EUROPEAN STROKE ORGANISATION

Committee Report 2020
ESO Neurorehabilitation Committee

Report of the ESO Committees - Summary

Neurorehabilitation Committee

- **Andreas Luft, Switzerland (Chair)**
- Stefan Engelter, Switzerland
- Agnes Flöel, Germany
- Thierry Keller, Spain
- Gert Kwakkel, The Netherlands
- Margrit Alt Murphy, Sweden
- Tobias Nef, Switzerland
- Geert Verheyden, Belgium
- Marion Walker, UK
- Nick Ward, UK

Report of the ESO Neurorehabilitation Committee

Consistent stroke outcome measurements are important to evaluate rehabilitation within European countries and between organisations of stroke services.

Development of standard clinical outcome data sets after stroke:

1. Motor rehabilitation and recovery
2. Neuropsychological rehabilitation and recovery

Motor Rehabilitation Core Set of Measures

Development of a Core Set of Outcome Measures for Clinical Motor Rehabilitation after stroke (Pohl et al. Front. Neurol. 2020)

Core set of outcome measures for clinical motor rehabilitation after stroke

	Body functions	Activities	Participation
Upper extremity	FMMA	ARAT	SIS
Lower extremity	FMMA & 10MWT*	TUG* & BBS	SIS
ADL/ stroke-specific	NIHSS	BI/ FIM	SIS

10MWT, 10-m Walk Test; ARAT, Action Research Arm Test; BBS, Berg Balance Scale; BI, Barthel Index, FIM, Functional Independent Measure; FMMA, Fugl-Meyer Motor Assessment; NIHSS, National Institutes of Health Stroke Scale; SIS, Stroke Impact Scale; TUG, Timed-Up-and-Go
*Measure only required for patients with a Functional Ambulation Categories score of 3/5.

	d 2±1	d 7	wk 2	wk 4	wk 12	wk 26	+26 wks
Body functions	✓	✓	✓	✓	✓	✓	✓
Activities		✓	✓	✓	✓	✓	✓
Participation			✓			✓	✓

Preparation for implementation in national stroke registry

Clinical Core Set of Neuropsychological Measures after stroke

Background:

Absence of a standard multilingual clinical core set of cognitive outcome measures for clinical practice after stroke.

Aim:

Development of a Core Set of Neuropsychological Measures through the post-stroke recovery process for clinical practice in Europe.

Clinical Core Set of Neuropsychology Measures after stroke

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Method:

Step I. Definition of post-stroke cognitive deficits, that cannot be explained by another condition or disease

→ Literature Review.

1. Early rehabilitation phase stroke <3months
2. Late rehabilitation phase stroke >3months

Step II. Anglophone cognitive core dataset consensus and definition of application in European countries

→ Focus Group Study

Step III. Expert consensus on European multilingual adaptation

→ Delphi method