



Step By Step Selection Of Outcome Measures

Mohammed TA, Omar, PhD. PT,CLT
CAMS-KSU,



Conceptual Considerations when Selecting OMs

7-Guide to Selecting Outcome Measures

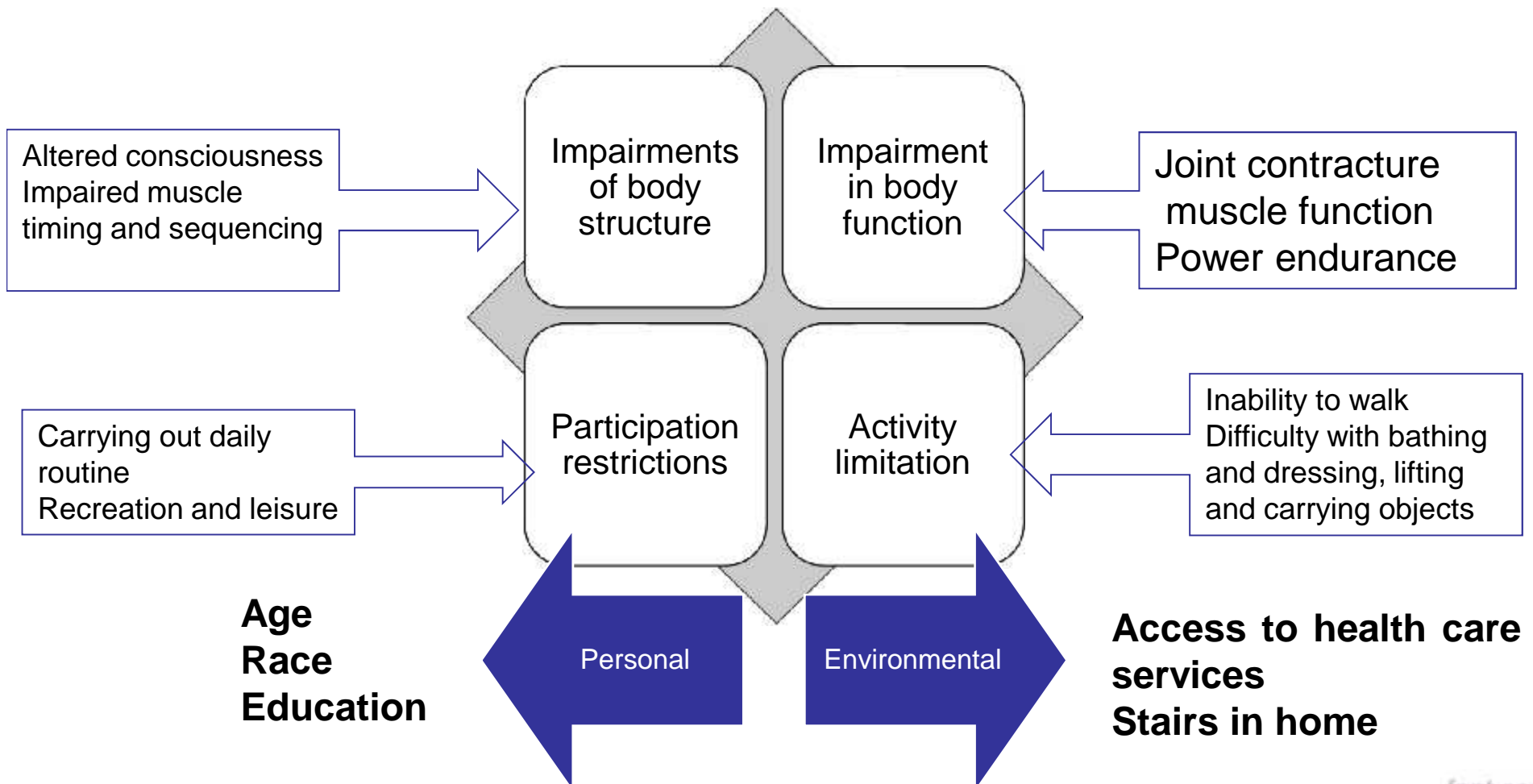
- What to measures?
- Why are using (purposes) the OMs?
- What are the types of OMs?
- Where do I find OMs?
- Assessing the quality of OMs
- Financial Considerations & Resources
- What are the psychometric properties of OMs?



What to measure?




Conceptual frameworks are used

- ICF categories as a framework OMs



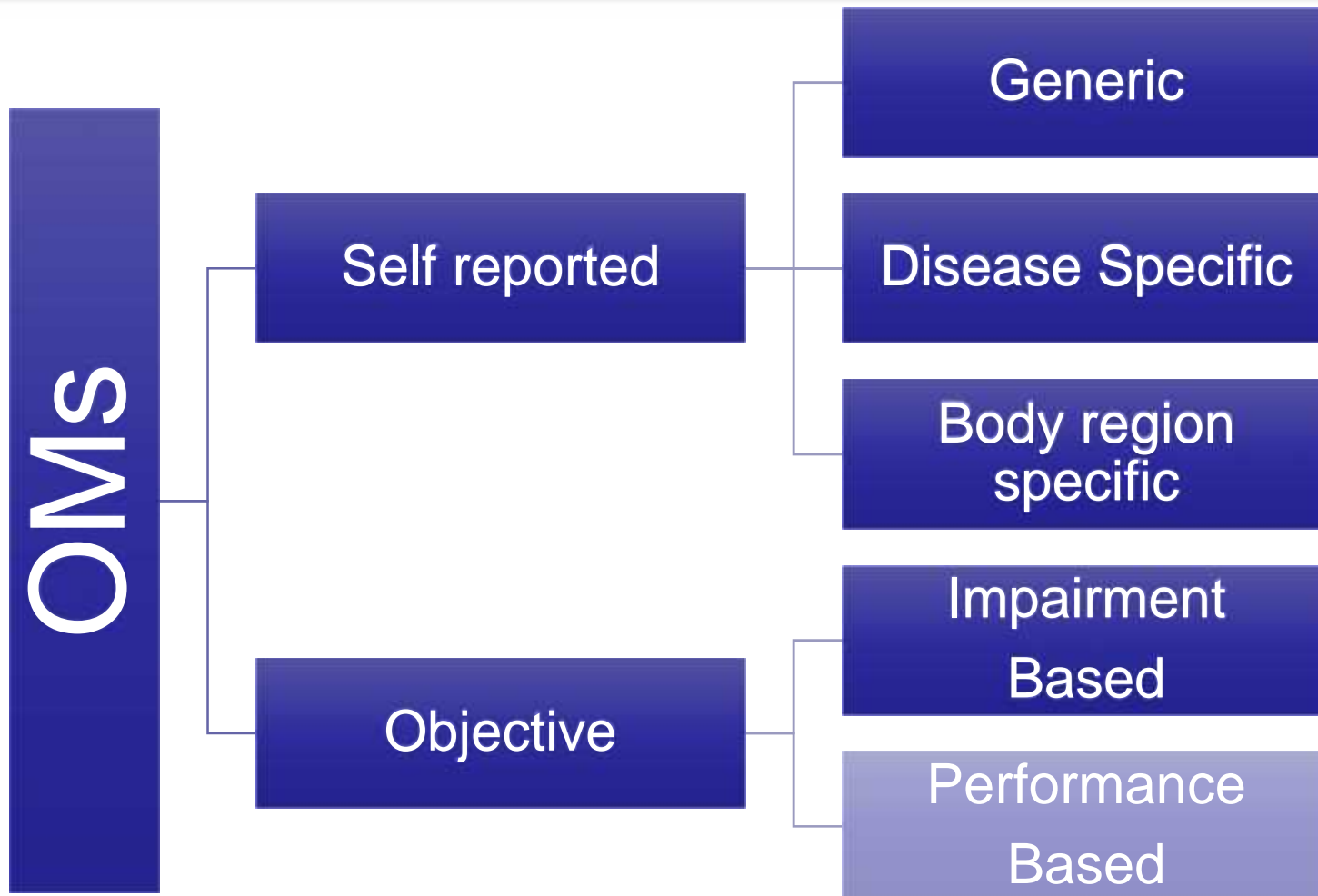


Why are using (purposes) the OMs

Discriminative	Predictive	Evaluative
		
Short Physical Performance Battery PFT	6MWT <ul style="list-style-type: none">❖ predicate mortality,❖ Overall survival	Short Physical Performance Battery PFT 6MWT



What are the types of OMs





What are the types of OMs

	Generic	Diseases-specific
Purpose	Assess overall health status across a broad spectrum of norms /and or diseases	Gather information about the impact of a specific health condition
Population	General population (healthy and non-healthy) Applicable across individuals with differing condition health conditions	Used for patients with a specific health
Benefit	Allow comparison to normative populations	More sensitive & provides insight into the relationships among body function/structure impairments, activity limitations, and participation
Limitation	Ceiling and floor effects more likely	Does not allow comparisons across different groups of patients
Example	Functional Independence Measure Short form-36	Stroke Impact Scale Short form-36 Parkinson's Disease 39



What are the types of OMs

	Performance based	Self report
Purpose	Assess actual performance in a particular environment at a specific point in time Determine current level of function	Gather information on patients opinions/perceptions of the impact of the health condition
Data collection Methods	Timing, distance, force , power , strength, Observation of performance Rating level of independence/difficulty	Interview Questionnaire
Benefit	Allows observation of task performance Less likely to have missing data	Can assess constructs not observed during performance (e.g, fear of falling) Can assess activities not observed clinically
Limitation	Equipment required, environmental factors, fatigue, motivation, and learning effects, measure inaccuracy	Cognitive and communication ability Language and educational level Patient may miss or misinterpret items or over-/underestimate ability
Example	Functional Independence Measure 10-meter walking test, Time up and go test	Activities-specific Balance Confidence Scale Test Modified Fatigue Impact Scale Test Motor Activity Log



Finding Existing OMs Instruments

- ❖ Contact the developer of the OMs
- ❖ Systematic review , literature search, and other sources
- ❖ Reference lists of the included studies
- ❖ Contact the colleagues and experts in your area of practice
- ❖ Websites

<http://www.rehabmeasures.org/>

<http://www.researchrom.com>

<http://www.wcpt.org/node/29658>

<http://www.physio pedia.com>

[*http://www.optum.com*](http://www.optum.com)



Assessing the Quality of OMs

3- basic questions

Has it been published ?

Is it standardized?

Does it have clear
scoring instruction?



Conceptual Considerations & Resources





Conceptual Considerations & Resources

Appropriateness of OMs

Refer to how closely the measure relates to a specific clinical question/
intended application.

- Clear understanding the aim of proposed scales and OMs
- Rehabilitation goal(s)
- Target population (Age, Sex, Characteristics, Diseases/conditions)
- Dimension of interest (primary or secondary)



Conceptual Considerations & Resources

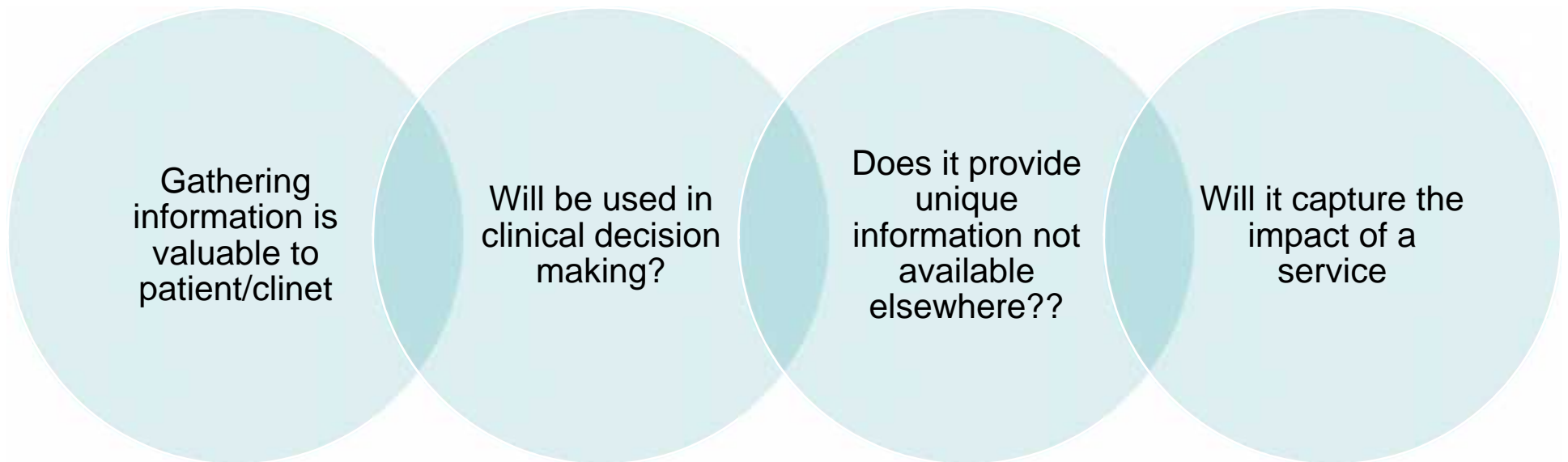
Acceptability: Ensuring that the instrument can be

1. Completed in a relatively short amount of time
2. Instrument is clear, concise, and easy to understand
3. Patients will be comfortable answering all questions
4. Does the questionnaire cover sensitive personal issue?
5. Specific reading level and culturally adapted



Conceptual Considerations & Resources

Clinical Utility is ‘the overall usefulness of an assessment in a clinical situation’





Conceptual Considerations & Resources

Feasibility relates to ease of instrument administration, amount of time needed to train clinicians for administration, and costs or time associated with administration, scoring, and score interpretation.

How feasible is this OM to use in your clinical practice?

Will the OM yield good quality data?

Is the data easy to analyze and will reports be meaningful to both patients/clients and other interested parties?

Is there a cost associated with its use?



Psychometric Properties of OMs

