

Research Summary – Tool for Assessing Mobility in Wheelchair-Dependent Paraplegics – Wheeled Mobility

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
<p>Harvey et al. 1998</p> <p>Reliability Study</p> <p>Australia</p>	<p>N = 20</p> <p>Age: 45.6±16.8</p> <p>Median (and inter-quartile range) time since injury was 9 years (2.5-18).</p> <p>Wheelchair dependent paraplegics. All had lesions between T2 and L2.</p> <p>Volunteer inpatients and outpatients.</p>	<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</p>	<p>Test-retest, Inter-rater, Intra-rater Cohen's Weighted Kappa= 0.82-0.96.</p> <p>When the data from the 6 tasks were pooled, the 2 therapists' scores were in perfect agreement 82% of the time, within one grade 17% of the time, within two grades 2% of the time and never differed by three or more grades.</p>	<p>Interpretability Median scores (with inter-quartile ranges): Task 1 - 6 (3.75 ± 6) Task 2 - 6 (6 ± 6) Task 3 - 3.5 (1 ± 6) Task 4 - 5 (4.5 ± 5.25) Task 5 - 5 (4.25 ± 5.0) Task 6 - 3.5 (2 ± 5.25) (Harvey et al. 1998; N=20)</p>

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		<p>sphincter tone): κ coefficient = 0.80</p> <p>≥ 1 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)</p>		

Reviewer ID: Elsa Sun, Carlos L. Cano

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		(N=24): κ coefficient = 0.21 - VAC and Q5 for patients without increased AST (N=78): κ coefficient = 0.89		