

Appendix D.1: Outcome Measure Full Article Quality Screen – HTA Criteria Summary ¹

Reviewer ID: Gurmaan Gill			
Type of Outcome Measure: 5 Item Sacral Sparing Questionnaire			Total articles: 1
Author ID Year	Study Design	Setting	Population (sample size, age) and Group
Liu et al. 2017	Observational study	Peking University Third Hospital, Beijing, China	N = 102 (83M, 19F) Median age (IQR) = 46 (32.8-56.3) AIS-A = 31, B = 19, C = 25, D = 27 Etiology: sports = 5, assault = 13, transport = 34, falls = 40, other traumatic injury = 3, non-traumatic injury = 7 Level of injury: tetraplegia = 57, paraplegia = 45 Median time post-injury in months (IQR) = 1.5 (1.0-4.0) Exclusion Criteria: - Neurological impairments not caused by SCI - Unable to complete questionnaire
1. RELIABILITY – no data available			
Author ID	Internal Consistency	Test-retest, Inter-rater, Intra-rater	
2. VALIDITY			
Author ID	Validity		
Liu et al. 2017	<p>Consistency Tests: Sensation and Q1: κ coefficient = 0.91 S4-5 sensation and Q2: κ coefficient = 0.79 DAP and Q3: κ coefficient = 0.93 DAP and Q4: κ coefficient = 0.93 VAC (voluntary anal contraction) and Q5: κ coefficient = 0.70</p> <p><1 month: Q1 vs. S4-5 Sensation: κ coefficient = 0.91 Q2 vs. S4-5 Sensation: κ coefficient = 0.87 Q3 vs. S4-5 Sensation: κ coefficient = 0.90 Q4 vs. S4-5 Sensation: κ coefficient = 0.91 Q5 vs VAC without increased AST (anal sphincter tone): κ coefficient = 0.80</p> <p>\geq1 month: Q1 vs. S4-5 Sensation: κ coefficient = 0.92 Q2 vs. S4-5 Sensation: κ coefficient = 0.72 Q3 vs. S4-5 Sensation: κ coefficient = 0.95 Q4 vs. S4-5 Sensation: κ coefficient = 0.96 Q5 vs VAC without increased AST (anal sphincter tone): κ coefficient = 0.23 Q5 vs VAC without increased AST (anal sphincter tone): κ coefficient = 1.00</p> <p>Consistency Tests for Subgroups: VAC (voluntary anal contraction) and Q5 for patients with increased AST (anal sphincter tone) (N=24): κ coefficient = 0.21 VAC and Q5 for patients without increased AST (N=78): κ coefficient = 0.89</p>		

3. RESPONSIVENESS – no data available				
Author ID	Responsiveness			
4. FLOOR/CEILING EFFECT – no data available				
5. INTERPRETABILITY				
Author ID	Interpretability			
Liu et al., 2017		Sensitivity (%)	Specificity (%)	Youden's index
	Q1	98	92	0.90
	Q2	88	95	0.83
	Q3	98	94	0.92
	Q4	96	100	0.96
	Q5 w/ increased AST	100	27	0.27
	Q5 w/o increased AST	89	98	0.87