

## Active Research Projects – May 2022

### TECHNOLOGY & DATA SCIENCE RESEARCH

**Project #674**

**LiveWell RERC R1. Discovery of User Needs and Preferences for Information and Communication Technologies: Priority Needs and Access Issues** (Mike Jones, PHD, John Morris, PHD)

**Project #678**

**LiveWell RERC: Tech Factory** (John Morris, PHD)

**Project #731**

**Usability Lab: Accessibility User Research Collective** (John Morris, PHD)  
**Sponsor: Microsoft Corporation**

**Project #791 – Exempt Research**

**Usability Testing** (John Morris, PHD)  
**Sponsor: Samsung**

**Project #803**

**Disability and Rehabilitation Research Project (DRRP): App Factory** (Michael Jones, PHD)

**Project #808 – Exempt Research**

**RERC on Mobile Rehabilitation: Clinician Perceptions on Use of Information and Communication Technologies to Support Home-Based Therapy and Exercise** (Mike Jones, PHD)

**Project #821 – Exempt Research**

**Ignite 360 Concept Value Testing** (John Morris, PHD)

**Project #822 – Exempt Research**

**Rehabilitation Engineering Research Center for Wireless Technologies: Augmented Reality for Design** (Young Mi Choi, PHD, Mike Jones, PhD)

**Project #828 – Exempt Research**

**Usability Lab: Technology Access Feedback for Intel** (John Morris, PHD)  
**Sponsor: Intel**

**Project #836**

**The Learning Health System: Applying Advanced Analytics to Rehabilitation Care - An Exploratory Study** (George Collier, PHD)

**Project #837**

**Measurement Outcome of Assistive Technology Satisfaction: A Validity and Feasibility Study** (Adina Bradshaw, M.S. CCC-SLP, APT, CPAC)

**Project #838**

**Use of 3D Printing as a Teaching Tool to Immerse Occupational Therapy Students in the Collaborative Assistive Technology Process**

(PI GSU: Su Jin Lee, Emily Buchman. PI Shepherd: Kristen Webber)

**Project #839 - Exempt Research**

**Inspired Insights: Accessibility Feedback (Usability)**

(John Morris, PHD)

**Project #845 - Exempt Research**

**LinkedIn Usability Feedback (John Morris, PHD)**

**Sponsor: LinkedIn**

**Project #884**

**User Testing of MagTrack Motion Tracking Inertial Measurement Electronics Controller**

(John Morris, PHD)

**Sponsor: Georgia Research Alliance**

**Project #886**

**UX Lab 3rd Party Market Research Vendors - Umbrella Protocol (John Morris, PHD)**

**Sponsor: Multiple**

**Number of Studies in Section: 16**

**MULTIPLE SCLEROSIS RESEARCH**

**Project #552**

**A Randomized, Double-Blind, Double-Dummy, Parallel-Group Study to Evaluate the Efficacy and Safety of Ocrelizumab in Comparison to Interferon Beta-1a (Rebif®) in Patients with Relapsing Multiple Sclerosis - Genentech current protocol WA21092 (OPERA) (Ben Thrower, MD)**

**Sponsor: Genentech, Inc.**

**Project #706**

**An Open-Label, Single-Arm Study to Evaluate the Effectiveness and Safety of Ocrelizumab in Patients with Early-Stage Relapsing Remitting Multiple Sclerosis (Protocol # MA30143) (Ben Thrower, MD)**

**Sponsor: F. Hoffman-La Roche LTD**

**Project #733**

**Validation of a Fall Prevention Program among Non-Ambulatory Wheeled Mobility Device Users with Multiple Sclerosis (Deborah Backus, PT, PHD)**

**Project #738**

**Comparative Effectiveness of an Exercise Intervention Delivered via Telerehabilitation and Conventional Mode of Delivery (Deborah Backus, PT, PHD)**

**Sponsor: PCORI**

**Project #776**

**Pilot Study Evaluating Functional and Wellness Outcomes of the Shepherd Can Do MS Program**

(Deborah Backus, PT, PHD)

**Sponsor: Genzyme Corporation**

**Project #781**

**Feasibility of the Multiple Sclerosis Performance Test for Assessment of Functional Performance Measures in Patients with Multiple Sclerosis** (Deborah Backus, PT, PHD)

**Sponsor: Biogen**

**Project #794**

**An Observational Study of Ocrelizumab -Treated Patients with Multiple Sclerosis to Determine the Incidence and Mortality Rates of Breast Cancer and All Malignancies** (Ben Thrower, MD)

**Sponsor: ROCHE**

**Project #801**

**Qualitative Evaluation of the STEP for MS Trial** (Deborah Backus, PT, PHD)

**Project #811**

**Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Trial of the Efficacy and Safety of Nabiximols Oromucosal Spray as Add-on Therapy in Patients with Spasticity Due to Multiple Sclerosis**

(Ben Thrower, MD)

**Sponsor: GW Pharma**

**Project #812**

**An Open-Label, Multicenter Study to Assess Disease Activity and Biomarkers of Neuronal Damage in Minority Patients with Relapsing Multiple Sclerosis Receiving Treatment with Ocrelizumab**

CHIMES (Ben Thrower, MD)

**Sponsor: Genentech, Inc.**

**Project #852**

**A Phase 1, Dose-Escalating, Open-label Study to Evaluate the Safety, Tolerability, and Exploratory Efficacy of Single Dose of IV IMS001 in Subjects with Multiple Sclerosis and Treatment Failure to Prior Disease Modifying Treatments (DMTs) - Protocol IMS001-01** (Ben Thrower, MD)

**Sponsor: ImStem Biotechnology**

**Project #853**

**Safety, Feasibility, and Usability of Tele-exercise with BurnAlong in Persons with Multiple Sclerosis: a Pilot Study** (Deborah Backus, PT, PHD)

**Project #872**

**CorEvitas SPHERES (Synergy of Prospective Health & Experimental Research for Emerging Solutions) Registry for Neuromyelitis Optica Spectrum Disorder (NMOSD)**

(Jacqueline Rosenthal, MD)

**Sponsor: CorEvitas**

**Project #875**

**Developing an Integrated Remote Monitoring System to Inform the Calibration of Rehabilitation and Exercise Interventions for People with Multiple Sclerosis (Brad Willingham, PHD)**

**Project #887**

**A Phase IIa, Open-label, Multicentre Dose-Finding Trial in Patients with Relapsing Forms of Multiple Sclerosis (RMS) to Evaluate the Safety, Tolerability and Preliminary Efficacy of EHP-101 (Jacqueline Rosenthal, MD)**

**Sponsor: Emerald Health Pharmaceuticals, Inc.**

**Project #888**

**A Therapeutic Experience Program (TEP) Study Assessing Adherence to On Label PoNS® Therapy for Improvement of Gait in People with Multiple Sclerosis (MS) in a Real-World Clinical Setting (Deborah Backus, PT, PHD)**

**Sponsor: Helius Medical Technologies**

**Number of Studies in Section: 16**

**[SPINAL CORD INJURY RESEARCH](#)**

**Project #446**

**A Phase 1 Safety Study of GRNOPCI in Patients with Neurologically Complete, Subacute, Spinal Cord Injury (David Apple, MD)**

**Project #453**

**Humanitarian Use Device – DPS (Brock Bowman, MD)**

**Project #614**

**Indego Generation Two Fit and Functionality (David Apple, MD)**

**Sponsor: Parker Hannifin**

**Project #640**

**A Long-Term Follow-up Study of Subjects with Cervical Spinal Cord Injuries Who Received AST-OPC1 in Protocol AST-OPC1-01 Asterias AST-OPC1-02 (Donald Leslie, MD)**

**Sponsor: Lineage Cell Therapeutics**

**Project #729**

**Improving Quality of Personal Care Assistance Services for People with SCI through Online Education (John Morris, PHD)**

**Project #760**

**Understanding, Predicting, and Preventing Life-Changing and Life -Threatening Health Changes among Aging Veterans and Civilians with Spinal Cord Injury (James Krause, MD)**

**Project #762**

**Random Noise Stimulation to Enhance Corticomotor Drive for Improved Hand Function**

**(Anastasia Zarkou, PT, PHD)**

**Project #779**

**A Multicenter, Two Part (Open-Label Single-Ascending Dose Followed by Double-Blind, Placebo- Controlled Repeat Dose) Study to Evaluate the Safety, Tolerability, Pharmacokinetics, and Efficacy of AXER-204 in Subjects with Chronic Spinal Cord Injury (the RESET\* Study)**

(Donald Peck Leslie, MD)

**Sponsor: ReNetX**

**Project #805**

**Tracking Activity to Improve the Prognosis of Mobility After Spinal Cord Injury**

(Edelle Field-Fote, PHD)

**Project #813**

**Antecedents, Consequences, and Interventions for Travel Participation after SCI**

(Edelle Field-Fote, PHD)

**Sponsor: Craig H Neilsen Foundation**

**Project #825**

**Clinical Assessment of Upper Extremity Performance in Individuals with Spinal Cord Injury Using the LIFT System to Deliver Non-Invasive Electrical Spinal Stimulation (ARC Therapy)**

(Edelle Field-Fote, PHD)

**Sponsor: ONWARD Medical, Inc.**

**Project #831**

**A Single Subject Case Study: Transcutaneous Electrical Spinal Cord Neuromodulation (TESCoN) to Improve Motor and Autonomic Functions Transformation of Paraplegic Paralysis to Overground Stepping in Humans (Shepherd PI: Michael Yochelson, MD, UCLA PI: V. Reggie Edgerton/Parag Gad)**

**Project #840 – Exempt Research**

**E-Scooter Safety Campaign Survey (Injury Prevention) (Emma Harrington)**

**Project #843**

**A Randomized, Double-Blind, Placebo-Controlled Proof of Concept Study to Assess the Safety and Efficacy of Elezanumab in Acute Traumatic Cervical Spinal Cord Injury (Michael Yochelson, MD)**

**Sponsor: Abbvie**

**Project #848**

**A Phase 2a, Randomized, Double-blind, Placebo-controlled Study to Assess the Efficacy and Safety of MT-3921 in Subjects with Acute Traumatic Cervical Spinal Cord Injury. Protocol #MT-3921-A01**

(Donald Peck Leslie, MD)

**Sponsor: Mitsubishi Tanabe**

**Project #849**

**Single-group Pretest-Posttest Study of "Shepherd's Get Your Verve Back" Virtual Wellness and Leisure Program (Jenny DiLaura)**

**Project #851**

**Neuromodulation of spinal circuits: effects on spasticity, nociception, and motor activation**

(Edelle Field-Fote, PHD)

**Project #856**

**SCI Model Systems of Care Data Collection and Transmission (Edelle Field-Fote, PHD)**

**Project #860**

**Descriptive analysis of total daily morphine milligram equivalents of discharge opioid prescriptions among inpatient rehabilitation patients with spinal cord injury treated with transdermal buprenorphine (Dina Nakhleh, Pharm.D., BCPS)**

**Project #864**

**Scale Up Trial of Project WOWii to Increase Exercise among People with Spinal Cord Injury (SCI) (Michael Jones, PHD)**

**Sponsor: NIDILRR**

**Project #865**

**The use of Interface Pressure Mapping in Cushion Prescription (Chris Mauer, PT, MPT)**

**Project #868**

**Systemic Hypothermia in Acute Cervical Spinal Cord Injury A Prospective, Multi-center Case Controlled Study (David Gimbel, MD)**

**Sponsor: DOD**

**Project #869**

**Retrospective analysis of the treatment of BPPV in persons with sub-acute spinal cord injury in an inpatient setting (Ryan Koter, DPT)**

**Project #876**

**Safety and performance assessment of the LIFT System when used to support home-based upper extremity training in individuals with spinal cord injury (DOC2530 - LIFT Home Study) (Edelle Field-Fote, PHD)**

**Sponsor: ONWARD Medical, Inc.**

**Project #877**

**SCIMS Site Specific Project: Activating Spinal Circuits to Improve Walking, Balance, Strength, and Reduce Spasticity (Edelle Field-Fote, PHD)**

**Sponsor: NIDILRR**

**Project #882**

**Indego Functional Electrical Stimulation (FES) Software System Level Validation (Wesley Chay MD)**

**Sponsor: Parker Hannifin**

**Project #883**

**Evaluating the Effectiveness of Brain Health Training for Individuals with SCI/ TBI and their Family Members (Brick Johnstone, PHD)**

**Project #885**

**Keeping Adolescents and Young Adults Connected (KAYAC) Peer Support and Resource Program**  
(Tyler Brown, PsyD)

**Sponsor: Andee's Army Brain and Spinal Cord Foundation**

**Number of Studies in Section: 27**

**CONCUSSION, TRAUMATIC/ACQUIRED BRAIN INJURY RESEARCH**

**Project #695**

**Characterization of Post-Concussive Vestibular Impairment Brain Structural and Functional Connectivity Dysfunction and the Impact of Vestibular Rehabilitation** (Russell Gore, MD)

**Sponsor: Radiologic Society of North America (RSNA)**

**Project #773**

**Magnetic Resonance Spectroscopy Applications in Disorders of Consciousness (MRS for DoC)**

(Shepherd PI; Andrew Dennison, MD, Emory PI: Candace Fleischer, PHD)

**Project #782**

**Rehabilitation Pathways after Concussion: Understanding Management of Cognitive**

**Communication Complaints** (Tracey Wallace, CCC-SLP)

**Project #785**

**tDCS Paired with Exercise and Attention Training Compared with Exercise Alone with Attention Training for TBI** (April Hodge, PT)

**Project #786**

**SUCCESS: Success in College after Concussion with Effective Student Supports**

(Tracey Wallace, CCC-SLP)

**Project #790 – Exempt Research**

**Veteran Goal Directed Comprehensive Care Outcomes in Chronic Mild Traumatic Brain**

**Injury** (Tracey Wallace, CCC-SLP)

**Project #810**

**Rehabilitation Pathways after Concussion: A Retrospective Chart Review of Referral for Cognitive-**

**Communication Services** (Tracey Wallace, CCC-SLP)

**Project #818 – Exempt Research**

**Using a Marker-less Motion-Capture System to Assess Posture in Inpatient Rehabilitation with ABI Populations with Visual Impairments** (Taylor, Kelly, OTD, OTR/L)

**Project #826**

**Documenting the General Effectiveness of Recreational Therapy Services for Individuals with Acquired Brain Injury** (Brick Johnstone, PHD)

**Project #827**

**Shepherd Center Foundation to Advance Brain Rehabilitation Post-Acute Rehabilitation Outcome Study** (Brick Johnstone, PHD)

**Project #833**

**Improving Access to Comprehensive TBI Treatment for Military Veterans and Service Members with Co-occurring Substance Use (Russell Gore, MD)**

**Project #835**

**A Randomized Trial to Compare Effectiveness of Two Interventions for Caregivers of Patients with Acquired Brain Injury (Mike Jones, PHD)**

**Sponsor: NIDILRR**

**Project #841**

**Documenting the General Effectiveness of Chaplaincy Services for Individuals with Chronic Disabilities (Brick Johnstone, PHD)**

**Project #842**

**Evaluating the Effectiveness of a Least Restrictive Restraint Training Program for Individuals with ABI (Brick Johnstone, PHD)**

**Project #846**

**Drive Safe: Driving Safety in Adolescents and Young Adults after Concussion (Russell Gore, MD)**

**Sponsor: Andee's Army Brain and Spinal Cord Foundation**

**Project #857**

**Documenting Relationships Between Satisfaction with Telehealth Services and Rural/Urban Status for Individuals with Chronic Disabilities (Brick Johnstone, PHD)**

**Project #862**

**Altered Central Multisensory Processing in Post-concussion Vestibular Dysfunction**

(Russell Gore, MD)

**Sponsor: NIH**

**Project #873**

**The Application of BCVI Screening Criteria to Post-Acute Patients with Traumatic Brain Injury (Yevgenia Sergeyenko, MD, MPH)**

**Number of Studies in Section: 18**

**PAIN MANAGEMENT RESEARCH**

**Project #814 – Exempt Research**

**A Retrospective Chart Review to Describe the Clinical Experiences of Patients Receiving SPRINT Peripheral Nerve Stimulation Therapy for Chronic Pain**

(Erik Shaw, DO)

**Project #855**

**Radiofrequency (RF) Ablation Prospective Outcomes Study (RAPID)**

(Erik Shaw, DO)

**Sponsor: Boston Scientific**



**Project #861**

**Patient Retrospective Outcomes (PRO) Clinical Investigation Plan (Erik Shaw, DO)**

**Number of Studies in Section: 3**

**NEUROLOGY / NEUROPSYCHOLOGY RESEARCH**

**Project #701**

**Shepherd Center Neuropsychology Data Registry Research Protocol**

(Kristian Nitsch, PHD)

**Project #870**

**Validation of a Neuropsychological Model of "Disorders of the Self"**

(Brick Johnstone, PHD)

**Number of Studies in Section: 2**

**NEUROMUSCULAR/RESPIRATORY RESEARCH**

**Project #871**

**Evaluation of Oscillation and Lung Expansion (OLE) Using the Volara® System for the Treatment of Respiratory Complications in Patients with Neuromuscular Disease in the Home Setting**

(Phillip Wexler, MD)

**Sponsor: Hill-Rom**

**Number of Studies in Section: 1**

**UROLOGY RESEARCH**

**Project #834**

**Day-to-Day Experiences of People Using Indwelling Catheters and How They Manage Their Bladder Health (Shepherd PI: Pete Anziano, External PI: Jared Meyers)**

**Project #859**

**Comparison of Recurrence Rates for Urinary Tract Infections in Inpatient Rehabilitation Patients Treated for 7 Days Versus 10 Days (Lauren Wilcox)**

**Number of Studies in Section: 2**

**Total Number of Studies: 85**