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## Research Summary – Utrecht Scale for Evaluation of Rehabilitation-Participation (USER-Participation) – Self-Care and Daily Living

Author Year Country Research Design Setting	Demographic Injury Characteristi Sample	cs of	Validit	у	F	Reliability	Responsiveness Interpretability
Mader et al. 2016  Cross-sectional survey Swiss Spinal Cord Injury Cohort Study (SwiSCI)	N=1549 particip with SCI 1107M, 442F Mean (SD) age (14.8) years Cause: Traumat (n=1202), nontraumatic n=33 missing (n=15); Severity: Compl (n=646), incomp (n=894), missing Type of SCI: Par (n=1063), tetrap (n=474), missing Mean (SD) time injury 16.9 (12.7)	52.4 tic 2), lete plete g (n=9) raplegia legia g (n=12) e post	Content Valid The content valid The content valid The USER- Participation raffected by ex domains related work-related participation. anchor methor applied to appropriately for items within USER-Particip Restrictions ar Satisfaction so that are not as to some of the participants".	may be cluding ed to 'The od was account in the ation ad cales oplicable	Ex Re Sa (C) alp Mo Fro (C)	stency: cellent for estrictions and tisfaction scale ronbach's cha=0.9) cderate for equency scale ronbach's cha=0.65)	Normative data: Score distributions of USER-Participation: See table 1.  Floor/Ceiling Effects: Floor effects: Frequency: 0.0% Restrictions: 0.3% Satisfaction: 0.3% Ceiling effects: Frequency: No ceiling effect (0.0%) Restrictions: 9.5% Satisfaction: 3.0%
	Table 1.						
		N	Mean (SD)	Median (I	QR)		

Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample		Validity		Reliability		Responsiveness Interpretability
	Frequency	1474	34.2 (12.2)	34.3 (26.1-	-42.5)		
	Restrictions	1491	70.0 (21.7)	72.7 (54.5	-87.9)		
	Satisfaction	1459	69.3 (18.0)	72.5 (58.3	-80.6)		
van der Zee et al. 2014  Validation study  The community (De Hoogstraat Rehabilitation database and participants in the Active Lifestyle Rehabilitation Interventions in aging Spinal Cord injury study)	N=157 participal with SCI 62.2%M, 37.8%F Mean (SD) age (10.5) years Mean time post 25.3 (26.8) years Severity: 69.4% complete SCI, 3 incomplete SC	50.6 st injury s	Concurrent Validity: The USER- Participation restrictions scale showed generally higher correlations with the IMPACT-S and the WHODAS II than the frequency and satisfaction scales:  USER-Participation, Frequency and total IMPACT-S: r <sub>s</sub> =0.32  USER-Participation, Restrictions and total IMPACT-S:		(Croalph • Sati (Croalph • Fred (Cro		Normative data: Score distributions of USER-Participation: See table 1.  Floor/Ceiling Effects: No floor or ceiling effects for any scales

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		total IMPACT-S:     r <sub>s</sub> =0.38  USER-Participation,     Frequency and     WHODAS II (total     disability index):     r <sub>s</sub> =-0.37  USER-Participation,     Restrictions and     WHODAS II (total     disability index):     r <sub>s</sub> =-0.76  USER-Participation,     Satisfaction and     WHODAS II (total     disability index):     r <sub>s</sub> =-0.52		
		Discriminant Validity: Significant (p<0.05) discriminant validity between paraplegia and tetraplegia was shown for all 3 scales using Mann-Whitney U Test scores (z): • Frequency: z=-2.29		

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			<ul><li>Restrictions: z=-3.17</li><li>Satisfaction: z=-1.99</li></ul>				
	Table 1.	_		_		-	
		N	Mean (SD)	Median (I	IQR)		
	Frequency	157	34.8 (10.0)	361 (29.1-4	41.4)		
	Restrictions	157	72.6 (19.3)	75.8 (60.3	5-87.9)		
	Satisfaction	156	69.3 (14.3)	72.2 (60.0	)-79.5)		
Post et al. 2012  Cross-sectional study to examine the validity of Utrecht Scale for Evaluation of Rehabilitation-Participation (USER-Participation)	N=395 211M, 184F Mean (SD) age (13.5) years Participants widisease, TBI, St neuromuscula disease, chroni and heart failu  SCI fell under neuromuscula disease; howev with SCI was n	ith MSK roke, r ic pain, re re	Concurrent of The Frequent was most strongly associated with the P-Sc 0.73). However, correlation by the Factor of the Satisfactor of the Satisfac	cy scale ongly ith the the scale was y ith the r <sub>s</sub> =0.75) ofaction ost ociated cale (r <sub>s</sub> =- er, the	Internal consistency of the USER-Participation scales:  • Frequency: $\alpha$ =0.70  • Restrictions: $\alpha$ =0.91  • Satisfaction: $\alpha$ =0.88		Floor/Ceiling Effects: No floor effects were found and only the Restrictions scale showed a ceiling effect of 19.0.

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facilities in the		and the P-Sca			
Netherlands		also high (r₅=-	·O.71).		
		See table 1.			
			t validity: coation d cicipants ility and cicipants thealth		
	Table 1.				
		USER-P Frequency	USER-P Restrict		Satisfaction
	FAI	0.59	0.51	0.42	
	IMPACT-SP 0.48		0.75	0.64	
	P-Scale	-0.40	-0.71	-0.73	