Ovuokerie Addoh, MBBS, PhD is an assistant professor at the University of Washington. He is interested in assessing evidence-based methods for optimizing the connectivity between clinical and community-based support systems for physical activity following acute stroke rehabilitation.

Adenike Adewuyi MD, PhD is a Fellow in Neuromuscular medicine at the McGaw Medical Center of Northwestern University in the Departments of Neurology and Physical Medicine and Rehabilitation. Her research and clinical skills focus on neuromuscular disorders, neurophysiology, bioelectric signal processing, machine learning and motor unit analysis.

Hans Anderson MD, PhD is a PGY3 Resident at the Medical College of Wisconsin Affiliated Hospitals, Milwaukee, WI in Physical Medicine & Rehabilitation. His research interests are centered on the application of engineering and technology to improving and understanding rehabilitation, neuroprostheses, neural regeneration, viral vectors, and optogenetics.
Ayce Atalay, MD is a PGY4 Resident in the Department of Physical Medicine and Rehabilitation Medicine, Albert Einstein University, Montefiore Medical Center, New York. Her primary research interests include various aspects of geriatric rehabilitation including predictors of mobility, falls, sarcopenia, polypharmacy, hip fractures, and osteoporosis. Dr. Atalay’s previous published studies also included neurologic rehabilitation with a special emphasis on prognostic factors in the outcome of stroke patients.

David Balsar, MD is an Assistant Professor and Rehabilitation Physician at the University of Minnesota. He is subspecialized in Spinal Cord Injury medicine and has an outpatient clinical practice and dedicated research time linked to the Minnesota Regional Spinal Cord Injury Model System. He is currently engaged in collaborative research using a standardized rehabilitation program to augment functional recovery after epidural stimulation implantation in chronic spinal cord injury. His scientific domain is rehabilitation mechanisms to increase neuroplasticity early in spinal cord injury in tandem with all types of functional neuromodulation. He is also interested in applied machine learning for spinal cord injury prognosis and precision clinical care.

Rajit Banerjee, MD is a PGY2 in the Department of Physical Medicine & Rehabilitation at the University of Pittsburgh Medical Center (UPMC). His research interests focuses on applying engineering into sports medicine rehabilitation, particularly in adaptive sports, through musculoskeletal injury biomechanics and diagnostic musculoskeletal ultrasound.
Heather M. Barnett, MD, PhD is an acting Assistant Professor in the Department of Rehabilitation Medicine at the University of Washington. Her research interests include health equity in rehabilitation care and rehabilitation after firearm-related trauma.

Allison Bean, MD is an Assistant Professor at the University of Pittsburgh Medical Center. She is currently funded by the University of Pittsburgh Clinical and Translational Sciences KL2 program. Her mentors are Drs. Gwen Sowa and Nam Vo. Dr. Bean’s research interests are focused on understanding the cellular mechanisms driving tissue degeneration and applying novel regenerative rehabilitation therapeutics in musculoskeletal aging and disease.

Alexandra Beling, MD is a PGY4 Resident at Spaulding Rehabilitation Hospital. Her research interest is in metabolic bone health and rehabilitation outcomes.
**RMSTP Participants**

**Alex Brahmsteadt, DO** is currently a PGY4 in Physical Medicine & Rehabilitation at the University of Michigan, and will start his two-year fellowship in Neurocritical Care at the University of Washington in July, 2024. His research focuses on the traumatic brain and spinal cord injury patient populations, including the development of an early mobilization program for ventilated critically ill patients as well as the creation of a machine-learning algorithm trained to predict re-hospitalization and mortality in the spinal cord injury patient population.

**Roshawn Brown, MD** is a PGY2 Resident at the University of Pittsburgh Medical Center, Pittsburgh, PA. His research and clinical skills focus on Sports related rehabilitation and Regenerative medicine with a specific focus on tendon regeneration.

**Ryan Castoro, DO** is an Assistant Professor in the Department of Neurology at Wayne State University School of Medicine in Detroit, MI. His lab focuses on understanding peripheral neuron degeneration through bioimaging and mapping of the epigenome in motor neurons.
Audrie Chavez, MD is an assistant professor in the department of Physical Medicine and Rehabilitation at the University of Texas Health Science Center in San Antonio. Her research focuses on neurorehabilitation, health care disparities, and traumatic brain injury.

Michael Chiang, MD, PhD is a PGY3 at Spaulding Rehabilitation Hospital of Harvard University in the Department of Physical Medicine and Rehabilitation. His research focuses on understanding the neurobiological underpinnings of pain and improving patient outcomes in a variety of chronic pain conditions.

Harman Chopra, MD is a PGY2 Resident at Johns Hopkins University School of Medicine. His research interests include interventional pain and innovative technologies with a focus on the bioavailability and kinetics of therapeutic cannabis.
Kuntal Chowdhary, MD is currently a Sports Medicine Fellow at NewYork-Presbyterian: Columbia-Cornell. Her long-term clinical and research interests are in translational sports medicine focused on the development of precision medicine therapeutics and technological solutions.

Amber N. Clark, MD is a board-certified Physiatrist and Medical Officer at the Alabama Department of Public Health. Her research interests include the intersection of disability and minority status in the stroke population, health outcomes and health policy.

R. James Cotton, MD, PhD is an Assistant Professor of PM&R at Northwestern University / Shirley Ryan Ability Lab. His research involves wearable sensors and machine learning to develop novel therapeutic approaches for rehabilitation.
Ella D'Amico, MD is a PGY4 Resident at the University of Pittsburgh Medical Center in the Department of Physical Medicine and Rehabilitation. She has an interest in regenerative rehabilitation and exercise as medicine. She is currently working on translational studies to define the mechanism of the multisystemic benefits of exercise in aged individuals, specifically the prevention of knee osteoarthritis.

Daniel Daneshvar, MD, PhD is an Assistant Professor at Harvard Medical School. His research interests are concussion, chronic traumatic encephalopathy, traumatic brain injury and amyotrophic lateral sclerosis.

Sandra de Mel, MD is a PGY3 in Physical Medicine and Rehabilitation at the University of Miami/Jackson Health System residency program. Her current research interests include regenerative medicine, adaptive sports and functionality, and injury prevention in young athletes.
James Devanney, DO is a first-year neurocritical care fellow at Beth Israel Deaconess Medical Center - Harvard University. He is the second PM&R resident to match in neurocritical care and his primary research interests are ICU mobility and the ICU liberation bundle. Additional research interests are muscle physiology during critical illness, physiologic effects of bedrest, nutrition in critical illness, and ICU-acquired weakness/neuropathy/myopathy.

Dmitry Esterov, DO is an Attending Physiatrist and Assistant Professor on staff at Mayo Clinic in Rochester, Minnesota. His research interests include community based, pragmatic clinical trials as well as epidemiological research including understanding risk factors for post traumatic epilepsy and long term cognitive/psychiatric sequelae after pediatric TBI.

Megan Gillum, MD is a PGY2 in the PM&R Department at the University of Washington. Her research interests are in aging with spinal cord injury, autonomic dysfunction in spinal cord injury, and diagnosis and management of medical conditions in patients with spinal cord injury.
Prateek Grover, MD, PhD, MHA is an Associate Professor of Physical Medicine and Rehabilitation and Co-director of Health Systems Science for Graduate Medical Education at Penn State College of Medicine, PM&R Vice Chair of Quality and Safety and Director of Resident Research at Penn State Health, and Affiliate Associate Professor in the Department of Biomedical Engineering at Penn State University. His research interests lie in rehabilitation systems science focusing on limb loss and preservation rehabilitation continuum implementation, quality improvement curriculum development, and prosthetic gait analysis and training protocols using portable biomechanical analysis techniques.

Kristen Harris, MD is a first-year faculty member at Hackensack Meridian Health/JFK Johnson Rehabilitation Institute. She completed her residency in Physical Medicine and Rehabilitation at the University of Pittsburgh Medical Center and her fellowship in Brain Injury Medicine at JFK Johnson Rehabilitation Institute. Her research interests include neuropharmacological management of patients with acquired brain injury in the subacute and chronic phases of their injury.

Geoffrey Henderson, MD is a Spinal Cord Injury Medicine Attending at the VA in Syracuse, New York. His research interest focuses on behavioral and dietary interventions to mitigate obesity in Veterans with spinal cord injury. He is currently studying the feasibility of time restricted eating to promote weight loss in this population.
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Justin Huber, MD, MS is an Assistant Professor at the University of Kentucky and attending physician at Cardinal Hill Rehabilitation Hospital. He is currently funded by the University of Kentucky Center for Clinical and Translational Science through a KL2 award to develop and to perform pilot validation of a computer vision approach to kinematic assessment of the post-stroke upper extremity. His research focuses on improving upper extremity outcomes and quality of life for individuals impacted by stroke through user-centered development of assessment, assistive, and rehabilitation technologies.

Chelsie Jacques, MD, is a PGY2 Resident at the University of Rochester in Rochester, New York. Her research interests include rehabilitative interventions used to address spinal and musculoskeletal pathologies in differing patient populations.

Shawn Joshi, MD, PhD is a PGY1 at Mount Auburn Hospital, and is joining the Harvard Medical School/Spaulding Rehabilitation Hospital Residency Program in Physical Medicine and Rehabilitation. His research focusses on portable neuroimaging, assistive device design, human factors research and design, multi-modal objective assessments of therapeutics for a variety of disabilities. He aims to apply this research in aerospace medicine with the focus on determining countermeasures to the rigors of spaceflight and improve the rehabilitation of future astronauts, as well as translate these discoveries back to Earth for the benefit of patients and individuals with disabilities.
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**Michael Juszczak, MD** is a PGY2 resident at Tower Health's Reading Rehabilitation Hospital. His research interests include endocrine and dysfunction following SCI, neurogenic obesity, and better understanding the role of exoskeletons in the care of those with chronic SCI.

**Nicole B. Katz, MD** is a PGY3 and Academic Chief Resident at Spaulding Rehabilitation Hospital/Harvard Medical School in Boston, Massachusetts. Her research interests include gender equity in medicine as well as the intersection of musculoskeletal health and reproductive endocrinology with a specific focus on the Female Athlete Triad.

**Emily Kivlehan, MD** is an Assistant Professor of PM&R at the Shirley Ryan Abilitylab / Northwestern University Feinberg School of Medicine. Her research and clinical skills focus on early detection and intervention of cerebral palsy and acquired brain injuries in the pediatric population.
Randy Michael Lazaro, MD is an Assistant Professor at the University of Rochester. His research interests include epidemiologic and biomechanical study of risk factors and treatment outcomes for lower extremity overuse injuries.

Christopher Lewis, MD is the Academic Chief Resident (PGY4) at the McGaw Medical Center of Northwestern University / Shirley Ryan AbilityLab and incoming Clinical Informatics Fellow at the University of Washington. His research during residency includes retrospective cohort analyses of patients who receive cancer rehabilitation and post-COVID-19 rehabilitation. He is interested in the scientific domain of clinical informatics and leveraging patient and hospital data to develop evidence-based clinical decision support tools to be used in the rehabilitation setting.

Joshua Lewis, MD, PhD is a PGY3 Resident at the Montefiore Medical Center/Albert Einstein University, Bronx, NY. His research focus is on epigenetic mechanisms involved in various pain pathologies and their possible application to both current and emerging therapies.
Gerard Limerick, MD, PhD is an Assistant Professor in the Department of Physical Medicine and Rehabilitation at Johns Hopkins University School of Medicine. His research interests lie in the area of studying and developing targets for the treatment of neuropathic pain.

Brendan McNeish, MD is a Physiatrist specializing in Physical Medicine and Rehabilitation and Neuromuscular Medicine. He is an Assistant Professor at the University of Pittsburgh School of Medicine and is a funded Pepper Scholar from the Pittsburgh Pepper Center. His research interests are in the underlying causes of mobility disability in aging adults and cancer survivors. Specifically, he is interested in investigating how neuromuscular and cognitive capacities change with aging and cancer and how they are associated with changes in balance, gait, falls, and quality of life.

Michael Nguyen, MD is an assistant professor in the Department of Physical Medicine and Rehabilitation at UTHealth Houston, and attending physician at TIRR Memorial Hermann. His research focuses on non-pharmaceutical pain management, patient reported outcomes, and long-term outcomes of individuals with traumatic and non-traumatic brain injuries.
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Andrew Park, MD is a SCI Physician and Researcher at Craig Hospital and University of Colorado Department of PM&R. His research interest is on biomarkers of vascular dysfunction after SCI with a focus on immunologic changes and extracellular vesicles.

Benjamin Petrie, MD is a PGY4 PMR Resident at Northwestern University Mcgaw Medical Center (Shirley Ryan AbilityLab) in Chicago, Illinois. His research focuses on using big data analytics to solve clinically relevant questions and the intersection between technology and spinal cord injury medicine. He will be the 2023-2024 Spinal Cord Injury Medicine Fellow at Shirley Ryan AbilityLab this upcoming academic year.

Hoa Pham, MD, PhD, is a PGY2 PM&R resident at NYU Langone Rusk Rehabilitation. His clinical and research interests include neurorehabilitation, neurodegenerative disorders, and assistive technologies, with a current focus on visual impairment.
Shanti Pinto, MD is an Assistant Professor of the Department of Physical Medicine and Rehabilitation and O’Donnell Clinical Neuroscience Scholar at the University of Texas Southwestern Medical Center. She is the co-Project Director of the North Texas Traumatic Brain Injury Model Systems. She is currently funded through the NINDS to investigate how autonomic nervous system impacts cerebrovascular auto regulation and both cognitive and functional outcomes following moderate to severe traumatic brain injury.

Becca Potts, MD is a PGY2 in Physical Medicine and Rehabilitation at the University of Washington. Her research interests include biomaterials, adaptive gaming for use in neurorehabilitation, and rehabilitation engineering, specifically studying transcutaneous spinal cord stimulation to improve function after spinal cord injury.

Syed Qadri, MD is a PGY3 Resident at the Medstar Health/National Rehabilitation Hospital in Washington, DC. His research interests include neurorehabilitation with a particular focus on neuroplasticity and utilizing cutting-edge methods in biochemistry, electrophysiology, and imaging to explore and leverage this phenomenon for translational recovery.
Nicholas Race, MD, PhD is a PGY4 Resident at the University of Pittsburgh Medical Center. His current preclinical brain injury research aims to better understand, characterize, harness, and target multimodal rehabilitation and pharmacological treatment effects utilized in brain injury patients to improve executive dysfunctions including impairments in attention, cognitive flexibility, socioemotional processing, and safety learning. He will complete fellowship training in brain injury medicine and is building a translational precision neuropharmacology research program.

George Raum, DO is a PGY2 Resident at the University of Pittsburgh Medical Center (UPMC) in Pittsburgh, PA. He has clinical and research interests in the use of musculoskeletal ultrasound for diagnosis and surveillance of musculoskeletal injury, including overuse injuries and return-to-play protocols.

Ishan Roy, MD, PhD is an Assistant Professor and Physician Scientist at Northwestern University and Shirley Ryan Ability Lab. He has clinical and scientific interests in cancer rehabilitation, cancer metabolism & bioenergetics, and muscle wasting diseases. He is currently funded through a K08 award from the National Institute of Arthritis and Musculoskeletal and Skin Diseases at the NIH that is focused on muscle fibrosis in cachexia.
Michelle Seymour, MD, PhD, is a Pediatric Rehabilitation Medicine Fellow at Baylor College of Medicine and Texas Children's Hospital. Her research interests include receptive, expressive, and context-dependent language deficits in pediatric communication disorders; the impacts of dystonia and movement disorders on AAC use; improving functional communication through AAC partner/facilitator training; and functional outcomes following pediatric traumatic and acquired brain injury.

Jessica Sher, MD is a PGY3 Resident at the University of Washington in Seattle, WA. Her research interests include the role of wearable devices in the quantification of physical activity for use in exercise prescription.

Sarah Simmons, MD, PhD is an Assistant Professor at the University of Washington in the Department of Physical Medicine and Rehabilitation. Her clinical work focuses on neurorehabilitation of patients with multiple sclerosis (MS), with a research focus on the effects of exercise on symptom severity and underlying disease pathophysiology.
**Ryan Solinsky, MD** is a Spinal Cord Injury Physician-Scientist at Mayo Clinic. His scientific domain is quantification and manipulation of the autonomic nervous system to restore non-motor functions and maximize quality of life.

**Daniel Solomon, MD, MA** is a PGY4 Resident at Geisinger Health System. His research interests include overuse injuries in athletes, novel musculoskeletal and peripheral nerve imaging techniques and therapeutics, and the use of technology in physiatric education.

**Andrew Stephens, MD** is a PGY3 Resident at the University of Rochester Medical Center, Rochester, NY. His research interests include evaluating patient reported outcome metrics and improving the value of health care delivered by understanding costs of common musculoskeletal treatments and system processes.
Shannon Strader, DO is a PGY4 and the chief resident at the University of Louisville in the Department of Physical Medicine and Rehabilitation. She will be starting a Cell Therapy Fellowship at Mayo Clinic after completing residency. She is passionate about finding novel treatments for spasticity and related neuromuscular pathology as well as caring for patients with neurodevelopmental disabilities.

Sruthi Thomas, MD, PhD is an Assistant Professor at Baylor College of Medicine/Texas Children's Hospital in Pediatric Rehabilitation. Her research interest is hypertonia management in cerebral palsy. She is particularly interested in spasticity and dystonia management in the GMFCS IV-V population and understanding which patients would best benefit from neurosurgical interventions, including intrathecal baclofen, rhizotomy, and deep brain stimulation.

Gustaf Van Acker, MD, PhD is an Assistant Professor in Pain Management and Physical Medicine & Rehabilitation at MetroHealth Medical Center/Case Western Reserve University. His clinical and translational research focus is on spinal cord stimulation and other minimally-invasive neuromodulation modalities to treat pain.
Sarah Welch, DO, MA is an Instructor in the Vanderbilt Department of Physical Medicine and Rehabilitation and a second year VA Quality Scholar Fellow at the Nashville VA. Her research interests lie in geriatric rehabilitative care as it applies to acute care, post acute care, and transitions of care. She is passionate about delivering evidence-based practices to older adults and evaluating interventions to improve processes and patient outcomes.

Alice Ye, MD is a Post-Doctoral Research (’23-’24) and Interventional Pain (’24-’25) Fellow at MD Anderson Cancer Center, with clinical interests in optimizing the interdisciplinary rehabilitation of high-impact chronic pain. Her overall research goals are to develop clinical trial approaches for multicomponent pain interventions, based on our growing knowledge of multiple neurophysiologic pain pathways. Currently, she is studying functional recovery and nerve regeneration in patients with chemotherapy-induced peripheral neuropathy. She has additional interests in the ethics of chronic pain care and in particular, the potential impact of industry financial incentivization.

Bei Zhang, MD, MSc is an Assistant Professor of Physical Medicine and Rehabilitation at the Texas Tech University Health Sciences Center, Lubbock, TX. Her research and clinical interests focus on sequelae and recovery from various types of brain injuries, particularly disorders of consciousness, and neuromodulation.