

Research Summary - Clinical Outcome Variables Scale (COVS) - Lower Limb and Walking

Author Year Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability															
<p>Barker et al. 2007</p> <p>Methodological</p> <p>Assessments conducted in participants' home environment</p>	<p>Study 1: N=37 (31M, 6F) Mean age=41 Mean time since injury=8months Tetraplegia=18 Paraplegia=19 Complete injury=19 Incomplete injury=18</p> <p>Study 2: N=43 (35M, 8F) Mean age=46 Criteria for inclusion=same as study 1 Tetraplegia=18 Paraplegia=25 Complete injury=21 Incomplete injury=22</p>		<p>Telephone-administered COVS (TCOVS) test-retest ICC= 1.00</p> <p>Equivalence reliability of TCOVS (COVS assessed by telephone) and COVS, ICC= 0.98</p>	<p>Interpretability: See Table 1. below</p>															
<p>Table 1.</p> <table border="1" data-bbox="489 1208 1797 1390"> <thead> <tr> <th data-bbox="489 1208 926 1247">Item Aggregate:</th> <th data-bbox="926 1208 1360 1247">TCOVS: mean (SD)</th> <th data-bbox="1360 1208 1797 1247">COVS: mean (SD)</th> </tr> </thead> <tbody> <tr> <td data-bbox="489 1247 926 1286">Composite score</td> <td data-bbox="926 1247 1360 1286">54 (18)</td> <td data-bbox="1360 1247 1797 1286">55 (20)</td> </tr> <tr> <td data-bbox="489 1286 926 1325">Mobility subscale</td> <td data-bbox="926 1286 1360 1325">37 (12)</td> <td data-bbox="1360 1286 1797 1325">39 (13)</td> </tr> <tr> <td data-bbox="489 1325 926 1364">Ambulation subscale</td> <td data-bbox="926 1325 1360 1364">11 (9)</td> <td data-bbox="1360 1325 1797 1364">11 (9)</td> </tr> <tr> <td data-bbox="489 1364 926 1390">Individual Items:</td> <td data-bbox="926 1364 1360 1390">-----</td> <td data-bbox="1360 1364 1797 1390">-----</td> </tr> </tbody> </table>					Item Aggregate:	TCOVS: mean (SD)	COVS: mean (SD)	Composite score	54 (18)	55 (20)	Mobility subscale	37 (12)	39 (13)	Ambulation subscale	11 (9)	11 (9)	Individual Items:	-----	-----
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	Roll right Roll left Supine to sit Sitting balance Horizontal transfer Vertical transfer Walking Walking aids Walking distance Walking speed Wheelchair mobility Right arm function Left arm function	5.3 (2.3) 5.4 (2.3) 5.1 (2.2) 3.7 (2.1) 4.9 (2.4) 3.2 (2.3) 2.0 (1.8) 1.8 (1.6) 1.9 (1.8) 2.0 (1.7) 6.1 (0.68) 6.2 (1.2) 6.0 (1.6)	5.5 (2.2) 5.5 (2.2) 5.4 (2.2) 4.9 (2.3) 5.1 (2.3) 3.3 (2.4) 1.9 (1.9) 1.8 (1.6) 2.0 (2.0) 2.1 (2.0) 5.7 (1.0) 6.0 (1.4) 6.1 (1.4)	
Campbell & Kendall, 2003 Cross-sectional Community rehabilitation settings/hospital s	N=169 (124M, 45F) Median age: 33 years Lesion level: 36 complete paraplegia 56 incomplete paraplegia 25 complete paraplegia 52 incomplete paraplegia	Factor Analysis: Two factors emerged from COVS: 1. General mobility 2. Ambulation Discriminate across clinically distinct groups during discharge from hospital and admission to Transitional rehabilitation program:		

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		<p><u>Lesion level (paraplegia and tetraplegia):</u> Composite score at discharge: t=5.11 (P<.001) Composite score at admission: t=5.57 (P<.001) General mobility subscale at discharge: t=8.80 (P<.001) General mobility subscale at admission: t=9.40 (P<.001) Ambulation subscale at discharge: t=0.81 (ns) Ambulation subscale at admission: t=1.76 (ns)</p> <p><u>Completeness of injury:</u></p>		

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		<p>Composite score at discharge: $t=-6.85$ ($P<.001$) Composite score at admission: $t=-6.69$ ($P<.001$) General mobility subscale at discharge: $t=-4.15$ ($P<.001$) General mobility subscale at admission: $t=-3.92$ ($P<.001$) Ambulation subscale at discharge: $t=-7.96$ ($P<.001$) Ambulation subscale at admission: $t=-8.28$ ($P<.001$)</p> <p><u>Walking Status:</u> Composite score at discharge: $t=14.37$ ($P<.001$) Composite score at admission: $t=13.86$ ($P<.001$)</p>		

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		General mobility subscale at discharge: t=6.88 (P<.001) General mobility subscale at admission: t=6.53 (P<.001) Ambulation subscale at discharge: t=20.95 (P<.001) Ambulation subscale at admission: t=19.87 (P<.001)		