

Research Summary – World Health Organization Quality of Life – Abbreviated Version (WHOQOL-BREF) – Quality of Life

Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
<p>Xavier de Franca et al. (2011)</p> <p>Cross-sectional study</p> <p>Community in Brazil</p>	<p>N=47, 91.5% male Mean (SD) age: 42.95 (14.12) years</p> <p>Age range: 13-30 years: 23 31-48 years: 19 49-64 years: 5</p>		<p>Internal Consistency Cronbach's α: 0.73</p>	
<p>Miller et al. (2008)</p> <p>Cross-sectional, confirmatory factor analysis</p> <p>4 chapters (Alberta, Saskatchewan, Nova Scotia and Manitoba) of the Canadian Paraplegic Association</p>	<p>N=161 SCI (77% male) Mean age: 46.88 \pm 15.52 years</p>	<p>Income was positively related to WHOQOL-BREF domains: Physical health ($r=.24$, $P<0.01$) Social relationships ($r=.24$, $P<0.01$) Environmental ($r=.40$, $P<0.01$) Education was positively related to WHOQOL-BREF domains: Physical health ($r=.20$, $P<0.05$)</p>	<p>Internal Consistency Cronbach's α: Physical Health Domain: 0.82 Psychological Domain: 0.82 Social Relationship Domain: 0.74 Environment Domain: 0.80</p>	

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		<p>Psychological ($r=.19$, $P<0.05$) Social relationships ($r=.18$, $P<0.05$) Environmental ($r=.28$, $P<0.01$) Time since injury is positively related to WHOQOL-BREF domains: Psychological ($r=.23$, $P<0.01$).</p> <p>Self-esteem, as measured by the <i>Rosenberg Self- Esteem Scale</i>, is positively related to WHOQOL-BREF domains: Physical health ($r=.54$, $P<0.01$) Psychological ($r=.62$, $P<0.01$) Social relationships ($r=.41$, $P<0.01$)</p>		

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		<p>Environmental ($r=.43$, $P<0.01$)</p> <p>Acceptance of disability, as measured by the <i>Acceptance of Disability Scale</i>, is positively related to WHOQOL-BREF domains:</p> <p>Physical health ($r=.72$, $P<0.01$)</p> <p>Psychological ($r=.51$, $P<0.01$)</p> <p>Environmental ($r=.46$, $P<0.05$)</p>		
<p>Lin et al. (2007)</p> <p>Cross-sectional; Telephone interviews to compare the psychometric performance of the WHOQOL with the SF-36</p>	<p>N=187 (151 men) Mean Age = 50.3 years Mean time since injury = 7.4 years</p> <p>48 incomplete tetraplegia 28 complete tetraplegia 73 incomplete paraplegia</p>	<p>Correlations between the WHOQOL-Bref subscales and the SF-36 subscales measuring the same constructs: The rho of the conceptually related domains between the WHOQOL-BREF and the SF-36 (overall QoL</p>	<p>Internal Consistency</p> <p>Cronbach's α: Overall QOL & General Health: 0.79 Physical Health Domain: 0.87 Psychological Domain: 0.83 Social Relationship Domain: 0.75</p>	<p>Responsiveness</p> <p>Subjects who are employed and who are unemployed after SCI (all employed before SCI) were interviewed for a second time to recall their health related QoL at the time of the injury:</p>

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<p>Subjects were identified from a nationwide registry of 809 traumatic SCI cases in Taiwan</p>	<p>38 complete paraplegia</p>	<p>& general health-general health; Physical Capacity-Physical Functioning/Role physical/bodily pain; Psychological well-being-social functioning/role emotional/mental health; social relationships-social functioning) are higher than 0.4, with the exception of the WHOQOL-BREF's Psychological Well-Being and the SF-36's Role Emotional (rho = 0.37) The rho of the rating scale with the domains of the WHOQOL-BREF were all greater than 0.4 All P<.0001</p>	<p>Environment Domain: 0.86</p> <p>Test-retest, Inter-rater, Intra-rater 10 subjects were contacted for re-assessment by same initial interviewer within 2 weeks. Test-retest (intra-rater) reliability: Overall QOL and General Health: ICC=0.84 Physical Health Domain: ICC=0.93 Psychological Domain: ICC=0.98 Social Relationship Domain: ICC=0.84 Environment Domain: ICC=0.89</p> <p>10 subjects were contacted for re-assessment by</p>	<p>Effect Sizes of WHOQOL-BREF: Overall QOL and general health domain (combined for this study): 1.01 Physical Health Domain: 1.83 Psychological Health Domain: 0.78 Social Relationship Domain: 1.16 Environment Domain: 0.78</p> <p>Interpretability N=187 (151 men), Mean Age = 50.3 years, 121 incomplete, 111 paraplegia Mean (SD) scores for each WHOQOL-Bref domain and SEM, MDC calculated from data in Lin et al. 2007: see table 1 below</p>

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		<p>The ability of the WHOQOL-BREF to discriminate among subgroups with respect to age, education, marital status, employment, time since injury, level of injury, and self-care ability was tested using the Mann-Whitney U-test. Overall, the WHOQOL-BREF domains significantly discriminated between subgroups in terms of 4 characteristics**.</p> <p>*Overall QOL and General Health, Physical Health Domain, Psychological Domain, Social Relationships</p>	<p>different initial interviewer within 2 weeks. Test-retest (inter-rater) reliability: Overall QOL and General Health: ICC=0.63 Physical Health Domain: ICC=0.88 Psychological Health Domain: ICC=0.95 Social Relationship Domain: ICC=0.56 Environment Domain: ICC=0.80</p>	<p>Floor Effect (number of patients scored minimally): n (%) Overall QOL and general health Domain: 2 (1.3) Physical Health Domain: 7 (0) Psychological Health Domain: 6 (0.0) Social Relationship Domain: 3 (0.0) Environment Domain: 8 (0.4)</p> <p>Ceiling Effect (number of patients scored maximally): n (%) Overall QOL and general health Domain: 2 (0.4) Physical Health Domain: 7 (0.0) Psychological Health Domain: 6 (0.0) Social Relationship Domain: 3 (0.4)</p>

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		Domain, Environment Domain **Marital status, employment status, level of injury, self- care ability (all domains $P \leq 0.05$)		Environment Domain: 8 (0.0)																								
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Chapin (2004) Cross-sectional; concurrent and factorial validity explored	N=132 Mean age = 45.82 Paraplegic SCI	Sense of Well-Being Inventory (SWBI) and *WHOQOL-BREF Pearson correlations: SWBI Psychological and WHOQOL-BREF psychological domain: $r=0.75$																										

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<p>Canadian Paraplegic Association</p>		<p>SWBI Physical and WHOQOL-BREF physical health domain: r=0.63 SWBI Family/social and WHOQOL-BREF social relationships domain: r=0.63 SWBI Financial/Environment and WHOQOL-BREF environment domain: r=0.59</p>		
<p>Jang et al. (2004) Cross-sectional validation study using multi-trait analysis and known-groups methods Community and hospital, Taiwan</p>	<p>N=111 (SCI) & 169 (non-SCI) SCI mean age = 40 ±13 years Non-SCI mean age = 37 ±12 years SCI participants: Complete tetraplegia = 23 Incomplete tetraplegia = 28 Complete paraplegia = 43</p>	<p>Item scale correlation structure showed that all facets^A had the highest correlations with the domain^B to which they were originally assigned by the WHOQOL group. Analysis by t-test of the WHOQOL-Bref scale and subscales to examine</p>	<p>Internal Consistency Cronbach's α: Physical Health Domain: 0.75 Psychological Domain: 0.74 Social Relationship Domain: 0.54 Environment Domain: 0.78</p>	<p>Interpretability N = 111 SCI (mean age = 40 (13) years) & 169 non-SCI (mean age = 37 (12) years) See table 3 below This study used a different scoring scheme, in which domain scores are the means of their respective item</p>

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	Incomplete paraplegia = 17	differences between different groups completing the WHOQOL-Bref Overall QOL facet: t=4.94** Overall General Health facet: t=10.85** Physical Health Domain ^B : t=13.23** Psychological Domain: t=6.91** Social Relationship Domain: t=5.92** Environment Domain: t=2.31* **P<.001; *P=.022 ^A Facet defined as an aspect of life contributing to QOL, each item (26 total) represents one facet ^B Domain defined as a collection of related items, therefore also a collection of facets		scores, which are then multiplied by 4. Domain scores ranges from 4 to 20. Floor/ Ceiling Effect Floor Effect (number of patients scored minimally): n (%) Overall QOL facet: 6 (5.4) General Health facet: 10 (9.0) Physical Health Domain: 0 (0.0) Psychological Health Domain: 0 (0.0) Social Relationship Domain: 0 (0.0) Environment Domain: 0 (0.0) Ceiling Effect (number of patients scored maximally): n (%) Overall QOL facet: 1 (0.9)

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		When controlling for gender, education, and employment status, all facet and domain scores were influenced by the SCI and non-SCI group except the environment domain (t=0.86, P=.389)		General Health facet: 2 (1.8) Physical Health Domain: 1 (0.9) Psychological Health Domain: 1 (0.9) Social Relationship Domain: 0 (0.0) Environment Domain: 0 (0.0)																					
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<table border="1"> <thead> <tr> <th>Facet and Domain:</th> <th>Non-SCI</th> <th>SCI</th> </tr> </thead> <tbody> <tr> <td>Overall QOL Item</td> <td>13.92 (2.69)</td> <td>12.14 (3.28)</td> </tr> <tr> <td>General health Item</td> <td>14.22 (2.72)</td> <td>10.16 (3.27)</td> </tr> <tr> <td>Physical health Domain</td> <td>15.44 (1.84)</td> <td>11.41 (2.84)</td> </tr> <tr> <td>Psychological Domain</td> <td>13.75 (2.12)</td> <td>11.74 (2.73)</td> </tr> <tr> <td>Social relationships Domain</td> <td>14.25 (2.21)</td> <td>12.54 (2.58)</td> </tr> <tr> <td>Environment Domain</td> <td>12.85 (2.13)</td> <td>12.18 (2.55)</td> </tr> </tbody> </table>					Facet and Domain:	Non-SCI	SCI	Overall QOL Item	13.92 (2.69)	12.14 (3.28)	General health Item	14.22 (2.72)	10.16 (3.27)	Physical health Domain	15.44 (1.84)	11.41 (2.84)	Psychological Domain	13.75 (2.12)	11.74 (2.73)	Social relationships Domain	14.25 (2.21)	12.54 (2.58)	Environment Domain	12.85 (2.13)	12.18 (2.55)
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Research Summary – World Health Organization Quality of Life – Abbreviated Version (WHOQOL-BREF) – Quality of Life – Cross-cultural Validation Studies

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<p>Chang et al. (2022)</p> <p>Cross-sectional Study to validate the WHOQOL Scales (WHOQOL-BREF and WHOQOL-DIS module) in China</p> <p>Shanghai Sunshine Rehabilitation Center</p>	<p>N=62 in-patient participants with SCI, Age: 18-70 years Duration of injury: ≥ 6 months Exclusion criteria: adults with cognitive impairment or on their second admission for rehabilitation</p>	<p>WHOQOL-BREF domains and WHOQOL-DIS scores showed the predicted pattern among <i>a priori</i> known groups</p>	<p>Internal Consistency Cronbach's α: >0.70 for three domains except the social domain (0.59)</p> <p>Test-retest - Good for the two general items and 3 domains - Correlation coefficients of the social domain (0.67) and those of three domains (0.63–0.67) were below the acceptable level (<0.7)</p> <p>Inter-rater reliability was not performed in this study.</p>	
<p>Salvador-De La Barrera et al. (2018)</p>	<p>N=54, 44 male Mean (SD) age: 45.5 (13.2) years</p>		<p>Internal Consistency Cronbach's α: Overall: 0.887</p>	<p>Interpretability Mean (SD) scores:</p>

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<p>Psychometric study for Spanish version of WHOQOL-BREF</p> <p>Spinal Cord Injury Unit, Complejo Hospitalario Universitario de A Coruña, Galicia (Spain)</p>	<p>20 cervical, 28 thoracic, 6 lumbar/sacral</p>		<p>Physical Health Domain: 0.731 Psychological Health Domain: 0.859 Social Relationships Environment Domain: 0.68</p> <p>Test-retest, Inter-rater, Intra-rater Two-week test-retest reliability: ICC = 0.85</p>	<p>Perceived overall QOL question: 66.20 (20.69) Health status question: 56.48 (22.35)</p> <p>Physical domain: 61.55 (17.44) Psychological domain: 67.76 (19.33) Social relationship domain: 65.43 (21.37) Environment domain: 69.09 (12.90)</p> <p>Floor and ceiling effects are <2% in all domains</p> <p>Ceiling effect for perceived overall QOL question: 11.1% Ceiling effect for health status question: 9.3%</p>
<p>Suttiwong et al. (2013)</p>	<p>N=139, 110M 29F Mean age 34.2±8.4</p>	<p>Spearman's r of WHOQOL-BREF** (Thai) subscales with</p>		

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<p>Cross-sectional validation of Thai version of IPAQ</p> <p>Thai community</p>	<p>Mean time after injury 10.6±7.1yrs</p> <p>49 quadriplegia, 90 paraplegia</p> <p>137 (or more) were traumatic SCIs</p> <p>Wheelchair as primary mobility tool</p>	<p>Impact on Participation and Autonomy Questionnaire (Thai, IPAQ) subdomains (N=30):</p> <p>WHOQOL Physical:</p> <p>Autonomy Indoors = -0.56*</p> <p>Family role = -0.55*</p> <p>Autonomy outdoors = -0.49*</p> <p>Social life and relationships = -0.39*</p> <p>Work and education = -0.37</p> <p>WHOQOL Psychosocial:</p> <p>Autonomy Indoors = -0.46*</p> <p>Family role = -0.55*</p> <p>Autonomy outdoors = -0.59*</p> <p>Social life and relationships = -0.34</p>		

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		<p>Work and education = -0.37*</p> <p>WHOQOL Social Relation: Autonomy Indoors = -0.44* Family role = -0.47* Autonomy outdoors = -0.65* Social life and relationships = -0.40* Work and education = -0.33</p> <p>WHOQOL Environmental: Autonomy Indoors = -0.30 Family role = -0.36* Autonomy outdoors = -0.59* Social life and relationships = -0.33 Work and education = -0.35</p>		

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		*Indicates significant correlations. Statistical significance was not defined in article. **Raw domain scores instead of transformed domain scores used for correlations																										
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Chan & Chan (2006) Cross-sectional; used Hong	N=31 (25 male, 6 female) Mean Age: 41.68±11.17 9 high tetraplegia (C1-C4)	Correlations between the WHOQOL-BREF (HK) domains and the Chinese Version of Quebec User Evaluation with		Interpretability N=31 (25 male, 6 female) Mean Age: 41.68±11.17 See table 2 below																								

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<p>Kong version of WHOQOL-BREF</p> <p>Hong Kong</p>	<p>8 low tetraplegia (C5-C8)</p> <p>8 high paraplegia (T1-T9)</p> <p>6 low paraplegia (T10-S)</p>	<p>Assistive Technology (C-QUEST):</p> <p>C-QUEST Devices domain with WHOQOL-BREF:</p> <p>Overall QOL and General Health*: $r=0.412$, $P<0.05$</p> <p>Physical Health Domain: $r=0.508$, $P<0.05$</p> <p>Psychological Domain**: $r=0.344$, $P=0.056$</p> <p>Social Relationships Domain: $r=0.460$, $P<0.05$</p> <p>Environment Domain: $r=0.567$, $P<0.05$</p> <p>The Device scores were positively and moderately correlated with the domain scores of the WHOQOL-BREF (HK),</p>		

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		<p>except the psychological health domain, which has a marginal correlation with the Device score. C-QUEST Services domain with WHOQOL-BREF:</p> <ul style="list-style-type: none"> Overall QOL and General Health*: $r=0.120, P>0.05$ Physical Health Domain: $r=0.307, P>0.05$ Psychological Domain**: $r=0.023, P>0.05$ Social Relationships Domain: $r=0.242, P>0.05$ Environment Domain: $r=0.333, P>0.05$ <p>The Service scores are not significantly associated with the score on the</p>		

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		WHOQOL-BREF (HK), P>0.05. *2 items regarding overall QOL and general health **2 extra Hong Kong- specific items														
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