



EDUCATIONAL SESSIONS DETAIL DOCUMENT

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SUNDAY 25 OCT

INSTRUCTIONAL COURSES — FULL DAY

(#2805) The Constant Challenge of Person-Centered Care — Are You Up to It?**Date:** 25 October**Time:** 08:00 – 17:00**Faculty:** Christina Papadimitriou, PhD; Chris MacDonell; D J Brown, MA BMedSci BM BS MCEM; Claire Elisabeth Guy, MSc MCSP**Diagnosis:** Diagnosis-Independent, International**Focus area:** Clinical Practice**DESCRIPTION:** Person-centered care is seen as the preferred method to healthcare service delivery. Yet, it is challenging to implement it. The objective of this course is to *identify* these challenges and *teach* techniques to facilitate person-centered practice in rehabilitation for persons with disabilities. We will use multiple instructional methods including role play, videos of clinical scenarios, group work via Brainwriting, and short power point presentations. We want participants to have a 'hands-on' experience of tools that can assist them be(come) (more) person-centered. We will offer a toolkit to facilitate person-centered practice including resources and teachable techniques.**(#3065) Group Clinical Intervention for Survivors of Brain Injury and Caregivers****Date:** 25 October**Time:** 08:00 – 17:00**Faculty:** Samantha Backhaus, PhD; Summer Ibarra, MA; Thomas F. Bergquist, PhD; Kamini Krishnan, Ph.D**Diagnosis:** Brain Injury, Outcomes Research**Focus area:** Clinical Practice**DESCRIPTION:** The focus of this workshop is to provide training in how to facilitate an evidenced-based coping skills group for individuals with brain injury and their caregivers. It will specifically review the different Modules of the program, teach participants advanced cognitive-behavioral, dialectical-behavioral, and Mindfulness skills and demonstrate application of group therapy skills. While the developers of this program will be teaching this workshop, prior workshop attendees from the Mayo Brain Rehabilitation Clinic will be discussing real-life application of this program.**(#3212) Lifestyle Medicine 101: The Power of Healthy Habits for You and Your Patients****Date:** 25 October**Time:** 08:00 – 17:00**Faculty:** Elizabeth Pegg Frates, MD; Betty Ann Murray, CN, IFMCP**Diagnosis:** Stroke, Other**Focus area:** Clinical Practice**DESCRIPTION:** With research demonstrating that 80% of chronic disease is preventable through lifestyle changes, it is essential that this information is revealed and relayed to our patients as well as our colleagues and loved ones. In this evidence based course, we will review the exercise guidelines and prescription, nutrition guidelines and the healthy plate, motivational interviewing and the coach approach for counseling patients on behavior change so that your knowledge can translate into action on your part and the part of your patients. This course is designed to educate and motivate attendees with regards to lifestyle modification.**(#3271) A Brain-Computer Interface (BCI): A Primer for Clinicians****Date:** 25 October**Time:** 08:00 – 17:00**Faculty:** Theresa M Vaughan; Susan M Heckman; Debra J Zeitlin, M.A./CCC, ATP; Peggy Dellea, MS, OT/L; Melanie Fried-Oken, Ph.D., CCC/Sp**Diagnosis:** Brain Injury, Stroke, Technology**Focus area:** Neuroscience**DESCRIPTION:** Brain-computer interfaces (BCIs) translate brain signals into new outputs that replace, restore, enhance, supplement, or improve central nervous system (CNS) function. Thus, they might be used to restore simple communication to people severely disabled by ALS and other severe movement disorders. In this workshop we will provide clinicians and researchers with an overview of available BCI technology, and its practical uses as a tool for rehabilitation and research. Further, participants will have an opportunity to operate the BCI-24/7, and to learn how it can be used to evaluate potential users.

SUNDAY 25 OCT

INSTRUCTIONAL COURSE — MORNING

(#3207) Recharging the Rehab Team: Strategies to Improve Team Care and Patient Outcomes**Date:** 25 October**Time:** 08:00 – 12:00**Faculty:** Dale Christian Strasser, MD; Jay Mathew Uomoto, PhD; Barbara E. Bates, MD, MBA; Suzanne Penna, PhD**Diagnosis:** Other, Diagnosis-Independent, Clinical Practice**Focus area:** Other

DESCRIPTION: This course teaches participants to analyze rehabilitation team functioning (TF) and to utilize these insights to develop site-specific action plans to improve team services and patient outcomes. After an introduction to the Team Effectiveness Model and Research Program, participants working in small groups will analyze the underlying TF issues of common problematic situations such as poor carry-over of therapy skills to the nursing unit, splitting of staff by a patient or family member, and a physician with suboptimal engagement with the team approach. The course builds on TF and skills training research by the faculty.

SUNDAY 25 OCT

INSTRUCTIONAL COURSE — AFTERNOON

(#2830) Developing, Testing, and Implementing Technologies and Video Games Into Clinical Practice**Date:** 25 October**Time:** 13:00 – 17:00**Faculty:** Rachel Proffitt, OTD, OTR/L; John T. Morris, PhD; Tracey Wallace, M.S., CCC-SLP; Hillel Finestone; James H Rimmer, PhD; Jaclyn K. Schwartz, PhD, OTR/L; Roger O. Smith, OT, FAOTA, RESNA Fellow; Heidi Sveistrup, PhD**Diagnosis:** Diagnosis-Independent, Research Methods**Focus area:** Technology

DESCRIPTION: Technology is being increasingly incorporated into rehabilitation at all phases. Unfortunately, many companies and researchers have developed technologies that do not meet the needs of the rehabilitation consumer or clinic. The purpose of this instructional course is to present the work of researchers in field, highlighting the User Centered Design Processes these researchers have used in the development of their technologies. Researchers will present and demo the technology they have developed. Attendees will have a chance to participate in hand-on demos as well as a moderated discussion on translating technologies into practice.

MONDAY 26 OCT

INSTRUCTIONAL COURSES — FULL DAY

(#2842) Enhancing Stroke Survivors' Care Transitions and Outcomes

Date: 26 October**Time:** 08:00 – 17:00**Faculty:** Elaine Tilka Miller, PhD, RN, CRRN, FAAN, FAHA; Michelle Camicia, MSN, CRRN, CCM; Pamela Roberts, PhD, OTR/L, SCFES, FAOTA, CPHQ; Richard Riggs, M.D.; Patricia Quigley, PhD, ARNP, CRRN, FAAN, FAANP; Janet Prvu Bettger, ScD**Diagnosis:** Stroke, Other, Geriatric**Focus area:** Clinical Practice**DESCRIPTION:** In many instances, the process and outcomes associated with care transitions and targeted outcomes for stroke survivors is ineffective. Unfortunately, many clinicians do not possess the necessary knowledge and skills to advocate and facilitate care transitions resulting in high quality outcomes for stroke survivors, families and the healthcare delivery systems. Determining the best setting for the patient requires a thorough understanding of rehabilitation services, the essential aspects of care delivery and evaluation of pivotal evidence-based outcomes. Rehabilitation encompasses a process, practice, and philosophy of care and is not simply a care setting. In order to improve performance, coordination of care across the healthcare system is critical. The purpose of this four hour educational program is to increase essential knowledge and skills required to optimize the effective care transitions and determination of the most appropriate care outcomes of stroke survivors and their families. Evidence-based transitions of care models and practices will be discussed along with opportunities to apply this knowledge to participants' practice settings.

(#3232) The Role of Health Care Professionals in Chronic Disease Prevention and Health Promotion

Date: 26 October**Time:** 08:00 – 17:00**Faculty:** James H Rimmer, PhD; Sharon Ann Martino, PT, PhD; Robert Streb, PT, PhD; Sue Ann Sisto, PT, MA, PhD, FACRM; Maria C Milazzo, RN, MS; Shane Phillips, PT, PhD; Eric M Lamberg, EdD, PT, CPed; Raymond McKenna, PT, PhD; Kirsten Ness, PT, PhD**Diagnosis:** Other, Diagnosis-Independent, Pediatric**Focus area:** Clinical Practice**DESCRIPTION:** Millions of Americans suffer from chronic diseases and disability including heart disease, cancer, diabetes, obesity, arthritis, and spinal cord injury. The benefits of physical activity (PA) cross all ages and disabilities; however many patients do not receive the appropriate advice on how to engage in PA and many health care professionals are unsure where to begin when faced with such patients. This 1 day translational course will present evidenced based research on how to prevent, treat and promote healthy lifestyle activities for a variety of chronic diseases / disabilities including: cardiovascular disease, hypertension, diabetes, obesity, cancer, arthritis and spinal cord injury.

MONDAY 26 OCT

INSTRUCTIONAL COURSES — MORNING

(#3253) Applications of Item Response Theory Modeling for Enhancing Clinical Outcomes Assessment in Medical Rehabilitation

Date: 26 October**Time:** 08:00 – 12:00**Faculty:** Chih-Hung Chang, Ph.D.**Diagnosis:** Diagnosis-Independent, Outcomes Research**Focus area:** Research Methods**DESCRIPTION:** Item response theory (IRT) holds great promise and has become increasingly popular in clinical outcomes assessment because it provides more adaptable and effective methods of assessment tool development, analysis and scoring. This workshop will provide an overview of IRT models and discuss how they can be appropriately applied to clinical outcomes assessment in physical medicine and rehabilitation research and practice. Specifically, the following topics will be

discussed with empirical data: 1) fundamentals of IRT; 2) types of commonly-used IRT models; applications of IRT models (e.g., item reduction, differential item functioning and equating); and 4) new directions.

(#2855) Introduction to Qualitative Research Methods for Exploring Clinical Problems and Enhancing Practice

Date: 26 October

Time: 08:00 – 12:00

Faculty: Karen Besterman-Dahan; Lisa Brenner, PhD; Theresa T Crocker, PhD, MS, RD; Alison M. Cogan, MA, OTR/L

Diagnosis: Diagnosis-Independent

Focus area: Research Methods

DESCRIPTION: Qualitative research methods have much to contribute to theoretical and applied knowledge in rehabilitation. Attendees will be introduced to qualitative research methodology, with emphases on criteria for evaluating the rigor of published qualitative studies, the role of qualitative approaches in mixed methods research, and clinical applications of qualitative methods, such as implementation science. Interactive exercises will give attendees hands-on experience with some of the key concepts. Attendees will gain foundational knowledge about qualitative research, resources for applying it to evidence-based practice in their clinical areas, and appreciation for the many ways qualitative methods can enhance rehabilitation research and practice

MONDAY 26 OCT

INSTRUCTIONAL COURSES — AFTERNOON

(#2828) Translating Meaningful Physical Activity to the Home and Community

Date: 26 October

Time: 13:00 – 17:00

Faculty: Pamela Rogers Bosch, PT, DPT, PhD; Stephanie A. Combs-Miller, PT, PhD, NCS; Kristine K. Miller, PT, PhD; Marsha Neville, OT; Veronica T Rowe, MS, OTR/L; Kay Wing, PT, DPT, NCS, GCS

Diagnosis: Stroke

Focus area: Clinical Practice

DESCRIPTION: Adults with stroke-related impairments present a challenge to clinicians, who struggle with selecting interventions that meet the constraints of care delivery yet enhance function. Physical activity level is low for stroke survivors, which further impedes function. Integrating stroke patients into community programs that promote physical activity and enhance function is essential. This seminar will present novel interventions that can enhance patient function through meaningful engagement in clinic, home or community settings, and will guide clinicians in continuing a patient's rehabilitation in the home and community setting. Both clinical interventions and community programs for people with stroke-induced impairments will be discussed.

(#2949) An Introduction to Individual Growth Curve Analysis

Date: 26 October

Time: 13:00 – 17:00

Faculty: Allan John Kozlowski, PhD, B.Sc (PT)

Diagnosis: Diagnosis-Independent, Outcomes Research

Focus area: Research Methods

DESCRIPTION: As the maturation of longitudinal datasets in rehabilitation (e.g., the Spinal Cord Injury National Dataset and the Traumatic Brain Injury Model Systems National Dataset) continues, the need for rehabilitation researchers and clinicians to gain both a comprehensive and detailed understanding of the information contained within these datasets grows. One avenue towards satisfying this need is to gain an understanding of temporal change in outcome at the level of the individual. Such an objective is achieved through use of individual growth curve (IGC) analysis. Although this type of modeling has recently been applied in research involving both the Spinal Cord and Traumatic Brain Injury National Databases, this type of analysis is remains underutilized in the field of rehabilitation. Consequently, it is the goal of this course to offer IGC analysis training including providing familiarity with analytic software packages such as SAS, R, and HLM-7 to clinicians and researchers so that this powerful analytic technique can be incorporated into their statistical repertoires.

TUESDAY 27 OCT

INSTRUCTIONAL COURSES — FULL DAY

(#2810) Tailored Physical Training in Cognitive Behavioural Therapy for Chronic Back Pain: More Important Than You Think!**Date:** 27 October**Time:** 08:00 – 17:00**Faculty:** Jan-Paul van Wingerden, PhD; Wilma Tol, Therapist**Diagnosis:** Pain**Focus area:** Clinical Practice**DESCRIPTION:** Psychological aspects are predominant in rehabilitation treatment of chronic pain patients (CPP) with physical training only subordinate.

Scientific developments show motion patterns changes in CPP. These altered motor strategies can be considered compensation patterns. Increasing quantity of activity without correcting these compensations may be detrimental to intervention results.

Combining tailored physical training with CBT significantly enhances rehabilitation results.

This course describes a functional-anatomical model with allows to understand the physical compensation patterns in low back pain patients. It provides a comprehensive protocol integrating physical exercise and CBT. These basic principles will be trained in the final part of the course.

(#4532) How do I start, maintain or lead rehabilitation research as a practicing physician, clinician or clinical researcher?**Date:** 27 October**Time:** 08:00 – 17:00**Faculty:** Sue Ann Sisto, PT, MA, PhD, FACRM; Douglas I Katz, MD; Ross Zafonte, DO; Flora Hammond, MD; Michael Jones, PhD, FACRM; Ismari Clessen, RN; Brad Kurowski, MD**Diagnosis:** Other, Diagnosis-Independent**Focus area:** Research Methods**DESCRIPTION:** For the physician, clinician investigator or key research staff new to research, in improving their skills and understanding of the principles and practices used in the successful execution of patient-oriented research. Participants will gain insights to enhance their ability to participate in and perform qualify research according to existing regulations and guidelines. The course is open to physicians, nurses, therapists, and other healthcare professionals involved in or interested in clinical research. The program will share information and create an opportunity for dialogue amongst attendees and program faculty. The focus of the course will be how to balance clinical and research responsibilities.**(#2834) Models to Promote Best Practice in Interprofessional Care of Stroke Survivors and Their Caregivers****Date:** 27 October**Time:** 08:00 – 17:00**Faculty:** Tamilyn Bakas, PhD, RN, FAHA, FAAN; Barbara Lutz, PhD, RN, CRRN, APHN-BC, FAHA, FA; Elaine Tilka Miller, PhD, RN, CRRN, FAAN, FAHA; kristen Lee Mauk, PhD, DNP, CRRN, GCNS-BC, GNP-BC,**Diagnosis:** Stroke**Focus area:** Clinical Practice**DESCRIPTION:** Stroke survivors and their caregivers must learn to cope with many changes after stroke. Since most survivors are cared for at home, family caregiving must be addressed by the entire rehabilitation team. To provide interprofessional, evidence-based care for the family affected by stroke, an examination of models to guide interventions is essential. The purpose of this instructional course is to present models that can guide interventions in the care of stroke survivors and caregivers. Models for: 1) assessing stroke caregiver readiness post-discharge, 2) phases of stroke recovery, 3) the survivor-caregiver dyad, and 4) best evidence for reducing stroke and risk factors will be presented.

(#2840) Building Capacity: Formal Introduction and Implementation of Recommendations for the Management of Persons with DOC

Date: 27 October

Time: 08:00 – 17:00

Faculty: Risa Nakase-Richardson, PhD; John Whyte, MD, PhD; Joseph Giacino, PhD, FACRM; Douglas I Katz, MD; Brian David Greenwald, MD; Mark Sherer, PhD; Ross Zafonte, DO; Alan Weintraub, M.D.; Flora Hammond, MD; Nathan Zasler, MD; Sunil Kothari; David B. Arciniegas, MD

Diagnosis: Brain Injury

Focus area: Clinical Practice

DESCRIPTION: The need for increasing workforce capacity in the overall management of DOC populations is increasing. Rehabilitation experts have developed minimal competency guidelines for the rehabilitation of persons with DOC yet educational opportunities are not commonly available. Therefore the purpose of this course is to provide beginner and intermediate content in the assessment, treatment, and ethical management of individual patients with severe brain injury. Content areas include: a) accurate diagnosis, b) empirically-determined prognosis, c) unique medical management, d) rehabilitation treatment content and outcome monitoring, e) caregiver education and training, f) development of long-term care plans, and g) management of common ethical issues.

TUESDAY 27 OCT

INSTRUCTIONAL COURSES — MORNING

(#2931) An Evidence-Based Approach to Assessment and Treatment of Concussion and mild TBI

Date: 27 October

Time: 08:00 – 12:00

Faculty: Barry Willer, PhD; John Leddy, M.D.; John Ross Rizzo, MD; Margaret Waskiewicz, MS, OTR/L; Michael J Ellis, MD FRCS; Mara Sproul; Jennifer Lynn Fay, PT, DPT, NCS

Diagnosis: Brain Injury, Pediatric

Focus area: Clinical Practice

DESCRIPTION: Research has demonstrated that concussed individuals have significantly altered physiology. The presenters represent researchers/clinicians that have demonstrated dysautonomia, dysregulation of CBF, oculomotor and vestibular dysfunction. The primary focus will be translation of this research into practice. The presenters describe a physical examination process that represents evidence based as opposed to symptom-based evaluation. They will demonstrate the use of dynamic testing to reveal physiological, oculomotor, and vestibular dysfunction as part of accurate diagnosis. They will also describe a dynamic and evidence based approach to treatment. Presenters will describe the process and results of systematic return to sport and return to learn.

(#2822) How Health Services Research can Ensure Rehabilitation Aligns With the Objectives of Healthcare Reform

Date: 27 October

Time: 08:00 – 12:00

Faculty: Natalie E Leland, PhD, OTR/L, BCG, FAOTA; Pamela Roberts, PhD, OTR/L, SCFES, FAOTA, CPHQ; Anne Deutsch, RN, PhD; Timothy Reistetter, OTR, PhD; Trudy Mallinson; Nancy A. Flinn, OTR/L; James Graham, PhD, DC; Jason M. Beneciuk, PT, PhD, MPH; Barbara Gage, PhD

Diagnosis: Other, Diagnosis-Independent

Focus area: Other

DESCRIPTION: Policy makers, payers, and healthcare administrators are relying on population-based health services research to inform policy and decisions about service delivery. To this end, the objective of this course is to elucidate how health services research can inform rehabilitation research, clinical innovation, quality improvement, and health policy. This panel discussion will describe the concept of population-based health services research using large databases, provide examples pertinent to rehabilitation, and draw on small group activities to facilitate the application to clinical practice.

(#3235) Examination and Treatment Strategies for Patients Post Cancer Treatment Involving the Head and Neck

Date: 27 October

Time: 08:00 – 12:00

Faculty: Linda Gonzalez, PT, MSPT, CST; Sarah Todd, PT, DPT; Sharlynn Tuohy, PT, DPT, MBA

Diagnosis: Cancer, Pain

Focus area: Clinical Practice

DESCRIPTION: Patients who undergo cancer treatment involving the head and the neck region have unique and specific deficits during and following treatment. The purpose of this course is to identify examination strategies and intervention techniques therapists perform on patients post treatment. This course will review the literature regarding rehabilitation specific issues following cancer treatment in this population. This program will establish an examination template and examination strategies that can be used to identify functional limitations and impairments. Lastly, the course instructors will provide a hands-on lab teaching several intervention strategies for patients whose cancer treatments involve the head and neck.

(#3221) Diversity of Outcomes: From Person-Centered to International Neurorehabilitation Perspectives

Date: 27 October

Time: 08:00 – 12:00

Faculty: Gordon J Horn, Ph.D.; Frank David Lewis, Ph.D.; James F Malec, PhD; Paula Kersten, PhD; Christina Papadimitriou, PhD; Cynthia R. O'Donoghue, PhD, CCC; Victoria Harding, PhD; Robert Russell, BHA

Diagnosis: Brain Injury, Other, International

Focus area: Outcomes Research

DESCRIPTION: Rehabilitation outcomes are complex to achieve best practices. Measures such as the Glasgow Coma Scale, Glasgow Outcome Scale, and the Functional Independence Measure have been used for acute care documentation, while the Mayo Portland Adaptability Inventory-4 has been used to measure post-hospital outcomes. This presentation will review outcomes analyses, measurement selection, timing of outcome measurement, and managing data systems. Statistical approaches will address research and clinical questions. Meeting CARF standards with outcomes analyses will be discussed. Delineation of differences between quantitative and qualitative outcomes, and person-centered and group trends. Panel discussion will be held at the conclusion.

(#2956) Intrathecal Baclofen Therapy: Developing a Multispecialty Program and its Effectiveness in Patient Care

Date: 27 October

Time: 08:00 – 12:00

Faculty: Fatma Gul, MD; Rez Farid, MD; Karen McCain, PT, DPT, NCS; Patricia Krohn, NP; Stuart Yablon, M.D.; Louis Anthony Whitworth, M.D.; Patricia Odom Gordon, MSN, MPH, RN, FNP-BC; Benjamin Ngocquang Nguyen, MD; Sandra Hall, PT; Joe Urquidez, MD

Diagnosis: Other, Diagnosis-Independent

Focus area: Technology, Clinical Practice

DESCRIPTION: Intrathecal baclofen in the management of spasticity: challenges and opportunities, developing a multidisciplinary program to improve patient outcome

TUESDAY 27 OCT

INSTRUCTIONAL COURSES — AFTERNOON

(#2835) Multidisciplinary Approach for Head and Neck Cancers

Date: 27 October

Time: 13:00 – 17:00

Faculty: Naghma Ahmed, PT, CDT; Shari Frankel, MBA, PT, ATC; Jennifer Hughes, MOT; Charles Leo Schreiner, IV, MS, RN, ACNP-BC; Sarah Soluren, MPT; Margaret K Tiner, MS, CCC/SLP, BCS-S

Diagnosis: Cancer

Focus area: Clinical Practice

DESCRIPTION: This presentation will provide an overview of the head and neck cancers with diagnosis, treatment options and surgical interventions. An emphasis will be placed on the multidisciplinary approach to the complex medical and physical deficits associated with neck dissection and radiation fibrosis. The importance of the interdisciplinary team approach and coordination of care among clinicians to address the myriad of side effects of the treatment process will be reviewed. Current research and programs at MD Anderson Cancer Center and University of Michigan will be presented to provide evidence for best practice for the rehabilitation of head and neck cancers.

(#2846) Military Culture and Deployment-Related Mental Health Affecting Veterans and Their Families

Date: 27 October

Time: 13:00 – 17:00

Faculty: Treven Curtis Pickett, PsyD, ABPP

Diagnosis: Brain Injury, Other, Clinical Practice

Focus area: Military

DESCRIPTION: For many medical professionals understanding the unique culture of and issues relating to service members and their families remains an area of educational need. This instructional course aims to enhance awareness within the field of rehabilitation medicine of the idiosyncratic elements of military culture by exploring the unique stressors associated with OEF/ OIF/OND conflicts, as well as culturally sensitive assessment and intervention techniques to consider when working with service members and their families.

(#2969) Review and Refinement of Exercise Guidelines for People With Spinal Cord Injury and Multiple Sclerosis

Date: 27 October

Time: 13:00 – 17:00

Faculty: Deborah Backus, PT, PhD; Nicholas Evans, MHS, ACSM-CES; Audrey Hicks, PhD; Katie Feltman

Diagnosis: Spinal Cord Injury, Neurodegenerative Disease, Clinical Practice

Focus area: Clinical Practice

DESCRIPTION: This program will provide an overview of current exercise guidelines for people with physical disability, and then a discussion of the ways in which the guidelines are inadequate for subpopulations of people with SCI and MS. The remainder of the session will focus on preliminary efforts to develop a white paper related to exercise guidelines for people with SCI or MS, and identifying research questions for future studies.

(#3231) Developing High-Quality Practice Guidelines

Date: 27 October

Time: 13:00 – 17:00

Faculty: Ronald Thomas Seel, PhD, FACRM; Gary Gronseth, M.D., FAAN; Jacob Kean, PhD, CCC-SLP; Marcel P.J.M. Dijkers, PhD

Diagnosis: Diagnosis-Independent, Research Methods

Focus area: Clinical Practice

DESCRIPTION: This course, co-sponsored by the American Academy of Neurology Guideline Development, Dissemination, and Implementation Committee and the ACRM Evidence and Practice Committee, presents “how to” information that will help clinicians and researchers evaluate evidence from rehabilitation studies and translate evidence into clinical practice recommendations. A primary aim is to de-mystify evidence-based medicine concepts and equip participants with the knowledge and tools needed to translate evidence (e.g., a published article or clinical trial data) into action (e.g., choosing and implementing a specific intervention). This course will use brief didactic presentations and emphasize applying new knowledge in small work groups.

(#3677) Intensive Activity-Based Rehabilitation for Pediatric Spinal Cord Injuries and Rare Neurological Disorders

Date: 27 October

Time: 13:00 – 17:00

Faculty: Kaitlin MacDonald, MOT, OTR/L; Meredith Budai; Julie Cagney, PT, DPT; Courtney Porter

Diagnosis: Spinal Cord Injury, Other, Clinical Practice

Focus area: Technology, Pediatric, Neuroplasticity

DESCRIPTION: Spinal cord injury and rare neurological disorders in pediatrics have lifelong consequences for children. The goal of therapy is to facilitate “normal” neurodevelopmental milestones. By providing input above and below the level of injury, activity based rehabilitation promotes neural recovery and reorganization while offsetting chronic complications, improving function, and facilitating achievement of milestones. Rehabilitation professionals must work as a team to adapt services and equipment to meet the needs of pediatric patients. This presentation illustrates the first steps in a lifelong activity-based rehabilitation program to facilitate ongoing development, minimize complications and help each child achieve his or her maximum potential.

CORE CONFERENCE

DAY #1 WED 28 OCT

(#1001) PLENARY I: The Healthcare Quality Landscape: Role of Rehabilitation Medicine

Date: 28 October

Time: 08:15 – 10:15

Faculty: Helen Burstin, MD, MPH

(#2791) Palliative Care and Rehabilitation: Complimentary and Overlapping Domains

Date: 28 October

Time: 10:45 – 12:00

Faculty: Brian McMichael, M.D.; Annas Aljassem, M.D.; Christine Interrante, PT, DPT

Diagnosis: Cancer, Neurodegenerative Disease, Policy

Focus area: Clinical Practice

DESCRIPTION: Palliative care and rehabilitation care are complementary and often overlapping. The palliative care approach seeks to manage symptoms and improve quality of life. This mission can entail seeking to improve function. It is often explicitly applied when cure is not or cannot be sought. At the same time, rehabilitation clinicians seek to improve their patients' function and quality of life. This mission often entails addressing and improving barriers to rehabilitation progress, including pain. Many rehabilitation clinicians work with patients whose underlying conditions are static, cannot be cured, may be progressive, and even fatal. This symposium seeks to explore and develop the interplay between rehabilitation care and palliative care. Participants will come away with greater recognition of the palliative care they already provide. They will also be introduced to ways that palliative care indications, interventions and treatments can help improve rehabilitation outcomes. As a result, they will be better able to tailor their rehabilitation care to meet the needs of patients with life-limiting/life-threatening conditions, including the goal of decreasing caregiver burden. The evidence base will be discussed for the palliative care indications, interventions and treatments covered. The various scopes of practice and expertise among the interdisciplinary rehabilitation team will be considered.

(#2919) Progress and Report of the ACRM Outcome Measurement Networking Group (OMNG) Applied Cognition Task Force (MNG ACTF)

Date: 28 October

Time: 10:45 – 12:00

Faculty: Allen Heinemann, PhD; Amy A Herrold, PhD; Sonya Kim, PhD; Patricia Cristine Heyn, PhD; Carrie A. Ciro, PhD, OTR/L, FAOTA

Diagnosis: Brain Injury, Other, Clinical Practice

Focus area: Outcomes Research

DESCRIPTION: There is considerable interest in cognitive outcomes as a way to measure treatment response among TBI and geriatric patients. The goals of the ACRM MNG ACTF are to identify major gaps in the cognitive outcomes literature and generate reports on the state of research related to cognitive dysfunction populations. The TBI Workgroup is conducting a comprehensive overview of systematic reviews that evaluates the impact of pharmacological treatments on behavioral, psychological and adverse events outcomes. The Geriatric Workgroup is evaluating the effects of brain gaming



(i.e. videogaming) interventions on older adults' cognitive functioning. Preliminary results from both workgroups will be presented.

(#2970) Music of Neurorehabilitation: From Research to Clinical Practice in the Field of Neurologic Music Therapy

Date: 28 October

Time: 10:45 – 12:00

Faculty: Sarah Thompson, MM, MT-BC, CBIS; Brian Harris, MA, MT-BC, NMT/F; Amy Marroquin, MT-BC

Diagnosis: Brain Injury, Stroke, Neuroscience

Focus area: Clinical Practice

DESCRIPTION: This course will present the evidence based practice of Neurologic Music Therapy (NMT) as it applies to sensorimotor, speech and language, and cognitive goals within a neurorehabilitation setting. The panel will consist of 3 Neurologic Music Therapists. The neuroscientific foundation of NMT interventions will be discussed as well as how they are utilized individually and in co-treatment with other disciplines. The presentation will include clinical scenarios and video, and then the panel will discuss implementation and outcomes. Interactive demonstrations will also be included.

(#2962) RehabMaLL Community of Practice: Sharing Knowledge to Improve Social Participation for People Living With Disabilities

Date: 28 October

Time: 10:45 – 12:00

Faculty: Dahlia Kairy, pht., Ph.D.; Barbara Mazer, BSc (OT), Ph.D.; Andréanne Guindon, M.A.

Diagnosis: Diagnosis-Independent

Focus area: Other

DESCRIPTION: Communities of practice (CoP) are "groups of people who share a concern, a set of problems, or a passion about a topic, and who deepen their knowledge and expertise in this area by interacting on an ongoing basis" (Wenger, 1996). CoPs are increasingly used to facilitate knowledge sharing between stakeholders. The symposium will present results from a study, the RehabMaLL CoP, which includes members from research, clinical, community and governmental sectors interested in social participation of people living with disabilities. The relevance of CoPs for fostering partnerships, as well as knowledge translation and creation will be discussed.

(#2998) The Use of Technology to Improve the Rehabilitation of Persons With Disabilities: How do We Know This Stuff Works?

Date: 28 October

Time: 10:45 – 12:00

Faculty: Gary R Ulicny, PhD; Achilleas A. Dorotheou; Michael Jones, PhD, FACRM; Kent Riddle; Michael Choo, MD MBA CIME FACEP FAAEM

Diagnosis: Diagnosis-Independent, Clinical Practice

Focus area: Technology

DESCRIPTION: New technologies are flooding the field of physical rehabilitation. In many cases the new technologies, while they are approved, have not conducted sufficient efficacy studies to determine what their benefits are and which patients may benefit from the technology. This symposium will assemble a group of leading experts to examine an evidence-based approach for adopting a new technology in the field of rehabilitation.

(#3008) Advanced Longitudinal Models in Rehabilitation: From Research to Practice

Date: 28 October

Time: 10:45 – 12:00

Faculty: Allan John Kozlowski, PhD, B.Sc (PT); Kristen Dams-O'Connor, PhD; Janet P. Niemeier, PhD, ABPP (RP); Mark Sweatman, Ph.D., M.B.A.

Diagnosis: Brain Injury, Diagnosis-Independent, Outcomes Research

Focus area: Research Methods

DESCRIPTION: Many important rehabilitation outcomes continue to change throughout the rehabilitation process as well as at follow up time points, yet common outcome assessment methods continue to examine point-in-time events. More recently, researchers have begun to apply advanced longitudinal methods to facilitate understanding of the progression of traumatic brain injury (TBI) and spinal cord injury (SCI) outcomes over time. This symposium will present and describe the



application and utility of advanced longitudinal analyses in clinical and research settings. We present research that examines both group and individual level change on a number of outcomes germane to improving understanding of the entire rehabilitation process—where, when pertinent—results are presented through use of user friendly computer generated interactive tools.

(#3038) Nursing Paradigm Shifts: How to Incorporate Patient Centered Care Into the Education Process?

Date: 28 October

Time: 10:45 – 12:00

Faculty: Julie Gassaway, RN MS; Tammy Young, RN CRRN; Bevin Peterson, MS RN CRRN; Peter Anziano

Diagnosis: Spinal Cord Injury, Outcomes Research

Focus area: Clinical Practice

DESCRIPTION: Patient-centered spinal cord injury (SCI) education classes move away from didactic lectures and emphasize immediate “need to know” information. ‘Textbook’ information is archived for later access and classes are ‘taught’ by peers. Nurses ensure appropriate content is infused into peer-directed problem solving discussions aimed to increase self management capabilities. We will demonstrate components of a peer-directed bladder management class. Points of engagement in the revised content/delivery classes were significantly greater ($p < .001$) compared to traditional style classes for non-cohort (same content, different participants) and for cohort (same participants, different content) analyses. Patients report gaining more information from and participating more actively in revised classes. Replication will be discussed.

(#3099) Community Reintegration of Veterans With TBI: Implications for Practice

Date: 28 October

Time: 10:45 – 12:00

Faculty: Christina (Tina) Dillahun-Aspillaga, PhD, CRC, CVE, CLCP, PVE, CBIST; Margaret Schmitt, Ph.D.; Lisa Ottomanelli, PhD; Gail Powell-Cope, PhD, ARNP, FAAN

Diagnosis: Brain Injury, Other

Focus area: Military

DESCRIPTION: Traumatic brain injuries (TBIs) are common among members of the Armed Forces serving in recent conflicts. TBIs frequently result in consequences that affect community reintegration (CR). This symposium includes three presentations that discuss CR outcomes in Veterans and service members with TBI. 1) Relationships among injury characteristics, demographic variables, physical functioning, pre- and post-injury mental health functioning, and social participation in Veterans and service members with head injuries: A VA TBIMS Study 2) Return to Competitive Employment within 1 Year Post-Injury: A VA TBIMS Study 3) Employment among Veterans with co-morbid SCI and TBI: Incidence and Implications for Clinical Practice

(#3104) Biopsychosocial Considerations in Conceptualizing and Treating Psychiatric Comorbidities Among Patients With Chronic Pain Syndrome

Date: 28 October

Time: 10:45 – 12:00

Faculty: Stacey Sandusky, PhD; Nicolle Angeli; Rebecca Martin, DPT

Diagnosis: Pain

Focus area: Clinical Practice

DESCRIPTION: The biopsychosocial model for conceptualizing and treating chronic pain syndrome and psychiatric co-morbidities in a rehabilitation setting will be discussed within this symposium. Integrated treatment addressing the shared processes among co-occurring chronic pain syndrome and psychosocial conditions is warranted for most effectively managing these complex conditions and yielding the most favorable treatment outcomes. An overview of the evidence-based chronic pain and emotion management strategies employed by clinicians to facilitate rehabilitative efforts among this challenging patient population will be provided.

(#3108) Specialized Stroke Rehabilitation: A Multicultural Multicenter Study

Date: 28 October

Time: 10:45 – 12:00



DESCRIPTION: Sunnaas International Networks Stroke Study

DESCRIPTION: This session will describe three community-based models for wellness programming for people with neurodegenerative diseases. The models include the Rehabilitation and Wellness Program at the Shepherd Center, Rock Steady Boxing in Indianapolis and a new training paradigm for fitness professionals from MDT Education Solutions. These models demonstrate the contributions of specialty trained fitness professionals providing services in collaboration with physical therapists and researchers for consultation. Research on exercise benefits will be presented along with discussion of the implications for overcoming exercise barriers. This session will incorporate videos, recommendations for implementation, and a discussion of the significance for future research.

DESCRIPTION: This symposium will present studies of computerized cognitive interventions with individuals with TBI that demonstrate improvements ranging from low-level and high-level cognitive abilities. The first study will show the benefits of auditory processing training, demonstrating neuroplastic white matter changes. The second study will show the benefits of a visual processing training, resulting in improvements in basic and high-level visual functions. The third study will present the applicability and the behavioral and neural effects of internet-based executive functions training. The fourth study will present the effects of training executive functions with motion-based adaptive video games that are designed for cognitive training. A discussion of the opportunities and challenges in integrating such methods in clinical practice will close the symposium.

DESCRIPTION: This symposium presents an integrative treatment approach for improving executive functioning (EF) following brain injury (BI), using empirically-based interventions: goal setting (Goal Attainment Scaling: GAS), problem-solving (SWAPS), and emotional regulation (EmReg). EF deficits are among the most disabling consequences of BI and many other neurological conditions, and it is an obstacle to social and vocational recovery. The first part will provide the theoretical and empirical basis of the interventions, and outcomes from two randomized controlled trials. The next component of the symposium will involve experiential review of GAS, SWAPS, and EmReg, including case examples.

Time: 10:45 – 12:00

DESCRIPTION: Individuals undergo aggressive treatment for head and neck cancer, including surgery, chemotherapy, and radiation therapy. These individuals require a multidisciplinary team of professionals to identify impairments and refer them to rehabilitation services in a timely manner. Although scarce, there are several studies supporting the use and safety of physical therapy interventions in this population. This session aims to review current literature surrounding physical therapy interventions for selected impairments, provide several treatment strategies using case-based examples, and discuss topics requiring further research in this population. The selected impairments will include postural dysfunction, trismus, cervicocephalic proprioception and lymphedema.

DESCRIPTION: This symposium will provide an overview of neuroplastic processes related to neurorehabilitation of motor and cognitive impairments. The principles of neuroplasticity will be illustrated with evidence from ongoing research developing treatments that apply principles of motor learning and reward. To further expand neurorehabilitation boundaries, pharmacological, biological and electrophysiological research currently being conducted to manipulate neuroplasticity and enhance neurorehabilitation will also be presented. The preliminary research findings will illustrate how barriers and facilitators of plasticity can be manipulated to enhance function and how differences in plasticity according to gender and time after injury inform development of these treatments.

DESCRIPTION: Not available

1. Catechol-O-Methyltransferase Genotypes and Parenting Influence Long-term Executive Functioning after Early Childhood Traumatic Brain Injury — Brad Kurowski
2. Transition From Hospital to School Following Pediatric ABI: A Systematic Review of Interventions — Laura Hartman
3. Intraventricular Hemorrhage On Early CT Predicts Poorer Short- and Long-term Outcome in Moderate to Severe Traumatic Brain Injury — Robert Kowalski
4. Age-Specific Predictors of Global Function Among Older Adults With Traumatic Brain Injury — Christina Baker-Sparr

DESCRIPTION: Not available

(#2793) Rehabilitation of the Chronic Graft Versus Host Disease Patient: Clinical Management and the Need for Further Research**Date:** 28 October**Time:** 14:00 – 15:15**Faculty:** Sean Smith, MD; Jack Brian Fu, M.D.**Diagnosis:** Cancer, Outcomes Research**Focus area:** Clinical Practice**DESCRIPTION:** This symposium describes the clinical presentation and management of physical and cognitive impairments as it relates to chronic graft versus host disease, a common complication after bone marrow transplantation. A review of the literature and strategies for future research will also be discussed.**(#3026) Application of Outcome Measures for Evidence-Based Quality Improvement Initiatives****Date:** 28 October**Time:** 14:00 – 15:15**Faculty:** Gerard Brennan, PT, PhD; Chris MacDonell; Vishwa Raj, MD; Linda J Resnik, PT, PhD; Mary Stilphen, PT, DPT**Diagnosis:** Diagnosis-Independent, Clinical Practice**Focus area:** Outcomes Research**DESCRIPTION:** This symposium addresses methods to collect standardized patient outcomes data and use this information to improve quality of care. Panelists will talk about the importance of evidence-based quality improvement work, and highlight major initiatives in rehabilitation outcome measurement collection. They will share insights and tips from successful models of outcomes-driven quality improvement initiatives. Participants will speak about their experiences and those of their health care institutions in planning data collection, selecting outcome metrics, building a data system, standardizing data collection, tracking outcomes, accessing and using their data, to inform data driven quality improvement initiatives.**(#3091) Non-Traditional Community-Based Group Exercise for Individuals With Parkinson Disease****Date:** 28 October**Time:** 14:00 – 15:15**Faculty:** Stephanie A. Combs-Miller, PT, PhD, NCS; Madeleine Eve Hackney, PhD**Diagnosis:** Neurodegenerative Disease, Other, Diagnosis-Independent**Focus area:** Clinical Practice**DESCRIPTION:** Participants will be introduced to current evidence delineating the benefits of community-based, non-traditional group exercise programs for individuals with Parkinson disease (PD). Approaches such as boxing, dance, and Tai Chi will be discussed including how they impact individuals with PD across the spectrum of disability. Social and motivational aspects of community-based, group exercise approaches will also be discussed. Practical information will be provided regarding the incorporation of said approaches into clinical practice. This session will include videos and demonstrations to illustrate the various approaches along with interactive discussion with participants about their own experiences working with individuals with PD.**(#3111) Chronic Pain: Practical Tools for Patient Management****Date:** 28 October**Time:** 14:00 – 15:15**Faculty:** Sarah Wenger, PT, DPT, OCS; Roberta Waite, EdD CNS-BC; Joseph Rubertone, MS, MPT, Ph.D**Diagnosis:** Pain**Focus area:** Clinical Practice**DESCRIPTION:** A growing body of research has improved our understanding of chronic pain. Recent research in physical, mental and public health disciplines has given us insight into who is at risk for chronic pain and what models of care are likely to be most effective. This presentation proposes a self-management model where the patients treat themselves and healthcare providers serve as the consultants and educators that allow them to do so. This pragmatic, patient focused approach allows us to achieve tangible goals in the face of a highly variable and complex problem set.

(#3127) Technology for Upper Extremity Restoration and Rehabilitation: The Tools We Have and What is Needed**Date:** 28 October**Time:** 14:00 – 15:15**Faculty:** Jennifer French, MBA; Therese E Johnston, PT, PhD, MBA; Mike Scheppers, MS, OTR/L; Stacey Woods, OTR/L**Diagnosis:** Other, Diagnosis-Independent, Clinical Practice**Focus area:** Technology

DESCRIPTION: For those with neurological conditions such as stroke, multiple sclerosis, spinal cord injury and traumatic brain injury, upper extremity paralysis can limit the ability to perform activities of daily living. Technology to assist with these daily tasks or to augment the rehabilitation process has advanced for clinical availability. This session will review the rehabilitation technology tools, the research to support them, the translation of the technology and the implementation of clinical programming. A panel discussion will provide various perspectives of technology in clinical case review for a variety of neurological patients with upper extremity deficits.

(#3151) Venous Thromboembolism (VTE) in Acute Inpatient Rehabilitation**Date:** 28 October**Time:** 14:00 – 15:15**Faculty:** Amy H Ng, MD, MPH; Thein H. Oo, M.D.; Satinderpal Dhah, D.O.**Diagnosis:** Cancer, Research Methods**Focus area:** Clinical Practice

DESCRIPTION: Venous thromboembolism (VTE) prophylaxis and treatment in cancer patients presents a major challenge in daily practice. Patients with cancer have a 4 to 7 fold higher incidence than non-cancer patients and even with anticoagulation treatment, remain at greater risk for recurrent VTE event than their non-cancer counterpart. Treatment with anticoagulation also poses greater side effects, including bleeding. A recent study of the rehabilitation unit at UT MD Anderson's cancer patients will be discussed. This symposium will also provide an overview of the strategies clinicians can use when deciding on anticoagulation prevention and weigh the risks versus benefits.

(#3162) Sheldon Berrol Memorial Chautauqua: A Hands-On Look at Research Ethics Concerning Patients with Severe Traumatic Brain Injury and Disorders of Consciousness**Date:** 28 October**Time:** 14:00 – 15:30**Faculty:** Joseph Giacino, PhD, FACRM; Lynne Brady Wagner; Cecilia Carlowicz, B.A., CCRC**Diagnosis:** Brain Injury, Research Methods**Focus area:** Policy

DESCRIPTION: Ethical challenges are replete in clinical and research contexts for patients who can no longer speak for themselves. Case vignettes will showcase actual ethical quandaries encountered in Disorders of Consciousness (DoC) research. Participants will be engaged in a decision-making exercise, and ethical paradigms and effective approaches to these challenges will be discussed.

(#3175) Emerging Practices in Geriatric Telerehabilitation: An Update on Evidence for Effectiveness and Implementation of Interventions for Older Adults**Date:** 28 October**Time:** 14:00 – 15:15**Faculty:** Emily Joan Nalder, PhD; Helen Hoenig, MD, MPH; Deirdre Dawson, PhD, OT Reg (Ont.); Nancy Latham, PhD PT**Diagnosis:** Other, Technology**Focus area:** Geriatric

DESCRIPTION: Telerehabilitation is a key health initiative. Accumulating evidence suggests that the use of internet and communication technologies in rehabilitation may be beneficial for older adults, promoting self-management of chronic conditions and aging in place. Video-conferencing, mobile apps, and virtual reality are examples of new technologies allowing individuals to consult with healthcare providers remotely, self-monitor health behaviors, and participate in rehabilitation from their own home. This presentation will review the evidence for three interventions in Canada and the USA; cognitive rehabilitation delivered through video-conferencing; mobile-technologies in rehabilitation for people with Parkinson's Disease, and telerehabilitation within the US Veterans Health Administration.



Date: 28 October
Time: 14:00 – 15:15
Faculty: Sonja Blum; Argye Hillis, MD; Randolph J Nudo, Ph.D., FAHA
Diagnosis: Brain Injury, Stroke, Neuroscience
Focus area: Neuroplasticity
DESCRIPTION: Neuroplasticity Following Brain Injury

Date: 28 October
Time: 14:00 – 15:15
Faculty: Susan Charlifue, PhD, FISCoS, FACRM; Sue Ann Sisto, PT, MA, PhD, FACRM
Diagnosis: Spinal Cord Injury, Diagnosis-Independent, International
Focus area: Clinical Practice
DESCRIPTION: The symposium introduces the audience to the International Spinal Cord Injury Data Sets and the NINDS Common Data Element project related to those data sets. Attendees have the opportunity to learn about an individual data set development process and will be instructed on validation and utilization of the data sets in both clinical and research settings.

Date: 28 October
Time: 14:00 – 15:15
Faculty: Anne Deutsch, RN, PhD; Allen Heinemann, PhD; Melvin Ingber, PhD; Laurie Coots; Poonam Pardasaney, DPT, MS, ScD
Diagnosis: Diagnosis-Independent, Policy
Focus area: Outcomes Research
DESCRIPTION: The Inpatient Rehabilitation Facility Quality Reporting Program began data collection in 2012. Currently, there are 7 quality measures finalized in the IRF QRP, including several IRF-acquired infections, and a post IRF discharge readmission measure. This symposium will describe the process of developing quality measures and describe: 1) analyses involved in developing the post IRF discharge readmission quality measure and 2) research examining the development of quality measures using patient-reported data.

(#3268) Delivering High Quality Cancer Rehabilitation Care to Children With Hematologic/Oncologic Diagnoses: A Paradigm of Co-Management

Date: 28 October
Time: 14:00 – 15:15
Faculty: Christian Niedzwecki, D.O., MS, FAAPMR, FAAP; Mona D. Shah, MD, MS, FAAP
Diagnosis: Brain Injury, Cancer, Clinical Practice
Focus area: Pediatric
DESCRIPTION: The numbers of pediatric hematology/oncology survivors continue to increase with vast improvements in life-saving therapies. In addition to the increasing efficacy of modern treatments, functional and neurocognitive deficits are common sequelae. Research on service line efficacy in cancer patients (i.e., physical therapy, occupational therapy, and neuropsychological therapy) have been reported in both the adult and pediatric populations. In particular, acute, comprehensive, integrated inpatient rehabilitation for adults with cancer has been shown to be of significant benefit. This symposium will discuss an overview of our model of acute inpatient rehabilitation in children with hematologic/oncologic diagnoses, covering management of acute acquired brain injury in the setting of 1) a posterior fossa tumor and 2) a traumatic brain injury complicated by a congenital bleeding disorder.

Date: 28 October
Time: 14:00 – 15:15
Faculty: Leora R. Cherney, PhD; Lisa Tabor Connor, PhD, MSOT; Marjorie Nicholas, PhD CCC-SLP
Diagnosis: Stroke
Focus area: Technology, Clinical Practice

DESCRIPTION: We highlight three issues that impact scientific inquiry and clinical practice in aphasia rehabilitation. First, there is little consensus on how much treatment is optimum. We define essential components of treatment intensity and discuss difficulties in tracking intensity for complex therapies. Second, we highlight the importance of multi-disciplinary collaborations that leverage the expertise of different professionals, and the barriers and facilitators to their implementation in aphasia rehabilitation. Third, we discuss reasons for the underrepresentation of persons with aphasia in clinical stroke studies and provide recommendations for selection and administration of tools to screen for study eligibility and to measure outcomes.

(#1011) Oral Presentation of Scientific Papers - Spinal Cord Injury Topics

Date: 28 October

Time: 14:00 – 15:15

Faculty: Feng-Hang Chang, ScD; Hannah Warner Mercier, MS, OTR/L; Jean Hsieh, PhD; Nir Barak, M.D.

1. Measurement Properties of a Modified Measure of Participation for Persons with Spinal Cord Injury — Feng-Hang Chang
2. Positioning And Pressure Relief After Spinal Cord Injury: A Systematic Review — Jean Hsieh
3. Rehospitalization is Associated with Persistent Negative Effects among Adults with Spinal Cord Injury — Hannah Mercier
4. The Effect of a Topical Alpha-Agonist On Fecal Incontinence in Spinal Cord Injury Patients — Nir Barak

(#2972) The Assessment and Treatment of Real-Life Cognitive and Socio-Emotional Functioning: Past, Present, Future

Date: 28 October

Time: 16:15 – 17:30

Faculty: Dawn Neumann, PhD; Daniel Krawczyk, Ph.D.; Lori G. Cook, Ph.D., CCC-SLP; Kathleen Bell, MD; Sandi Chapman, Ph.D.

Diagnosis: Brain Injury, Stroke, Technology

Focus area: Clinical Practice

DESCRIPTION: This symposium will cover some of the newly emerging state-of-the-science, evidence-based assessment and treatment procedures for cognitive, social, and emotional deficits after brain injury. The wide range of technologies to be described have broad application to the brain injury population at large, with presentations spanning all severities, age groups, as well as both civilian and military persons. Specific presentations include discussion of novel virtual reality platforms to assess real-world executive and social functioning, tele-delivery cognitive training methods, computer-based emotion perception training, and telephone-based telehealth intervention for self-management and problem solving.

(#3013) International Activities to Promote Implementation of Standardized Measures in Medical Rehabilitation Practice

Date: 28 October

Time: 16:15 – 17:30

Faculty: Allen Heinemann, PhD; Coen A.M. van Bennekom, MD, PhD; Marcel WM Post, PhD; Jan E. Nordvik

Diagnosis: Diagnosis-Independent, International

Focus area: Outcomes Research

DESCRIPTION: Rehabilitation clinicians do not consistently use standardized measures to monitor patient progress beyond what is mandated by payers. Thus, clinicians and facilities lack information on patient improvement, which limits opportunities to identify monitor patients' progress, develop norms, and implement quality improvement activities. This symposium explores four international approaches to promoting use of standardized measures in rehabilitation practice. Speakers from the Netherlands, Norway and the United States will describe efforts to promote adoption of standardized measures in rehabilitation practice settings.

(#3109) Brain Injury in the Criminal Justice System: Outcomes for Screening and Rehabilitation

Date: 28 October

Time: 16:15 – 17:30

Faculty: Drew A Nagele, PsyD, CBIST; MJ Schmidt, MA, CBIS

Diagnosis: Brain Injury, Other, Pediatric

Focus area: Clinical Practice



DESCRIPTION: This presentation will describe demonstration projects carried out at a State Correctional Institution for Adults and at Juvenile Detention Centers, aimed at screening for acquired brain injury and providing NeuroResource Facilitation to connect those with brain injury to brain injury rehabilitation services available in the community. A powerpoint presentation will be given with charts and statistics about the findings of the brain injury screenings, case presentations, and description of the types of brain injury resources with which these inmates, ex-offenders, and juvenile detainees were provided.

(#3120) New Discoveries Informing Care for Mobility Limited Older Adults: The Boston RISE Cohort Study

Date: 28 October

Time: 16:15 – 17:30

Faculty: Jonathan F Bean, MD MPH MS; Marla Beauchamp, PT, PhD; Rachel E Ward, PhD, MPH

Diagnosis: Other, Outcomes Research

Focus area: Geriatric

DESCRIPTION: Mobility problems are prevalent among older adults and lead to subsequent disability. However, there is insufficient evidence guiding rehabilitative care. To address this, we initiated the Boston Rehabilitative Impairment Study of the Elderly, a longitudinal cohort study of 430 older primary care patients evaluating changes in mobility. Eleven neuromuscular attributes linked to mobility decline and treatable within the context of rehabilitative care were measured. We will review the study methods, demonstrate the validity and responsiveness of its primary outcome, report on baseline findings and identify a subset of attributes that are associated with poor mobility outcomes after 2 years of follow up.

(#3158) Participatory Action Research to Strategize Long-Term Health and Participation Disparities With People With Disabilities

Date: 28 October

Time: 16:15 – 17:30

Faculty: Joy Hammel, PhD, OTR; Lex Frieden, M.A., LL.D.; Janet Smith, PhD; Katherine McDonald; Susan Magasi, PhD; Christina Papadimitriou, PhD; Lewis Kraus, MPH, MCP

Diagnosis: Other, Clinical Practice

Focus area: Policy

DESCRIPTION: Twenty five years following the passage of the Americans with Disabilities Act (ADA), people with disabilities continue to experience persistent disparities in health care access and community living, community participation, and economic participation. However, under the Patient Protection and Affordable Care Act (PPACA), and the ADA Olmstead Decision systems change initiatives to rebalance funding toward community living and supports, we have new opportunities in rehabilitation to extend services and supports into the community. This symposium will focus on two federally funded participatory action research (PAR) projects to document and examine these participation disparities, and to design and evaluate innovative interventions to address disparities using a community-based, consumer-directed approach.

(#3189) Using Easily Available Sensors and Cloud Software Tools to Develop Functional Assessments and Home-Based Mobility Interventions

Date: 28 October

Time: 16:15 – 17:30

Faculty: Jeffrey Haddad, Ph.D.; Jessica E Huber, Ph.D.; George Demiris, Ph.D.; Arjmand Samuel; Joshua J Liddy, M.S.

Diagnosis: Neurodegenerative Disease, Other, Research Methods

Focus area: Clinical Practice

DESCRIPTION: Patient compliance with therapy and maintaining functional gains after therapy are major challenges. With the advent of low cost sensors, increasingly powerful computers, and smart home technology, it is becoming easier to repurpose “off the shelf” devices to provide therapeutic intervention, track patient compliance, and monitor improvements in functionality and mobility, all within the comfort of a patient’s home. In this symposium, we demonstrate how to integrate these current technologies into therapeutic practice and research. The development of home-based interventions will ultimately help mitigate issues with insurance coverage so that patients can better maintain the functional gains made during therapy.



Focus area: Technology

Focus area: Clinical Practice

Focus area: Military

Focus area: Technology, Neuroplasticity

(#3226) Exercise of Cancer Patients Before, During, and After Hematopoietic Stem Cell Transplant

Time: 16:15 – 17:30

Diagnosis: Cancer, Other, Clinical Practice

Focus area: Outcomes Research

DESCRIPTION: Exercise during cancer treatment is safe and feasible when prescribed and supervised by professionals with an understanding of the exercise precautions for patients with severe anemia, thrombocytopenia, neutropenia, pancytopenia, compromised immune systems, indwelling catheters, peripheral neuropathy, ataxia, and cancer related fatigue. Aerobic and resistive exercise of the hematopoietic stem cell transplant adult patient has been established to be safe with significant improvements in strength, endurance, quality of life, and cancer-related fatigue. Further research is needed on exercise progression in terms of intensity of aerobic and / or resistive training for patients with abnormal and/or fluctuating platelets, hemoglobin, hematocrit.

Date: 28 October

Time: 16:15 – 17:30

Faculty: Sharon Ann Martino, PT, PhD; Shane Phillips, PT, PhD

Diagnosis: Other

Focus area: Clinical Practice

DESCRIPTION: Heart disease is the number one killer in the United States. Exercise and nutrition play vital roles in the management of patients with cardiovascular disease (CVD). Endothelium - dependent vasodilation is an emerging biomarker that measures the relationship between exercise and cardiovascular risk in patients at risk for CVD. Impaired endothelium occurs early in the development of CVD and indeed has been found across all ages. Body composition techniques, such as DEXA are more reliable than BMI for assessing risk and effectiveness of programs. This session is designed for clinicians and researchers with interests in CVD and exercise. Topics covered will include: 1) overview of CVD and assessment of risk factors, 2) evidence based exercise interventions that impact CV function, and 3) relevant gaps in the research regarding specific exercise parameters for CV prevention across the lifespan will be expounded.

Date: 28 October

Time: 16:15 – 17:30

Faculty: James Jeffrey Carollo, PhD, PE; Sruthi Pandipati Thomas, M.D., Ph.D.; Patricia Cristine Heyn, PhD; Cathy McMillin, OTR/L, ATP

Diagnosis: Other, Clinical Practice

Focus area: Pediatric

DESCRIPTION: While cerebral palsy (CP) is a childhood-onset condition, rehabilitation professionals recognize it is a lifelong disease that presents challenges at every stage of development, especially as people with CP make the transition to adulthood. There is growing evidence that sustaining a functional walking pattern is associated with overall health and a reduced likelihood of developing secondary conditions often associated with “premature aging.” The purpose of this symposium is to present the risks and benefits of independent walking for the adult with CP, and describe how an adult transition program based on the coordinated care model offers the best opportunity to balance these competing concerns.

Date: 28 October
Time: 16:15 – 17:30
Faculty: Sonja Blum; Argye Hillis, MD
Diagnosis: Brain Injury, Stroke, Neuroscience
Focus area: Neuroplasticity
DESCRIPTION: Neuroplasticity of Attention and Memory systems

Date: 28 October

Time: 16:15 – 17:30

Faculty: Sonia Blum; Argye Hillis, MD

Diagnosis: Brain Injury, Stroke, Neuroscience

Focus area: Neuroplasticity

DESCRIPTION: Neuroplasticity of Attention and Memory systems

Date: 28 October
Time: 16:15 – 17:30
Faculty: Rosette C. Biester, Ph.D.; Chari I. Hirshson, Ph.D.; David Keith Krych, MS-CCC-SLP,CBIS
Diagnosis: Brain Injury
Focus area: Clinical Practice

Date: 28 October

Time: 16:15 – 17:30

Faculty: Rosette C. Biester, Ph.D.; Chari I. Hirshson, Ph.D.; David Keith Krych, MS-CCC-SLP,CBIS

Diagnosis: Brain Injury

Focus area: Clinical Practice

DESCRIPTION: The relevant literature from brain injury and related fields suggests little is known regarding the specific ways information about prognosis is perceived by patients and their families after brain injury. Improved means of communicating after injury and the development of evidence-based guidelines for delivering information and prognoses after TBI is necessary. This symposium will provide an overview of existing literature and the results of a 2012-2013 national survey on individual and significant others' perceptions of information provided them about brain injury. The results reveal an interesting gender effect, highlight the importance of communication about prognosis, and suggest areas for exploration.

Date: 28 October
Time: 16:15 – 17:30
Faculty: Virgil Wittmer, PhD; Christopher Sletten, Ph.D.
Diagnosis: Pain, Clinical Practice
Focus area: Outcomes Research

Date: 28 October

Time: 16:15 – 17:30

Faculty: Virgil Wittmer, PhD; Christopher Sletten, Ph.D.

Diagnosis: Pain, Clinical Practice

Focus area: Outcomes Research

DESCRIPTION: This symposium will review evidenced based research demonstrating and explaining the inverse relationship between healthcare expenses and clinical outcomes when using only traditional medical management for the treatment of chronic pain. Evidenced based guidelines will be presented emphasizing the importance of treating chronic pain from a biopsychosocial model, specifically interdisciplinary pain rehabilitation (IPR). A review of prior research as well as recent outcome data from insurance companies who have had patients treated at Mayo Clinic (Jacksonville) and Brooks Rehabilitation (Jacksonville) will demonstrate significant long-term reductions of healthcare expenses and improved clinical outcomes with IPR as contrasted to medical management only.

Date: 28 October
Time: 16:15 – 17:30
Faculty: Tatyana Mollayeva, MD, PhD; Shirley Shih, M.D.; Katarzyna Hojan, M.D, Ph.D; Susan Fasoli, ScD OTR/L

Date: 28 October

Time: 16:15 – 17:30

Faculty: Tatyana Mollayeva, MD, PhD; Shirley Shih, M.D.; Katarzyna Hojan, M.D, Ph.D; Susan Fasoli, ScD OTR/L

1. Physical Exercises, Inflammation, Fatigue and Aerobic Fitness in Prostate Cancer Patients undergoing Antiandrogen- and Radiotherapy — Katarzyna Hojan
2. Readmission is better predicted by functional status than comorbidities and demographics in inpatient rehabilitation hospitals — Shirley Shih
3. Upper Limb Robot-Assisted Therapy: Exploring Limitations And Future Directions — Susan Fasoli
4. Wilkerson Award: Insomnia in workers with delayed recovery from mild traumatic brain injury — Tatyana Mollayeva

CORE CONFERENCE

DAY #2 THU 29 OCT

(#1002) PLENARY II: John Stanley Coulter Lecturer Award: From Neuroprosthetics to Wheelchairs: The Good, the Bad, and the Ugly of Assistive Technology

Date: 29 October

Time: 08:15 – 09:15

Faculty: Michael Boninger, M.D.

(#2988) New Frontiers for Neurodegenerative Rehabilitation: Maintaining Brain Health and Restoration

Date: 29 October

Time: 09:30 – 10:45

Faculty: Patricia Cristine Heyn, PhD; Deborah Backus, PT, PhD; Sandi Chapman, Ph.D.

Diagnosis: Neurodegenerative Disease, Other, Geriatric

Focus area: Neuroscience

DESCRIPTION: Growing efforts are searching ways to harness residual neuroplasticity in healthy older adults to counter diminishing cognitive capacity. Indeed, 87% of the adult population is predicted not to develop Alzheimer's disease (AD); nonetheless many healthy adults are showing relentless and insidious loss of cognitive capacity and degradation of brain function. Cognitive training and aerobic exercise training have been widely used to improve cognitive function in individuals with memory loss. Keeping the brain resilient as we age could lessen the effects of brain insults that may occur due to neurodegenerative processes. To date, validated and safe metrics to measure improvements in neural health are nonexistent yet critical. These findings are extremely important to adults with cognitive disability as they are at higher risk of developing age-related disorders, such as memory loss, dementia and AD. This presentation will discuss the evidence about two cognitive behavioral interventions on cognitive and brain function as well as modifiable risk factors for cognitive decline and how this evidence relates to individuals with cognitive disabilities. It will also discuss the challenges to recognizing memory loss in older individuals with and without cognitive disability.

(#2995) Motor Priming to Improve Functional Outcomes

Date: 29 October

Time: 09:30 – 10:45

Faculty: Sangeetha Madhavan, PT PhD; Mary Ellen Stoykov, PhD, OTR/L; Edelle (Edee) C. Field-Fote, PhD, PT, FAPTA

Diagnosis: Other, Diagnosis-Independent, Neuroplasticity

Focus area: Neuroscience

DESCRIPTION: Rehabilitation researchers are exploring neural priming as a method to facilitate motor learning and, thereby improve the outcomes of functional training. In this symposium, we discuss three priming paradigms that are supported by the greatest amount of evidence, including (i) brain stimulation-based priming (ii) movement-based priming, and (iii) sensory priming. We present data from studies that indicate that motor priming techniques may be promising adjuvants to rehabilitation.

(#3025) Assessment of Military Multitasking Performance Multitask Components: Informing Return-to-Duty After Concussion**Date:** 29 October**Time:** 09:30 – 10:45**Faculty:** Margaret (Maggie) M. Weightman, PT, Ph.D.; Mary Vining Radomski, PhD, OTR/L; Matthew Scherer, PT, PhD; Karen McCulloch, PT, PhD, NCS**Diagnosis:** Brain Injury, Research Methods**Focus area:** Military**DESCRIPTION:** Concussed Service Members often demonstrate physical and psychological conditions that interfere with peak performance of warrior tasks. Subtle symptoms associated with mTBI can compromise rapid, safe return-to-duty, but are difficult to assess. In this presentation, we will summarize the validation findings to date for the Assessment of Military Multitasking Performance, a performance-based assessment that includes 3 multitasks to help inform duty-readiness decisions for Service members after concussion/mTBI. Implications of these research findings on test development for civilian practice will be outlined.**(#3098) Traumatic Brain Injury in the Young Child: Current Approaches to Rehabilitation****Date:** 29 October**Time:** 09:30 – 10:45**Faculty:** Angela Ciccio, Ph.D.; Julie Haarbauer-Krupa, PhD; Beth Slomine; Linda Ewing-Cobbs, PhD; Heather Keenan, MDCM, PhD**Diagnosis:** Brain Injury, Clinical Practice**Focus area:** Pediatric**DESCRIPTION:** Brain injury in the very young child (0-5 years of age) is unique in its implications for recovery, rehabilitation, and ongoing development. The aim of this symposium is to highlight the intersection of these constructs with data from recent research projects and to provide a forum for discussion of the implications of this work in the lives of children with TBI and their families.**(#3117) Primary Payer Sources and Rehabilitation Outcomes of Patients Discharged From U.S. Inpatient Rehabilitation Facilities, 2011-2013****Date:** 29 October**Time:** 09:30 – 10:45**Faculty:** Hua Wang; Michelle Camicia, MSN, CRRN, CCM; Jacqueline Mix, MPH; Margaret Anne DiVita, MS, PHD**Diagnosis:** Brain Injury, Stroke**Focus area:** Outcomes Research**DESCRIPTION:** Rehabilitation therapies and treatment availability may be impacted by the types of insurance payer. This study examines post-acute rehabilitation outcomes by primary payer for patients discharged from U.S. inpatient rehabilitation facilities between 2011 and 2013 with stroke, brain dysfunction, neurologic conditions, or spinal cord injury. Current healthcare policy issues as well as clinical implications will also be discussed.**(#3163) Accessibility in Health Care for People With Disabilities****Date:** 29 October**Time:** 09:30 – 10:45**Faculty:** Lex Frieden, M.A., LL.D.; Vinh Nguyen, J.D., M.B.A.; Carl Elliott Josehart; Matthew Davis, M.D.; Matthew Davis, M.D.; Edward Elms, M.D.**Diagnosis:** Spinal Cord Injury, Diagnosis-Independent, Technology**Focus area:** Policy**DESCRIPTION:** Approximately 57 million people in the United States have disabling impairments that impact their overall health needs. As they age, people with disabilities experience many of the same chronic conditions as others do in their later years. Rehabilitation providers are acutely familiar with the physical barriers that confront their patients, but people with disabilities continue to face barriers in the general health care system. Multiple studies and federal reports have noted health care disparities for the disability population and that common misconceptions contribute to disparities in the services they receive. The Americans with Disabilities Act (ADA) and Rehabilitation Act prohibit discrimination on the basis of disability for health care providers and requires them to make reasonable modifications to their policies and practices when necessary to ensure full and equal access to a patient with a disability. This panel discussion will discuss the health

care disparities between the disability and general population, the common issues and barriers that contribute to these disparities, and the legal obligations that health care providers must comply with to serve people with disabilities.

(#3156) Evidence-Based Medical and Cognitive Management During Inpatient Rehabilitation in Persons With Brain Tumors

Date: 29 October

Time: 09:30 – 10:45

Faculty: Michael O'Dell, MD; Faith Gunning-Dixon, Ph.D.

Diagnosis: Brain Injury, Cancer

Focus area: Clinical Practice

DESCRIPTION: Among persons with brain tumors, the side-effects of primary treatments and a number of prophylactic protocols as well as underlying cognition, can potentially impact the mobilization process. This presentation will take an evidence-based approach outlining the most current information regarding the medical and cognitive management of persons with brain tumors during inpatient rehabilitation

(#3166) Palliative Medicine Symptom Management for Rehabilitation Practitioners

Date: 29 October

Time: 09:30 – 10:45

Faculty: Sree Battu, M.D.; Earl L Smith, M.D., Ph.D.; Aziza Azadali Kamani, M.D.; Rebecca T. Armendariz, M.D.

Diagnosis: Cancer, Pain

Focus area: Clinical Practice

DESCRIPTION: Cancer patients experience functional changes throughout the cancer continuum (diagnosis, treatment, survivorship, end of life). The goal of this symposium is to introduce the General Rehabilitation Practitioner to one aspect of care provided by Palliative Medicine Practitioners: symptom assessment and management. Being able to assess and treat symptoms related to cancer treatments or disease progression will aid the Rehabilitation Practitioner in supporting the cancer patient's rehabilitation process in post- acute rehabilitation facilities. Palliative Medicine symptoms to be addressed include nausea, dyspnea, anxiety, depression, delirium, and cancer related pain. We will also discuss assessment of opiate induced neurotoxicity and methods to treat this condition.

(#3201) Can Measures of Team Functioning (TF) be Useful in Quality and Quality Improvement?

Date: 29 October

Time: 09:30 – 10:45

Faculty: Dale Christian Strasser, MD; Andrea Backscheider Burrige, PhD; Linda J Resnik, PT, PhD

Diagnosis: Stroke, Diagnosis-Independent, Clinical Practice

Focus area: Outcomes Research

DESCRIPTION: The lack of rehabilitation specific measures hampers QI in the field. In this symposium we examine team functioning (TF) measures as process indicators, building on our experience of modeling and studying TF in stroke rehabilitation. A recent exploratory analysis of data from a national clinical trial found that TF measures tracked key patient outcomes consistent with a theoretical model of team effectiveness. These findings will be critiqued followed by an interactive discussion on the potential utility of TF measures and future research.

(#3214) Sexuality and Health in Women With Spinal Cord Injury

Date: 29 October

Time: 09:30 – 10:45

Faculty: Heather Beth Taylor, Ph.D.; Claire Kalpakjian, PhD, MS; Margaret A. Nosek, PhD; Susan Robinson-Whelen, Ph.D.

Diagnosis: Spinal Cord Injury, Other

Focus area: Outcomes Research

DESCRIPTION: Women's health after SCI is an important research and clinical area. The presentation will highlight the mission and goals of the Women's Health Task Force by sharing the results of a scoping review focusing on the extant literature on sexual health and function,, characterized by constructs such as arousal, orgasm, intercourse, and sexual relationships. In addition, we will share an education project called "The Pelvic Health Initiative for Women with Physical Disabilities" to create educational resources on pelvic health for women with SCI, and other physical disabilities.

be of significant benefit. This symposia will discuss and address multiple communication opportunities on an acute pediatric inpatient rehabilitation unit to deliver high quality care to children with hematologic/oncologic diagnoses. Areas to be explored are administrative challenges, medical management, and cultural adjustments.

(#3284) Client-Centeredness and Interprofessional Teamwork in Inpatient Rehabilitation

Date: 29 October

Time: 09:30 – 10:45

Faculty: Jeffrey Wertheimer, Ph.D.; Christina Papadimitriou, PhD; Pamela Roberts, PhD, OTR/L, SCFES, FAOTA, CPHQ

Diagnosis: Diagnosis-Independent

Focus area: Clinical Practice

DESCRIPTION: Client-centeredness and inter-professional teamwork are important paradigms in rehabilitation. We will define them and discuss how they are related based on empirical data. Facilitators and barriers to related to inter-professional teamwork will be reviewed. Research from a prospective study of team conference decision making related to patient-related outcomes (i.e., length of stay) on an inpatient rehabilitation unit will be presented.

(#3841) VA Amputation System of Care: A System Model for Interdisciplinary Amputation Rehabilitation

Date: 29 October

Time: 09:30 – 10:45

Faculty: Joseph Webster, M.D.; Cindy E. Poorman, MSPT; Joseph Miller, PhD CP

Diagnosis: Other, Technology

Focus area: Military

DESCRIPTION: In 2008, the Department of Veterans Affairs (VA) began implementation of the Amputation System of Care (ASoC) in order to enhance the quality and consistency of care provided to Veterans with limb loss. This presentation will provide participants with a greater understanding of the ASoC as an integrated healthcare delivery system that is designed to provide the latest practices in medical care, prosthetic technology, and rehabilitation management through graded levels of clinical expertise and accessibility to care. Participants will also gain an appreciation for the structured, interdisciplinary team approach and a network of clinically-trained care coordinators that have been essential to the program success. The strategies, including the development of clinical practice guidelines, used to incorporate the most advanced prosthetic technology and rehabilitation techniques into clinical practice will also be covered during the presentation. Lastly, participants will understand the key the program outcomes of the VA Amputation System of Care (ASoC) and the VA Orthotic and Prosthetic Service.

(#1013) Oral Presentation of Scientific Papers - Brain Injury Topics

Date: 29 October

Time: 09:30 – 10:45

Faculty: Dawn Neumann, PhD; Flora Hammond, MD; Barbra Zupan; Shannon B Juengst, CRC

1. How people with and without brain injury judge others' behaviors: emotion dysregulation and treatment implications — Dawn Neumann
2. Gender Differences in Affect Recognition and Emotional Inferencing Following Traumatic Brain Injury — Barbra Zupan
3. Safety, Tolerability, and Effectiveness of Dextromethorphan/Quinidine for Pseudobulbar Affect in Patients With Traumatic Brain Injury: PRISM-II — Flora Hammond
4. Biopsychosocial Outcomes In The First Year After Traumatic Brain Injury: Behavior, Depressive Symptoms, And Self-Perception — Shannon Juengst

(#3039) Evidence Based Guidelines for Neuropathic Pain Syndromes Associated with Stroke, SCI and Amputation

Date: 29 October

Time: 09:30 – 10:45

Faculty: Martin Graboys, MD; Thomas Bryce, MD; Stanley Yoo, MD

Diagnosis: Stroke, Pain

Focus area: Clinical Practice

DESCRIPTION: This symposia will address issues of pain seen in patients with primary rehabilitation diagnosis. Specifically pain in patients with stroke, spinal cord injury and post amputee syndrome will be reviewed from the incidence, impact,

pathophysiology, evaluation technique and treatment point of view. . The role of the rehabilitation team will be emphasized working together in a multidisciplinary approach to provide optimal care. Rehabilitation specialists need to better understand the patient with primary rehabilitation diagnosis and how to better evaluate and treat these syndromes as well as when a pain specialist needs to be utilized.

(#2833) Enhancing Telerehabilitation Through Innovative Uses of Low-Cost Consumer Technologies

Date: 29 October

Time: 11:00 – 12:15

Faculty: Brodie M Sakakibara, PhD; Edward Giesbrecht, OT(C); Bitu Imam, BSc; Emily Ross

Diagnosis: Diagnosis-Independent, Geriatric

Focus area: Clinical Practice

DESCRIPTION: Telerehabilitation, where rehabilitation is provided from a distance using communication technologies, is a potential solution to the increasing demands for cost-effective yet high quality rehabilitation services. Despite underutilization, telerehabilitation has demonstrated effective improvements in physical, functional, and quality of life outcomes among individuals with disabilities. The emergence of low-cost consumer technologies offers the potential to expand and innovate telerehabilitation, highlighting the need for clinical research. This symposium will bring interested stakeholders together to learn about and discuss: 1) Emerging applications of low-cost consumer technologies in telerehabilitation, including: computer tablets; commercial off-the-shelf gaming systems; and telephone and texting; and 2) Strategies for establishing and advancing telerehabilitation within current healthcare systems

(#2845) FacingDisability.com: State-of-the-Art Rehabilitation Information and Support in an Online World

Date: 29 October

Time: 11:00 – 12:15

Faculty: Thea K Flaum; Sara J Klaas, MSW, C-ASWCM

Diagnosis: Spinal Cord Injury

Focus area: Other

DESCRIPTION: FacingDisability.com is a new high-tech, low-cost intervention, a first-of-its-kind online resource that is designed to be a model. It is a cutting-edge Internet -based project that was specifically created for families dealing with spinal cord injuries, but it has blazed a successful path that others are now able to follow. The website brings users face-to-face with the life experiences of others. It contains more than 1,500 high- quality HD videos of family members answering real-life questions about how they cope with a spinal injury, as well as interviews with top SCI experts on important subjects. It averages 2,500 unique visitors a week.

(#2859) Implementation of CogSMART in a Military Treatment Facility: Successful Modification and Lessons Learned

Date: 29 October

Time: 11:00 – 12:15

Faculty: Jennifer Lundmark; Inbal Eshel, M.A.

Diagnosis: Brain Injury, Other, Military

Focus area: Technology, Clinical Practice

DESCRIPTION: This presentation will describe the successful implementation of Cognitive Symptom Management and Rehabilitation Therapy (CogSMART), a cognitive rehabilitation group, at Walter Reed National Military Medical Center for active duty service members with traumatic brain injury. The symposia will provide an overview of how the protocol was modified to meet the needs of our patient population and steps taken, at the patient level, to assist with individualizing care. Treatment outcomes regarding cognitive and emotional functioning will be reviewed. Lessons learned from the implementation of this intervention might inform recommendations for individualizing cognitive rehabilitation groups at a facility and patient level.

(#2930) Cancer Rehabilitation: Translating the Latest Science Into Clinical Care

Date: 29 October

Time: 11:00 – 12:15

Faculty: Julie K Silver, MD; Nicole L Stout, DPT; Vishwa Raj, MD

Diagnosis: Cancer, Pain, Outcomes Research

Focus area: Clinical Practice

DESCRIPTION: This symposium focuses on the latest advances in research and how they can best be incorporated into clinical care. Cancer and its various treatments introduce a host of implications that negatively impact function. From the point of diagnosis throughout active treatment and for the duration of a cancer survivor's lifetime there are short and long term risks for functional morbidity. Cancer rehabilitation is an important part of the oncology care continuum. Research is evolving and should be implemented into best practices clinical care. Similar to other rehabilitation models, cancer rehabilitation should involve an interdisciplinary team including rehabilitation professionals aligned with standard of care treatment. Rehabilitation interventions that are typically part of the care continuum for other serious illnesses and injuries--such as stroke, spinal cord injury and traumatic brain injury--are often poorly implemented or entirely missing from cancer care as is consideration for the multifaceted needs of the patient including; functional, psychosocial, cognitive and physical issues. This presentation will present the current state of cancer rehabilitation along with recent scientific evidence to support interventions throughout the continuum of care. Additionally, emerging issues in cancer rehabilitation care, including; research needs, national and international guidelines and recommendations will be discussed.

(#2952) Better Rehabilitation Through Systematic Treatment Specification: Progress and Aims of the Rehabilitation Treatment Taxonomy Project

Date: 29 October

Time: 11:00 – 12:15

Faculty: Tessa Hart, PhD; Marcel P.J.M. Dijkers, PhD; John Whyte, MD, PhD; Christine Chen, ScD, OTR/L; Mary Ferraro, PhD, OTR/L; Andrew Packel, PT, NCS; Jarrad Van Stan, MA, CCC-SLP, BCS-S; Jeanne M. Zanca, PhD, MPT

Diagnosis: Diagnosis-Independent, Clinical Practice

Focus area: Research Methods

DESCRIPTION: Rehabilitation has many ways of measuring patient characteristics and other inputs to the treatment process, and many measures of outcomes, but remains in need of a system for specifying and measuring the treatments themselves. Only with such a system can we conduct the comparative effectiveness research and knowledge translation that will advance the field. In this session we present findings to date and future directions of a multi-disciplinary team working to develop a Rehabilitation Treatment Taxonomy, which now includes a manualized method for specifying the proximal targets, active ingredients, and mechanisms of action for all rehabilitation interventions.

(#3001) Improving Return to Work and School Outcomes After Acquired Brain Injury Through Resource Facilitation: Translating Evidence Into Practice

Date: 29 October

Time: 11:00 – 12:15

Faculty: Devan Parrott; Lance Trexler, Ph.D., FACRM; Summer Ibarra, MA

Diagnosis: Brain Injury

Focus area: Outcomes Research

DESCRIPTION: This symposium will provide the results of three different studies on improving return to work and school following acquired brain injury through Resource Facilitation. It will also address how the research was translated into clinical practice and State-wide policy.

(#3007) Knowledge Translation Strategies for Engaging Stakeholders: Lessons Learned From the MSKTC

Date: 29 October

Time: 11:00 – 12:15

Faculty: Xinsheng Cindy Cai, PhD; Claire Kalpakjian, PhD, MS; Cynthia Overton, Ph.D.

Diagnosis: Brain Injury, Spinal Cord Injury, Policy

Focus area: Clinical Practice

DESCRIPTION: Funded by the National Institute on Disability and Rehabilitation Research (NIDRR), the Model Systems Program promotes innovative projects for the delivery, demonstration, and evaluation of comprehensive medical, vocational, and other rehabilitation services in the areas of spinal cord injury, traumatic brain injury, and burn injury. This symposium will highlight how the Model Systems Knowledge Translation Center and Model Systems researchers engage stakeholders through the knowledge translation process, focusing on developing and testing consumer products; designing and managing a large, scoping review; working with policy makers; and disseminating consumer products to the field.



(#3020) The Child With Severe TBI: Assessment Strategies and Recovery Trajectories

Date: 29 October

Time: 11:00 – 12:15

Faculty: Stacy Suskauer, MD; Beth Slomine; Janet P. Niemeier, PhD, ABPP (RP)

Diagnosis: Brain Injury, Clinical Practice

Focus area: Pediatric

DESCRIPTION: There is growing evidence regarding outcome after severe TBI in childhood which can be used to inform clinical care. This symposium will showcase data from two institutions, formulating an evidence base for early assessment with relevance for later outcomes. Talks will address the effect of cognitive challenges on dual task performance acutely after injury, the utility of injury severity markers for predicting recovery over the first year post-injury, and early markers of functional recovery in children with the lowest level of function after TBI and longer-term trajectories of recovery in this population.

(#3119) Growing Resiliency and Courage (GRACE) With Cancer

Date: 29 October

Time: 11:00 – 12:15

Faculty: Arash Asher, M.D.; Jeffrey Wertheimer, Ph.D.; Ann Gottuso, PhD; Bronwen Jones, B.Mus.; Marvin Delgado Guay

Diagnosis: Cancer

Focus area: Clinical Practice

DESCRIPTION: Patients with advanced cancer often face demoralization and profound existential and spiritual challenges. There is a need for empirical interventions that focus on the existential needs of patients with advanced cancer. GRACE (Growing Resiliency And CourageE with cancer) was developed to bring together a variety of experiences and strategies from an interprofessional perspective to mitigate suffering among patients with advanced cancer diagnoses.

(#3139) Community Integration for Individuals With Brain Injury: A Cross-Cultural Review of Service Delivery Models

Date: 29 October

Time: 11:00 – 12:15

Faculty: Kristine T. Kingsley, Psy.D., ABPP; Jonathan Armstrong; Barbara A O Connell, MBA DipCOT; Eli Vakil, PhD

Diagnosis: Brain Injury, Stroke, Clinical Practice

Focus area: International

DESCRIPTION: Community Integration (CI) is a common goal of rehabilitation objectives. It has been tied to quality assurance in the community and improved quality of life. The symposium will provide a brief overview of CI in general as it applies to a cohort of individuals with acquired brain injury. Community services, supports, integration and inclusion are changing in countries such as Ireland and New Zealand. Issues of cultural competency and sensitivity are discussed. A discussant will then briefly summarize the concepts presented and lead a conversational question and answer session.

(#3202) Balance and Gait Impairment in Multiple Sclerosis: Current Evidence of Causes and Treatment

Date: 29 October

Time: 11:00 – 12:15

Faculty: Jeffrey R Hebert, Ph.D., P.T.; Susan L. Kasser, Ph.D.

Diagnosis: Neurodegenerative Disease

Focus area: Clinical Practice, Neuroplasticity

DESCRIPTION: Multiple Sclerosis (MS) is a complex, chronic disease of the central nervous system, causing progressive disability. MS is a multifaceted process of inflammatory demyelination and progressive neurodegeneration, resulting in a multitude of clinical manifestations. Impaired upright postural control (balance) and walking capacity are among the most common presentations, often leading to advanced disability, limited participation and poorer quality of life. This symposium is designed to provide attendees with evidence-based knowledge of the causes and effective treatment approaches for balance and gait problems in MS.



(#3228) Weight Management Interventions for People With Mobility Impairments: Increasing Relevance, Accessibility, and Sustainability**Date:** 29 October**Time:** 11:00 – 12:15**Faculty:** Susan Robinson-Whelen, Ph.D.; Katherine Froehlich-Grobe, PhD; James H Rimmer, PhD; Margaret A. Nosek, PhD**Diagnosis:** Diagnosis-Independent**Focus area:** Policy

DESCRIPTION: Obesity rates are strikingly high among people with disabilities. Physical activity and weight loss programs are often inaccessible and fail to offer information and strategies that address the circumstances of people with disabilities. This symposium will describe efforts to develop relevant and accessible weight loss programs and will describe a framework for adapting evidence-based obesity prevention strategies for people with disabilities. The speakers and audience will be challenged to address how adapted programs can be scaled to public health and how such programs can better respond to the needs of people who represent the full range of abilities.

(#3769) The Use and Applicability of the CIQ in International and Diverse Population Groups**Date:** 29 October**Time:** 11:00 – 12:15**Faculty:** Barry Willer, PhD; Libby Callaway, BAppSci(OT), MOT; Christine Migliorini, B App Sci, MPH, MSWQ, PhD, MAASW; Joanne C Enticott, PhD; Thilo Kroll, PhD; Anna Kratz**Diagnosis:** Diagnosis-Independent, International**Focus area:** Outcomes Research

DESCRIPTION: The Community Integration Questionnaire (CIQ) was recently revised and now has norms based on a survey of 2000 able-bodied persons in Australia. Modifications and additions included items on use of technology for social integration. This symposium will describe the value of normative data for examining rehabilitation outcomes and for international comparisons. Presenters will also describe the applicability of the CIQ to various culturally diverse and marginalized groups, including indigenous populations, people with traumatic brain and spinal cord injury, and young people with disability living in nursing homes. Presenters will describe a study of the revised CIQ and available norms that reveals a substantial gap between those with TBI and the general population. A study of people with SCI will highlight health and healthy behavior correlates of community integration, also using the revised scoring structure.

(#4111) Assessment of Military Multitasking Performance Dual-task Components: Informing Return-to-Duty After Concussion**Date:** 29 October**Time:** 11:00 – 12:15**Faculty:** Karen Leigh McCulloch, PT, PhD, NCS; Margaret (Maggie) M. Weightman, PT, Ph.D.; Matthew Scherer, PT, PhD; Mary Vining Radomski, PhD, OTR/L**Diagnosis:** Brain Injury, Outcomes Research**Focus area:** Military

DESCRIPTION: Concussed Service Members often demonstrate physical and psychological conditions that interfere with peak performance of warrior tasks. Subtle symptoms associated with mTBI can compromise rapid, safe return-to-duty, but are difficult to assess. In this presentation, we will summarize the validation findings to date for the Assessment of Military Multitasking Performance, a performance-based assessment that includes 3 dual task components to help inform duty-readiness decisions for Service members after concussion/mTBI. Implications of these research findings on test development for civilian practice will be outlined.

(#4524) Neuroplasticity after Spinal Cord Injury**Date:** 29 October**Time:** 11:00 – 12:15**Faculty:** Victor Reggie Edgerton, Ph.D.; Jonathan Rickel Wolpaw, M.D.; Aiko K. Thompson, Ph.D.; Monica A. Perez, PT, PhD**Diagnosis:** Spinal Cord Injury, Neuroscience**Focus area:** Neuroplasticity

DESCRIPTION: This symposium will provide an update on the most current approaches used to induce plasticity and promote recovery of motor function in humans after SCI. The interactions between topics that focus on physiological and



functional outcomes and therapeutic strategies will enhance the spectrum of interest of specialists in SCI and related areas of research. The absence of universally accepted treatments for motor impairment after SCI and the limited behavioral gains of present rehabilitative interventions underline the importance of our session.

(#4408) Stroke Award Lecture: Peripheral Nerve Stimulation for Hemiplegic Shoulder Pain

Date: 29 October

Time: 11:00 – 12:15

Faculty: John Chae, MD

Diagnosis: Stroke, Pain

Focus area: Clinical Practice

DESCRIPTION: This presentation describes the development of percutaneous and fully implantable peripheral nerve stimulation for the treatment of hemiplegic shoulder pain. The mechanism of action was initially thought to be the correction of glenohumeral biomechanics; however, emerging data suggest otherwise with modulation of central sensitization being the primary candidate mechanism. The implications of this revised mechanism on the management of chronic musculoskeletal pain in general are presented along with preliminary supporting evidence. Finally, the art and science of translational science are discussed in the context of the development and clinical implementation of this intervention.

(#1014) NIDILRR-Sponsored ARRT Young Investigators Panel of Oral Presentations

Date: 29 October

Time: 11:00 – 12:30

Faculty: Carmen E. Capo-Lugo, PT, PhD; Hyun Ka, Ph.D; Rachel E Ward, PhD, MPH; Shashwati Geed, PhD; Lucia Smith-Wexler, Ph.D.

1. Reduced Functional and Quality of Life Outcomes Associated With Delays in Evaluation for Acute Rehabilitation Services — Carmen Capo-Lugo
2. Voice-Controlled Vision-based Semi-Autonomous Assistive Robotic Manipulation Assistance — Hyun Ka
3. Impairments Contributing to Persistently Poor and Declining Mobility in Late-Life: New Findings Informing Geriatric Rehabilitation — Rachel Ward
4. Reliability of Corticomotor Excitability in Proximal Upper-Extremity Muscles of Severely-Impaired Chronic Stroke Patients — Shashwati Geed
5. Disordered Eating, Weight, and Physical Activity Concerns in Rehabilitation Outpatients with Acquired Brain Injury — Lucia Smith-Wexler

(#1028) Brucker International Luncheon: Dissociation between Memory Processes: The Contribution of Research on Memory Impairment following Traumatic Brain Injury

Date: 29 October

Time: 12:30 – 14:00

Faculty: Eli Vakil, PhD

Diagnosis: Brain Injury

Focus area: Clinical Practice

DESCRIPTION: Not available

(#1027) Neurodegenerative Diseases Networking Group Luncheon: Without Brain Health, We do not have Health

Date: 29 October

Time: 12:30 – 14:00

Faculty: Sandi Chapman, Ph.D.

Diagnosis: Neurodegenerative Disease

Focus area: Other

DESCRIPTION: Not available

(#1005) Opportunities and New Directions for Rehabilitation Research from Directors of NCMRR and NIDILRR**Date:** 29 October**Time:** 14:00 – 15:00**Faculty:** Alison Cernich, PhD, ABPP-Cn; John Tschida, MPP**(#1003) PLENARY III: Maintaining Cognitive Well-Being with Age: The Role of Social and Cognitive Engagement****Date:** 29 October**Time:** 15:00 – 16:00**Faculty:** Denise C. Park, PhD**Diagnosis:** Diagnosis-Independent**Focus area:** Geriatric

DESCRIPTION: Brain imaging has revealed that healthy brains--even old ones--continuously change and adapt to their environment. There is a small but growing scientific literature suggesting that engagement in mentally-challenging activities helps maintain cognitive function in old age. This presentation will focus on the “Synapse Project,” where older adults were immersed in learning challenging new activities for 15 hours a week for three months. Cognitive enhancement was observed from learning quilting and digital photography but not from socializing or working at home on tasks that were knowledge-based. Changes in brain activity were also observed.

(#2853) The Post-Traumatic Confusional State: Developing a Case Definition**Date:** 29 October**Time:** 16:15 – 17:30**Faculty:** Yelena Bodien; Douglas I Katz, MD; Mark Sherer, PhD**Diagnosis:** Brain Injury, Research Methods**Focus area:** Clinical Practice

DESCRIPTION: Recovery from severe traumatic brain injury (TBI) often includes a period of anterograde amnesia, disorientation, and other cognitive and neurobehavioral symptoms. This phase of recovery has been labeled as post-traumatic amnesia and more recently as post-traumatic confusional state (PTCS). The latter conceptualization includes not only disruptions in orientation and memory but also attentional impairments, symptom fluctuation, agitation, altered sleep/wake cycles, and psychotic-type symptoms. Despite an emerging body of literature characterizing PTCS symptoms, recovery, and prognostic value, a consensus-based definition has not been developed. Furthermore, while a standardized measure for assessment of PTCS has been validated (Confusion Assessment Protocol), it is currently used primarily as a research tool and its clinical utility has not been demonstrated. Finally, few evidence-based treatment options for the confused patient are available. The ACRM Disorders of Consciousness Task Force is in the process of developing a consensus-based case definition of PTCS and developing diagnostic criteria based on published literature with the aim of informing the clinical rehabilitation community of this syndrome. During this symposium, findings of the task force regarding phenomenology, course, outcome, prognosis, distinction from other clinical states, and possible neurophysiologic or neuroanatomic causes will be discussed. In addition, current strategies for assessment and management of PTCS will be reviewed.

(#2903) Project Career: Using Technology to Help Students With TBI Transition from College to Employment**Date:** 29 October**Time:** 16:15 – 17:30

Faculty: Eileen Elias, MEd; Marcia Joslyn Scherer, PhD, MPH, FACRM; Anne Leopold, MSc; Phillip D Rumrill, jr., PhD, CRC; Karen Jacobs, EdD, OTR/L, CPE, FAOTA; Deborah J Hendricks, Ed.D.; Amanda Nardone, B.S.; Callista Stauffer; Elaine Sampson, CRC

Diagnosis: Brain Injury, Outcomes Research**Focus area:** Technology

DESCRIPTION: The presentation will highlight activities and lessons learned from Project Career – a 5-year development project funded by NIDRR to support the transition of Veteran and civilian students with TBI from postsecondary academic settings to employment. Merging best practices from the assistive technology field and vocational rehabilitation, Kent State University, West Virginia University, Boston University, and JBS International is providing services and supports to

(#2913) The Rehabilitation of Glioblastoma Multiforme Patients

Time: 16:15 – 17:30

Faculty: Jack Brian Fu, M.D.

Diagnosis: Brain Injury, Cancer, Outcomes Research

Focus area: Clinical Practice

DESCRIPTION: Glioblastoma multiforme (GBM) or World Health Organization (WHO) Grade IV astrocytoma is the most common primary brain tumor affecting adults. The tumor and its treatments can leave patients with devastating neurologic deficits that include paresis, cognitive deficits, fatigue, cachexia, spasticity and neurogenic bowel/bladder. Unfortunately, glioblastoma multiforme also carries a poor prognosis with a reported median lifespan between 12-15 months from diagnosis. Rehabilitation can have a significant impact on the function and quality of life of these patients.

Date: 29 October

Time: 16:15 – 17:30

Faculty: Jennifer L. Murphy, Ph.D; W. Michael Hooten, MD; Peter Abaci, MD

Diagnosis: Pain

Focus area: Clinical Practice

DESCRIPTION: Despite the well-documented clinical benefits and cost effectiveness of interdisciplinary pain care, various barriers exist for implementing this treatment model. This symposium is aimed at identifying the most significant barriers to interdisciplinary pain care in the modern era, demystifying access to interdisciplinary programs, and discussing avenues to improve the growth of interdisciplinary options.

Date: 29 October

Time: 16:15 – 17:30

Time: 16:15 – 17:30

Faculty: Andrew Packel, PT, NCS

Diagnosis: Other, Diagnosis-Independent

Focus area: Clinical Practice

DESCRIPTION: Clinical decision-making is the method used during each rehabilitation treatment session by which the clinician must synthesize, prioritize, and act upon an enormous amount of information in order to select a treatment to deliver to their patient. This talk will explore the use of conceptual frameworks and how their application can enhance decision-making in rehabilitation. Several developing frameworks will be introduced, and video cases, as well as treatment examples solicited from the audience, will be used to demonstrate the use of these frameworks in clinical practice.

Date: 29 October

Time: 16:15 – 17:30

Faculty: Melissa Lus

Faculty: Melissa Lusby, OT, OTR, LOT; Robin Rae Schlosser, PT, MS , CKTP; Aubree Lee Henton

Diagnosis: Stroke, Other

Focus area: Pediatric

DESCRIPTION: The use of ventricular assist devices (VADs) is becoming increasingly prevalent within the pediatric population as a bridge to transplant and for overall recovery. The goal of this presentation is to provide an introduction and explanation of these devices, discuss maximizing quality of life and rehabilitation potential while on VAD support, and to discuss importance of interdisciplinary care throughout their course of treatment.

DESCRIPTION: In 2014 the Rehabilitation Medicine Department of the National Institutes of Health convened a Cancer Rehabilitation subject matter expert (SME) group to investigate evidence regarding: i) Models of care in cancer rehabilitation, ii) Screening for impairment and toxicity related to cancer treatment, iii) Functional outcomes measures, and iv) Interdisciplinary integration of rehabilitation services and shared decision making. The findings from this initiative were presented in a conference forum in June 2015 with dissemination efforts ongoing. This symposium presents a synopsis of the SME findings and highlights opportunities for future research and clinical advancements in Cancer Rehabilitation.

DESCRIPTION: The SCORE clinical trial is a large, randomized-controlled trial (RCT) of cognitive rehabilitation (CR) for military personnel with persistent cognitive complaints following deployment-related mild traumatic brain injury (mTBI) including four treatment arms: 1) psychoeducation, 2) self-directed computerized CR, 3) therapist-directed manualized CR, and 4) integrated interdisciplinary CR including cognitive behavioral psychotherapy. The SCORE team will present study findings and hands-on training in how to provide the intervention. The target audience includes researchers in the fields of rehabilitation and evidence-based interventions as well as rehabilitation providers who are interested in understanding the application of this evidence-based clinical trial into their practice.

DESCRIPTION: Cognitive Reserve (CR) is considered the mind's resilience to neuropathology and has gained attention in the recent years in respect to a possible contribution in delaying the symptoms of pathological aging. This symposium will provide a brief overview of CR in general and describe its experimental applications within a healthy aging population and within a cohort of individuals with brain injury. A discussant will then briefly summarize the concepts presented and lead a conversational question and answer session.

DESCRIPTION: The Centers for Disease Control reports that the prevalence of obesity among adults with disabilities, including spinal cord injury (SCI), is 57% higher than the aggregate adult population. Obesity is a primary risk factor for development of cardiometabolic diseases including cardiovascular disease and type 2 diabetes. In persons with SCI it is also

(#3136) Are Persons With Spasticity After Stroke and Multiple Sclerosis More Imbalanced?

DESCRIPTION: Spasticity and balance problems are commonly seen in upper motor neuron lesions such as stroke and multiple sclerosis (MS); however, the relationship between the two is not clear. Clinicians routinely observe that patients with spasticity also have balance problems. In this symposium we present evidence showing the relationship between spasticity and balance impairments using clinical scales as well as instrumented objective tests of balance impairment.

DESCRIPTION: Upper extremity function is of paramount importance to people with tetraplegia, yet there is little guidance on how to assess and treat the impaired motor control that emerges after injury. Emerging evidence suggests that applying principles known to facilitate neural plasticity after nervous system injury, such as adjuvant strategies to augment the effects of training and practice, can improve upper extremity function. This presentation will describe a model to guide the choice of upper extremity outcome measures. A hypothesis will be advanced related to treatment of upper extremity dysfunction in people with incomplete tetraplegia. Finally, some successful strategies for applying research findings to clinical practice will be reviewed.

DESCRIPTION: Assistive technology (AT) is a key element of rehabilitation that supports both physical and cognitive function. Systematic training in the use of AT is often neglected, but is critical to help clients achieve optimal use and to prevent device abandonment. In this symposium, 3 experts will present empirical findings on the learning principles and training methods that support AT mastery. Presentations will address training in assistive technology for cognition (Laurie Ehlhardt Powell, PhD, CCC-SLP); training on a sophisticated prosthetic arm (Linda Resnik, PT, PhD); and an approach to formal assessment and training of wheelchair skills (Allen Heinemann, PhD, FACRM).

design, selection and evaluation. Despite the potential of PET, its applications in MS have remained limited. This symposium will present novel findings of our PET imaging studies in patients with MS targeting glucose uptake in skeletal muscles, brain and spinal cord.

(#I015) Oral Presentation of Scientific Papers - Brain Injury Topics

Date: 29 October

Time: 16:15 – 17:30

Faculty: Juliet Haarbauer-Krupa, PhD; Tatyana Mollayeva, MD, PhD; Jennifer Bogner, PhD, ABPP, FACRM; Yelena Bogdanova, PhD, PhD

1. Systematic review and meta-analysis of the Pittsburgh Sleep Quality Index as a Screening Tool for Sleep Dysfunction — Tatyana Mollayeva
2. Screening for Post-Traumatic Stress Disorder in a Civilian Emergency Department Population With Traumatic Brain Injury — Juliet Haarbauer-Krupa
3. Sleep Problems, Treatment and Recovery in Veterans With Blast Exposure, TBI and PTSD — Yelena Bogdanova
4. Are patient reported outcomes reliable after TBI?: Evaluation of TBI Model System outcome measures — Jennifer Bogner

CORE CONFERENCE

DAY #3 FRI 30 OCT

(#4587) Update on the NIH BRAIN Initiative and other Research Opportunities across the ICF Spectrum

Date: 30 October

Time: 06:45 – 08:10

Faculty: Ralph Nitkin, PhD; Mary Ellen Michel, Ph.D.; Lyn B Jakeman, Ph.D.; Babak Kateb

Diagnosis: Other, Diagnosis-Independent

Focus area: Neuroplasticity

DESCRIPTION: NIH Program staff will provide an overview of NIH support for rehabilitation researchers and highlight some key research initiatives and resources across the ICF spectrum. They will highlight the NIH BRAIN initiative, as well as other key initiatives, including standardized patient outcomes, personalized medicine, pain research, engineering and the environment, and stroke rehabilitation. They will also discuss the rehabilitation research infrastructure network and training and career development opportunities.

(#1004) PLENARY IV: Novel Approaches to Examining Pathophysiology Associated with Neurodegenerative Diseases and Traumatic Brain Injury: Translation to Rehabilitation

Date: 30 October

Time: 08:15 – 09:45

Faculty: Marc Diamond, MD; Christopher C Giza, M.D.

Diagnosis: Brain Injury, Neurodegenerative Disease

Focus area: Clinical Practice

DESCRIPTION: Many neurodegenerative disorders and chronic traumatic encephalopathy feature tau protein fibrils accumulation. A propagation mechanism of these fibrils amplifies pathology and parallels prion diseases, which may explain the progression of neurodegenerative disorders. Connections between early neurometabolic changes and later functional impairments or neurodegeneration following acute TBI pathophysiology remain mostly speculative. This plenary covers 1) progress towards methods to detect tau “prions” for early diagnoses, and to block disease progression, and 2) different mechanisms by which early post-TBI mechanisms may lead to chronic deficits. Biological mechanisms in TBI will be examined with a perspective to clinical translation - including proper early management of behavioral or pharmacological interventions to enhance recovery.

(#2907) Optimizing Exercise to Improve Physical Function for Older Adults

Date: 30 October

Time: 10:00 – 11:15

Faculty: Thomas W Buford, PhD; Joe Nocera; Summer B. Cook, Ph.D.

Diagnosis: Diagnosis-Independent

Focus area: Geriatric

DESCRIPTION: As the number of older adults continues to rise worldwide, the prevention of physical disability among seniors is an increasingly important public health priority. Physical exercise is among the best known methods of preventing



(#2911) Incidence of Traumatic Brain Injury in the United States

Time: 10:00 – 11:15

Diagnosis: Brain Injury

Focus area: Outcomes Research

DESCRIPTION: Traumatic brain injury (TBI) is a preventable public health problem affecting many people in the US regardless of age, sex, or socioeconomic status. This symposium will seek to describe (1) the role of the Centers for Disease Control and Prevention (CDC) in TBI public health prevention, (2) updated estimates of the national incidence of TBI in the US, (3) state-level estimates of TBIs, and (4) methods to examine sports-related emergency department visits.

Date: 30 October

Time: 10:00 – 11:15**Time:** 10:00 – 11:15

Faculty: Julie Haarbauer-Krupa, PhD; Bonnie Todis, Ph.D.; Mary RT Kennedy, Ph.D.

Diagnosis: Brain Injury, Other, Pediatric

Focus area: Clinical Practice

DESCRIPTION: Transition to adulthood is an important issue for adolescents with traumatic brain injury (TBI). As reports of TBI health effects are evolving, children and youth, who can experience a TBI at any point in their development, may experience delayed health effects beyond the initial injury care and are particularly vulnerable to lapses in healthcare, school, and career transition as they move from childhood to adult healthcare providers. This symposium will present data on healthcare, school, and career transition and three models of service that can inform clinicians about the planning and care of adolescents with TBI as they transition to adulthood.

Date: 30 October

Time: 10:00 – 11:15

Faculty: Justin Bird, M.D.; Ying Guo, M.D.; Rajesh Yadav, M.D.

Diagnosis: Cancer

Focus area: Clinical Practice

DESCRIPTION: This symposium will provide an overview of surgical and rehabilitation interventions necessary to manage challenging patients with sacro-pelvic tumors. Significant concerns including pain, functional deficits, neurogenic bowel and bladder are often present. Role of pre-habilitation will also be discussed. these challenging patients. Usefulness of pre-habilitation will also be discussed.

Date: 30 October

Time: 10:00 – 11:15

Faculty: James F Malec, PhD; Thomas Murphy; Vicki Eicher, MSW; Mary Pat Murphy, MSN, CRRN, CBIST; Irwin Altman, PhD, MBA; Shannon Swick, M.A; Jacob Kean, PhD, CCC-SLP

Diagnosis: Brain Injury, Stroke, Clinical Practice

Focus area: Outcomes Research

DESCRIPTION: OutcomeInfo is a web-based database system, developed through NIH Small Business Technology Transfer (STTR) funding, for monitoring progress and outcomes in post-inpatient programs primarily with the Mayo-Portland Adaptability Inventory (MPAI-4). Analyses of outcomes and methods will be presented for intensive post-inpatient

brain injury (BI) residential and outpatient/community-based rehabilitation programs in contrast to supportive living programs for almost 3000 individuals living with BI throughout the U.S. represented in the OutcomeInfo database. A multidisciplinary panel will describe (1) the OutcomeInfo database system, (2) key features of major program types, and (3) outcomes and participant characteristics for each program type.

(#3100) Cognitive Motor Interference in Neurodegenerative Diseases: Assessment and Rehabilitation Advances

Date: 30 October

Time: 10:00 – 11:15

Faculty: Jacob Sosnoff, PhD; Abiodun Emmanuel Akinwuntan, PhD, MPH; Valerie Kelly, PT; Hannes Devos, PhD, DRS

Diagnosis: Neurodegenerative Disease, Research Methods

Focus area: Neuroscience, Neuroplasticity

DESCRIPTION: It is well known that individuals with neurodegenerative diseases such as Parkinson disease (PD) and Multiple Sclerosis (MS) have declines in both cognitive and motor function. In addition, an interaction between cognition and motor control is suggested by declines in cognitive and/or motor performance when performed simultaneously. Traditionally, cognitive and motor deficits have been targeted individually for rehabilitation. However, there is emerging evidence that cognitive-motor coupling can be directly targeted. This symposium will discuss the assessment and consequences of cognitive motor interference as well as rehabilitative strategies for targeting cognitive-motor coupling in neurodegenerative diseases. An important aspect of this symposium is that it will discuss a variety of motor tasks including postural control, walking, and driving.

(#3191) Non-Invasive Brain Stimulation in Stroke for Imaging and Function

Date: 30 October

Time: 10:00 – 11:15

Faculty: Stephen Page, PhD, OTR/L; Marcie Bockbrader, MD PhD; Lise Worthen-Chaudhari, MFA, MS, CCRC

Diagnosis: Stroke, Other

Focus area: Neuroscience, Neuroplasticity

DESCRIPTION: Stroke remains a leading cause of disability and its incidence is expected to rise, yielding an increased prevalence of stroke survivors with life altering deficits. Unlike behavioral, subjective approaches that are traditionally used to evaluate stroke survivors, non-invasive brain stimulation offers the possibility of directly targeting brain structures to measure neuronal output and interactions, and understand role of networks and their chronometry in behavior. Moreover, these same techniques can be used to facilitate or inhibit their activity therapeutically so as to steer neural plasticity and functional remapping towards recovery. Recent advances in stereotactic navigation and electric field modeling are also enabling more precise targeting of patient's residual structures in diagnosis and therapy. The overall goal of this seminar is to introduce clinicians to noninvasive brain stimulation (NBS) theory, evidence and application to the hemiparetic upper and lower extremities. Given its promise and increasing use, this presentation first introduces the use and wide-ranging significance of NBS – and specifically transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (tDCS) – in neurorehabilitation, including in stroke, pediatrics, traumatic brain injury, focal hand dystonia, neuropathic pain and spinal cord injury. This is followed by specific discussions of the use, design, mechanisms and expected outcomes of NBS in stroke survivors.

(#3206) Identifying Biomarkers for Concussion Through Assessment of Vision, Balance, and Vestibular Function

Date: 30 October

Time: 10:00 – 11:15

Faculty: Drew Davis, MD; Katherine K Weise, OD, MBA, FAAO; Jennifer Christy, Ph.D.; James Michael Johnston, Jr., M.D.

Diagnosis: Brain Injury, Other, Research Methods

Focus area: Clinical Practice

DESCRIPTION: The diagnosis of concussion can be challenging and elusive at times due to the significant reliance on history and patient report, with objective exam findings sometimes absent. For individuals who have a prolonged recovery or develop post-concussive syndrome, it is often difficult to distinguish symptoms related to pre-existing or co-morbid conditions from those attributable to concussion. Vision, balance, and vestibular function are frequently impacted by concussion and measurement of these systems shows promise for providing an objective, non-invasive means of identifying biomarkers for the diagnosis of concussion while providing targets for rehabilitation.

Date: 30 October
Time: 10:00 – 11:15
Faculty: Rebecca T. Armendariz, M.D.
Diagnosis: Cancer, Other
Focus area: Clinical Practice

Time: 10:00 – 11:15

Faculty: Rebecca T. Armendariz, M.D.

Diagnosis: Cancer, Other

Focus area: Clinical Practice

DESCRIPTION: This symposia lecture reviews the evolution of a comprehensive cancer care model within the setting of cancer rehabilitation and palliative medicine services. It introduces the concept of merging these two areas into a Supportive Cancer Care service line as a strategy when starting a new cancer center. It will review the clinical areas in which rehabilitation and palliative medicine cross over and the advantage of having physicians trained in physical medicine and rehabilitation along with palliative care. It will also introduce strategies on how to implement new service lines in comprehensive cancer care.

Date: 30 October
Time: 10:00 – 11:15
Faculty: Amber Devers, PT, DPT, NCS; Matt Wilks, PT, MSPT, NCS; Anne H. Chan, PT, DPT, MBA, NCS
Diagnosis: Brain Injury, Stroke, Technology
Focus area: Clinical Practice, Neuroplasticity

Date: 30 October

Time: 10:00 – 11:15

Faculty: Amber Devers, PT, DPT, NCS; Matt Wilks, PT, MSPT, NCS; Anne H. Chan, PT, DPT, MBA, NCS

Diagnosis: Brain Injury, Stroke, Technology

Focus area: Clinical Practice, Neuroplasticity

DESCRIPTION: This symposium will review the fusion of multiple advanced technologies into a systematic framework for gait recovery and will describe knowledge translation strategies in neurorehabilitation to improve patient outcomes. The presenters will facilitate interactive discussion with symposium attendees on strategies to improve, standardize, and sustain use of evidence in daily clinical practice.

Date: 30 October
Time: 10:00 – 11:15
Faculty: Angela Colantonio, PhD, FACRM; Fofi Constantinidou, PhD, FACRM; Andrea Montis, M.D.; Lyn B Jakeman, Ph.D.
Diagnosis: Brain Injury, Research Methods
Focus area: Outcomes Research

Date: 30 October

Time: 10:00 – 11:15

Faculty: Angela Colantonio, PhD, FACRM; Fofi Constantinidou, PhD, FACRM; Andrea Montis, M.D.; Lyn B Jakeman, Ph.D.

Diagnosis: Brain Injury, Research Methods

Focus area: Outcomes Research

DESCRIPTION: The analyses of large epidemiological and other large data sets are increasingly seen as the future of advancing research on traumatic brain injury using a multidisciplinary approach given the complexity of traumatic brain injury patients. The overall goal of this presentation is to provide an overview of large multisite projects in both North American and Europe that can advance knowledge about traumatic brain injury outcomes from a more population based perspective.

Date: 30 October
Time: 10:00 – 11:15
Faculty: Joel Scholten, MD; Marilyn Kraus, M.D.; Manon M. Schladen, PhD candidate; Ellen Kathleen Danford, BA; Alexander Libin, PhD; Dwan Bruner, MS; Samantha Cichon, BA
Diagnosis: Brain Injury, Other, Military
Focus area: Clinical Practice

Date: 30 October

Time: 10:00 – 11:15

Faculty: Joel Scholten, MD; Marilyn Kraus, M.D.; Manon M. Schladen, PhD candidate; Ellen Kathleen Danford, BA; Alexander Libin, PhD; Dwan Bruner, MS; Samantha Cichon, BA

Diagnosis: Brain Injury, Other, Military

Focus area: Clinical Practice

DESCRIPTION: This symposium offers an in-depth analysis of the factors affecting post-rehabilitative community reintegration in Veterans and civilians with TBI. Clinical practice and psychosocial research will elucidate the similarities and difference found in these two populations through evaluation of five highly prevalent symptoms resultant from TBI, specifically headache, sleep disturbance, mood disorders, balance issues, and cognitive dysfunction as related to independent psychosocial functioning and quality of life. Subject matter experts will facilitate discussion of practical applications of research in distinct populations to enhance best practices.

Focus area: Technology

DESCRIPTION: Human motion analysis has evolved from a novel research tool to a recognized clinical resource for rehab professionals treating individuals with pathologic gait. But unlike other diagnostic resources, gait laboratories have been reluctant or unable to impose standards of performance for their measurements or establish best practices to assure quality and consistency. Independent motion laboratory accreditation can address these concerns, and is gaining momentum worldwide. This symposium will describe international laboratory accreditation, how these efforts are redefining clinical motion analysis to clinicians, funding sources, and the public, and how the changing health care model in the US puts instrumented gait and motion analysis at a crossroad.

Focus area: Clinical Practice

DESCRIPTION: As the spinal cord injury (SCI) rehabilitation paradigm shifts from a traditional, compensatory model of care to an activity-based restorative model, the way in which we prescribe wheelchairs for patients with SCI must transform as well. Through use of a restorative seating model, clinicians can prescribe wheelchairs and dynamic seating systems designed to complement the regeneration of the nervous system and recovery of function following SCI. In utilizing the restorative approach to seating and positioning, clinicians incorporate the principles of activity, adjustability, and patient accountability into the seating evaluation and wheelchair prescription.

Focus area: Clinical Practice

DESCRIPTION: Motivational Interviewing (MI) is a well-established method for enhancing client engagement in a wide variety of clinical areas, including chronic pain treatment. MI acknowledges that it is essential to understand what is most important to clients if we want to help them resolve ambivalence in the direction of change. MI is useful, both at the outset of therapy to assist with “buy in,” as well as with overcoming barriers during the treatment phase. It is a time-efficient method that can be practically applied across all levels of chronic pain care. This symposium will also highlight values exploration techniques commonly found in other evidence-based psychotherapies, which can be infused in chronic pain treatment. It is this prioritizing of clients' values at the forefront, which allows us to collaboratively set treatment goals that are consistent with, and in service of, the patient's goals of a value-driven life. Time will be allotted for discussion of converting values into actionable treatment plans, utilizing examples from primary, secondary, and tertiary pain care settings. Inherent in this will be the identification of potential barriers and methods of overcoming such.

Focus area: Research Methods

DESCRIPTION: Disseminating the results of your research is more vitally important now than ever before. Publishing your manuscript in the right journal as quickly as possible is also of paramount importance. In this symposia, the presenters, co-Editors-in-Chief of Archives of Physical Medicine and Rehabilitation, Leighton Chan, MD, MPH, and Allen W. Heinemann, PhD, ABPP, and Deputy Editors, Helen Hoenig, MD, MPH, OT, will cover topics of interest to ACRM members and particularly to early career professionals, such as authorship, preparing and submitting your manuscript, reporting guidelines, trial registration, reviewing, publication ethics, open access, and digital innovations in publishing.

(#1016) Oral Presentation of Scientific Papers - Stroke Topics

Date: 30 October

Time: 10:00 – 11:15

Faculty: Allan John Kozlowski, PhD, B.Sc (PT); Jayme Knutson, Ph.D.; Yoram Feldman, MBA; Alex Wong, PhD, DPhil

1. Associations between Participation of Adults with Neurological Disorders and their Environments: Cross-Sectional Multicenter Study — Alex Wong
2. Contralaterally Controlled FES for Chronic Upper Limb Hemiplegia: Single Site RCT — Jayme Knutson
3. Agreement between community-dwelling persons with stroke and their proxy responders on the Neuro-QoL Instruments — Allan Kozlowski
4. Documenting Service Delivery Feasibility of an Online Tele-Motor-Rehabilitation Intervention for Acquired Brain Injury — Yoram Feldman

(#1039) SCI-ISIG Luncheon: Reactivate, Rewire, Restore: Challenging the Nervous System to Optimize Function after SCI

Date: 30 October

Time: 11:30 – 13:00

Faculty: Edelle (Edee) C. Field-Fote, PhD, PT, FAPTA

(#2965) Economic Impact of Spinal Cord Injury

Date: 30 October

Time: 13:15 – 14:30

Faculty: Yuying Chen, MD, PhD; Jeanne M Hoffman, PhD; Yue Cao, PhD, MSPH

Diagnosis: Spinal Cord Injury, Policy

Focus area: Outcomes Research

DESCRIPTION: This symposium will review the methodological approaches involving the estimate of direct and indirect costs of spinal cord injury (SCI). Findings of new estimates of initial and long-term costs of care, health care utilization during the first year after initial rehabilitation, and changes in employment status and earning after SCI will be discussed. The presentations will provide recommendations for the application of the study findings in improving the cost-effectiveness and –efficiency of intervention, prevention program, and vocational rehabilitation as well as guiding future directions for research.

(#2975) The Physiology of Concussion: Evidence for Activity-Based Therapy

Date: 30 October

Time: 13:15 – 14:30

Faculty: Barry Willer, PhD; John Leddy, M.D.; Tara Denham, PT, MA; John Ross Rizzo, MD; Michael J Ellis, MD FRCS

Diagnosis: Brain Injury, Clinical Practice

Focus area: Neuroscience

DESCRIPTION: This symposium will present the latest human research on the physiology of concussion and the oculomotor and vestibular issues associated with prolonged recovery. The presenters conduct leading edge research on CO2 sensitivity, dysautonomia, cerebral blood flow autoregulation, and advanced imaging of sensory integration. Researchers will provide evidence for exercise intolerance as a biological marker of concussion and mTBI. Practitioners will translate research findings into dynamic approaches to assessment and treatment from the acute stage to prolonged recovery. Research will be described with special attention to adolescents who represent a high-risk population. Presenters will also discuss return-to-play and return-to-learn strategies.

(#2984) Effective Rehabilitation Interventions From Prehabilitation to Survivorship

Date: 30 October

Time: 13:15 – 14:30

Faculty: Emil Berengut, P.T., D.P.T., M.S.W.,OCS

Diagnosis: Cancer

Focus area: Clinical Practice

DESCRIPTION: This presentation will explore the emerging area of prehabilitation, discuss the latest advances in rehabilitation during active treatment and examine the new paradigm of rehabilitation in survivorship as a treatment and a risk reduction strategy.

(#3000) Rehabilitation Interventions for Metastatic Bone Disease

Date: 30 October

Time: 13:15 – 14:30

Faculty: Jesuel Padro-Guzman, M.D.; Michael O'Dell, MD; Lisa Marie Ruppert, MD

Diagnosis: Spinal Cord Injury, Cancer, Other

Focus area: Clinical Practice

DESCRIPTION: An introduction to rehabilitation interventions for metastatic bone disease, including evaluation, management, and assessment of risk for pathologic fracture and/or spinal cord injury.

(#3093) A Multidisciplinary Approach to Facilitating Transition to Adulthood for Patients With Pediatric-Onset Spinal Cord Injury

Date: 30 October

Time: 13:15 – 14:30

Faculty: Elizabeth Farrell, PT,DPT,ATP/SMS

Diagnosis: Brain Injury, Spinal Cord Injury, Pediatric

Focus area: Research Methods

DESCRIPTION: Drawing from current evidence and case examples, we will discuss the unique challenges for patients with pediatric-onset spinal cord injury, as they transition to adulthood. A multi-disciplinary panel will discuss long-term medical care, management of chronic complications, activity-based approaches to maximizing function and independence, as well as resources for transition to school or independent living.

(#3217) Preventing Wheelchair Breakdowns: Is DIY Maintenance the Solution? What's Important and How to Teach It

Date: 30 October

Time: 13:15 – 14:30

Faculty: Lynn Worobey, PhD; Trevor A. Dyson-Hudson, M.D.; Allen Heinemann, PhD; Allen Heinemann, PhD; Michael Boninger, M.D.

Diagnosis: Spinal Cord Injury, Neurodegenerative Disease, Technology

Focus area: Clinical Practice

DESCRIPTION: While assistive technology is a great enabler, wheelchair related problems, such as breakdown, have a negative impact on quality of life and participation among wheelchair users (WCUs). Repair rates are increasing and poorly maintained wheelchairs have been linked to increased breakdowns, injuries, and costs of care. This workshop will provide an overview of a wheelchair maintenance training program aimed at 1) educating clinicians on wheelchair maintenance 2) educating clinicians on how to train WCUs in a group setting in maintenance 3) educating WCUs on how perform maintenance on their own wheelchairs.

(#3220) Bridging the Gap in Brain Injury Rehabilitation in a Developing Country: Models of Service Delivery

Date: 30 October

Time: 13:15 – 14:30

Faculty: Arshia Ahmad, M.D., MRCP, MSc Clinical Neurology; Mohammed S. Mohsin, M.D.,Ph.D

Diagnosis: Brain Injury, Stroke, Policy

Focus area: International, Neuroplasticity



#3259 A Syndrome Approach to Back Pain: What the Guidelines Don't Say

DESCRIPTION: The practical management of low back pain can be a challenge to any clinician. The literature is bountiful and complex regarding LBP. Yet, there is a pragmatic evidenced based approach to a screening history and examination, timing of investigations (including interpretation), specialist referral as well as initial and long term strategies for primary care management of LBP patients.

DESCRIPTION: This panel will discuss results of an intensive LT program on outcomes of recovery, pain, and psychosocial wellbeing. First, we will share an overview of the Christopher and Dana Reeve NeuroRecovery Network (NRN) LT program. Then we will discuss results from a group of 110 individuals with SCI before and after a course of LT evaluating changes in neuromuscular recovery, depression, pain, and QoL duration of treatment. This will include the results of regression analyses identifying significant predictors of change in QoL during LT and the results of cluster analyses depicting three unique groups with implications for interventions.

DESCRIPTION: The symposium will explore neuroplasticity after spinal cord injury. We will discuss anatomical and physiological substrates for plasticity and how plasticity can be measured in animal models or humans using anatomical techniques, imaging or neurophysiological methods. We will discuss how those methods could be used to localize plasticity post-injury, to monitor changes in it and to determine whether that plasticity can be modified so as to improve recovery (such as in gait) and/or diminish pathophysiology (such as with neuropathic pain or spasticity). Data from both animal models and human studies will be presented to illustrate these issues.

DESCRIPTION: Innovation in adjusting these technologies for use during acute rehabilitation is feasible and offers a way to more accurately characterize sleep dysfunction in early recovery. The purpose of this session to describe advances in

measurement of sleep in TBI settings, enhance understanding of specific sleep disorders in recovery phases, and describe unexpected outcomes with treatment with a case series.

(#4062) Preventing Falls, Injuries and Mobility Decline Among Older Adults: Translating Research Into Practice

Date: 30 October

Time: 13:15 – 14:30

Faculty: Lorna Brown, DPT; Jonathan F Bean, MD MPH MS

Diagnosis: Other

Focus area: Geriatric

DESCRIPTION: This symposium will describe the scientific rationale for a multidisciplinary preventative care program targeting mobility problems among older primary care patients. The development and design of the Live Long Walk Strong program (LLWS), a clinical demonstration project targeting mobility problems among older primary care patients will be explained. Preliminary, unpublished results of LLWS with regard to participation and changes in physical function will be presented. Future initiatives based on lessons learned will be discussed.

(#4446) The Science and Practice of LSVT BIG® and LSVT LOUD®: An Interdisciplinary Approach to Treating Parkinson Disease

Date: 30 October

Time: 13:15 – 14:30

Faculty: Cynthia M. Fox, PhD, CCC-SLP; Lorraine Ramig, Ph.D.; Laura Guse, MPT, MSCS; Erica Vitek; Beth Marcoux, PT, DPT, PhD; Jennifer Tuccitto, MPT; Bernadette Kosir; David H. McFarland, Ph.D.

Diagnosis: Neurodegenerative Disease

Focus area: Neuroplasticity

DESCRIPTION: Many of the individuals diagnosed annually with PD are forced to retire prematurely, give up activities they enjoy, incur substantial medical costs, and endure their disabilities for decades (D'Ameilio et al., 2006). Providing innovative rehabilitation services that may slow or minimize progression of PD symptoms could result in individuals with PD maintaining productivity and improved quality of life, despite living out the rest of their life with a chronic disease.

(#1017) Oral Presentation of Scientific Papers - Brain Injury Topics

Date: 30 October

Time: 13:15 – 14:30

Faculty: James F Malec, PhD; Alexandra T Landau, B.A.; Gale Whiteneck, PhD, FACRM; Jennifer Bogner, PhD, ABPP, FACRM

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ID#	EXPO #	POSTER TITLE	TOPIC AREAS	PRESENTER NAME	CREDENTIALS
3345	1	Is Self-report of Co-morbid Traumatic Brain Injury Valid in People With Recent Spinal Cord Injury?	SCI, CP, RES	Jeanne M Hoffman	PhD
3777	2	Mood and Disability Among a Subgroup of Chronic Pain Individuals with High Experiential Avoidance and Anxiety Sensitivity	PAIN, CP	Shannon Janzen	MSc.
3732	3	Effectiveness of Transcranial Direct Current Stimulation for the Management of Neuropathic Pain after Spinal Cord Injury: A Meta-Analysis	SCI, PAIN, CP	Swati Mehta	PhD Candidate
3433	4	The NIH Stroke Scale Lacks Validity in Chronic Hemiparetic Stroke	ST, RES	Stephen Page	PhD, OTR/L
3592	5	Integration of Clinical and Research Neuroimaging to understand Traumatic Brain Injury in Veterans and Civilians	BI, MIL, NS, OUT, CP	Maheen Mausooof Adamson	PhD
4912	6	Using Isometric Hand Grip Strength Prior to Hematopoietic Stem Cell Transplant to Predict Patient Outcomes	CAN, CP, OUT	Arash Asher	M.D.
4122	7	Disability after stroke. An explorative study in patients admitted to specialized rehabilitation the Sunnaas International Network (SIN) Stroke Study	ST, BI, INT, CP, OUT	Birgitta Langhammer	RPT, PhD
4838	8	Concussion symptoms in adolescents are alleviated through use of a gamified health app.	BI, PED, CP	Lise Worthen-Chaudhari	MFA, MS, CCRC
4128	9	Assessment of a Population of Mexican Children With Cerebral Palsy; Results From the GMFM-66	BI, PED, OUT	Ana Aguirre-Guemez	MD
3937	10	Caregiver input to develop a web-based care planning guide focused on young children's participation.	DI, PED, CP	Kristen Arestad	
4080	11	Multidisciplinary Cognitive Rehabilitation in an Adolescent With Language Impairment, Tics, Anxiety, and ADHD: Case Study.	DI, PED, CP	Tanya Brown	PhD
4154	12	Anxiety Treatment for Social Anxiety in Adolescent with Language Impairments, Tics, and ADHD: Case Study	DI, PED, CP	Tanya Brown	PhD
4944	13	Long-term outcome of daytime somnolence in adolescents with traumatic brain injury and its relationship to executive functioning	BI, PED	Tanya Brown	PhD
3862	14	Acute Pediatric Inpatient Rehabilitation in Children With Anti-NMDA Receptor Encephalitis	BI, PED, OUT, CP	Lauren Candia	MS, CCC-SLP
3856	15	Cerebral Palsy Adult Transition Study (CPAT): Early Results from the Prospective Health Screening Cohort	PAIN, BI, PED, OUT, NS, CP, POL, GER	James Jeffrey Carollo	PhD, PE
3859	16	Partial Kluver-Bucy Syndrome In An Adolescent With Frontal Arteriovenous Malformation And Bilateral Temporal Lobe Lesions	ND, PED, CP	Karen L. Cooper	Ph.D.
4152	17	Speech-Language Interventions in an Adolescent with Language Impairment, Tic Disorder and ADHD: A Case Study	DI, PED, CP	Leanne Marie Elmer	M.S., CCC-SLP
3477	18	Development and implementation of an inter-agency transition model for youth with spina bifida	PED, POL	Laura R Hartman	PhD, OT Reg. (Ont.)
3973	19	Case Study of Energy Expenditure for a BKA Using SACH vs. Energy Storing Prosthetic Foot	BI, PED, TEC	Melissa Kay Howard	DPT
3487	20	Joint Stress in Children With Cerebral Palsy During a Locomotor Skill Before and After Botulinum-Toxin-Injections	NS	Jody L Jensen	Ph.D.
3908	21	Visuo-spatial and auditory working memory in children with cerebral palsy	PED, CP	Jacqueline Kaufman	PhD
3089	22	Dissemination of Comprehensive Behavioral Intervention for Tics (CBIT) to Occupational Therapists: A Feasibility Study	PED, CP	Grace J Kim	MS, OTR/L
3978	23	Leveraging the Electronic Medical Record to Identify Children with Cerebral Palsy Based on Function	PED	John Charles Luce	D.O.
3157	24	Mechanical Circulatory Support Assessment System: Measure of Functional Gains in Patients on Mechanical Circulatory Devices	PED, CP	Nichole Mayer	OTR/L, MOT
3964	25	Parent Facilitation of Social Engagement for Children With ASD: An Integrative Review	PED, CP	Jennifer Christine McCorkle Kovacs	OTD, OTR/L
3722	26	Impact of Animal Assisted Therapy on Mobility in Children Undergoing Acute Pediatric Inpatient Rehabilitation	DI, PED, OUT, CP	Kayla McKechnie	PT, DPT, C/NDT, CBIS
3683	27	Activity Based Restorative Therapy Across the Continuum of Rehabilitation: A Case Report	SCI, PED, CP	Sarah Murdoch	PT, DPT, ATP
4134	28	Augmenting Inpatient Rehabilitation Services for Children With Traumatic Brain Injury (TBI)	BI, PED, CP, OUT, RES	Christian Niedzwecki	D.O., MS, FAAPMR, FAAP

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ID#	EXPO #	POSTER TITLE	TOPIC AREAS	PRESENTER NAME	CREDENTIALS
3441	29	Early Intervention equals Improved Outcomes: A Case Report presenting improved outcomes in a patient with In Utero Stroke	ST, PED, CP	Elizabeth Niesman	DPT
4833	30	Efficacy Of Multilevel Botox A Treatment of Spastic Cerebral Palsy - A Clinical and Neurophysiological study-	PED, CP	Nayera Saber	
3791	31	The Progression and Rehabilitation of Anti-NMDA Receptor Encephalitis: A Case Series	BI, PED, CP	Eileen Shieh	
2964	32	Activity-based rehabilitation following nerve transfer for flaccid monoplegia after Transverse Myelitis: Case Report	SCI, PED	Jennifer Lynne Silvestri	MS, OTR/L, CPAM, CKTP
3724	33	Acute Spinal Cord Injury Associated With Multi-level Pediatric Idiopathic or Inflammatory Intervertebral Disc Calcification (PIIVDC)	SCI, PED, CP, OUT	Mili Vakharia	FNP-C
3754	34	Inpatient Rehabilitation in Pediatric Cardiac Transplant Recipients	PED, OUT	Mili Vakharia	FNP-C
4846	35	Cerebral palsy: association of cranial magnetic resonance imaging with clinical levels of disease.	BI, DI, PED, CP	Jorge Rodrigo Vásquez Ríos	M.D.
4865	36	Early Autism Diagnosis Strategy in Pediatric Rehabilitation Outpatient Children With Global Developmental Delay	PED, CP	Jorge Rodrigo Vásquez Ríos	M.D.
3295	37	Acute Inpatient Rehabilitation in Children with Recent Posterior Fossa Tumor Resection: A Case Series	CAN, PED, CP	Zach Wirt	M.S., OTR/L, CKTP, CBIS
2858	38	The Outcome of Comprehensive Rehabilitation with Children of CP by using (WeeFIM) as indicator instruments: Saudi Perspective	PED, OUT, RES	Bara Mohammed yousef	Bachelor degree
3442	39	Making the Case for Pediatric Metastatic and Non-Malignant Brain Tumour Surveillance and Research	CAN, BI, OUT, PED	Vincy Chan	MPH, PhD Candidate
3443	40	Identifying Pediatric Non-Traumatic Brain Injury in a Publicly Insured Healthcare System	BI, OUT, PED	Vincy Chan	MPH, PhD Candidate
3445	41	Homecare After Pediatric Traumatic Brain Injury: What Do They Use and How Much Does it Cost?	BI, OUT, PED	Vincy Chan	MPH, PhD Candidate
3829	42	Informing Inpatient Rehabilitation Patients of Traumatic Loss: Factors Influencing Provider Decision-Making	DI, BI, CP, PED, POL	Maria Grosch	PhD
3415	43	Stoplight Mobility Alert System (SMAS): Communication of Mobility Status for Falls Prevention	DI, CP, PED	Joellan Mullen	
3763	44	Title: Development of a lay language summary of a Randomised Controlled Trial (RCT) using the Knowledge to Action cycle	BI, CP, PED, INT	Pranay Jindal	PT
4095	45	Autonomy and Participation in Exercise in Persons with Multiple Sclerosis	ND, CP, OUT	Samuel Michael Bierner	MD, MRM
3834	46	Emerging Evidence for Automatic Acoustic Analysis as a Predictor of Severity of Parkinson's Disease	ND, TEC	Houwei Cao	
3818	47	Transcranial Direct Current Stimulation: Does It Improve Dual Tasking In People With Parkinson's Disease?	ND, NS	Christina Criminger	
3181	48	Concurrent Validity of Mini-BESTest and iSWAY as measures of balance in older persons with Parkinson's	ND, CP, NS, OUT, POL, GER	Lynn Freeman	PhD, PT, DPT, GCS, CWS,
3734	49	Visual Cue Guided Multi-Directional Step Training to Improve Gait in Individuals With Multiple Sclerosis	ND, CP	Mohan Ganesan	PT, PhD
3721	50	Mediation Model for the Relationship Between Facial Expression and Quality of Life in Parkinson's Disease	ND, OUT	Sarah D. Gunnery	PhD
3831	51	Emerging Evidence for Facial Muscle Action as a Predictor of Experienced Stigma in Parkinson's Disease	ND, OUT, RES	Sarah D. Gunnery	PhD
3914	52	CoreAlign training for a person with multiple sclerosis: effects on strength, walking, and participation	ND, CP	Jeffrey R Hebert	Ph.D., P.T.
3786	53	Test-retest Repeatability of Timed Up and Go Subcomponents in Patients with Parkinson's Disease	ND, TEC, NS, OUT, GER	Mark A. Hirsch	PhD
4972	54	Feasibility and Efficacy of Gait Rehabilitation for People With Parkinson Disease and Mild Cognitive Impairment	ND, NS, CP	Valerie Kelly	PT
3950	55	Default Mode Network: Potential Biomarker For Mild Cognitive Impairment In Parkinson's Disease	ND, NP, NS	Sandra Kletzel	PhD
5047	56	Effect of cognitive motor interference in persons with multiple sclerosis: a systematic review and meta-analysis	ND, CAN, NS, RES	Yvonne C Learmonth	PhD, PT

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ID#	EXPO #	POSTER TITLE	TOPIC AREAS	PRESENTER NAME	CREDENTIALS
3982	57	The Effect of Inpatient Rehabilitation on Gait and Balance Measures in Parkinson Disease	ND, CP	Aashoo Pande Mentreddi	M.D.
3816	58	The Effect of Slope Walking on Soleus H-reflexes in People With Multiple Sclerosis	ND, NS, NP	Manning Joseph Sabatier	PhD
3507	59	Impact of Transfer Training on Non-Ambulatory Individuals Living With Multiple Sclerosis	ND, CP	Jacob Sosnoff	PhD
3897	60	Auditing the physical activity and Parkinson's disease literature using the behavioral epidemiologic framework	ND, CP	Chad Swank	
4166	61	Long term treatment of abobotulinumtoxinA (Dysport®) vs. onabotulinumtoxinA (Botox®) in a Patient with MS: A Case Report	ND, OUT, CP, RES	Jeffrey Nathaniel Watkins	M.D.
4835	62	Creative, interactive graphic arts movement feedback increases movement dose during balance therapy: a pilot study.	ND, CAN, ST, SCI, BI, CP, NS, GER	Lise Worthen-Chaudhari	MFA, MS, CCRC
4054	63	A Study of Finger Tapping of Patients Presenting With Central and Peripheral Nerve Damage	ND, BI, CP, TEC	Zhusheng Yu	
3915	64	Employment Challenges Among Iraq and Afghanistan War Veterans With Traumatic Brain Injury	BI, MIL	Kathleen F Carlson	M.S., Ph.D.
3379	65	Identifying Veterans With Traumatic Brain Injury (TBI) and Documenting Interdisciplinary Care	BI, MIL	Ellen Kathleen Danford	BA
3600	66	Health & Related Quality of Life and Employment Concerns among Veterans with PTSD: A Qualitative Exploration	DI, MIL	Christina (Tina) Dillahunt-Aspillaga	PhD, CRC, CVE, CLCP, PVE, CBIST
3820	67	Mental health symptom association with alcohol craving among Veterans with mental health disorders and mTBI	BI, MIL, CP, OUT	Amy A Herrold	PhD
4968	68	High Level Mobility Task Analysis After Military Mild Traumatic Brain Injury Identifies Subtle Motor Control Impairments	BI, MIL, RES, OUT	Karen Leigh McCulloch	PT, PhD, NCS
3817	69	Neuropsychological Performance and Symptom Reporting in a Chronic Post-Concussive Military Population	BI, MIL	Melanie Midkiff	B.A
3727	70	Patient Profile: Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF) Veterans Suspected of TBI	BI, MIL	Marianne H Mortera	PhD, OTR/L
3866	71	TBI severity and Community Reintegration in Veterans of the Afghanistan and Iraq Wars	BI, PAIN, MIL, OUT	Mary Jo Pugh	PhD, RN
3874	72	Differentiating Functional Impairment as it Relates to Attention in Mild Traumatic Brain Injury and Post Traumatic Stress Disorder	BI, MIL, OUT	Lauren Scimeca	M.S.
3153	73	VA TBIMS Study of Mental Health and Functional Characteristics of Military/Veterans Returning to School.	BI, MIL, OUT	Marc A. Silva	Ph.D.
3425	74	Deployment-related rehospitalizations following TBI: A VA TBI Model Systems Study	BI, MIL, OUT, CP	Johanna Tran	MD
4155	75	Factor Structure of the Community Reintegration in Service Members With Blast-related Mild Traumatic Brain Injury.	BI, MIL, RES	Julia Kay Waid-Ebbs	PhD BCBA-D
3219	76	Effects of prosthetic limb prescription on 3-year mortality among lower extremity veteran amputees	OUT, MIL, GER	Barbara E. Bates	MD, MBA
4071	77	Effects of Physical Training on Soldiers in a Warrior Transition Battalion: Proof of Concept Study	RES	Chelsey Franz	PhD.
3936	78	Statistical Analysis of the Subscales of the Pain Disability Questionnaire	PAIN, DI, CP, RES, OUT, GER	Samuel Michael Bierner	MD, MRM
3730	79	Patient-related Variables and Comorbidities Influence Maximum Pain-Free Walking Distances in Symptomatic Peripheral Arterial Disease	PAIN, OUT, RES	Sarah Dörenkamp	MSc
4868	80	Self-Efficacy in Chronic Pain Patients on Long Term Opioids.	PAIN, CP	Yelena Goldin	PhD
4112	81	Effects of Volitional Spine Stabilization on Lifting Task in Recurrent Low Back Pain Population	PAIN, NS	Ram Haddas	PhD
4974	82	A Translational Nonsurgical Neuropathic Pain Model: Created with a Lesion That is Healed by Erythropoietin	PAIN, ND, NS, RES	Mary Hannaman	M.D.
3776	83	Psychological Distress in Out-Patients Assessed for Chronic Pain Compared to those with Rheumatoid Arthritis	PAIN, CP	Swati Mehta	PhD Candidate
3780	84	IDENTIFICATION AND CHARACTERISATION OF UNIQUE SUBGROUPS OF CHRONIC CERVICAL PAIN INDIVIDUALS BASED ON THEIR COPING STYLE	PAIN, CP	Swati Mehta	PhD Candidate

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4121	85	Intramuscular Pressure Differs Between Genders in Patients With Chronic Exertional Compartment Syndrome	PAIN, CP, MIL	Andreas Nilsson	M.Sc
2935	86	Is Spasticity causing Pain? A Cross-sectional Survey of Patient Perception	PAIN, ND, ST, SCI, BI, CP, NS, OUT	Chetan P. Phadke	BPhT, PhD
4079	87	Successful Treatment of Refractory Headache in a Veteran With TBI-a Case Report	PAIN, CP	Rand Redfern	DDS
4087	88	Concurrent Dextrose Prolotherapy and Physical Therapy in Painful Rotator Cuff Tendinopathy: A Randomized Controlled Trial	PAIN, CP	Kenneth Dean Reeves	M.D., FAAPM&R
4088	89	Small needle vertical caudal epidural injection method: Success rate and safety profile	PAIN, CP	Kenneth Dean Reeves	M.D., FAAPM&R
4090	90	Analgesic Effect of Caudal 5% Dextrose in Water in Chronic Low Back Pain	PAIN, CP	Kenneth Dean Reeves	M.D., FAAPM&R
4092	91	Hypertonic-dextrose intra-articular injections in severe knee osteoarthritis: A pilot study suggesting disease modification through chondrogenesis	PAIN, CP, RES	Kenneth Dean Reeves	M.D., FAAPM&R
4099	92	The effects of aquatic exercise and joint supplements on pain and function of women with knee osteoarthritis	PAIN, GER	Paria Nekouei	
3779	93	Single-Subject Analysis of an Occupational Therapy Intervention for Medication Nonadherence	DI, PAIN, CAN, ST, CP, GER	Jaclyn K. Schwartz	PhD, OTR/L
3717	94	Treatment of shoulder pain using a special rehabilitation therapy	PAIN, OUT	Michaela Tomanova	M.D.
4915	95	Effects of whole-body vibration exercises on muscle strength, balance and gait performance in elderly women.	DI, GER, CP	Viviane Santos Borges	M.D.
3596	96	Comparing the BESTest and Berg Balance Scale for Use with Community-Living Elders: A Rasch Analysis	DI, GER, CP, RES	Han Chen	M.D., M.P.H., PhD Candidate
3815	97	Association Between Older Drivers' Perceived Driving Ability and Driving Performance	GER	Yu-Ting Chen	
3783	98	Determining whether a dosage specific exercise program with consults reduces fall risk in elderly patients	ND, ST, SCI, BI, GER, CP, OUT	Estelle Gallo	PT, DPT, NCS
3516	99	Assessing needs for medical rehabilitation: Its use to identify in early stage after disease onset	DI, GER	Kazuhiro Harada	RPT
3603	100	Assessing needs for medical rehabilitation: Associations with ADLs in older individuals with or without dementia	DI, GER	Hiroyuki Hashidate	
3913	101	Association of Obesity and Race/Ethnicity with Functional Status after Elective Primary Total Knee Arthroplasty	DI, GER, OUT, POL	Kshitija Kulkarni	MS OTR/L
3845	102	Patient and Caregiver Centered Outcome Preferences in Stroke Rehabilitation	ST, GER	Timothy Reistetter	OTR, PhD
3837	103	Evaluation of homecare service for older people in Dhaka, Bangladesh	BI, DI, ST, INT, GER, POL	Mohammed Sakel	
3956	104	Muscle strengthening in osteoarthritis's rehabilitation: Analysis of local and systemic biomarkers	GER	Fernando Augusto Vasilceac	
3646	105	The Effect of 5 Days of Balance-Based Torso-Weighting on Mobility-Limited, Community-Dwelling Older Adults	DI, ND, ST, GER, CP	Jennifer L Vincenzo	PT, MPH, PhD, CHES, GCS
3844	106	Fall Risk Assessment among Indian Older Adults: A Literature Review	INT, GER	Kshitija Kulkarni	MS OTR/L
3657	107	Self-Selected Walking Speed is Predictive of Community Walking Behavior in Older Adults	DI, CP, GER, RES	Addie Middleton	PhD, DPT
3676	108	Rehabilitation Effectiveness and Efficiency Following Hip Fractures in A Geriatric Rehabilitation Hospitals Cohort in Singapore	OUT, GER	Kavita Venkataraman	MBBS, PhD
3497	109	Prevalence and Predictors of Symptom-Related Disability in Women with Ovarian Cancer	CAN, OUT, CP	Grace Campbell	PhD, MSW, CRRN
4770	110	Laryngectomees Experiences in the Health Care System: Assessment of Education, Counseling and Provider Knowledge	CAN, CP, POL	Miriam Carroll-Alfano	M.S., CCC-SLP
3444	111	Patients with Brain Tumours: Who Receives Occupational Therapy Services After Acute Care Discharge?	CAN, BI, OUT	Vincy Chan	MPH, PhD Candidate
3084	112	Exploratory study of breast cancer survivors' experience: Activity engagement during and after breast cancer treatment	CAN, DI	Anne Fleischer	MPH, OT/L
3248	113	An Analysis of Inpatient Cancer Rehabilitation Approval Among Private Insurance Carriers	CAN, POL	Jack Brian Fu	M.D.
3880	114	PROMISIO Global Health Scale as part of a standard Cancer Rehabilitation Consultation (CRC)	CAN, OUT, CP	Carolina Gutierrez	MD

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3483	115	Breast Cancer Survivors’ Pectoralis Minor Length: Outcomes of Prospective Surveillance	CAN, CP, OUT	Shana Harrington	PT, PhD
4677	116	Breast Cancer Survivors Self-Reported Symptoms and Limitations in Activities and Participation: Outcomes of Prospective Surveillance.	CAN, OUT, MIL	Shana Harrington	PT, PhD
3765	117	Effectiveness of Integrated Multidisciplinary Rehabilitation in Brain Tumour Patients: a Controlled Clinical Study	CAN, SCI, NS, OUT	Katarzyna Hojan	M.D, Ph.D
3756	118	The Impact of an External Breast Prosthesis on the Posture of Post-mastectomy Women	CAN, DI, RES, NS, CP	Katarzyna Hojan	M.D, Ph.D
3118	119	Treating Radiation-Associated Shoulder Pain in Breast Cancer With Trigger Point Injections – A Case Report.	CAN, PAIN, CP	Sasha E Knowlton	M.D.
3941	120	Outcomes of Acute Inpatient Rehabilitation for chronic Graft-Versus-Host-Disease (GVHD)	CAN, OUT	Jason Leung	
3768	121	Effect of Chemotherapy-Induced-Peripheral-Neuropathy on Spatial-Temporal Gait Parameters in Cancer Patients Post-Chemotherapy	CAN, CP, NS	Timothy Marshall	PhD Student
3774	122	Psychometric quality of the Extended Cancer information Needs questionnaire (CaSUN-NL)	CAN, RES	Ilse Mesters	PhD
4920	123	Inpatient Rehabilitation Outcomes in Cancer Patients	CAN, OUT	Jacqueline Mix	MPH
3855	124	Therapies for Cognitive Deficits Associated with Chemotherapy for Breast Cancer: Systematic Review of Objective Outcomes	CAN, CP, RES	Diane Florence Morean	Ph.D.
4847	125	Functional Gain After Rehabilitation Program in Patients With Brain Tumor and Stroke	CAN, ST, CP, OUT	Louise Cunha Ramos	
3291	126	Pushing the boundaries: Occupational therapy’s role in oncology care across the lifespan	CAN, CP	Alix Sleight	OTD, OTR/L
3321	127	Rehabilitation Interventions and Coping Techniques for Chemotherapy-Related Cognitive Dysfunction	CAN, CP	Alix Sleight	OTD, OTR/L
4834	128	Pre-Screening for Distress in Patients Prior to Undergoing Allogeneic or Autologous Bone Marrow Transplantation	CAN, CP	Sean Smith	MD
3488	129	Exercise Interventions to Mitigate Side Effects of Myeloid Leukemia: A Systematic Review of the Literature	CAN, CP	Jenna Smith-Turchyn	PT, PhD(c)
3440	130	Self-Identified Needs and Priorities of Rehabilitation Outpatients With Brain Cancer and Their Family Carers	CAN, CP	Chris Tripp	MS, OTR/L
3453	131	Effect of Intense Activity-Based Therapy on Body Composition in Persons with Spinal Cord Injury	SCI, NS, CP	Todd Anthony Astorino	Ph.D
4115	132	Whole Body Vibration on Quality of Life in Spinal Cord Injury: Single Subject Research Design	SCI, PAIN, CP, TEC	Jami Bennett	
3882	133	Community & Social Participation After Spinal Cord Injury: An Evidence-Based Longitudinal Systematic Review	SCI, OUT, POL	Jami Bennett	MPT, Ph.D.
4105	134	The Biomechanics of Using a SmartDrive for Wheelchair Propulsion	SCI, TEC, NS	Jami Bennett	MPT, Ph.D.
3835	135	Using Six-Minute-Push-Test to Measure Cardiovascular Fitness in Spinal Cord Injury Patients in Indian Hospital Setting	SCI, DI, OUT, CP, POL	ANJALI Ravindra BHISE	MPT (Cardio-Pulmonary)
3141	136	Development Of A Peer-Led Phone Intervention For Goal-Setting Health Care Needs In Spinal Cord Injury	SCI, OUT, RES	Miriam Brody	
3605	137	Comorbidities and Age Related Conditions Among Persons with Spinal Cord Injury/ Disease (SCI/D)	SCI, PAIN, OUT, CP, RES, POL	Susan Charlifue	PhD, FISCoS, FACRM
3145	138	Fall-Induced Spinal Cord Injury: External Causes and Implications for Prevention	SCI, OUT	Yuying Chen	MD, PhD
4765	139	Psychological Effects of Robot-Assisted Gait Rehabilitation According to Degree of Paralysis in SCI	SCI, TEC	Duk Youn Cho	
4132	140	Construct Validity of the SCI-QOL Trauma Item Bank	SCI, RES, OUT, CP	Matthew Cohen	
3747	141	Explaining Functioning Disparities Associated with Social Participation and Functioning in SCI	SCI, OUT	Denise Fyffe	PhD
3452	142	Muscle Oxygen Utilization Following Activity-Based Rehabilitation in a Person With Incomplete Spinal Cord Injury	SCI, CP	Jared Gollie	
3469	143	Central Adiposity Ratio is influenced by Gender after Spinal Cord Injury	SCI, OUT, CP	Ashraf S. Gorgey	PT, PhD, FACSM
3609	144	Exoskeleton Training Improves Level of Physical Activity after Spinal Cord Injury	SCI, TEC, CP	Ashraf S. Gorgey	PT, PhD, FACSM

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2976	145	Prevalence of Depression, Fatigue & Sleep Disturbances in Patients with Myelopathy: Relation with Functional & Neurological Recovery	SCI, OUT	Anupam Gupta	MD
3812	146	The Effects of Upper Body Aerobic Exercise on Peak Aerobic Output in People with Spinal Cord Injury	SCI, CP	Therese E Johnston	PT, PhD, MBA
3811	147	Cycling with Functional Electrical Stimulation Pre and Post a Distal Femur Fracture in a Man with Paraplegia	SCI, TEC	Therese E Johnston	PT, PhD, MBA
3174	148	Implementation of Evidence-Based Practices in Traumatology Continuums of Care: A Multi-Site Assessment.	SCI, BI, CP	Dahlia Kairy	pht., Ph.D.
3224	149	The Bowel and Bladder Treatment Index (BBTI): A New Tool to Assess Bowel and Bladder Management in SCI	SCI, RES	Claire Kalpakjian	PhD, MS
3749	150	Perceived Workload Between Experienced & Novice Power Wheelchair Users While Using a Wheelchair Driving Simulator	SCI, ND, ST, BI, TEC, OUT, RES	Deepan C Kamaraj	M.D., M.S.
4939	151	Early detection of pressure ulcer development following traumatic spinal cord injury using inflammatory mediator concentrations	SCI	Shilpa Krishnan	Dr.
3760	152	Trialling an Online Intervention Treating Mood Disturbance in Persons With SCI	SCI, CAN, CP	Christine Migliorini	B App Sci, MPH, MSWQ, PhD, MAASW
3273	153	Efficacy of Addition of Transcutaneous Electrical Nerve Stimulation to Standardized Physical Therapy in Subacute Spinal Spasticity	SCI, CP	Win Min Oo	MBBS; MMedSc
4941	154	Neurophysiological Features Characterizing Forelimb Activity during Walking and Grooming Behaviors in Non-Injured Rats	SCI, NS, RES	Timothy Peng	
2936	155	Functional Impact of Ankle Clonus Based on Patient Perceptions	SCI, ST, ND, BI, OUT, CP, RES, POL	Chetan P. Phadke	BPhT, PhD
3826	156	Spinal Cord Injury Level, Physician's Visits, And Perceived Health's Impact on Participation And Autonomy	SCI, CP	Jennifer Ann Piatt	PhD, CTRS
3958	157	Posttraumatic Stress Symptoms Among Patients with Spinal Cord Injury During Acute Inpatient Hospitalization	SCI, CP	Megan Reynolds	MS
3478	158	Development of the New England Spinal Cord Injury Toolkit for Peer-to-Peer Clinical Education	SCI, CP	David Rosenblum	
2968	159	A Guide to Shoulder Pain Management Following Spinal Cord Injury	SCI, NS	Jennifer Lynne Silvestri	MS, OTR/L, CPAM, CKTP
3743	160	Functional Electrical Stimulation Rowing in Manual Wheelchair Users with Spinal Cord Injury and Shoulder Pain	SCI, PAIN, TEC, CP	Susan R Wilbanks	PhD, ATC, CSCS
3961	161	Staff Assessment of a Rehabilitation Hospital's Performance In Meeting the Health Literacy Needs of Inpatients	SCI, DI, CP	Anne T Woolsey	M.S.
3251	162	Preliminary Results on Effectiveness of Group Wheelchair Skills Training among Individuals With Spinal Cord Injury	SCI, CP, TEC	Lynn Worobey	PhD
3660	163	Effect of eccentric activity on contralateral limb force production in incomplete spinal cord injury.	SCI, NS, CP	Lise Worthen-Chaudhari	MFA, MS, CCRC
3822	164	Characterizing quadriceps eccentric function after locomotor training in individuals with incomplete spinal cord injury	SCI, NS, CP	Lise Worthen-Chaudhari	MFA, MS, CCRC
3022	165	In-Hospital Exoskeletal-Assisted Walking Velocity and Level of Assistance Assessment in Persons With Spinal Cord Injury	SCI, TEC	Ajax Yang	M.D.,P.T.
3796	166	The Effects of High Protein Diet and Combination Exercise on Metabolic Health in Individuals With Spinal Cord Injury	SCI	Ceren Yazar-Fisher	
3784	167	Cardiovascular Stress During Inpatient Spinal Cord Injury Physical and Occupational Therapy	SCI, CP	Dominik Zbogor	
4910	168	Quantifying Healthcare Utilization among Veterans with Spinal Cord Injury	SCI, OUT, MIL	Jason H. Raad	PhD
3499	169	Functional Outcomes beyond One Year in Survivors of West Nile Neuro-invasive Disease	SCI, BI, OUT, CP	Samuel Michael Bierner	MD, MRM
4100	170	Enhancement of Apoptosis by Titanium Alloy Internal Fixations During Microwave Treatments for Fractures: an Animal Study	SCI, CP, INT	Yuehong Bai	
4949	171	Impact Of Inaccessible Spaces On Community Participation Of People wWith Mobility Limitations In Zambia	DI, SCI, POL	Martha C Banda	PhD (Rehabilitation); MSMedSc (R

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3795	172	Quantifying Dynamic Cerebral Autoregulation using Electroencephalograms	ST, BI, RES, TEC	Garima Bajwa	PhD Candidate in Computer Scienc
3864	173	Long-term Outcome in Aphasia & Improvement From 15 to 66 Months Post Stroke	ST, OUT, NP, INT	Frank Becker	MD PhD
3932	174	Virtual Reality based Balance Task for Stroke Patients: Usability Study	ST, SCI, TEC, GER	ANJALI Ravindra BHISE	MPT (Cardio-Pulmonary0
3948	175	Trends of Functional Outcomes, Length of Stay, and Discharge Disposition after Inpatient Stroke Rehabilitation	ST, INT, OUT	Saad M Bindawas	PT, PhD
4930	176	Stroke Survivor Gait Adaptations Using Asymmetric Forces With the Tethered Pelvic Assist Device	ST, TEC, NP	Lauri Bishop	PT, DPT
4239	177	Mirror Therapy and Task Oriented Training to Improve UE Function after Stroke: A Case Series	ST, CP, RES	Salvador Bondoc	OTD, OTR/L, FAOTA
3468	178	The impact of concussion legislation on education and knowledge in student athletes	ST, BI, ND, CP	Miriam Carroll-Alfano	M.S., CCC-SLP
3492	179	Not as Expected! Length of Stay in Inpatient Rehabilitation Facilities	ST, OUT, POL	Catherine Cooper Hay	
4141	180	Total therapy time and time by therapy discipline is associated with rehabilitation outcomes among stroke inpatient rehabilitation patients.	ST, OUT	Margaret Anne DiVita	MS, PHD
4164	181	Development of an American version of the Nottingham Sensory Assessment	ST, CP, RES	Susan Dale Doyle	PhD OTR.L
4935	182	Feasibility, Intensity and Safety of Recumbent Stepper High-intensity Interval Training in Chronic Stroke	ST, NS, NP, CP	Kari Dunning	PT, PhD
3372	183	Can Technology-Assisted Toilets Improve Quality of Life for Rehabilitating Stroke Patients? A Pilot Cohort Study	ST, TEC	Hillel Finestone	
3132	184	The Nuts and Bolts of a Disability-Knowledgeable Primary Care Model	ST, SCI, ND, BI, CP, OUT	Nancy A. Flinn	OTR/L
3133	185	A Medical Home for Persons with Disabilities: Improved Health and Patient Engagement, Decreased Cost	ST, SCI, ND, BI, OUT, CP	Nancy A. Flinn	OTR/L
3678	186	Safety, Tolerability, and Effectiveness of Dextromethorphan/Quinidine for Pseudobulbar Affect in Patients with Stroke: PRISM-II	ST, CP	Andrea Formella	
4760	187	Treatment of Post-Stroke Hemispatial Neglect With 3D Gaming Therapy	ST, TEC, CP	Lynne Gauthier	PhD
3781	188	Communication with Patients with Communication Disorders in a Rehabilitation Hospital: Staff's Perceptions and Practices	ST, BI, CP	Mali Gil	
3725	189	Effect of Location of Stoke on Dual-Task Interference During Walking	ST, CP	Amber Janae Hagel	M.A. expected June 2015
4905	190	Roles of Lesion Volume and Lesion Location in Post-Stroke Arm Impairment	ST, NS, CP	Rachael Harrington	M.A., M.S., CCC-SLP
3875	191	Formative evaluation of the Healthy Eating and Lifestyle After Stroke intervention	ST	Valerie Ann Hill	PhD, MS, OTR/L
3782	192	Transcranial Direct Current Stimulation for a Patient With Chronic Right Hemiparesis: a Case Report	ST, TEC, NS, MIL	April T Hodge	PT, DPT, NCS
3267	193	Bilateral Hearing Loss From Selective Strokes Involving The 4th Order Neurons Of The Hearing Pathway and Novel Approach to Rehabilitation.	ST, ND, TEC, NS	Omar Jafry	
3435	194	Effectiveness of Hospital-based Outpatient Stroke Rehabilitation.	ST, CP	Shannon Janzen	MSc.
3828	195	Treatment of Vascular Depression and Post Stroke Depression using Repetitive Transcranial Magnetic Stimulation: Systematic Review	ST, RES, TEC	Shannon Janzen	MSc.
3532	196	All You Need is LOS: Effects of Acute and Post-Acute Lengths of Stay on Patient Outcomes	ST, OUT	Jessica Jarvis	MT-BC
4934	197	Home-Based Mirror Therapy for Post-Stroke Upper Extremity Pain: A Case Study	ST, PAIN, CP	Steven Jax	
3103	198	Using a virtual reality gaming system to supplement upper extremity rehabilitation post stroke	ST, TEC, NS	Dahlia Kairy	pht., Ph.D.
3087	199	Combined Clinic-Home Approach for Upper Limb Robotic Therapy After Stroke: A Pilot Study	ST, TEC, CP	Grace J Kim	MS, OTR/L
3881	200	Pre-discharge Education for Families With Stroke: An Online Survey of Occupational Therapists	ST	Kathy Kniepmann	OTD, MPH, CHES
3210	201	Assessing for Hemi-spatial Neglect using Eye Tracking Glasses	ST, BI, CP, TEC	Brenton Kortman	OTD
3813	202	Pilot study evaluating functional outcome post-intervention for patients with acquired brain injury and their caregivers	ST, BI, CP	Kamini Krishnan	Ph.D

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ID#	EXPO #	POSTER TITLE	TOPIC AREAS	PRESENTER NAME	CREDENTIALS
3474	203	Post-stroke symmetrical gait rehabilitation: a pilot study.	ST, TEC, CP	Vennila Krishnan	PT, PhD
3602	204	Motor Imagery Training on Muscle Strength and Gait Performance in Ambulant Stroke Subjects-a Randomized Clinical Trial.	ST, CP	Vijaya Kumar	M.PT
4931	205	Post-stroke Cognition, Continence and Transfers on Discharge from Inpatient-Rehabilitation Following Complete Urinary Incontinence on Admission	ST, OUT	David S. Kushner	MD
4946	206	Improving Participation after Stroke: A Self-Management Program for A Healthy and Active Life after Stroke	ST, BI, CP	Danbi Lee	OTD, OTR
3463	207	Evaluation of a New Community Stroke Holistic 6-Month Review Service	ST, CP, INT	Julia Nicole Mardo	BSc(Hons), MCSP
3439	208	Correlates of Depressive Symptoms in Stroke Outpatients	ST, CP	Amanda McIntyre	MSc
3836	209	The use of Repetitive Transcranial Magnetic Stimulation for Spasticity Post Stroke	ST, CP	Amanda McIntyre	MSc
3808	210	Complementary and Alternative Medicine in Stroke Rehabilitation: A Systematic Review	ST, RES	Amanda McIntyre	MSc
3959	211	Yoga after stroke leads to improvements in multiple domains of quality of life	ST	Kristine K. Miller	PT, PhD
3955	212	Gait Speed and Step Parameter Changes after Therapeutic-Yoga in People with Stroke: A Pilot Study	ST, OUT, CP	Kristine K. Miller	PT, PhD
3879	213	EMG Activation During a Single Session of Stroke Inpatient Gait Training in a Robotic Exoskeleton	ST, DI, TEC, CP, NS, OUT, RES	Karen J. Nolan	PhD
3728	214	Interactive Exoskeleton Robotic Knee System for Stroke Rehabilitation: A Case Report	ST, BI, TEC, NS, CP, GER	Corinna Ockenfeld	
3723	215	Predicting Participation Level Six Month following Inpatient Stroke Rehabilitation	ST, BI, OUT, POL	Michael O'Dell	MD
3716	216	Residual Barium in the Pharynx after Swallowing: Two-dimensional Area does not Predict Actual 3D Volume	ST, ND, CAN, TEC, RES, CP	Charles Amoatey Odonkor	M.D., M.A.
3050	217	Portable myoelectric brace use improves self-reported function but not reaching kinematics in patients >1 year post-stroke	ST, CP, TEC, OUT	Stephen Page	PhD, OTR/L
3726	218	Retention of Distributed Practice Effect During Mental Practice in Hemiparetic Stroke	ST, NS	Stephen Page	PhD, OTR/L
3861	219	Modification, Optimization, and Psychometric Evaluation of the Arm Motor Ability Test	ST, OUT, RES	Stephen Page	PhD, OTR/L
2937	220	Seasonal variations in spasticity, botulinum toxin dose, outdoor activities, and associated barriers	ST, ND, SCI, BI, CP, POL, NS	Chetan P. Phadke	BPhT, PhD
3762	221	Role Of Care Givers Training For Home Care Management Of Stroke Survivors In Bangladesh	ST, OUT, CP	Shahidur Rahman	MD, FCPS
3591	222	The Effect of Hyperbaric Oxygen Therapy on Functional Impairments Caused by Ischemic Stroke.	ST, CP, OUT	Sheila Rosenberg	PhD
3434	223	Predicting Discharge Destination With Admission Outcomes Following Stroke	ST, OUT, RES, CP	Sheila Rosenberg	PhD
3755	224	Be aware of differences when comparing results of stroke rehabilitation in different countries	ST, OUT, RES, CP	Katharina S Sunnerhagen, -	MD, PhD
3814	225	Incidence and co-occurrence of spatial neglect and spasticity, a prospective multi-centre study	ST, BI, OUT, RES, INT	Mohammed Sakel	
3871	226	Return to Work Services for Younger Stroke Survivors: A Survey of Practice Patterns and Perceptions	ST, CP	Shannon L Scott	OTD, OTR/L
3810	227	Comparison of Contralesional and Ipsilesional Repetitive Transcranial Magnetic Stimulation in Stroke Patients	ST, TEC	Vivek Sharma	MPT(Neuro)
3983	228	Rehabilitation of the Upper Limb Post Stroke: MRI results of a Randomized Controlled Pilot Study	ST, BI, CP, NP, NS, OUT	Gregory Thomas Thielman	EdD, MSPT, ATC
4909	229	Neurofeedback as a Form of Cognitive Rehabilitation Therapy Following Stroke: A Systematic Review.	ST, CP	Alana Tibbles	MSc. Rehabilitation Sciences (Ca
3850	230	A Multifaceted Approach to the Enhancement of Motor Recovery after Stroke	ST, BI, NS, TEC	Duc Tran	
3190	231	High-force Haptic Rehabilitation Robot and Motor Outcomes in Chronic Stroke: A Case Study	ST, BI, DI, TEC, NS	Carol A. Wamsley	PT, DPT, BS, NCS, CBIS
3370	232	An Interdisciplinary Approach to the Rehabilitation of a Patient with Balint's Syndrome: A Case Report	ST, BI, CP, GER	Stephanie Windler	PT, DPT, NCS
3508	233	Hemiparetic Positioning of Hemiplegic Patients	ST, BI, ND, PAIN, SCI, CP, OUT, POL, GER, MIL	Rhonda Winegar	DNP, FNP-BC, CCRN, CPN

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ID#	EXPO #	POSTER TITLE	TOPIC AREAS	PRESENTER NAME	CREDENTIALS
4143	234	Validity and reliability of two reachable workspace volume protocols in able-bodied and stroke subjects	ST, RES, NS, CP	Craig David Workman	MS
3374	235	Can Revised Nottingham Sensation Assessment Predict and Respond to Sensorimotor and Daily Function after Rehabilitation in Patients with Stroke	ST, CP	Ching-Yi Wu	ScD, OTR
4925	236	Effectiveness of Traditional Chinese Medicine Therapy to Treat Muscle Hypertonia After Stroke	ST, CP	Qun Xu	
3758	237	Mitral Valve Endocarditis leading to Septic Arthritis and Stroke: A Case Report	ST, CP	Ashish Kumar	D.O.
4125	238	Meaningful Functional Change From Physical Therapy Provided in a Student Run Pro-Bono Clinic	ST, ND, BI, POL, OUT, GER	Suzanne R O'Brien	PT, PhD, NCS
4156	239	III. Development of a Quantitative Portable Assessment of Spasticity	ST, SCI, BI, TEC, CP	Anna E. Boone	OTR/L
4851	240	Impact of coping skills intervention group for patients with acquired brain injury and their caregivers.	BI, ST, OUT	Thomas F. Bergquist	PhD
3748	241	EEG Power Spectrum Changes Induced by Repetitive Transcranial Magnetic Stimulation (rTMS) in Two Vegetative Patients	BI, RES, NP, CP	Brett Blabas	MS
3023	242	Utility of the Coma Recovery Scale-Revised Total Score in Detecting Conscious Awareness	BI, CP, RES, OUT	Yelena Bodien	
3416	243	An empirical classification scheme for detection of impossible and improbable CRS-R subscore combinations	BI, RES, CP	Yelena Bodien	
3785	244	Sleep Misperceptions in Blast-Exposed OEF/OIF/OND Veterans	BI, CP, TEC, MIL	Yelena Bogdanova	PhD, PhD
3283	245	Considering the Role of Moral Injury and Spiritual Health in OEF/OIF Veterans with Mild TBI	BI, NS, MIL	Lisa Brenner	PhD
3773	246	Self-Reported Sleepiness and Relationship to Objective Sleep Quality Measures Using Actigraphy in Acute TBI.	BI, CP, MIL, RES	Katherine McIntyre Burns	Ph.D.
3384	247	First Year Follow-up of Traumatic Brain Injury: The Effect of Employment on Life Satisfaction, Depression, and Anxiety	BI, CP, RES	Tamara Bushnik	PhD
3839	248	First Year Follow-up of Traumatic Brain Injury: The Effect of Social Integration on Life Satisfaction, Depression, and Anxiety	BI, OUT	Tamara Bushnik	PhD
3543	249	Impact of Intensive Exercise on Physical Function of Adults With Chronic-Moderate-to-Severe Brain Injury	BI, OUT, CP	Ann L Charrette	PT DPT MS NCS PCS
3737	250	Body Mass Index following Traumatic Brain Injury: Demographic and Psychosocial Variables at Injury and One-year Follow-up	BI, OUT	Amanda Childs	Ph.D.
3851	251	Integrating Opportunities for Family Involvement Into a Manualized Goal Self-Management Intervention for Veterans With mTBI	BI, CP, MIL	Samantha Cichon	BA
4885	252	Work-related traumatic brain injury: Perceptions of prevention, training, and safety climate	BI, OUT, CP	Angela Colantonio	PhD, FACRM
4914	253	Comparing TBI patients in the Canadian Versus American Inpatient Rehabilitation: Long-Term Outcomes	BI, OUT, INT, CP	Angela Colantonio	PhD, FACRM
4947	254	Re-hospitalization after Traumatic Brain Injury: A Population Based Study	BI, OUT, POL	Angela Colantonio	PhD, FACRM
4898	255	Prevention of work-related mild traumatic brain injury: The injured worker perspective	BI, POL	Angela Colantonio	PhD, FACRM
3653	256	Thalamic Functional Connectivity in Mild Traumatic Brain Injury	BI, NP, CP	Rogelio Adrian Coronado	PT, PhD
3923	257	Modifying an Evidence-Based Lifestyle Program for Individuals with Traumatic Brain Injury	BI, CP	Simon Driver	PhD
3672	258	Empirically-supported programs for caregivers of adults with traumatic brain injury: A systematic review.	BI, CP	Colette Seter Elliott	Ph.D.
4102	259	The Benefits of TeleCognitive Training on Depressive Symptoms in Adults with Traumatic Brain Injury	BI, OUT, TEC, MIL	Benjamin Douglas Eschler	
3971	260	Distinction in EEG Slow Oscillations Between Chronic Mild Traumatic Brain Injury and Posttraumatic Stress Disorder	BI, NS, OUT	Laura Franke	
4923	261	Is the Near Point Convergence Test a Valid Assessment of Chronic Post Concussion Recovery?	BI, DI, ST, CP, OUT, PED, GER, MIL	Denise Gobert	PT, PhD, NCS, CEEAA
3588	262	Misconceptions and misattributions about traumatic brain injury: An integrated conceptual framework	BI, CP	Yelena Goldin	PhD

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4867	263	Sex Differences in Postconcussion Syndrome Symptom Reporting	BI, CP	Yelena Goldin	PhD
3968	264	Behavioral Intervention for Chronic Perseverative Speech After Brain Injury	BI, CP	April Groff	
4136	265	Effect of Focused Behavior Intervention on Durability of Outcomes in Post-Acute Brain Injury Rehabilitation	BI, PAIN, SCI, CP, OUT	April Groff	
3858	266	Comparison of Two Outcome Assessments for Evaluating Neurobehavioral Function in Persons with Disordered Consciousness	BI, RES, OUT	Ann Guernon	MS, CCC-SLP, CCRC
3505	267	Virtual-Reality Based Therapy for Balance Deficits During Traumatic Brain Injury Inpatient Rehabilitation	BI, CP, TEC, RES	Kaitlin Hays	PT, DPT, NCS
3604	268	Computerized Training of Working Memory for Patients With Acquired Brain Injury	BI, CP	Lovisa Hellgren	
3382	269	Unmet Concussion Care Needs From the Perspective of Individuals With Mild Traumatic Brain Injury	BI, CP, OUT	Mark A. Hirsch	PhD
3651	270	The effect of cognitive task complexity on postural sway in adults following concussion	BI, NS	Mark A. Hirsch	PhD
4129	271	Anger Issues in Individuals with TBI: Prevalence and Cognitive Risk Factors	BI, OUT, CP	James Holdnack	Ph.D.
3821	272	Initial Response to Prism Treatment in an Inpatient Rehabilitation Hospital Setting: Preliminary Results	BI, ST, ND, CP, OUT, PED, GER, MIL	Kevin Edward Houston	O.D.
3984	273	Inflammation And Apathy Associations In The First Year After Traumatic Brain Injury	BI, OUT	Shannon B Juengst	CRC
3179	274	Preparing to implement a tool in clinical practice: Developing and implementing KT strategies	BI, DI, CP	Dahlia Kairy	pht., Ph.D.
3223	275	Using Cognitive Interviews for Women's Health Research in TBI	BI, RES	Claire Kalpakjian	PhD, MS
3846	276	Associations Between Self-Discrepancy, Perfectionism, Depression and Anxiety in Individuals With TBI	BI, CP	Erica Kaplan	Ph.D.
3849	277	Assessment of Brain Injury Among Collegiate Athletes	BI, CP	Erica Kaplan	Ph.D.
3910	278	Peer mentoring after traumatic brain injury (TBI) & a valuable experience for mentees and mentors	BI, CP	Paula Kersten	
3930	279	Rasch analysis of Neurobehavioral Functioning Inventory in people with traumatic brain injury	BI, RES	Paula Kersten	
3650	280	HRV Biofeedback, Brain Injury, and Problem Solving: The Moderating Effect of Positive Affect	BI, DI, CP	Sonya Kim	PhD
3979	281	Executive Functioning in Traumatic Brain Injury: A Detailed Investigation of the Hayling Test	BI, RES, CP	Matthew John Kmiecik	
3975	282	Effect of Bladder Dysfunction on Disability and Community Participation in Individuals with Traumatic Brain Injury (TBI)	BI, OUT	Denise Krch	PhD
3757	283	Outcomes for Traumatic Brain Injury in Inpatient Rehabilitation by Facility Volume	BI, POL, OUT	Kshitija Kulkarni	MS OTR/L
4086	284	Individualized neuro-cognitive rehabilitation can reverse cognitive and memory impairment irrespective of etiology: Prospective pilot study	BI, NP, NS, CP	Suresh Kumar	MD
3869	285	Minimally Conscious State Predicts Emergence from Disorders of Consciousness during Acute Inpatient Rehabilitation	BI, OUT, CP	Sarah Lahey	PhD
4936	286	Feasibility of Psychoeducation and Strategies Group Program for Patients with Concussion	BI, CP	Donna Langenbahn	PhD
4938	287	Group Treatment for Individuals with Post-Concussion Syndrome: A Pilot Study of Feasibility and Initial Efficacy	BI, CP, OUT	Donna Langenbahn	PhD
3969	288	Premorbid Concussion and its Effects on Recovery Following Traumatic Brain Injury (TBI)	BI, OUT	Anthony Lequerica	Ph.D.
3740	289	Hospitalization Trends and Characteristics of Pediatric Traumatic Brain Injury in Texas, 2008 - 2013	BI, OUT	Nina Leung	Ph.D.
3943	290	Analysis of a Comprehensive Dysphagia Protocol for Adults with TBI in a Post Acute Rehab	BI, OUT, CP	Beth Levitan	M.A. CCC-SLP
3113	291	Functional Impact of Depression on Traumatic Brain Injury Outcomes	BI, OUT, CP	Frank David Lewis	Ph.D.
4150	292	Prospective Tracking and Analysis of TBI in Veterans and Military Personnel at Palo Alto DVBIC	BI, RES, OUT	Nytzia Licona	
3868	293	The Coma-Near Coma Scale: An Examination of the Psychometric Properties using Rasch Analysis	BI, CP, RES, MIL	John Liu, Jr.	OTR/L

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3962	294	DTI Metrics Discriminate TBI Patients from Neurologically Healthy Controls A ROC Analysis in Veterans	BI, ND, ST, NS, RES, MIL	Keith Leonard Main	Ph.D.
3363	295	Reliability and Validity of the PERPOS for Post-Acute Brain Injury Rehabilitation	BI, ST, PAIN, CAN, CP, RES, NS, OUT, POL, INT, GER	Carlos Daniel Marquez de la Plata	PhD
3970	296	Cognitive Improvements after TBI intervention Measured by Multiple Correspondence Analysis	BI, RES, CP	David Martinez	B.A.
3401	297	Current Practices and Perceived Needs of Community-Based Brain Injury Rehabilitation Programs	BI, CP	Ann Marie McLaughlin	Ph.D.
4891	298	Insomnia in workers with delayed recovery from mild traumatic brain injury	BI, PAIN, CP	Tatyana Mollayeva	MD, PhD
4083	299	Insomnia as a covariate of community integration in workers with delayed recovery from mild traumatic brain injury	BI, OUT, POL, CP, RES	Tatyana Mollayeva	MD, PhD
3451	300	Impact of Sleep-Promotion Education on Nursing Knowledge and Attitude in BI and SCI Inpatient Programming	BI, SCI, CP	Risa Nakase-Richardson	PhD
4861	301	A partnership between a service provider and academic institution to support early career researchers	BI, ST, CP	Emily Joan Nalder	PhD
3870	302	Executive Function Training in Veterans with Chronic TBI: Short and Longer Term Outcomes	BI, ND, CP, MIL	Tatjana Novakovic-Agopian	PhD
3274	303	Pre-injury Family Functioning and Resources as Predictors of Outcomes in Persons With Mild TBI	BI, OUT	Monique Renae Pappadis	Ph.D.
3884	304	Post-injury Coping and Acceptance of Injury Among Men and Women With Traumatic Brain Injury	BI, OUT, CP	Monique Renae Pappadis	Ph.D.
3798	305	Objective and Subjective Measures of Cognitive Fatigue in Traumatic Brain Injury	BI, RES	Melissa Shuman Paretsky	Ph.D.
3199	306	Early Neurorehabilitation Psychology Intervention Results in Reduction of Length of Stay After Acute TBI	BI, CP	Ferzeen Khushroo Patel	Psy.D.
4872	307	Impact of Religious Attendance on Psychosocial Outcomes For Individuals With Traumatic Brain Injury	BI, OUT	Angela Philippus	
3378	308	Computerized Biofeedback Intervention to Improve Balance After Traumatic Brain Injury: A Case Study	BI, NS	Rakesh Pilkar	Ph.D.
3803	309	Training Executive Functions using Adaptive Motion-Interaction Video Games in Traumatic Brain Injury ‐ Pilot study	BI, DI, ND, CAN, ST, NP, OUT, NS, CP	Son Preminger	PhD
4844	310	Transdisciplinary Individualized Patient Protocols- A Pilot Study In Inpatient Neurorehabilitation	BI, CP	Liat Rabinowitz	M.S.CCC/SLP
4101	311	Meaningful Recovery Using Visual Therapy in a Patient with Balint Syndrome	BI, CP	Corey Reeves	M.D.
3369	312	Cognitive and Physical Recovery After Cranioplasty in a Patient with Syndrome of the Trephined	BI, CP, MIL	Corey Reeves	M.D.
4918	313	Chronic Changes In Brainstem Fiber Tract Integrity Following Traumatic Brain Injury	BI, NS	Saadeddine Saad	
3681	314	Emotional Correlates of Unirhinal Odor Identification	BI, ND, NS, OUT	Mohammed Sakel	
4945	315	Healthcare Utilization Post-Traumatic Brain Injury: Analysis of Regional Hospital Council Data	BI, OUT	David Salisbury	PsyD
3281	316	Sexual Functioning of Partners of Persons With Traumatic Brain Injury	BI, OUT	Angelle M. Sander	PhD
3502	317	Parenting in Adults with Traumatic Brain Injury	BI, OUT, CP	Angelle M. Sander	PhD
3313	318	Unexpected Improvement Following OSA Treatment During Post-acute Recovery From Brain Injury and Minimally Conscious State	BI, CP, MIL	Marc A. Silva	Ph.D.
4901	319	Determinants of Delayed Discharge from Acute Care among Patients With Hypoxic-ischemic Brain Injury	BI, OUT, CP, POL	David Stock	
4916	320	Women are Less Likely to be Admitted for Inpatient Rehabilitation After Hypoxic Ischemic Brain Injury	BI, OUT, CP	David Stock	
4917	321	Change in Functional Outcomes During Inpatient Rehabilitation for Patients With Hypoxic-Ischemic Brain Injury	BI, OUT, CP	David Stock	
3319	322	Systematic Implementation of Cognitive Rehabilitation Techniques in an Outpatient Brain Injury Treatment Setting	BI, CP	Iarissa Swan	MSOTR
4890	323	Veterans With Severe TBI Complicated by Disorder of Consciousness: Caregiver Stress and Needs Assessment	BI, POL, MIL	Johanna Tran	MD

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3606	324	TeleCognitive Training In Adults With Traumatic Brain Injury	BI, CP	Asha K. Vas	
3974	325	The Association Between Motor Findings at Discharge and the Need for Supervision at 1 Year After Traumatic Brain Injury (TBI)	BI, CP	Irene Ward	DPT
4900	326	Assessing Attention: Relationship Between Circular Visual-Tracking and Spatial Span, and Implication for Electronic Assessment.	BI, CP, RES	Samantha Wasserman	
3750	327	Instrumented stand and walk in single and dual-task conditions in healthy and Soldiers with mTBI	BI, RES, MIL	Margaret (Maggie) M. Weightman	PT, Ph.D.
4929	328	Reliability of Self-Reported Concussion History With and Without Cognitive Impairment	BI, CP	Kristin Wilmoth	
3954	329	Health-Related Quality of Life in Caregivers of Service Members or Veterans with Traumatic Brain Injury	BI	Noelle Carlozzi	
3450	330	Investigating Preseason Symptoms of Depression and Concussion in Adolescent Athletes.	BI, OUT	Tian Renton	
3293	331	Unilateral Transtibial Amputees Use Symmetric Joint Moments and Response Latencies Following Perturbations	DI, TEC, NS	Jonathan S Akins	Ph.D.
3598	332	Studying Treatments and Effectiveness of Prosthetic Services (STEPS): Utilizing a Regional Collaborative Longitudinal Outcome Database (CLOUD)	CAN, TEC	Tamara Bushnik	PhD
3885	333	Empowering Patients: The Use of Eye Gaze Technology with Medically Complex Patients in the ICU	DI, ND, CAN, ST, SCI, BI, TEC, CP, NS, OUT, RES	Kelly Casey	OTD, OTR/L, ATP
3775	334	Plasticity Associated with Learning to Use an Advanced Upper Limb Prosthetic Device: A Neuroimaging Study	TEC, NP, MIL	Susan Fasoli	ScD OTR/L
3751	335	Fitts Law Extensions for Multiple Joint Movements	TEC, RES	Neeraj K Gupta	Phd
3735	336	Effects of Diabetes Mellitus on Intraoperative Monitoring of Somatosensory Evoked Potentials	TEC	Hyun Mi Oh	M.D.
3872	337	Multidisciplinary Development of Bracing Protocol for Stable Thoracolumbar Fractures	DI, CP, TEC	Debra A Fournier	APRN
3396	338	Embedding interdisciplinary best practices in the design of a client-centered home assessment app	DI, CP, TEC	Noralyn Davel Pickens	OT
3147	339	Utilizing A Trial of Cognitive Rehabilitation in Determining Candidacy for Renal Transplantation: A Case Study	BI, CP, TEC, MIL	Dorothy Porcello	MSOT, OTR/L
4971	340	Use of Cortical Surface Stimulation towards Reliable Sensation in Human	NS, TEC	Shivayogi V Hiremath	PhD
4157	341	Virtual reality for shaping compensation during upper extremity rehabilitation	DI, ST, BI, TEC, NS	Matthew Hale Foreman	BSME
4942	342	Does time/day of admission predict unplanned transfers from inpatient rehabilitation?	DI, OUT	Librada Callender	CCRC
4082	343	Home-time following discharge from post-acute rehabilitation for Medicare fee-for-service patients.	OUT	Michael Paul Cary, Jr.	RN
4469	344	Evaluating Comorbidity Indices for Predicting 30-Day Readmission after Post-Acute Inpatient Rehabilitation Stay in Older Adults	DI, OUT, POL, GER	James Graham	PhD, DC
4904	345	Analysis of 30-Day Unexpected Readmissions From Inpatient Rehabilitation at an Academic Acute-Care Hospital	DI, OUT, CP	David S. Kushner	MD
3128	346	Injuries and rehabilitation to professional players of team sports.	OUT	Anna Lipert	
3142	347	Characteristic of injuries and rehabilitation to professional rugby players.	OUT, INT	Anna Lipert	
4897	348	Development of a Brief Measure of Organizational Readiness for the Implementation of Measurement Protocols	DI, OUT, CP	Jason H. Raad	PhD
4908	349	The Development of Common Data Elements for Spinal Stenosis	OUT	Jason H. Raad	PhD
4933	350	Identifying Measurement Priorities using the International Classification of Functioning, Disability, and Health (ICF)	OUT, RES	Jason H. Raad	PhD
3976	351	Implementing Training Resources Across Educational Contexts and Domains: A Pilot Study	DI, CP, OUT	Jason H. Raad	PhD
3301	352	Measuring Community Integration in Persons with Limb Trauma and Amputation: A Systematic Review	OUT	Linda J Resnik	PT, PhD
4889	353	Preliminary analysis of effect of body mass index and health outcomes across the continuum of care post-traumatic injury	DI, OUT	Megan Reynolds	MS
3620	354	A New Scale for Predicting Fall Risk in Acute Inpatient Rehabilitation Facilities	DI, BI, ST, OUT, CP, RES	Sheila Rosenberg	PhD

KEY

BI: Brain Injury; SCI: Spinal Cord Injury; ST: Stroke; CAN: CANcer; PAIN: Pain Rehabilitation; ND: Neurodegenerative Diseases; NP: NeuroPlasticity; PED: Pediatric Rehabilitation; POL: Health POLicy; GER: GERiatric Rehabilitation; INT: INTernational; TEC: TEChnology; DI: Diagnosis Independent; MES: MEaSurement; MIL: MILitary/veterans affairs; NS: NeuroScience; OUT: OUTcomes research; RES: RESearch methods; CP: Clinical Practice



ID#	EXPO #	POSTER TITLE	TOPIC AREAS	PRESENTER NAME	CREDENTIALS
3490	355	Defining Self-Efficacy for Managing Chronic Conditions and Identifying Priority Sub-domains: A Web-based DELPHI Technique	DI, OUT	pallavi sood	PT, MSPO
3840	356	A Virtual-Reality Weight Loss Program for Women with Mobility Limitations: Results of a Pilot Study	DI, ND, ST, SCI, BI, CP, OUT, RES, POL	Margaret A. Nosek	PhD
3729	357	Comorbidity Forces Physiotherapists to Deviate From Guidelines: a Vignette Study	CP, OUT, POL	Sarah Dörenkamp	MSc
3327	358	Complications Observed During Acute Inpatient Rehabilitation In Patients Following Left Ventricular Assist Device Placement	CP, OUT	Matthew B Sonagere	D.O.
3343	359	Bariatric-Surgery Related Malnutrition and Memory Issues: A New Non-alcoholic Korsakoff's Syndrome?	NS, OUT, CP	Kathryn E. Oden	
4146	360	The Effects of Reduced Sensation and Altered Proprioception on Rate of Loading	DI, NS	Raul Amador	B.S.
3966	361	A Novel Clinical Outcomes Assessment System for Precision Medicine in Rehabilitation	DI, ND, PAIN, CAN, ST, SCI, BI, CP, RES, OUT	Chih-Hung Chang	Ph.D.
3921	362	Early Rehabilitation in the Medical and Surgical Intensive Care Units: A Performance Improvement Project	DI, CP	John Corcoran	
4053	363	Pathological changes of the joint capsule from frozen shoulder	DI, CP	Yoshihiro Hagiwara	MD, PhD
3857	364	The Birmingham-Lakeshore Aging with Disability Exercise Environment Study (BLADE2S): Methodology	DI, RES	Cassandra Herman	MS
4117	365	Developing a Measure of Evidence-Informed Professional Thinking	DI, CP, RES	Mark V Johnston	PhD, FACRM
3068	366	Can change agents improve best practice uptake in a rehabilitation setting? The clinician's perspective	DI, ST, SCI, BI, CP	Dahlia Kairy	pht., Ph.D.
3547	367	RehabMaLL Living Lab Community of Practice : Learning Together to Improve Social Participation for People with Disabilities	DI, RES	Dahlia Kairy	pht., Ph.D.
3972	368	Survey of International Interest in Research Collaboration among ACRM Membership	DI, INT	Donna Langenbahn	PhD
3949	369	A controlled clinical trial on balance parameters improvement after physical rehabilitation in Ankylosing Spondylitis	DI, CP	Stefano Masiero	M.D.
3643	370	The Effect of Education on the Rehabilitation Knowledge of Chinese Nurses	DI, INT, CP	kristen Lee Mauk	PhD, DNP, CRRN, GCNS-BC, GNP-BC,
3863	371	The Portable Health Profile for Inpatient Rehabilitation in the EHR	DI, CP, POL, GER	Ann McEnroe-O'Connor	PT, MBA
3607	372	Perceptions of Multicultural Competency among Psychologists Who Serve People with Disabilities	DI, CP, POL	Marlene Vega	Psy.D.
3299	373	Integration of a Hybrid Program: Impacting Individualized Therapy Outcomes	DI, CP	Julie Wooster	
4700	374	TUG and 2MWT: Important Functional Outcome Measures for Acute Rehabilitation and the post-op Cardiac Population	CP	Lindsay Ashmont	PT, DPT
4969	375	Isometric Handgrip Exercise to Reduce Hypertension for Stroke Prevention and Recovery	ST	Debra Jane Carlson	BSc(hons)
3663	376	An Interdisciplinary Approach to Atypical Guillian-Barre Syndrome with History of Methimazole Use: A Case Report	CP, NS	Jennifer Eftychiou	PT, DPT
4133	377	Interdisciplinary Collaboration Utilizing a Communication Framework	CP, RES, PED	Brenna Giovannetti	RN
3801	378	Protective Effects of Sesamol on Streptozotocin Induced Diabetic Neuropathy in Rats	CP	Young Jin Ko	M.D.
4860	379	Tizanidine and Speech Therapy for Spastic Dysarthria: A Case Study	DI, BI, NS, CP	Nita H Mukand	BA
4864	380	Understanding the Nature of Home Exercise Programs for Persons with Neurological Disorders	CP	Rachel Proffitt	OTD, OTR/L
3794	381	Accuracy of Injection Site for Obturator Nerve Block in Cadavers: Blind Injection vs. Ultrasound-guided Injection	CP	Bomi Sul	
4895	382	The Amputee Experience of Viewing Self in a Mirror	CP	Lisa W Thomas	RN
3449	383	Effect of Neuromuscular Electrical Stimulation Intervention on Muscle Function of the Infrapinatus	CP	Ko Yanase	P.T.
3328	384	Increasing The Degree To Which Evidence-Based Practice Is Carried Out By OTs At Magee Rehabilitation Hospital	CP	Debra S Zelnick	OTD,OTR/L

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