

**Research Summary – Spinal Cord Injury – Quality of Life (SCI-QOL) – Quality of Life**

<b>Author Year Country Research Design Setting</b>	<b>Demographics and Injury Characteristics of Sample</b>	<b>Validity</b>	<b>Reliability</b>	<b>Responsiveness Interpretability</b>
<p><a href="#">Cohen et al. (2018)</a> (pain behavior assessment)</p> <p>Grounded-theory based qualitative item development; large-scale item calibration field-testing; confirmatory factor analyses; graded response model item response theory analyses; statistical linking techniques to transform scores to the Patient Reported Outcome</p>	<p>N=757 SCI % Female: 20.9%</p> <p>Mean age 42.9 years, SD 15.5 years</p> <p>Level: 23.9% Paraplegia complete, 18.5% Paraplegia incomplete, 23.1% tetraplegia complete, 34.4% tetraplegia incomplete</p> <p>Etiology: 32.4% motor vehicle accident, 22.3% fall, 11.8% gunshot wound/violence, 6.6% diving, 7.4% other sports, 3.7% medical/surgical accident, 2.6% motorcycle accident,</p>		<p><b>Test-retest reliability:</b> r=0.84 (ICC = 0.83)</p>	<p><b>Mean score (SD):</b> 53.10 (9.89)</p>

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<p>Measurement Information System (PROMIS) metric.</p> <p>Five SCI Model Systems centers and one Department of Veterans Affairs medical center in the United States.</p>	<p>6.2% other or not reported</p> <p>Duration: Mean 6.7 years, SD 9.9 years &lt;1 year (28.9%), 1–3 years (27.6%), &gt;3 years post injury (43.5%)</p>			
<p><a href="#">Tulsky et al. (2015)</a> (SCI-QOL bladder management scale)</p> <p>Development and Validation study</p> <p>University of Michigan,</p>	<p>N=757 SCI % Female: 20.9%</p> <p>Mean age 42.9 years, SD 15.5 years</p> <p>Level: 23.9% Paraplegia complete, 18.5% Paraplegia incomplete, 23.1% tetraplegia complete,</p>	<p>Item/total correlations for bladder complications ranged from 0.38 to 0.60</p> <p>Item/total correlations for bladder management difficulties ranged from 0.38 to 0.78.</p>	<p>Bladder management difficulties: internal consistency: <math>\alpha=0.91</math></p> <p>Bladder complications internal consistency: <math>\alpha=0.72</math></p> <p>Bladder management difficulties: Test-retest reliability: <math>r=0.77</math> (<math>P &lt; 0.01</math>)</p>	

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<p>Kessler Foundation Research Center, the Rehabilitation Institute of Chicago, the University of Washington, Craig Hospital, and the James J. Peters VA Medical Center, Bronx, NY</p>	<p>34.4% tetraplegia incomplete</p> <p>Etiology: 32.4% motor vehicle accident, 22.3% fall, 11.8% gunshot wound/violence, 6.6% diving, 7.4% other sports, 3.7% medical/surgical accident, 2.6% motorcycle accident, 6.2% other or not reported</p> <p>Duration: Mean 6.7 years, SD 9.9 years &lt;1 year (28.9%), 1–3 years (27.6%), &gt;3 years post injury (43.5%)</p>		<p>ICC = 0.76</p> <p>Bladder complications: Test-retest reliability: r=0.70 (P &lt; 0.01) ICC = 0.69</p>	
<p><a href="#">Bertisch et al. (2015)</a> (SCI-QOL PAWB)</p>	<p>N=717 SCI % Female: 22%</p> <p>Mean age 43.0 years, SD 15.3 years</p>		<p><b>Internal consistency:</b> <math>\alpha=0.970</math></p>	<p>RMSEA = 0.094</p>

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<p>Qualitative feedback from patient and provider focus</p> <p>University of Michigan, Kessler Foundation, Rehabilitation Institute of Chicago, the University of Washington, Craig Hospital and the James J. Peters/Bronx Department of Veterans Affairs hospital.</p>	<p>Level: 25% Paraplegia complete, 20% Paraplegia incomplete, 22% tetraplegia complete, 32% tetraplegia incomplete</p> <p>Ethnicity: 70% Caucasian, 17% African American, 1% Asian, 1% American Indian</p> <p>Duration: Mean 7.1 years, SD 10 years                      &lt;1 year (27%), 1–3 years (26%), &gt;3 years post injury (47%)</p>			
<p><a href="#">Kalpakjian et al. (2015)</a>                      (self esteem)</p> <p>Mixed Methods</p>	<p>N=717 SCI                      % Female: 22%</p> <p>Mean age 43.0 years, SD 15.3 years</p>			

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<p>Michigan, Kessler Foundation, the Rehabilitation Institute of Chicago, the University of Washington, Craig Hospital, and the James J. Peters/Bronx Department of Veterans Affairs hospital.</p>	<p>Level: 25% Paraplegia complete, 20% Paraplegia incomplete, 22% tetraplegia complete, 33% tetraplegia incomplete</p> <p>Ethnicity: 70% Caucasian, 17% African American, 1% Asian, 1% American Indian</p> <p>Duration: Mean 7.1 years, SD 10 years &lt;1 year (27%), 1–3 years (26%), &gt;3 years post injury (47%)</p>			
<p><a href="#">Victorson et al. (2015)</a></p> <p>*Same data set as Kalpakjian et al. 2015</p>	<p>N=717; Mean (SD), N (%)</p> <p>Female 158 (22%) Male 559 (78%)</p> <p>Age 43.0 years (15.3) Age at injury: 36.1 years (16.8)</p>		<p><b>Test-retest reliability:</b> When comparing the SCI-QOL Resilience CAT at baseline with the CAT score from the 1-2 week follow up</p>	

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Development, validation and psychometric characteristics of the SCI-QOL	Time since injury: 7.1 (10.0) <1 year post injury 196 (27%) 1–3 years post injury 186 (26%) >3 years post injury 335 (47%)  Diagnosis: Paraplegia complete 182 (25%) Paraplegia incomplete 143 (20%) Tetraplegia complete 157 (22%) Tetraplegia incomplete 231 (33%) Unknown 4 (0%)  Race: Caucasian 505 (70%) African-American 125 (17%)		assessment (n= 245), Pearson's r= 0.79 (P < 0.01) and ICC(2,1) = 0.79 (95% CI: 0.74 to 0.83).	

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	Asian 8 (1%) American Indian/Alaska Native or Native Hawaiian/Pacific Islander 7 (1%) More than one race 9 (1%) Other 50 (7%) Not provided/Refused 4 (1%)			
<p><a href="#">Tulsky et al. (2015)</a> (SCI-QOL depression scales)</p> <p>Development and Validation study</p> <p>Five SCI Model System centers and one Department of Veterans Affairs</p>	<p>N=716 SCI % Female: 22%</p> <p>Mean age 43.0 years, SD 15.3 years</p> <p>Level: 25% Paraplegia complete, 20% Paraplegia incomplete, 22% tetraplegia complete, 32% tetraplegia incomplete</p>	<p>Correlation with PHQ-9 scores: <math>r = 0.76</math></p>	<p><b>Internal consistency:</b> <math>\alpha=0.72</math></p> <p><b>Test-retest reliability:</b> <math>r=0.80</math> (ICC = 0.80)</p>	

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medical center in the United States.	Ethnicity: 70% Caucasian, 17% African American, 1% Asian, 1% American Indian  Duration: Mean 7.1 years, SD 10 years <1 year (27%), 1–3 years (26%), >3 years post injury (47%)			
<a href="#">Ebrahimzadeh et al. (2013)</a>  Validity and reliability study  Mashhad University of Medical Sciences, in Mashad, Iran	N=52 SCI  Mean age 49.3 years, SD 7.9 years  % Incomplete paraplegia: 88.5%		<b>Internal consistency:</b> $\alpha=0.764$	
<a href="#">Tulsky et al. (2011)</a>	N=65 SCI N=42 clinicians			



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<p>Focus Groups</p> <p>Four SCI Model Systems rehabilitation hospitals</p>	<p>% Female: 27.7%</p> <p>Mean age 45.6 years, SD 14.2 years</p> <p>Level: 52.4% paraplegia, 47.7% tetraplegia</p> <p>Ethnicity: 69.2% Caucasian, 20.0% African American, 6.2% Hispanic, 3.1% Native American</p> <p>Duration: Mean 12.6 years, SD 11.5 years</p> <p>Assistive technology use: 84.6% wheelchair, 14.3% cane/crutches/walker, 2.0% none</p>			