

STROKE NETWORK
of Southeastern Ontario

Introducing Rehabilitation Outcome Measures

KFLA Outcome Measures
Workshop

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Introducing Outcome Measures - Outline

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What is an Outcome Measure?

Considerations for Use

Why use Outcomes Measures?

Best Practice Recommendations

National Consensus Panel

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What is an
Outcome
Measure?



What is an Outcome Measure?

- A standardized assessment tool
- Can also be a screening tool
- Researched to have good measurement properties
- Designed to measure a particular domain or aspect of function

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Considerations
for use of
Outcome
Measures



Considerations for use: Measurement Properties

- **Reliable** – consistent test-retest, inter-rater and intra-rater reliability across measurements and across users
- **Valid** – has been researched to show that this tool really measures what you think it is measuring
- **Responsive to change** - in what context
 - NB - Floor or ceiling effects – clinically relevant change may occur above or below the ability of the instrument to detect that change.
- **Predictive ability**
- **Clinically meaningful**

Considerations for use: Feasibility and Context

■ Feasibility

- Time to administer
- Training required
- Equipment needed
- Cost
- How often will you be able to administer the measure?
e.g. at admission, at discharge, periodically?

■ Why are you using it, what is the context?

- What part of care continuum?; across care continuum?
- Triage?; Clinical treatment planning?; monitoring or predicting outcome?
- For interprofessional or intersectoral communication?
- Who else is using it?
- For research?

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Why use
Outcome
Measures?



How are Outcome Measures used?

- to **screen and triage** to various aspects of care
(e.g. screen for a swallowing or mood disorder; access - triage to inpatient or outpatient rehabilitation)
- to **objectively assess and to guide clinical practice**
(e.g. does this person have language deficits, perceptual deficits, balance deficits that require treatment?...what is the extent of the deficit?)
- to **objectively monitor progress in one individual**
- to **communicate** assessment findings in an objective manner using standardized scores

How are Outcome Measures used?

- to promote interprofessional collaboration - understanding of roles, trust and respect
- to compare progress between individuals, groups, across sites
- to predict outcomes; assist in planning care
- to standardize measurement of research outcomes

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2010 Canadian
Best Practice
Recommendations
for Stroke Care

www.strokebestpractices.ca



Section 5.1 Rehabilitation Recommendations Assessment

*"Clinicians should use **standardized, valid assessment tools** to evaluate the patient's stroke related impairments and functional status."*



Canadian Stroke Network

Réseau canadien contre
les accidents cérébrovasculaires

Measuring the Outcomes of Stroke Rehabilitation

*Results of a Canadian Stroke Strategy/Heart and
Stroke Foundation National Consensus Panel*

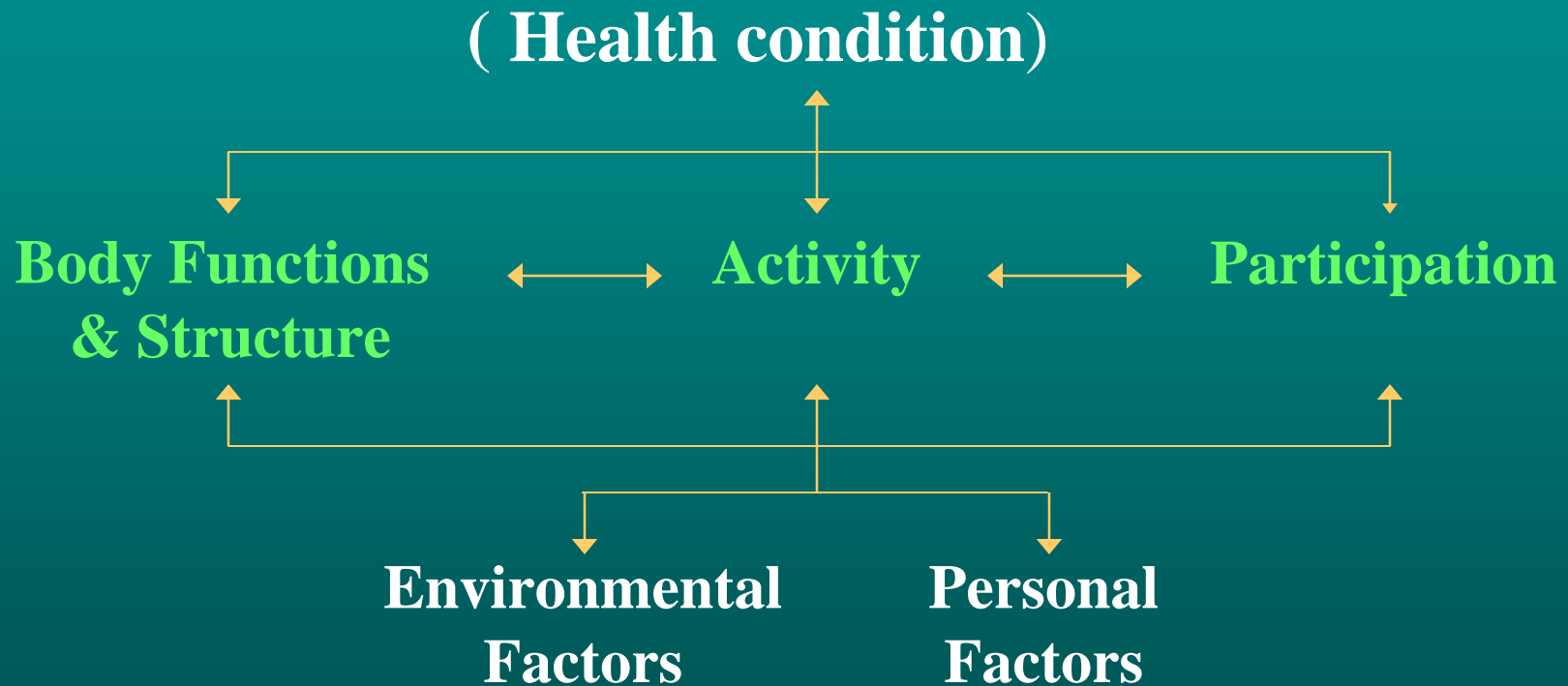


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Objective of the Consensus Panel

“To prioritize a set of outcome measures in the various domains of the International Classification of Functioning that could be used to evaluate the outcomes of stroke rehabilitation in Canada.”

International Classification of Functioning - Domains



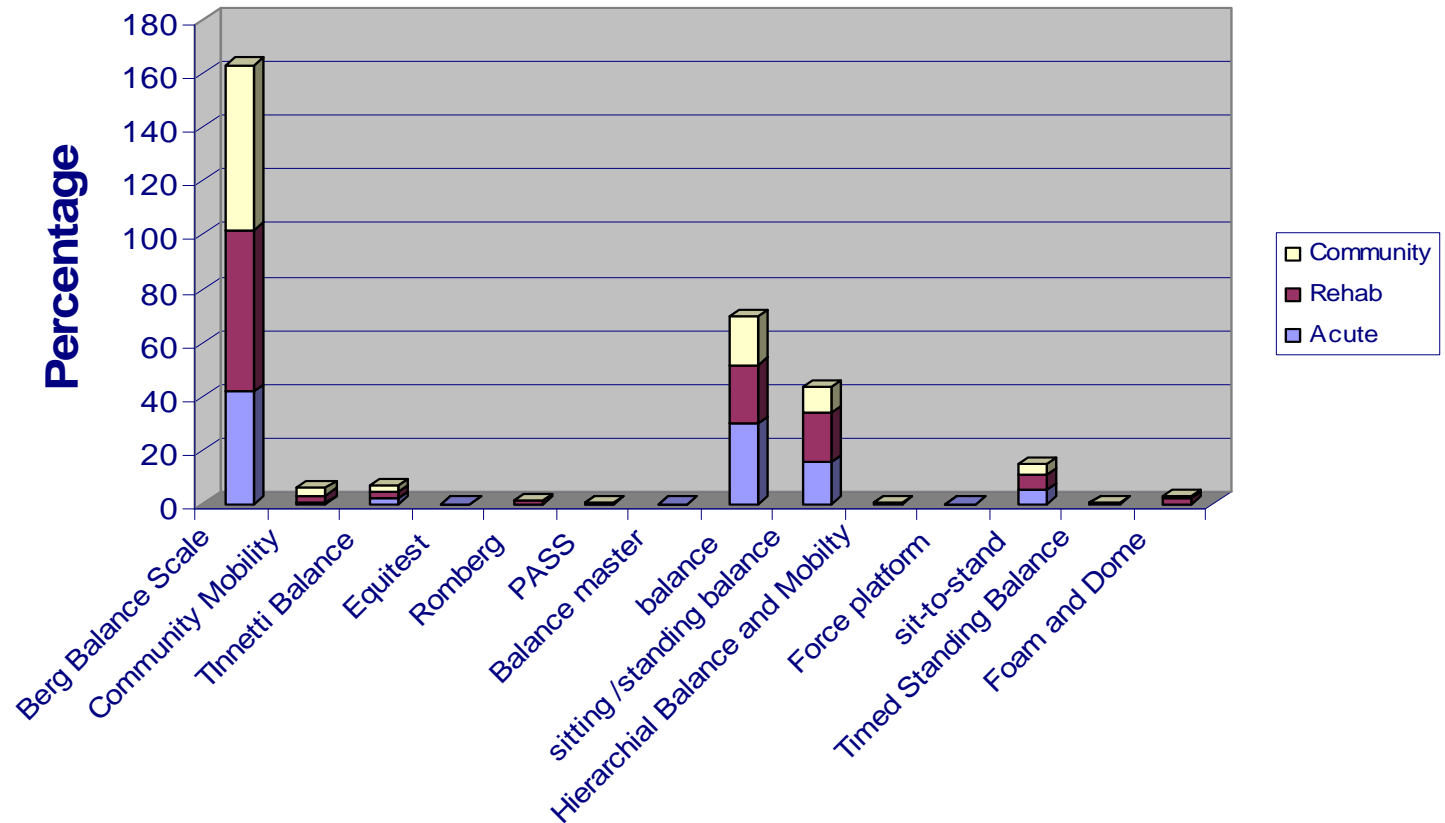
*WHO International Classification of Functioning and Disability, ICF
(International Classification of Impairments, Disabilities and Handicaps, ICIDH)*

National Survey: What measures are Canadian Clinicians using?

- Nicol Korner Bitensky et al surveyed about 1800 rehabilitation clinicians in Canada by telephone
- Asked to answer scenarios concerning typical stroke patients
- Asked about what measures they used

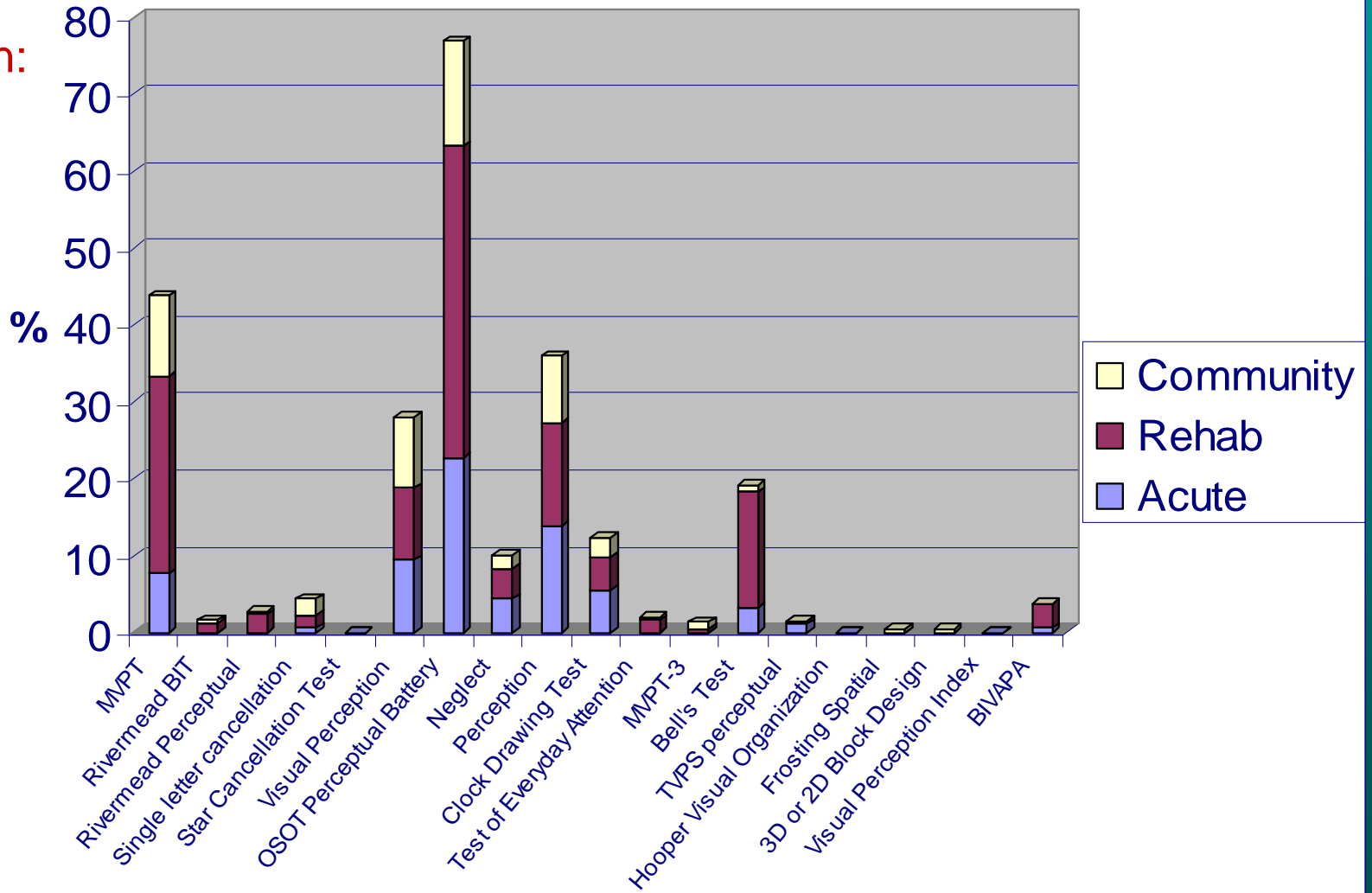
Most
common:
Berg
Balance
Scale

PT Use of Balance Assessments



OT Use of Visual Perception Assessments

Most
common:
OSOT
MVPT





Summary of National Survey

- Inconsistent use of measures
- Frequently used only at admission and not at discharge
- Not necessarily using measures tested for responsiveness



National Consensus Panel Recommended Measures

See table

handout in your package

Listing of Recommended
Outcome Measures by
Domains



Outcome Measures are a part of Best Practice across the Continuum of Care



Outcome Measures can promote Interprofessional and Intersectoral collaboration



Useful Websites

- StrokEngine
<http://strokengine.ca> – See [StrokEngine - Assess](#)
- Evidence Based Review of Stroke Rehabilitation
www.ebrsr.com
- 2010 Canadian Best Practice Recommendations for Stroke Care
www.strokebestpractices.ca
- All these can be found via:
www.strokenetworkseo.ca
- NOTE: New provincial website:
www.ontariostrokenetwork.ca

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Thank you!
Questions?

