

Supplementary material to article by L. Turner-Stokes et al. “Longitudinal goal attainment with integrated upper limb spasticity management including repeat injections of botulinum toxin A: Findings from the prospective, observational Upper Limb International Spasticity (ULIS-III) cohort study”

Table SI. Upper Limb Spasticity (ULS) Index

ULS Index	Rated by clinician	Rated by patient/carer
A. Severity and confounders (history and examination)	Demographics Distribution of spasticity Severity of spasticity (MAS) (19) Severity of impairment (NIS) (20) Soft-tissue contractures (loss of range)	N/A N/A
B. Goals for treatment – GAS-eous tool: SMART goals negotiated between patient and team with associated measurement parameters within each chosen goal area	Patient engagement in goal setting (21)	Patient satisfaction with goals (21)
C. Standardized measures – applied according to the CHOSEN GOAL AREAS for treatment		
Symptoms	N/A	Pain rating/10 (NGRS or SPIN) (22)
Involuntary movements	ARRS (23)	N/A
Function: passive and active	N/A	ArmA: passive and active function (24) Ease of caring for limb (NGRS)
Mobility	FAC (25)	N/A
Global benefits	Global benefit scale (–2 to +2)	Global benefit scale (–2 to +2)

ArmA: Arm Activity measure; ARRS: Associated Reaction Rating Scale; FAC: Functional Ambulation Category; GAS: goal-attainment scaling; MAS: Modified Ashworth Scale; N/A: not applicable; NGRS: Numbered Graphic Rating Scale; NIS: Neurological Impairment Scale; SMART: Specific: Measurable: Achievable: Realistic and Timed; SPIN: Scale of Pain Intensity.