

Craig Hospital Active Research – January 2026

1. STUDY TITLE: BeHEALTHY: CHRONIC DISEASE MANAGEMENT FOR PEOPLE WITH TBI

Description: This collaborative project, led by Indiana University, leverages the substantial resources of the Traumatic Brain Injury (TBI) Model Systems and experts in collaborative care, self-management, state policy, and national consumer advocacy to develop a chronic disease management model for TBI, their caregivers, and health care providers. Craig participates as a study site and overall study Data Coordinating Center.

PI: Candy Tefertiller, DPT, PhD, , Dave Mellick, PhD

Category: TBI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) subaward from Indiana University

2. STUDY TITLE: ROCKY MOUNTAIN REGIONAL SPINAL INJURY SYSTEM (RMRSIS) 2022 - 2027

Description: The Spinal Cord Injury Model Systems is a prospective, longitudinal multi-center study which examines the course of recovery and outcomes following the delivery of a coordinated system of acute neurotrauma and inpatient rehabilitation.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

Study Title: RMRSIS Local Study: Wide Pulse Functional Electrical Stimulation to Improve Upper Extremity Function and Trunk Stability After Spinal Cord Injury

Description: The primary objective of this study is to evaluate three approaches to improve upper extremity and trunk function after SCI.

- Functional task specific practice (FTP) alone
- Conventional functional electrical stimulation (FES) plus FTP
- Wide pulse/high frequency FES plus FTP

Inclusion criteria: Individuals are being enrolled in the study during inpatient rehabilitation and meet all other inclusion criteria.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

3. STUDY TITLE: THE TRAUMATIC BRAIN INJURY MODEL SYSTEMS (TBIMS) NATIONAL DATA AND STATISTICAL CENTER (NDSC)

Description: The TBIMS NDSC manages the TBI Model Systems National Database and provides technical assistance, training, and methodological consultation to 16 centers and 4 follow-up sites as they collect and analyze longitudinal data from people with TBI in their communities, and as they conduct research toward evidence-based TBI rehabilitation interventions.

PI: Dave Mellick, PhD,

Category: TBI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

4. STUDY TITLE: COMPARING TREATMENT APPROACHES TO PROMOTE INPATIENT REHABILITATION EFFECTIVENESS FOR TBI (CARE4TBI)

Description: This collaborative project, led by Ohio State University, leverages the substantial resources of the Traumatic Brain Injury (TBI) Model Systems using the infrastructure of the world's largest longitudinal study of persons with TBI, to study "real-life" rehabilitation, we will conduct the most comprehensive investigation of rehabilitation intervention effectiveness possible to date, with findings having the potential to directly and immediately impact clinical practice.

PI: Candy Tefertiller, DPT, PhD, Dave Mellick, PhD

Category: TBI

Funder: National Institutes of Health (NIH) subaward from Ohio State University

5. STUDY TITLE: WHEELCHAIR BACKS THAT SUPPORT THE SPINAL CURVES: ASSESSING POSTURAL AND FUNCTIONAL CHANGES

Description: The goal of this industry funded clinical trial is to further investigate if using a solid backrest on manual wheelchair (MWC) will improve postural alignment, function and wheelchair mobility as compared with an upholstery backrest and to explore the impact of overall back height, seat gap, and contour when using a solid backrest.

PI: Candy Tefertiller, DPT, PhD,

Category: SCI

Funder: Permobil

6. STUDY TITLE: EXOSKELETON-ASSISTED WALKING AUGMENTED WITH TRANSCUTANEOUS SPINAL CORD STIMULATION IN COMPARISON TO EXOSKELETON ASSISTED WALKING ALONE

Description: The primary goal of this pilot study is to evaluate the opportunity to improve walking function in individuals with motor incomplete SCI who are non-ambulatory using exoskeleton-assisted therapy and secondly to compare those outcomes to exoskeleton assisted walking augmented with transcutaneous electrical spinal cord stimulation.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: Craig Foundation private donor

7. STUDY TITLE: LONG-TERM TRAJECTORIES OF COGNITION AND PSYCHOLOGICAL HEALTH IN CIVILIANS AND VETERANS: UNDERSTANDING RISK TO INFORM TARGED PREVENTION AND PERSONALIZED INTERVENTIONS - DATA

Description: As the Data Coordinating Center, we will be responsible for the data lifecycle of this project to understand long-term Trajectories of Cognition and Psychological Health in Civilians and Veterans: Understanding Risk to Inform Targeted Prevention and Personalized Interventions - DATA

PI: Dave Mellick, PhD (Data)

Category: TBI

Funder: Department of Defense subaward from Mt. Sinai

8. STUDY TITLE: LONG-TERM TRAJECTORIES OF COGNITION AND PSYCHOLOGICAL HEALTH IN CIVILIANS AND VETERANS: UNDERSTANDING RISK TO INFORM TARGED PREVENTION AND PERSONALIZED INTERVENTIONS - CLINICAL

Description: The clinical arm of this study leverages existing multi-center research infrastructure, field-leading datasets, and multimodal brain autopsy protocols that have been refined over the past decade. Our strong multidisciplinary team will significantly advance scientific knowledge of post-TBI cognitive and psychological health to improve early diagnosis, inform risk stratification, and identify novel prevention opportunities and treatment targets.

PI: Stephanie Agtarap, PhD (Clinical)

Category: TBI

Funder: Department of Defense subaward from Mt. Sinai

9. STUDY TITLE: MULTI-SITE COLLABORATIVE RESEARCH PROJECT: THE CONTEXT OF LIVING WITH SPINAL CORD INJURY: A PROGRAM OF COLLABORATIVE RESEARCH ADVANCING THE SCIENCE OF ENVIRONMENTAL FACTORS AND DISABILITY

Description: The goal of this multisite collaborative project is to learn more about how communities shape disability. This project gathers information to inform ongoing policy efforts to maintain the hard-fought gains for social inclusion for people with disabilities. The objectives are: (1) to improve the ability of the national SCI Model Systems (SCIMS) database to conduct ongoing research in geographic disparities in outcomes; (2) to generate estimates of geographic, racial/ethnic, and rural-urban health disparities; and (3) to identify the processes that shape health disparities by engaging with people with SCI as they navigate community places using smartphones and wearable technology.

PI: Katherine Froehlich-Grobe, PHD

Category: SCI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) Subaward under Kessler Foundation

10. STUDY TITLE: ROCKY MOUNTAIN REGIONAL BRAIN INJURY SYSTEM (RMRBIS) 2022 - 2027

Description: The Traumatic Brain Injury Model Systems is a prospective, longitudinal multi-center study which examines the course of recovery and outcomes following the delivery of a coordinated system of acute neurotrauma and inpatient rehabilitation.

PI: Candy Tefertiller, DPT, PhD, Dave Mellick, PhD

Category: TBI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

Study Title: RMRBIS Local Study: B-HIST, Improving Balance and Mobility after Traumatic Brain Injury: A Randomized Controlled Trial Evaluating High Intensity Step Training

Description: The primary objective of this study is to evaluate three therapeutic approaches to improve mobility and balance after TBI:

1. Conventional Gait and Balance Training
2. The second approach is known as high intensity step training (HIST), which focuses on the repetition of stepping at high cardiovascular intensities and yielding a greater number of steps per training session
3. The third therapeutic intervention combines virtual reality with high intensity step training, designed to increase cortical excitability while concurrently activating the neuromuscular system.

PI: Candy Tefertiller, DPT, PhD

Category: TBI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

Study Title: Additional Outcomes associated with High-Intensity Training in Traumatic Brain Injury (TBI): The Model Systems Site Specific Study

Description: The study team has identified additional outcomes that may be beneficial to understand the impact of different types of physical training in individuals with TBI. Therefore, this work adds measures of fatigue, cardiorespiratory endurance, sleep, and blood biomarkers to the outcomes already being collected in this study.

PI: Candy Tefertiller, DPT, PhD

Category: TBI

Funder: Craig Hospital Foundation

11. STUDY TITLE: USING PROBLEM SOLVING TRAINING WITH AN EMBEDDED WALKING PROGRAM TO REDUCE FATIGUE AND MANAGE FATIGUE SYMPTOMS FOR THOSE WITH POST TBI FATIGUE

Description: The objectives of the proposed project are to determine: 1) the initial efficacy of PST for improving outcomes in individuals with TBI, 2) the feasibility of a weekly mobile goal-setting text message booster, and 3) the feasibility and acceptability of a fatigue-targeted PST intervention for individuals with TBI. Our past experience with PST implementation research and our clinical expertise in neuro-rehabilitation ensures a rigorous, clinically relevant, and feasible project.

PI: Candice Osborne, PhD

Category: TBI

Funder: Craig Hospital Foundation and private donor

12. STUDY TITLE: EXPANDING KNOWLEDGE AND INFORMATION DELIVERY AROUND IMPROVING UPPER EXTREMITY FUNCTION AFTER CERVICAL SPINAL CORD INJURY aka PAIR

Description: The purpose of this study is to develop a decision aid to fill the information void around restoring upper extremity function in cervical SCI. The decision aide will contain education regarding the timing for spontaneous recovery and the appropriate timing of surgical interventions such as nerve and tendon transfers. The decision aid will be informed by surveys completed by individuals living with SCI and care providers.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: Department of Defense/Subaward from Washington University School of Medicine

13. STUDY TITLE: PLASMA EXOSOME DERIVED BDNF LEVELS AFTER SCI

Description: The purpose of this study is to evaluate the following: 1. the feasibility of assessing plasma EV BDNF in individuals with spinal cord injury (SCI) 2. the association between EV BDNF and serum BDNF; 3. the association between EV BDNF and neurologic recovery after SCI; 4. Comparison of EV BDNF in individuals with SCI and healthy controls.

PI: Candy Tefertiller, PhD, Andrew Park, MD

Category: SCI

Funder: Craig Hospital Foundation and private donor

14. STUDY TITLE: RETROSPECTIVE ANALYSIS OF ACQUIRED BRAIN INJURY ACTIGRAPHY (ABIACT) DATA SET OF THE FIRST 7 DAYS OF ADMISSION

Description: The purpose of this project is to take existing clinical raw actigraph data collected from the 7-day admission actigraphy collected on patients admitted to the brain injury unit and incorporate this into a statistical database for analysis. We will call this the ABIACT (Acquired Brain Injury Actigraphy) Data Set. Our plan is to look at this data set to determine best indices of rest/activity in this population with the ultimate goal of submitting a R21 research grant to the NIH.

PI: Michael Makley, MD

Category: TBI

Funder: Craig Hospital Foundation

15. STUDY TITLE: IS ROCK CLIMBING A USEFUL RECREATIONAL THERAPY FOR INDIVIDUALS WITH SCI AND ABI? A PILOT STUDY

Description: The purpose of this project is to understand the impact of rock climbing on a person's well-being and their satisfaction with rock climbing as a recreational therapy activity, and any trends with continued climbing sessions, following a spinal cord or brain injury

PI: Kelsey Smith, Stephanie Agtarap, PhD

Category: Dual

Funder: Craig Hospital Foundation

16. STUDY TITLE: ASPIRE: ASSESSING NON-INVASIVE SPINAL STIMULATION AND PT/OT FOR MOTOR IMPROVEMENT RESPONSE WITH EXASTIM

Description: The purpose of this study is to evaluate the use of transcutaneous spinal stimulation to improve upper extremity strength and function after chronic spinal cord injury in comparison to sham stimulation.

PI: Candy Tefertiller, DPT, PhD,

Category: SCI

Funder: Niche Biomedical aka Aneuvo

17. STUDY TITLE: REACTIONS EVENT APPRAISALS AND CONTEST IN TRAUMATIC BRAIN INJURY (REACT) - DATA

Description: As the Data Coordinating Center, we will be responsible for the data lifecycle of this project to understand the patterns of and associations with angry and aggressive reactions to frustrating events to provide needed insights regarding the interplay between variables and the identification of risk profiles, knowledge needed to improve interpersonal relationships among those living with the impacts of TBI.

PI: Dave Mellick, PhD

Category: TBI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

18. STUDY TITLE: REACTIONS EVENT APPRAISALS AND CONTEST IN TRAUMATIC BRAIN INJURY (REACT) - CLINICAL

Description: The purpose of this project is to understand the patterns of and associations with angry and aggressive reactions to frustrating events to provide needed insights regarding the interplay between variables and the identification of risk profiles, knowledge needed to improve interpersonal relationships among those living with the impacts of TBI. This information will help advance educational materials, screening protocols, treatment selection, intervention targets, and further treatment development.

PI: Candice Osborne, PhD

Category: TBI

Funder: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

19. STUDY TITLE: IMPROVING HEALTH CARE ACCESS AND ENGAGEMENT FOR VETERANS AND SERVICE MEMBERS WITH TBI MORBIDITY (I-HEAL)

Description: This Data Center project will oversee initiation and progress and completion of a study website and database. The Data Center staff will plan, develop, manage, and secure the implementation of data systems for all statistical analysis for the successful completion of relevant individual studies. The Website will allow for public documentation and authentication for materials that need to be for study personnel only.

PI: Dave Mellick, PhD

Category: TBI

Funder: Department of Defense

20. STUDY TITLE: THE USE OF SUBTHERAPEUTIC ANTICOAGULATION IN PATIENTS WITH SCI AND BI: PREVALENCE AND RATIONALE

Description: The purpose of this project is to evaluate in adults with SCI and/or BI with a diagnosis of a new DVT, to describe the prevalence, patient characteristics, and risk factors with determined prescription of subtherapeutic or therapeutic anticoagulation, and determine if the difference in treatment alter clinical outcomes of interest.

PI: Stacia Rumer, PharmD, Andrew Park, MD

Category: SCI

Funder: Craig Hospital Foundation

21. STUDY TITLE: INDIVIDUALIZED CLINICIAN IMPROVEMENT DASHBOARDS (ICID) FOR NURSES: A PILOT STUDY IN A NEUROREHABILITATION HOSPITAL

Description: The purpose of this study is to assess the value of a unique feedback intervention, the ICID, for nurses in a neurorehabilitation environment. We will examine how often nurses view their ICIDs as well as the ease of using their ICIDs. We will evaluate the effect of ICIDs on QPIs and job empowerment and gather information on the degree to which nurses derive value from the ICIDs.

PI: Ann Toth, PhD, BSN, RN, CBIS

Category: Other

Funder: Craig Hospital Foundation

22. STUDY TITLE: ABDOMINAL FUNCTIONAL ELECTRICAL STIMULATION TO IMPROVE BOWEL FUNCTION IN SPINAL CORD INJURY

Description: The primary objective of this study is to investigate the effectiveness of abdominal FES to improve bowel management time (BMT) for people with chronic SCI. Secondary objectives will evaluate whether abdominal FES can improve: 1) bowel related quality of life, 2) participant-reported bowel function 3) bowel management strategy 4) bladder symptoms and 5) unplanned hospital admissions. We will also explore participants perspectives and experiences in relation to the stimulation sessions and use of the device.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: Craig Hospital Foundation

23. STUDY TITLE: ASSESSING IN VIVO VASCULAR FUNCTION AFTER TETRAPLEGIA: A PILOT TRIAL

Description: The general aim of this pilot study is to assess the feasibility and integrity of the study protocol and generate needed pilot data in individuals of tetraplegic SCI. The results of this study will inform a future study to characterize the endothelial phenotype associated tetraplegic SCI in comparison to a non-SCI control group.

PI: Andrew Park, MD

Category: SCI

Funder: Craig Hospital Foundation

24. STUDY TITLE: ADDRESSING TOBACCO CESSATION AMONG SMOKERS WITH SCI AND THEIR HEALTHCARE PROVIDERS

Description: The purpose of this study is to better understand the barriers and facilitators that smokers with SCI and their healthcare providers within rehabilitation settings confront in supporting attempts to quit smoking and to conduct a study within an outpatient rehabilitation setting to implement an evidence-based program to increase quit attempts by smokers with SCI.

PI: Katherine Froehlich-Grobe, PhD

Category: SCI

Funder: Neilsen Foundation

25. STUDY TITLE: ROLE OF VASCULAR ENDOTHELIAL DYSFUNCTION IN SPINAL CORD INJURY RELATED CARDIOVASCULAR DISEASE RISK

Description: The purpose of this study is to learn important information on the health of endothelial cells after spinal cord injury. We will also be able to use our marker of endothelial cell function to create treatments to improve vessel health and prevent heart attacks and strokes later in life.

PI: Andrew Park, MD

Category: SCI

Funder: American Heart Association

26. STUDY TITLE: THRIVING AFTER TBI: A LONGITUDINAL INVESTIGATION OF RESILIENCE-RELATED FACTORS FOR PSYCHOSOCIAL GROWTH AFTER TRAUMATIC BRAIN INJURY

Description: The objectives of this study are to 1) characterize change in measures of PTG (and its domains), psychological distress (depression, anxiety, and posttraumatic stress symptoms), and event centrality; 2) assess predictors of PTG development; 3) assess the relationship between PTG development and rehabilitation outcomes; and 4) assess differences in PTG development across different pathways of rehabilitative care.

PI: Stephanie Agtarap, PhD

Category: TBI

Funder: Department of Defense

27. STUDY TITLE: DEVELOPING EVIDENCE-BASED WHEELCHAIR CUSHION PRESCRIPTION USING INTERFACE PRESSURE AND POSTURAL STABILITY MEASUREMENTS

Description: This project is structured to define thresholds to guide clinicians in their decision-making by considering both positive and negative outcomes. Parameters that lead to positive outcomes are used clinically as thresholds to pursue, but achieving that threshold may not be possible across the two different constructs. In distinction, parameters that lead to negative outcomes represent thresholds to avoid, and indicate to the therapist and client that ‘we can do better’.

PI: Candy Tefertiller, DPT, PhD

Category: Dual

Funder: NIDILRR

28. STUDY TITLE: SPINAL CORD INJURY AND PSYCHEDELIC USE (SCIPU)

Description: The purpose of this project is to obtain an estimate of psychedelic use among a large SCI sample as well as to identify demographic factors and injury-related characteristics that may be related to psychedelic use and to examine the reasons why individuals with SCI are interested or not interested in using psychedelics. These results may be used to inform the education we provide to patients at Craig who have interest in psychedelic use. These findings may also be used to inform a federal grant submission in collaboration with Dr. Jim Grigsby at the University of Denver to study the use of psychedelics to improve psychological distress and emotional well-being after SCI.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: Craig Hospital Foundation

29. STUDY TITLE: ADAPTATION AND FEASIBILITY OF A FATIGUE INTERVENTION IN ADULTS WITH TRAUMATIC BRAIN INJURY

Description: This project directly addresses the mission to optimize prevention, assessment, and treatment of psychological health issues and TBI in two focus areas: treat psychological health conditions via evidence-based interventions and prevent psychological health conditions by developing and optimizing interventions addressing upstream factors (i.e., self-management of chronic conditions).

PI: Candice Osborne, PhD

Category: TBI

Funder: Department of Defense

30. STUDY TITLE: SPINAL STIMULATION TO IMPROVE UPPER EXTREMITY RECOVERY IN THE HOME (SSTIM UE RECOVER)

Description: The long-term goal of this work is to improve upper extremity (UE) function, independence, and quality of life for individuals with cervical spinal cord injury (SCI) (target population). The primary objective of this study is to conduct a pilot randomized controlled trial (RCT) in the home that is safe, feasible, and tolerable using non-invasive transcutaneous spinal stimulation (TSS) in combination with UE functional task-specific practice (FTP).

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: NIDILRR

31. STUDY TITLE: WALKING WITH OVERGROUND ROBOTIC EXOSKELETONS TO INCREASE AROUSAL IN INDIVIDUALS WITH DISORDERS OF CONSCIOUSNESS

Description: The objective of this study is to evaluate the safety, feasibility and tolerability of using ORE therapy with individuals who meet criteria for DoC during inpatient rehabilitation while evaluating changes in behavioral performance, neurophysiological, and physiologic response to training. DoC numbers are very small so our goal is to gather this pilot data to support a future multi-site efficacy study with other TBIMS Center partners.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: Craig Hospital Foundation

32. STUDY TITLE: HORTICULTURAL THERAPY AND PATIENT-REPORTED BENEFITS: A PILOT STUDY

Description: The purpose of this study is to understand patient satisfaction with HT, the impact of horticultural therapy on well-being and stress levels, and its feasibility as a standardized intervention for rehabilitation patients with SCI and/or BI.

PI: Mattie Cryer, Horticulture Therapist

Category: Dual

Funder: Craig Hospital Foundation

33. STUDY TITLE: PHASE 2 STUDY OF ANDECALIXIMAB FOR THE PREVENTION OF HETEROTOPIC OSSIFICATION AFTER TRAUMATIC SPINAL CORD INJURY ("ANDECA-SCI-HO")

Description: This study is composed of an Interventional (Main) Study, and a non-interventional Triple Phase Bone Scan (TPBS) Substudy. Both the Main and the Substudy will enroll participants who have sustained a traumatic spinal cord injury (SCI).

PI: Andrew Park, MD

Category: SCI

Funder: Industry: AshiBio HO

34. STUDY TITLE: RETROSPECTIVE CHART REVIEW OF TEN PATIENTS WITH MODERATE TO SEVERE TRAUMATIC BRAIN INJURY [msTBI] EXPOSED TO A DIGITAL PHOTO DIARY APPROACH AND TREATED BY A SINGLE SPEECH AND LANGUAGE PATHOLOGIST

Description: The general aim of this retrospective chart review is to assess the patient characteristics and outcomes of a group of ten patients treated by a single Speech and Language Pathologist [SLP] exposed to this approach to improve day-to-day memory and carry over.

PI: Michael Makley, MD

Category: TBI

Funder: Craig Hospital Foundation

35. STUDY TITLE: GETTING UP ON THE WRONG SIDE OF THE BED: TRANSITION STATE DISORDERS FOLLOWING MODERATE TO SEVERE BRAIN INJURY [MSTBI]. COULD THIS BE A NOVEL FRAMEWORK FOR UNDERSTANDING AGITATION, CONFABULATION, AND MALADAPTIVE BEHAVIOR?

Description: To retrospectively review the medical records of four cases of inpatients with msTBI whose behavioral presentation appears to be rooted in having a marked difficulty distinguishing between the dream and waking state.

PI: Michael Makley, MD

Category: TBI

Funder: Craig Hospital Foundation

36. STUDY TITLE: DEVELOPMENT AND COMMERCIALIZATION OF A WEIGHT MONITORING PLATFORM FOR WHEELCHAIR USERS

Description: This study looks at refining a bodyweight scale for home use by wheelchair users, the Fast In-Bed Tracking (FIT) system. The FIT system will provide passive daily weight monitoring for wheelchair users to help them adhere to healthy lifestyle changes. The long-term vision is to integrate the FIT system into routine home and clinical care to support healthier lifestyles, prevent secondary conditions, and promote long-term wellness for wheelchair users.

PI: Katherine Froehlich-Grobe, PhD

Category: SCI

Funder: National Institutes of Health/subaward from NuRelm, Inc.

37. STUDY TITLE: PARTICIPATORY COMMUNITY INTEGRATION FOR TBI SURVIVORS: DEVELOPMENT OF A COMPUTER ADAPTIVE TEST

Description: Database creation to create a fully functional .NET Core CAT website for public accessibility and support dissemination resources.

PI: Dave Mellick, PhD,

Category: TBI

Funder: Spaulding Labs

38. STUDY TITLE: POSTPARTUM DEPRESSION IN WOMEN WITH SPINAL CORD INJURIES (PPD-SCI)

Description: The purpose of this study is to learn important information on the health and psychological well-being of women with depression with Spinal Cord Injuries to identify psychosocial outcomes and appropriate crisis management plans.

PI: Jean Berliner, PT

Category: SCI

Funder: Neilsen Foundation

39. STUDY TITLE: EXAMINING THE RELATIONSHIP BETWEEN RECREATIONAL THERAPY (TR) SERVICES AND FUNCTIONAL AND PSYCHOSOCIAL OUTCOMES AFTER SCI AND BI: A RETROSPECTIVE CHART REVIEW AND MODEL SYSTEMS ANALYSIS

Description: The purpose of this study is to conduct an exploratory investigation on the impact of TR services provided during inpatient rehabilitation and long-term psychosocial and functional outcomes for individuals with BI and SCI. We will explore both BI and SCI, guided by methodology and findings from the SCIRehab Project to identify appropriate TR variables within our own investigation.

PI: Stephanie Agtarap, PhD

Category: Dual

Funder: Craig Hospital Foundation

40. STUDY TITLE: TESTOSTERONE DEFICIENCY AND ENDOTHELIAL DYSFUNCTION IN SPINAL CORD INJURY RELATED CARDIOVASCULAR DISEASE MECHANISTIC INSIGHTS AND THERAPEUTIC

Description: Our research focuses on how important cells which line blood vessels, called endothelial cells, function after SCI. By understanding these mechanisms, we hope to improve the lives of those living with SCI and reduce their heart disease risks. We propose to study the influence of testosterone on endothelial function by using state-of-the-art clinical and laboratory experiments to assess endothelial function in men with SCI with low and normal testosterone levels.

PI: Andrew Park, MD

Category: SCI

Funder: Department of Defense

41. STUDY TITLE: ENDOTHELIAL DYSFUNCTION AFTER SCI: MECHANISM AND THERAPEUTIC TARGET FOR SCI-RELATED CVD

Description: People with spinal cord injuries (SCI) face a higher risk of heart disease, but the reasons behind this are not well understood. One possible cause is poor blood vessel function, especially problems with how vessels widen in response to signals. Tiny particles called endothelial microvesicles (EMVs) may reflect or even contribute to this dysfunction. This study aims to find out if blood vessel function is impaired in people with SCI and whether EMVs can serve as warning signs or treatment targets.

PI: Andrew Park, MD

Category: SCI

Funder: Neilsen

42. STUDY TITLE: IDENTIFYING MECHANISMS OF MEANING-MAKING AFTER TRAUMATIC BRAIN INJURY: THE ROLE OF EVENT CENTRALITY AND SPIRITUALITY IN PSYCHOSOCIAL ADJUSTMENT AND GROWTH

Description: The purpose of this proposal is to conduct secondary data analyses on the role of event centrality and religion/spirituality as potential mechanisms for meaning making and PTG after brain injury, in data already collected as part of the PTG Pilot study, as evidence for future clinical investigations.

PI: Stephanie Agtarap, PhD

Category: TBI

Funder: Craig Hospital Foundation

43. STUDY TITLE: FAIR-SCI: EXAMINING THE RELATIONSHIP BETWEEN FATIGUE, LIFE SATISFACTION, AND COMMUNITY INTEGRATION AFTER SPINAL CORD INJURY: A PILOT STUDY

Description: This pilot prospective cross-sectional study is to obtain preliminary data on the multidimensional nature, severity, and psychosocial impact of fatigue in individuals with SCI in order to inform the design of a larger prospective multi-site study. Findings from this pilot work will establish feasibility, refine measurement strategies, and generate effect size estimates that will directly guide the design, implementation, and power of a larger multi-site study evaluating fatigue in SCI.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: Craig Hospital Foundation

44. STUDY TITLE: SPINAL STIMULATION DURING INPATIENT REHABILITATION

Description: The purpose of this study is to evaluate the safety, feasibility, and potential effectiveness of TSS combined with task-specific training (UE, LE, or BP stability) in individuals with subacute iSCI during inpatient rehabilitation. This prospective longitudinal study aims to characterize motor and functional outcomes, assess patient and clinician-reported improvement, and to generate preliminary effect size estimates to inform the design and power calculations for future comparative effectiveness trials of TSS-augmented rehabilitation during subacute SCI.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: Craig Hospital Foundation

45. STUDY TITLE: EMPOWER BP TO MANAGE SYMPTOMATIC BLOOD PRESSURE INSTABILITY SECONDARY TO CHRONIC SPINAL CORD INJURY

Description: This global pivotal study evaluates the safety and effectiveness of the investigational implantable ARC System, which delivers targeted programmed stimulation of the spinal cord, to address symptomatic blood pressure instability in Individuals with SCI.

PI: Candy Tefertiller, DPT, PhD

Category: SCI

Funder: Onward Medical

46. STUDY TITLE: EXAMINING TRENDS IN WEIGHT STATUS OVER THE PAST DECADE AMONG SCIMS PARTICIPANTS AT THEIR DISCHARGE FROM INPATIENT REHABILITATION, AFTER LIVING WITH SCI FOR A YEAR, AND AFTER LIVING WITH SCI FOR FIVE YEARS

Description: The purpose of this proposal is to obtain data from the national SCI model systems database to inform our proposed study of dietitian practices across the model system programs. Data will be analyzed by site to assess BMI at rehabilitation discharge, change in weight status one year later, and change in weight status over five years. The data would also allow for examining whether there are differences in weight status change based on weight status at the time of injury, injury level, sex, age group, and race/ethnicity while controlling for two factors related to weight status, education level and income at the time of injury.

PI: Katherine Froehlich-Grobe, PhD, Mitch Sevigny, MS

Category: SCI

Funder: Craig Hospital Foundation

47. STUDY TITLE: STATIN'S PLEIOTROPIC ACTION FOR REDUCING CARDIOVASCULAR RISK AFTER SCI (SPARC-SCI)

Description: The general aim of this pilot study is to assess the safety, tolerability, and feasibility of conducting a trial of statin therapy in adults with paraplegia over the 13-week study period.

PI: Andrew Park, MD

Category: SCI

Funder: Craig Hospital Foundation