Active Research Projects – JANUARY 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 #752
LiveWell RERC: BreatheWell Wear 2.0. (Tracey Wallace, CCC-SLP)

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 #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)

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 #713
Shepherd Center MS Outcomes Data Registry (Deborah Backus, PT, PhD)

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 #739
A Multicenter Randomized, Double-Blind, Placebo-Controlled Study in Subjects With Relapsing Multiple Sclerosis to Evaluate the Efficacy and Safety of BIIB033 as an Add-On Therapy to Anti-Inflammatory Disease-Modifying Therapies. (Ben Thrower, MD)

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)

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.  (Deborah Backus, PT, PhD, Casey Kandilakis, PT)

Project #784
The role of marriage in the adoption of healthy behaviors in people with MS.
(Kevin McCully, PhD, Deborah Backus, PT, PhD)

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)

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
1649184-1 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)
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 #629
Dose-Response Effects of Whole Body Vibration on Spasticity and Walking in SCI. (Edelle Field-Fote, PhD, Elizabeth Sasso-Lance, PT; Bradley Farrell, PhD)

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 #717
Incorporation of Surface Electrode Functional Electrical Stimulation System in Indego Exoskeleton. (Donald Leslie, MD)

Project #721
Determinants of Upper Extremity Functional Capabilities in Tetraplegia. (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)

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 #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

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)

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 FunctionsTransformation 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)

STROKE RESEARCH

Project #745
Right-Brain Dominance in Left Middle Cerebral Artery Stoke: 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)

Project #798
Case Study of how iLs (Integrated Listening Systems) Focus unit treatments can improve gait & balance abilities of a client post-stroke - A singe 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 #683
Use of Behavioral Informatics to Support Safety and Activity Independence in the Home. (Ron Seel, PhD)

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 Epicondylosis: A Report Comparing Two Cases. (April Hodge, PT) (SHARE Program)

Project #773
Magnetic Resonance Spectroscopy Applications in Disorders of Consciousness (MRS for DoC) (Candace Fleischer, PhD (Emory)

Project #782

Project #785tDCS 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)
VIRGINIA C. CRAWFORD RESEARCH INSTITUTE
AT SHEPHERD CENTER

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

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 Master’s 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)

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)