

Table S1. Overview of International Classification of Functioning, Disability and Health (ICF) categories identified as relevant for reporting across body functions, their operationalization, and remedies applied to improve fit in the Rasch measurement model

ICF Category	Label	Item identified for operationalization of ICF category	Instrument	Response format	Reversal of response options	Testlet	Collapsing*	Item and testlet deleted in split**	Item analysis
b130	Energy and drive functions	Tiredness	IMPACT-S	Polytomous			×	Language	
b134	Sleep functions	Sleep	SCI-SCS	Polytomous					×
b152	Emotional functions	Nervous	Mental Health	Polytomous	×		×	Language	
		Down	Scale of SF-36	Polytomous	×				
		Calm	Scale of SF-36	Polytomous					
		Depressed	Mental Health	Polytomous	×		×	Language; gender	
		Happy	Scale of SF-36	Polytomous					
b270	Sensory functions related to temperature and other stimuli	Depression	Scale of SF-36	Polytomous					×
		Sensory	SCI-SCS	Polytomous			×	Language	
b280	Sensation of pain	Pain_1	SCI-SCS	Polytomous			×		×
		Pain_2	International SCI Basic Pain Data	Polytomous					×
		Pain_3	Set item	Polytomous					×
b410-b429	Functions of the cardiovascular system	Dysreflexia	International SCI Basic Pain Data	Polytomous			×		
b420	Blood pressure functions	Hypotension	SCI-SCS	Polytomous			×		
b430	Haematological system functions	Circulatory	SCI-SCS	Polytomous			×	Gender	
b440	Respiration functions	Respiration_1	SCI-SCS	Polytomous			×		
b525	Defecation functions	Defecation_1	SCI-SCS	Polytomous					
b620	Urination functions	Urination_1	SCI-SCS	Polytomous			×	Age at SCI	
		Urination_2	SCI-SCS	Polytomous			×		×
b640	Sexual functions	Sexual	SCI-SCS	Polytomous			×	Gender	
b710	Mobility of joint functions	Contractures	SCI-SCS	Polytomous			×		
b730-b749	Muscle functions	Spasticity	SCI-SCS	Polytomous			×		
b810	Protective functions of the skin	PressureUlcer	SCI-SCS	Polytomous			×		

*Details about the collapsing strategies can be requested from the authors.
 **Item and testlet split: language (Ge: German; Fr: French), gender (M: male; F: female), age at SCI (A45: >45 years; B45: ≤45 years).
 SCIM-SR: Spinal Cord Independence Measure – Self Report; SCI-SCS: Spinal Cord Injury Secondary Conditions Scale; IMPACT-S (ICF Measure of Participation and Activities); SCI: spinal cord injury.