

Neurorehabilitation and Robotics Committee

Report on your committee's work in 2019

ESO Neurorehabilitation Committee

- Andreas Luft (Chair)
- Gert Kwakkel
- Margrit Alt Morphy
- Steffan Engelter
- Agnes Flöel
- Geert Verheyden
- Thierry Keller
- Marion Walker
- Tobias Nef
- Nick Ward

ESO Neurorehabilitation Committee

1. A consensus-based Minimal Data Set of outcome assessments for motor rehabilitation after stroke was developed, supervised by Janne Veerbeek, Jeremia Held and Andreas Luft. The resulting manuscript is under review. (Table: Appendix 1)
2. A Workshop on *Neurorehabilitation in Stroke* was organized for the ESOC-WSO 2020 Conference in Vienna at May 12th by Jeremia Held, Janne Veerbeek and Andreas Luft. Due to COVID-19, it will take place on November 6th. (Program: Appendix 2)
3. The committee's second meeting took place during the ESOC in Milan in May 2019.

Appendix 1

Results (I) – Stroke Assessments

	Bodyfunction	Activity	Participation
Upper extremity	FMMA-OE Fugl-Meyer Motor Assessment – Upper Extremity	ARAT Action Research Arm Test	SIS Stroke Impact Scale
Lower extremity	FMMA-UE & 10MWT# Fugl-Meyer Motor Assessment – Lower Extremity & 10-Meter Gehtest#	TUG# & BBS Timed “Up and Go” # & Berg Balance Scale	
ADL / Allgemein	NIHSS National Institutes of Health Stroke Scale	BI / FIM Barthel Index / Functional Independence Measure	

Functional Ambulation Categories ≥3

Results (II) – Stroke Assessments

	Day 2±1	Day 7	Day 2	Week 4	Week 12	Week 26	Each 26 ^{te} Week
Bodyfunction	✓*	✓*	✓	✓	✓	✓	✓
Activity		✓#	✓	✓	✓#	✓	✓#
Participation					✓		✓

* National Institute of Health Stroke Scale

Barthel Index/ Functional Independence Measure

Appendix 2



1st ESO Stroke Rehabilitation Workshop Vienna, Austria 2020

Program 12th May – Venue ESO-WSO Conference

Room 1.61-62.

TIME	SPEAKER	TOPIC
9:00H	Jeremia Held / Janne Veerbeek	Welcome
9:15H	Gert Kwakkel	Proportional recovery early after stroke.
9:45H	Natacha Lannin	Implementation of clinical practice guidelines in stroke rehabilitation
10:15H	Nick Ward	Brain imaging in stroke rehabilitation
10:45H	<i>Coffee break</i>	
11:15H	Geert Verheyden	Upper limb somatosensory assessment, recovery and rehabilitation
11:45H	Andreas Luft	Motivation and reward in stroke rehabilitation
12:15H	Stefan Engelter	Pharmacologic enhancement in stroke rehabilitation
12:45H	<i>Lunch break</i>	
13:45H	Janne Veerbeek / Jeremia Held	Minimal Data Set for motor stroke rehabilitation – Assessments
14:15H	Margrit Alt Murphy	Kinematic assessments for profiling stroke recovery
14:45H	Agnes Flöhl	Aerobic training in stroke rehabilitation
15:15H	<i>Coffee break</i>	
15:45H	Thierry Keller	Technology application in stroke rehabilitation
16:15H	Tobias Naef	Telerehabilitation for cognitive and speech impairments
16:45H	Roger Gassert	Toward a technology-aided therapy in daily life
17:15H	Andreas Luft	Discussion and closing remarks
17:30H	End of program	