

Supplementary table IV: Responsiveness and minimal detectable change (MDC) of ordinal outcome measures

Outcome measure	Responsiveness	MDC
LEMS (ISNCSCI)	Assessed before and after at least 20 sessions of locomotor training AIS A-D (n=152, median time post SCI: 0.9 years) SRM: 0.23 [13] AIS C (n=39) SRM: 0.72 [13] AIS D (n=49) SRM: 0.16 [13]	AIS total motor score: 1.87 [28]
SCIM III (mobility indoors/outdoors)	Responsiveness compared with FIM (McNemar test): SCIM _{mob} III identified more changes than FIM _{mob} (P<0.01)[14,29]	SCIM _{mob} III: 1.96 [30]
FIM (locomotor items)	Discrimination between paraplegia and tetraplegia (P<0.001): Effect size: 0.38 [15] Score between admission and discharge from neurorehabilitation: FIM(walk/wheelchair): Effect size: 0.82 ^a [31] FIM (stair): Effect size: 0.76 ^a [31]	FIM _L : 4.4 [15]
WISCI II	Discrimination between 1 and 3 months postinjury (P<0.001) Effect size: 2.05 [15] Discrimination between 3 and 6 months postinjury (P=0.004) Effect size: 0.73 [15]	Self-selected WISCI II: 0.785 (n=63) [19] Maximum WISCI II: 0.597 (n=63) [19]
SCI-FAI (Gait score)	Mean change after an experimental gait intervention: 44.7% (P<0.001) (n=22) [21]	Gait score: 1.9 [15]
SCI-FAP	After two months of training (precision or endurance) SCI-FAP is responsive to change only in patients who walk at slow speeds (<0.5 m/s) [32]	SCI-FAP score: 95.7 [32] SCI-FAP time (s): 114.2 [32]
Berg Balance Scale	Assessed before and after at least 20 sessions of locomotor training AIS A-D (n=152, median time post SCI: 0.9 years) SRM: 0.59 [13] AIS C (n=39) SRM: 0.65 [13] AIS D (n=49) SRM: 0.91 [13]	NA
NRS _{LE}	Assessed before and after at least 20 sessions of locomotor training (n=72) NRS _{LE} : ARM=1.07 [33]	NRS _{LE} : 3 [33]

^a data from a heterogenic group of patients with Spinal Cord Injury, Multiple Sclerosis and Stroke

ARM: adjusted response mean

MDC: minimal detectable change

NA: not available in SCI

SRM: standardized response mean

LEMS lower extremity motor score, ISNCSCI International standards for neurological classification of spinal cord injury, SCIM III spinal cord independence measure III, FIM functional independence measure, WISCI II walking index for spinal cord injury, SCI-FAI spinal cord injury functional ambulation inventory, SCI-FAP spinal cord injury functional ambulation profile, NRS_{LE} Neuromuscular recovery scale trunk and lower-extremity items