

**VIRGINIA C. CRAWFORD RESEARCH INSTITUTE  
AT SHEPHERD CENTER**

**Active Research Projects – May 2021**

**ASSISTIVE TECHNOLOGY 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 #676**

**LiveWell RERC: R2-Factors Affecting Acceptance of ICT by People with Disabilities and Caregivers** (John Morris, PHD)

**Project #678**

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

**Project #731**

**Usability Lab: Tech Access Network** (John Morris, PHD)

**Project #791**

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

**Project #803**

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

**Project #808**

**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**

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

**Project #822**

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

**Project #828**

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

**Project #837**

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

**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)

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**Project #839**

**Inspired Insights: Accessibility Feedback (Usability)** (John Morris, PHD)

**Project #845**

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

**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, Carlyn Kappy, RD, LD, CCRP)

**Project #662**

**Long Term, Prospective, Multinational, Parallel-Cohort Study Monitoring Safety in Patients with MS Newly started on Fingolimod Once Daily or Treated with Another Approved Disease-Modifying Therapy – Novartis #CFTY720d2403 - Passage”** (Ben Thrower, MD, Elizabeth Gonzales, CCRP)

**Project #667**

**Successful Employment and Quality Work Life after Severe Disability: Comparison of Predictive Models with Multiple Sclerosis and Spinal Cord Injury. Stage II: Quantitative Study of Factors Related to Successful Employment** (Deborah Backus, PT, PHD)

**Project 690**

**Severity of Illness, Parenting, and Child Psychological Adjustment: Exploring the Associations among Mothers with Multiple Sclerosis** (Emily Stewart)

**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, Carlyn Kappy, RD, LD, CCRP)

**Project #722**

**Pilot Study Evaluating Functional Outcomes in People with MS Who Participate in the Shepherd Can Do MS Program** (Deborah Backus, PT, PHD)

**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)

**Project #761**

**A Multicenter, Open-Label Safety and Efficacy Study of ADS 5102 Amantadine Extended Release Capsules in Patients with Multiple Sclerosis and Walking Impairment. Adamas ADS-AMT-MS302**

(Ben Thrower, MD, Michelle Tidwell, RN, BSN, CCRP)

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**Project #769**

**Pilot Study to Evaluate the Unique Contributions of Electrical Stimulation to Muscle Fatigue and Symptoms in People with MS** (Deborah Backus, PT, PHD)

**Project #772**

**A Randomized, Controlled, Open-Label, Rater-Blinded, Phase 3b Study of the Efficacy, Safety, and Tolerability of 6-Week Extended Interval Dosing of Natalizumab (BG00002) in Subjects with Relapsing-Remitting Multiple Sclerosis Switching from Treatment with 4-Week Natalizumab Standard Interval Dosing (SID) in Relation to Continued SID Treatment – Biogen NOVA (Protocol ID: 101MS329)** (Ben Thrower, MD)

**Project #776**

**Pilot Study Evaluating Functional and Wellness Outcomes of the Shepherd Can Do MS Program** (Deborah Backus, PT, PHD)

**Project #781**

**Feasibility of the Multiple Sclerosis Performance Test for Assessment of Functional Performance Measures in Patients with Multiple Sclerosis. 3/01/2021 Closed for New Enrollments** (Deborah Backus, PT, PHD, Casey Kandilakis, PT)

**Project #792**

**Helping People with MS Help Themselves: Are Self-Management Strategies Needed for People with MS?** (Louise Palmer)

**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)

**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 Sponsor: GW Pharma** (Ben Thrower, MD, Michelle Tidwell, RN, BSN, CCRP)

**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 Sponsor: Genentech, Inc. CHIMES** (Ben Thrower, MD)

**Project #819**

**Surveying Self-Management Needs, Barriers, Facilitators and Contextual Factors for People with MS: Phase 1 Feasibility Study** (Louise Palmer)

**Project #832**

**Investigating the Relationship between Interoceptive Awareness, Emotional Susceptibility, and Fatigue in People with MS- A Mixed Method Exploration** (Megan Ware, Kevin McCully, PHD)

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**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, Michelle Tidwell, RN)

**Project #453**

**Humanitarian Use Device – DPS** (Brock Bowman, MD, Ismari Clesson, RN, CCRP)

**Project #587**

**Systematic Assessment of Caregiving Skill Performance by Individuals with Tetraplegia and Their Caregivers** (John Morris, PHD)

**Project #614**

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

**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, Ismari Clesson, RN, CCRP, Michelle Tidwell, RN, BSN, CCRP)

**Project #643**

**A Randomized Controlled Study to Evaluate the Effectiveness of the Precision Spinal Cord Stimulator System at Sub-Perception Amplitude Boston Scientific A4046 WHISPER** (Erik Shaw, DO, Elizabeth Gonzales, CCRP)

**Project #703**

**SCIMS Project 1: Enhancing Corticospinal Activation for Improved Walking Function** (Edelle Field-Fote, PHD)

**Project #709**

**Emergency Department Visits, Related Hospitalizations, and Reasons for Utilization of the Emergency Department after SCI** (James Krause, PHD, Jennifer Coker)

**Project #715**

**Diet Composition and Cardiometabolic Risk Reduction in Adults with SCI. Protocol #F151001005 Sponsor: NIH - In Collaboration with UAB** (Brooks Wingo, PHD; Edelle Field-Fote, PHD)

**Project #729**

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

**Project #732**

**Managing Edema after Spinal Cord Injury with Techniques Utilized to Treat Lymphedema** (Rebecca Hammad, MHS, OTR/L CLT)

**Project #737**

**SCI Model System of Care Data Collection (MASTER GRANT 2016 - 2021)** (Edelle Field-Fote, PHD)

**Project #741**

**A Blended Residential/Telehealth Lifestyle Intervention to Improve Cardiovascular Health and Manage Pain in Adults with SCI: A Pilot Study** (James Rimmer, PHD, Elizabeth Sasso-Lance, PT)

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**Project #749**

**Development of Crosswalks to Aggregate International Spinal Cord Injury Functional Data. FIM/SCIM III data will be used** (Linda Jones, PT)

**Project #750**

**Using a Health Technology Assessment Framework for Evaluating the Utilization and Efficiency of Wearable Exoskeletons for SCI Rehabilitation** (Edelle Field-Fote, PHD, Cathy Furbish, PT)

**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 #771**

**Dose-Response Effects Associated with Intensity of Transcutaneous Spinal Cord Stimulation on Spasticity after Spinal Cord Injury** (Edelle Field-Fote, PHD, Evan Sandler)

**Project #777**

**Influence of Whole-Body Vibration on Neuromodulation of Ankle Muscles in Persons with SCI** (Edelle Field-Fote, PHD; Jasmine Hope)

**Project #778**

**Preliminary Assessment of the Anti-Clonus Functional Electrical Stimulation Device for Wheelchair Propulsion** (Adrew Ekelem, 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; Michelle Tidwell, RN, BSN, CCRP)

**Project #780**

**Pilot Study of Spinal Cord Stim for Pain and Motor Control after Spinal Cord Injury** (Brad Farrell, PHD)

**Project #796**

**Clinical Evaluation of the Connected Catheter - Wireless Urinary Prosthesis for Management of Chronic Urinary Retention (Connected Catheter- Evaluation Study)** (Tammy King)

**Project #804**

**Validation of Self-Reported Severity and Level of Spinal Cord Injury** (Edelle Field-Fote, PHD, Catherine Furbish, PT)

**Project #805**

**Tracking Activity to Improve the Prognosis of Mobility After Spinal Cord Injury** (Edelle Field-Fote, PHD, Elizabeth Sasso-Lance, PT)

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**Project #813**

**Antecedents, Consequences, and Interventions for Travel Participation after SCI** (Edelle Field-Fote, PHD)

**Project #820**

**Validation of the International Spinal Cord Injury (ISCI) Physical Therapy-Occupational Therapy (PT-OT) Basic Data Set (BDS)** (Edelle Field-Fote, PHD)

**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 (NESS)** (Edelle Field-Fote, PHD)

**Project #829**

**Virtual Nursing Family Education - A Capstone Project** Alexis Rudell Whiddon, RN, BSN SCI float PRN, Shepherd Center, Inc. UWG Nurse Educator Master's Program 770-361-7069 (Alexis Whiddon, RN, BSN)

**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** (V Reggie Edgerton, Parag Gad)

**Project #836**

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

**Project #840**

**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)

**Project #847**

**A Randomized Crossover Design Study to Assess the Impact of Chair and Floor Based Yoga Following Spinal Cord Injury** (Kristen Webber)

**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 Number: MT-3921-A01** (Donald Peck Leslie, MD)

**STROKE RESEARCH**

**Project #745**

**Right-Brain Dominance in Left Middle Cerebral Artery Stroke: A Case Study.** (Jessica Robbins, PHD)

**Project #748**

**Right ICA CVA after Malignant Carotid Body Tumor Resection: A Case study and Implications for Rehabilitation** (Jessica Robbins, PHD)

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**Project #798**

**Case Study of How iLs (Integrated Listening Systems) Focus Unit Treatments Can Improve Gait & Balance Abilities of a Client Post-Stroke - A Single Patient Clinical Case Study (Julia Fortna, OT)**

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

**Project #454**

**A Prospective Analysis of Therapeutic Treatments and Their Impact on Acute TBI Rehabilitation Outcomes (Ron Seel, PHD)**

**Project #588**

**Feasibility and Utilization of an Upper Limb Exoskeletal Device in Acute Acquired Brain Injury Rehabilitation (Kathy Farris, OT)**

**Project #695**

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

**Project #714**

**TBI Outcomes and Differences in Acute Care at a Southeastern Level I Trauma Center (Ron Seel, PHD, Tolu Oyesanya, PHD)**

**Project #724**

**Transition Needs of Patients with TBI Discharged Home from Acute Care and Their Family Caregivers (Tolu Oyesanya, PHD)**

**Project #726**

**Grading Symptom Responses to Engaging Video Attributes after Concussion (Russell Gore, MD)**

**Project #736**

**Effectiveness of Trigger Point Dry Needling for Lateral Epicondylitis Versus Lateral Epicondylitis: A Report Comparing Two Cases (SHARE Program) (April Hodge, PT)**

**Project #773**

**Magnetic Resonance Spectroscopy Applications in Disorders of Consciousness (MRS for DoC) (Candace Fleischer, PHD (Emory))**

**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)**

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**Project #790**

**Veteran Goal Directed Comprehensive Care Outcomes in Chronic Mild Traumatic Brain Injury**  
(Tracey Wallace, CCC-SLP)

**Project #797**

**Minimal Clinical Important Difference (MCID) of Gait Speed and Subjective Balance in Individuals with Vestibular Disorders (Deidentified Chart Review)** (April Hodge, PT)

**Project #806**

**Effectiveness of Peer Support on Caregivers of Persons with Acquired Brain Injury** (Mike Jones, PHD)

**Project #810**

**Rehabilitation Pathways after Concussion: A Retrospective Chart Review of Referral for Cognitive-Communication Services** (Tracey Wallace, CCC-SLP)

**Project #818**

**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**

**Virtual Nursing Family Education - A Capstone Project**

(Alexis Rudell Whiddon, RN, BSN SCI float PRN, Shepherd Center, Inc. UWG Nurse Educator Masters Program 770-361-7069)

**Project #833**

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

**Project #835**

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

**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)



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**PAIN MANAGEMENT RESEARCH**

**Project #814**

**A Retrospective Chart Review to Describe the Clinical Experiences of Patients Receiving SPRINT Peripheral Nerve Stimulation Therapy for Chronic Pain (Erik Shaw, DO)**

**NEUROLOGY / NEUROPSYCHOLOGY RESEARCH**

**Project #701**

**Shepherd Center Neuropsychology Data Registry Research Protocol (Laura Hoskins, PSY.D)**

**Project #802**

**The Practice Committee of APA Division 22 State of Field Survey for Rehabilitation Psychology (Laurie Nash, PHD)**

**Project #817**

**Spectrum of Severe Central Nervous System Effects in COVID-19: A Neurorehabilitation Case Series (Ford Vox, MD)**

**UROLOGY**

**Project #834**

**Day-to-Day Experiences of People Using Indwelling Catheters and How They Manage Their Bladder Health**

(Jared Meyers, Pete Anziano)

**OUTCOMES RESEARCH**

**Project #603**

**A Patient-Centered Approach to Successful Community Transition after Catastrophic Injury (Mike Jones, PHD)**

**PUBLIC HEALTH**

**Project #793**

**Public Health Priorities as Reflected by American Corporate Philanthropy (Ford Vox, MD)**