

SELECTING STANDARDIZED OUTCOME MEASURES IN THE NEUROLOGICAL PATIENT POPULATION: PROCESS, BARRIERS AND APPLICATION

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Disclaimers

- "Any opinions expressed today are mine alone, and are not official positions of the North Carolina Physical Therapy Board."

Objectives

- Upon completion of this course, attendees will be able to:
 - 1. Discuss the significance and influencing factors for use of standardized outcome measures in physical therapy practice.
 - 2. Review a process for selecting appropriate standardized outcome measures.
 - 3. Critically analyze patient cases for selection of appropriate standardized outcome measures.
 - 4. Implement a decision-making process to utilize across the continuum of care for outcome measure selection.
 - 5. Ascertain resources to assist in choosing an appropriate standardized outcome measures.

Outcome Measures

- Tests that we use to help quantify a patient's performance or status
 - Help to track change
 - Look at various areas of functioning
 - Support clinical decision making
 - Communicating patient status
 - Treatment Interventions

Outcome Measures

- In what settings are outcome measures typically performed?
- What types of outcome measures are typically performed?
- What should we look for when selecting a test?
- How many therapists are administering outcome measures?

Outcome Measures

- World Health Organization: ICF Model
 - Looking at different areas of functioning

Outcome Measures

- Factors influencing use of outcome measures:
 - *Characteristics of the Assessment Tool*
 - *The Therapist*
 - *The Workplace*
 - *The Patient*
 - *Influential Individuals or Organizations*

Outcome Measures

- Factors influencing use of outcome measures:
 - *Characteristics of the Assessment Tool*

Outcome Measures

- Factors influencing use of outcome measures:
 - *The Therapist*

Outcome Measures

- Factors influencing use of outcome measures:
 - *The Workplace*

Outcome Measures

- Factors influencing use of outcome measures:
 - *The Patient*

Outcome Measures

- Factors influencing use of outcome measures:
 - *Influential Individuals or Organizations*

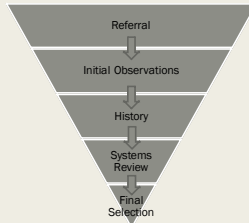
Outcome Measures

- Improving use of outcome measures:
 - Awareness
 - Perceived relevance
 - Applicability
 - Institutional Support

Determining Which Outcome Measures to Use

- Potter et al. (2011)
 - Proposed a framework for decision making for selecting outcome measures.

Decision-Making Framework as Described by Potter et al. (2011)



- Factors to Consider at Each Step
 - What to measure
 - Purpose of the measure
 - Type of measure
 - Patient and clinic factors
 - Psychometric properties
 - Feasibility

Decision-Making Framework as Described by Potter et al. (2011)

- Factors to Consider at Each Step
 - What to measure

Decision-Making Framework as Described by Potter et al. (2011)

- Factors to Consider at Each Step
 - Purpose of the measure
 - Discriminative
 - Predictive
 - Evaluative

Decision-Making Framework as Described by Potter et al. (2011)

- Factors to Consider at Each Step
 - Type of measure
 - Disease specific vs. generic
 - Method of delivery

Decision-Making Framework as Described by Potter et al. (2011)

- Factors to Consider at Each Step
 - *Patient and clinic factors*

Decision-Making Framework as Described by Potter et al. (2011)

- Factors to Consider at Each Step
 - *Psychometric properties*
 - Validity
 - Reliability
 - Accuracy
 - Responsiveness

Decision-Making Framework as Described by Potter et al. (2011)

- Factors to Consider at Each Step
 - *Feasibility*
 - Time
 - Space
 - Equipment
 - Training / Cost
 - Proprietary concerns

Resources

- Resources to help aid in gaining knowledge about outcome measures:

Site Name	Website Address
Patient Reported Outcome and Quality of Life Instruments Database	http://www.proqolid.org/
National Quality Measures Clearinghouse	https://guidelines.gov/search?f_Clinical_Specialty=Physical+Medicine+and+Rehabilitation&f_LockTerm=Physical+Medicine+and+Rehabilitation
Geriatric Examination Toolkit	http://web.missouri.edu/~proste/tool/
PT Now	http://www.ptnow.org/Default.aspx
Physiotherapy Evidence Database	http://www.pedro.org.au/
NIH Toolbox	http://www.healthmeasures.net/explore-measurement-systems/nih-toolbox

Resources

Site Name	Website
Center for Outcome Measurement in Brain Injury	http://www.tbims.org/combi/index.html
Spinal Cord Injury Rehabilitation Evidence	http://www.scireproject.com/outcome-measures
StrokeEngine-Access	http://www.medicine.mcgill.ca/strokeengine-assess/index-en.html
Evidence Based Review of Stroke Rehabilitation	http://www.ebrsr.com/
Neurology Section Outcome Measures Recommendations	http://www.neuropt.org/go/healthcare-professionals/neurology-section-outcome-measures-recommendations
Rehabilitation Measures Database	http://www.rehabmeasures.org/default.aspx

Implementing the Use of Outcome Measures

- Stevens and Beurskens (2010) proposed a strategy for implementation of outcome measures.
 - *Proposal for Improvement*
 - *Problem analysis*
 - *Development of assessment strategies*
 - *Testing of the implementation plan*
 - *Evaluation of the implementation plan*

Implementing the Use of Outcome Measures

- How will you use what you have learned today to influence your practice?

Summary

- A clinical reasoning process to help guide the selection of outcome measures is beneficial in guiding therapists.
- There are many factors that influence the selection of outcome measures.
- Overcoming barriers to use of outcome measures is possible when tailoring to specific therapist/ institutional needs.

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