBI Polytrauma James A Haley VA	2008-2016

Teaching Lecture

USF Medical School Student Interest Group- Acupuncture	2020-Present
Courses taught at USF within the department of Physical Medicine and Rehabilitation / James A Haley VA Hospital/Annual Resident Lecture Series Tampa FL	2009-Present
<ul style="list-style-type: none">• Neuromuscular Disorders• Cerebral Palsy• Concussion• Introduction to Traumatic Brain Injury• Neuropharmacology• Mild Traumatic Brain Injury• Brain Injury in the Elderly• Traumatic Brain injury – Medical complications• Spasticity	

- Spastic Hypertonia and Related Disorders
- Case of the Month – Hydrocephalus
- Post-traumatic Epilepsy
- PMR pearls
- Traction
- Massage
- Manipulation
- Modalities

Teaching, Supervisory

Clinical supervisory and training responsibilities for 12 Physical Medicine and Rehabilitation residents annually	2017-Present
Evaluate all faculty annually for PMR Residency Program	2017-Present
Medical Director for vocational rehabilitation at James a Haley VA supervising vocational rehabilitation specialists	2016-Present
Battlefield Acupuncture Trainer for James A Haley VA	2012-Present
Formal teaching of peers at James A Haley VA	2009-Present

Lectures by Invitation (international, national, regional, local)

National Polytrauma conference at JAHVA Spasticity and Battlefield Acupuncture	2024
IARP and IALCP Symposium National Life care plan conference - Concussion	2024
University of Louisville Grand Rounds - Acupuncture	2024
Spasticity and Battlefield acupuncture – Ukraine Delegates International	2023
USCENTCOM USF MCOM International Conference – Concussion	2023
Florida Society of PMR - Concussion	2022
Allergan Neurosciences Train the Trainer Upper and Lower Limb Spasticity Faculty Denver	2021
Association of Academic of Physiatrists, Symposium on Actigraphy and Sleep in TBI population Orlando Fl	2020
Allergan Neurosciences – Invited instructor to Allergan Training RITE Program Atlanta, GA	2019
Merz Regional Consultants Meeting Tampa, Florida - invited consultant, Advisory Board Meeting Chicago, Illinois	2019
USSOCOM Care Coalition Conference 2016 Conference Westin Harbor Island Hotel expert member of PTSD and TBI panel	2016

Speaker Education Coordinator Retreat University of South Florida Tampa FL	2016
Allergan Neurosciences Paralyzed Veterans of America (PVA) meeting, “Upper Limb Spasticity” Orlando, Florida	2013
Blast Injury National Conference 2012 Medical Co-morbidities in Patients with moderate to severe head injury, Tampa FL	2012
Allergan Neurosciences –BOTOX® (onabotulinumtoxinA) for Upper Limb Spasticity Patients Speaker Training Meeting., Invited Faculty Atlanta,GA	2012
3rd Annual TBI Interagency Conference 2011 Acute rehabilitation of persons with disorders of consciousness: Outcomes from three multi- center studies Washington DC	2011
Polytrauma System of Care Conference 2011 Rehabilitating Combat Related Polytrauma in 2011: New Injuries, New Paradigms, San Antonio Symposium presented at the American Congress of Rehabilitation Medicine Annual Meeting, Atlanta, GA. Nakase-Richardson, R. (Organizer), Horn, LJ, Greenwald, B, Himmler, M, McCarthy, M , Hammond, F, Yablon, SA. (2011, Oct). Part 2: Medical and behavioral complexity of persons with DOC.	2011
Kretzmer, TS, Daniels, BJ, Gootam, PK, McCarthy, M , Merritt, B, Anderson, WM., Nakase-Richardson, R. Concordance of actigraphy with overnight polysomnography: a pilot study. American Congress of Rehabilitation Medicine Annual Meeting 2011.	2011
Daniels, B, Nakase-Richardson, R, Kretzmer, T, Gootam, P, McCarthy, M , Anderson, WM, Zeitzer, J. Do epoch and sensitivity settings alter polysomnography and actigraphy agreement among medically complex TBI patients accepted to American Congress of Rehabilitation Medicine Annual Meeting 2011	2011
American Academy of Physical Medicine and Rehabilitation Annual Conference Best Practices in Traumatic Brain Injury/Polytrauma Rehabilitation Orlando, FL	2011
Allergan Neurosciences – Invited instructor to Allergan Training RITE Program Tampa FL	2010
American Congress of Rehabilitation Medicine 2010 Acute rehabilitation of persons with disorders of consciousness: Outcomes from three multi-center studies Montreal Canada	2010
American Academy of Physiatry National Conference 2010 Blast Injury – Mild TBI Bonita Springs Florida	2010
Blast Injury National Conference 2010 Emerging Consciousness Program Tampa, Florida	2010
Neurology Grand Round Introduction to TBI USF	2010

Abstracts, Publications, and Poster Presentations

- **Spacing Protocol for Intradermal Chemodenervation with Botulinum Toxin A for Residual Limb Hyperhidrosis**
Matthew Wilhelm, DO; McCarthy, M.
Annual Meeting, American Academy of Physiatry, 2023
- **Subcutaneous Chemodenervation with Botulinum Toxin A for Amputees with Residual Limb Hyperhidrosis**
Matthew Wilhelm, DO; McCarthy, M.
National Conference, American Osteopathic College of Physical Medicine and Rehabilitation, 2022
- **A Case of Psychogenic Non-Epileptic Seizure Activity After Interventional Cervical Pain Procedure**
Yankowski, K; McCarthy, M; Padalia, D
Association of Academic Physiatrists, Orlando, FL; Florida Society of PM&R, Ft. Lauderdale, FL, 2020
- **Chemodenervation of Eccrine Glands for Hyperhidrosis in Amputees**
Yankowski, K; Mortazavi, E; McCarthy, M
Association of Academic Physiatrists, Puerto Rico; American Academy of Orthotists and Prosthetists, Orlando, FL; AAPM&R, San Antonio, TX, 2019
- **Rehospitalization in the First Year Following Veteran and Service Member TBI: A VA TBI Model Systems Study**
Tran, J; McCarthy, M (PI); Richardson, R (PI)
VA Research Day, James A. Haley VA, Tampa, FL, 2018
- **The Validity of Actigraphy as a Sleep Correlate in the TBI Population**
Kamper, J; Nakase-Richardson, R; Schwartz, D; McCarthy, M; et al.
International Neuropsychological Society Annual Conference, Denver, CO, 2017
- **Chemodenervation of Eccrine Glands for Hyperhidrosis in Amputees**
Yankowski, K; Mortazavi, E; McCarthy, M
VA Research Day, James A. Haley VA, Tampa, FL, 2016
- **Acupuncture for Phantom Limb Pain**
Vassaur, M; Santos, J; McCarthy, M
VA Research Day, James A. Haley VA, Tampa, FL, 2016
- **Incidence of Sleep Apnea in TBI Admissions at a VA Polytrauma Center**
Holcomb, E; Schwartz, D; McCarthy, M; et al.
Associated Professional Sleep Societies Annual Meeting, Seattle, WA, 2016
- **Cognitive and Physical Recovery Post Severe Anoxic Brain Injury**
Reeves, C; McCarthy, M; Humayun, F
Association of Academic Physiatrists Annual Meeting, 2015
- **Concordance Between Actigraphy and Polysomnography in TBI Patients**
Bentley, J; Nakase-Richardson, R; McCarthy, M; Anderson, W
Rehabilitation Psychology Annual Conference, 2015
- **Brain Injury Co-morbidities: Focus on Intracranial Infection**
McCarthy, M; Massengale, J
DVBIC TBI Symposium, Tampa, FL, 2012
- **Recovery After Cranioplasty in Syndrome of the Trephined**

Kent, R; McCarthy, M; Nakase-Richardson, R; et al.

American Congress of Rehabilitation Medicine Annual Meeting, 2011

- **Prevalence of Intracranial Infection in VHA Patients with Disorders of Consciousness**

Massengale, J; Tran, J; Schwartz, T; McCarthy, M; et al.

Federal Interagency Conference on TBI, Washington, DC, 2011

- **Concordance of Actigraphy and Polysomnography Metrics in TBI Patients**

Gootam, P; Kretzmer, T; Daniels, B; McCarthy, M; et al.

Annual Academy of Sleep Medicine Meeting, 2011

- **CT-Guided Injection of the Iliopsoas Muscle for Spastic Hypertonia**

Manzi, S; McCarthy, M; Francisco, G

AAPM&R Annual Meeting, November 2008

Clinical Activities or Innovations (specialty certification, professional licenses, practice activities, clinical innovations, technical and other scientific innovations)

Acupuncture Clinic Dept of Neurology	2019-2024
TBI Clinic Dept of Neurology	2019-2024
University of South Florida Concussion Center	2019-2024
Dept of Orthopedics and Sports Medicine	
AAP- National Program Director committee	2017-2024
National Acupuncture SOP task force member – Veterans Affairs	2022-2023
Root Cause Analysis (RCA) member	2018-2019
National Fertility Task Force member – Veterans Affairs	2021
National Wheelchair Adaptive Tai Chi Instructor	2018
National Certified Yoga Instructor	2017
National Certified Battlefield Acupuncture Instructor – Veterans Affairs	2016
Established 1st Spasticity Clinic James A Haley VA	2015

Published Bibliography (Peer-reviewed-list from earliest to most recent; letter to editor/replies)

Peer-reviewed (list from earliest to most recent; letter to editor/replies)

- M.L. Sipski; MD; C. Alexander; PhD; O. Gomez-Marin; MSc; PhD; 2005
M. Grossbard; BS; R. Rosen; PhD. Effects of Vibratory Stimulation on Sexual Response in Women with Spinal Cord Injury Journal of Rehabilitation Research and Development. September/October 2005; Volume 42, Number 5 Pages 609-616.
- McCarthy M.**, Manzi S, Rintala DH, Francisco GE, Chiou Tan F: 2008
 Poster Board 139: Safety of Botulinum Toxin Type A Dosing in Patients with Spinal Cord Injury or Stroke. Erratum: Am J Phys Med Rehabil 2008; 87:45
- McCarthy M.**, Manzi S, Nouri K: Poster Board 352: Bariatrics and the Role of the Rehabilitation Specialist – Opportunity or Duty? Am J Phys Med Rehabil 2008; 87(suppl): S53 2008
- Nakase-Richardson, R, Giacino JT, Whyte J, Pavawalla, S, Barnett, S, Yablon, SA, **McCarthy, M.**, Tran, J., Sherer, M, Kalmar, K, Hammond, B, Greenwald, B, Horn, L, Carlisle, M, Seel, R, Walker, 2009
 W. Prospective characterization of the natural history of recovery from severe TBI. Journal of the International Neuropsychological Society, 17(S1), 230
- Tracy S. Kretzmer, Risa Nakase-Richardson, Praveen K. Gootam, **McCarthy M.**, Bryan Merritt, William M. Anderson. Poster 125 Sleep Diagnoses among A TBI Cohort Referred for Polysomnography During Inpatient Rehabilitation. Archives of Physical Medicine and Rehabilitation 1 October 2011 (volume 92 issue 10 Pages 1727-1728 DOI: 10.1016/j.apmr.2011.07.151) 2011
- Kent, Robert, Risa Richardson, **McCarthy M.**, David Cifu, Alfred Frontera, and Jill Massengale. "Use of Hyperbaric Oxygen Treatment in Chronic Severe Traumatic Brain Injury." Physical Medicine and Rehabilitation 3.10 (2011): 178-179. 2011
- Kent R, **McCarthy M.**, Nakase-Richardson R, Massengale J, Cifu D, Frontera A: Case study of five patients with severe TBI that underwent Hyperbaric Oxygen Treatment. Arch Phys Med Rehabil 2011;92(10):1726) 2011
- Kent R., **McCarthy, M. R.**, & Scott, S. (2012). Poster 47 An Athlete with a Right Subdural Hematoma with Ipsilateral Hemiparesis Secondary to Kernohan's Notch Phenomenon: A Case Report. PM&R, 4(10), S205. 2012
- Silva, M.A., Nakase-Richardson, R., Critchfield, E., Kieffer, K, & **McCarthy, M.** Syndrome of Trephine Presentation in a Minimally Responsive Patient: In search of Measures Sensitive to Neurologic Decline. Poster presentation at the 2012 National Academy of Neuropsychology Annual Conference. Arch Clin Neuropsychology 2012 Sep;27(6): 628. 2012

- Nakase-Richardson R, McNamee S, Howe LLS, Massengale J, Peterson M, Barnett SD, Harris O, **McCarthy M.**, Tran J, Scott S, Cifu DX. Descriptive characteristics and rehabilitation outcomes in active duty military personnel and veterans with disorders of consciousness with combat and non-combat-related brain injury. Arch of Phys Med Rehab. 2013; 94(10): 1861-1869 2013
- Holcomb EM, Schwartz DJ, **McCarthy M.**, Thomas B, Barnett SD, Nakase-Richardson R. Incidence, characterization, and predictors of sleep apnea in consecutive brain injury rehabilitation admissions. J Head Trauma Rehabil. 2016; 31(2): 82-100. doi: 10.1097/HTR.0000000000000230 PMID: 26959663 2016
- Tran J, Hammond F, Dams-O'Connor K, Tang X, Eapen B, **McCarthy M.**, Nakase-Richardson R. Rehospitization in the First Year following Veteran and Service Member TBI: A VA TBI Model Systems Study. Journal of Head Trauma and Rehabilitation July/Aug 2017 2017
- Books, Textbooks, Chapters** (list from earliest to most recent)
- Marissa McCarthy MD**, Essentials of Physical Medicine and Rehabilitation, 3rd edition, Chapter 145 Polytrauma Rehabilitation, 2014 pages 769-774. 2014
- Marissa McCarthy MD**, Essentials of Physical Medicine and Rehabilitation, 3rd edition, Chapter 113 Temporomandibular Joint Dysfunction, 2014, pages 567-571. 2014
- Marissa McCarthy MD**, Feliu A, Nakase-Richardson R. Polytrauma System of Care. Encyclopedia of Clinical Neuropsychology; Springer. 2017 https://doi.org/10.1007/978-3-319-56782-2_9237-1 2017
- Marissa McCarthy MD**, Principles of Rehabilitation Medicine. Chapter 90: Rehabilitation of the Polytrauma Patient, 2019. 2019
- Marissa McCarthy MD** – “Upper Limb Spasticity with Botulinum Neurotoxin” in the Handbook of Spasticity: A Practical Approach to Management – Editors Dr. Ketchum and Dr. Gutierrez 2023
- Marissa McCarthy MD**, Prosthetics and Orthotics for Physical Therapists. Chapter 12: Overview of Pathologies for which Orthoses are Commonly Recommended, 2025. 2025

Other Research and Creative Achievements

Direction: CLIN-52120-452- International Study (enrollment ended September 2024) A Multicentre, Interventional, Post-marketing, Randomised, Double-blind, Crossover Study to Evaluate the Clinical Safety and Efficacy of AbobotulinumtoxinA (Dysport®) in Comparison with OnabotulinumtoxinA (Botox®) When Treating Adults With Upper Limb Spasticity. This study is aiming to demonstrate the non-inferiority of AbobotulinumtoxinA (aboBoNT-A) versus OnabotulinumtoxinA (onaBoNT-A) as the primary safety endpoint, and the superiority of aboBoNT-A over onaBoNT-A with respect to duration of response as the key secondary efficacy endpoint when used at optimal doses according to approved prescribing information of each product. Role – PI

James A Haley TBI Model System Program of Research IRB PR 00000094 | 2009 – present, role co – PI

The Veterans Affairs Central Office has developed an inter-agency agreement with the U.S. Department of Education's National Institute on Disability and Rehabilitation and Research (NIDRR) TBI Model System Program to manage a database of variables associated with injury severity and outcomes associated with the longitudinal recovery course associated with TBI for persons admitted to a polytrauma rehabilitation center (PRC) in the VA health care system. The VA Central Office has indicated that the primary purpose of this data will be used to gauge performance of VA PRC inpatient rehabilitation programs relative to the private sector TBI inpatient rehabilitation programs part of the TBI Model Systems Programs. Knowledge gained from systematic comparison of VA TBI Model System programs with private sector TBI Model System programs will help develop benchmarks for program improvement within the VA PRC health care system. Finally, data collected will be used to supplement investigator-initiated studies of TBI within the VA PRC health care system. This study has generated over 120 articles to date.

Service (university, hospital/profession, scientific meetings, community service, society memberships, professional or scientific, international, national, regional, local, editorial positions)

American Board of Physical Medicine and Rehabilitation

Invited Part II Oral Board Examiner	2015-Present
Invited Written Examiner, Brain Injury Medicine	2015-Present
Board of Directors Mac Parkman Foundation – National non-profit	2024
National American Board of Physical Medicine and Rehabilitation, MN	2015-2024
Participant, Pilot Program for Longitudinal Assessments	2019
Invited Standard Setting ABPMR Part I Examination	2018
Invited Clone Question Writer	2017
Invited Cert Link Item Writer	2016

University of South Florida Medical Graduate Education, Tampa, FL

Special Review Committee	2018-Present
Graduation Committee	2012-Present
Graduate Medical Education Committee	2008-Present

SOF Missions, Tampa, FL – National non-profit	2019-2022
Medical Director for a non-profit 501c3 non-profit organization supporting brain health and suicide prevention; responsibilities include monthly clinics and coordinated care	
Academy at the Lakes, Land O’Lakes, FL	2012-Present
Annual guest lecture on Brain Injury Awareness	
Glazer Children’s Museum, Tampa, FL	2019
Host committee member, Glazer Children’s Museum Gala	
National Organizations and Committees	
ACRM Brain Injury I-SIG Disorder of Consciousness Task Force	2009-2024
American Academy of Phys. Med. Rehab. Member	2018-2019
American Congress of Rehabilitation Medicine NIDRR and VA TBI	2008-2009
Model System Disorder of Consciousness Special Interest Group and Association of Academic Physiatrists Member	2005-2008
Department of Neurology, University of South Florida, Tampa, FL (summary of key contributions)	
Annual Program Evaluation for ACGME PMR Residency	2016-Present
Lead Clinical Competency Committee (CCC) for resident advancement	2012-Present
Physical Medicine and Rehabilitation Milestone Project	2009-Present
TBI rotation curriculum update annually with goals and objectives	2009-Present
Supervise brain injury didactic series update annually	2009-Present
Journal Club/Case of the Month	2009-Present
Interview all PMR candidates	2008-Present
OSCE to assess musculoskeletal knowledge and skills 2012- 2016 (organizer and examiner)	2012-2016
ACGME PIF preparation	2010-2014
Mock oral examinations	2009-2014
Teaching the Teacher to Teach Course at USF	2012
TBI fellowship curriculum development	2009