Abstract

Course Synopsis: This course will present a conceptual framework that has been developed by an interdisciplinary team of experts for specifying and classifying rehabilitation interventions according to their underlying treatment theories. Current efforts to develop treatment specification guidelines will be discussed, as well as the benefits of improved specification for SCI research, clinical education, and clinical practice. Key concepts include: (1) Treatment theories consist of three parts that may be used to specify any rehabilitation treatment: active ingredients (actions, chemicals, devices, or forms of energy delivered or selected by a clinician), target (a measurable aspect of functioning that is to be changed), and mechanism of action (the known or hypothesized process by which the active ingredients bring about change in the target). (2) Rehabilitation interventions fall into four treatment groupings, defined by the target of treatment: structural tissue properties, organ (system) functions, skilled performances, and cognitive and affective representations. (3) Many rehabilitation “treatments” are combinations of treatment components, each with its own target. Course participants will specify SCI treatment examples and discuss how treatment theory driven specification will improve our ability to describe and quantify the specific interventions delivered in SCI rehabilitation, compare the effectiveness of different treatments, and transfer knowledge from expert to novice clinicians to improve quality of care.

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Objective 1. Define the three parts of a treatment theory.

Objective 2. Identify four treatment groupings into which rehabilitation interventions provided by all disciplines fall.

Objective 3. Name at least three ways in which treatment theory driven treatment specification is expected to improve SCI research, education, and clinical practice across disciplines.

Presenters Listed
Jeanne M. Zanca, PhD, MPT1, Marcel P. Dijkers, PhD2, Tessa Hart, PhD3, John Whyte, MD, PhD3, Andrew Packel, MSPT3, Mary Ferraro, PhD, OTR/L3

1Kessler Foundation, West Orange, NJ; 2Icahn School of Medicine at Mount Sinai, New York, NY;3 Moss Rehabilitation Research Institute, Elkins Park, PA

Participants
Andrew Packel, PT, NCS

Bio

Present Positions: Senior Physical Therapist, Moss Rehabilitation Hospital (7/13 – Present)
Honors: Association of Academic Physiatrists Excellence in Research Writing Award (2013); Award of Excellence from Neurologic Special Interest Group of the American Physical Therapy Association (2011)
Recent Publications:


Education
Master of Science, Physical Therapy, Boston University, 1997
Bachelor of Science, Physics, Carnegie Mellon University, 1990

Financial Disclosure: Andrew Packel is Senior Physical Therapist at Moss Rehabilitation Hospital and receives a salary that was/is partially supported by the funders of this work (NIDRR and PCORI).

NonFinancial Disclosure: Andrew Packel is a member of the American Physical Therapy Association and does not receive any compensation.

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Bio
Present Position: Education Coordinator, Drucker Brain Injury Center, MossRehab Hospital/Moss Rehabilitation Research Institute, Philadelphia, PA.

Publications:


Education
1998 Temple University, Philadelphia, PA
Ph.D., Educational Psychology
1989  Temple University, Philadelphia, PA
Ed.M., Educational Psychology

1983  SUNY – Downstate Medical Center, Brooklyn, NY
Bachelor of Science in Occupational Therapy

Financial Disclosure: Mary Ferraro is Education Coordinator at Moss Rehabilitation Hospital
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NonFinancial Disclosure: Mary Ferraro is a member of the American Occupational Therapy
Association and Pennsylvania Occupational Therapy Association, and serves on the AOTA
Accreditation Council for Occupational Therapy Education and does not receive any
compensation.

Marcel Dijkers, PhD

Bio
Present Positions:
Icahn School of Medicine at Mount Sinai, Dept. of Rehabilitation Medicine: Associate Professor
(1999 2007); Research Professor (2007); Wayne State University, Department of Physical
Medicine and Rehabilitation:
Assistant Professor (1984 92); Associate Professor (1992 99); Professor (2015).

Selected Recent Peer Reviewed Publications (from a total of 140):
[1] Zanca JM, Dijkers MP, Hsieh CH, Heinemann AW, Horn SD, Smout RJ, Backus D. Group
therapy utilization in inpatient spinal cord injury rehabilitation. Arch Phys Med Rehabil,
rehabilitation: nature, frequency and consequences. Arch Phys Med Rehabil, 2013;94(4 Suppl
Association of various comorbidity measures with spinal cord injury rehabilitation
a theory driven rehabilitation treatment taxonomy: conceptual Issues. Arch Phys Med Rehabil,
2014;95(1 Suppl 1):S24 32.
theory driven classification of rehabilitation treatment. Arch Phys Med Rehabil, 2014;95(1 Suppl
1):S33 44.
[9] Zanca JM, Dijkers MP. Describing what we do: A qualitative study of clinicians' perspectives
effective in decreasing neuropathic pain and other secondary outcomes after spinal cord injury:
injury to learn to use a powered exoskeleton for assisted walking. Top Spinal Cord Rehabil,
2015;(21)2: 110 121.

Education
Catholic University of Nijmegen (Netherlands), B.A., 1968, Sociology
Catholic University of Nijmegen (Netherlands), ABD, 1971, Sociology
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Financial Disclosure: Marcel Dijkers is Research Professor of Rehabilitation Medicine at Icahn School of Medicine at Mount Sinai and receives a salary that was/is partially supported by the funders of this work (NIDRR and PCORI).

Nonfinancial Disclosure: Marcel Dijkers is a Past President and Member at Large of the American Congress of Rehabilitation Medicine and does not receive any compensation.

Jeanne Zanca, PhD, MPT

Bio

Most Recent Honor: Chair Elect, Spinal Cord Injury Interdisciplinary Special Interest Group of the American Congress of Rehabilitation Medicine

Selected Publications:

Education
University of Pittsburgh; Pittsburgh, PA; Doctor of Philosophy; 2007; Rehabilitation Science
University of Pittsburgh; Pittsburgh, PA; Master of Physical Therapy; 2002; Physical Therapy
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Financial Disclosure: Jeanne Zanca is Senior Research Scientist at Kessler Foundation and receives a salary that was/is partially supported by the funders of this work (National Institute on Disability and Rehabilitation Research (NIDRR), Patient Centered Outcomes Research Institute (PCORI)).

NonFinancial Disclosure: Jeanne Zanca is member and Chair Elect of the Spinal Cord Injury Interdisciplinary Special Interest Group of the American Congress of Rehabilitation Medicine. She is also a member of the Academy of Spinal Cord Injury Professionals and does not receive any compensation.