

**Research Summary – Assessment of Life Habits (LIFE-H) Scale – Community Reintegration**

<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="#">Dumont et al. (2003)</a></p> <p>Rasch Modelling</p>	<p>N=482 (81.1% males &amp; 18.9% females) Mean age=42.4±12 years</p> <p>Complete tetraplegia=24.3% Incomplete tetraplegia=19.5% Complete paraplegia=38% Incomplete paraplegia=18.3% Mean age at injury=29.2±11.8 years</p>		<p><b>Test-retest, Inter-rater, Intra-rater</b> Pearson's correlation=0.89 was found between the scores of experts and the measure of item difficulty obtained by Rasch analysis.</p> <p><b>Internal Consistency</b> Rasch Analysis: Item reliability = 0.99 Item separation = 9.37 (for real or worst case reliability) Person reliability = 0.91 Person separation=3.27 (real or worst case reliability, without extreme subjects)</p> <p>Average mean square infit=1.04</p>	

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			Average mean square outfit=1.11	
<a href="#">Noreau &amp; Fougeyrollas (2000)</a>	N=482 Mean age=42±12 years  Mean time since injury=15±7 years	Items in LIFE-H were grouped into 4 categories to match with 4 CHART dimensions referring to similar construct.  Physical independence=0.76 Occupation=0.36 Mobility=0.33 Social integration=0.14  <b>Factor Analysis:</b> Most dimensions of CHART (3/4) and LIFE-H (4/4) were strongly correlated to a specific factor (0.62-0.89), while the CHART social integration was associated to a second factor (0.88). Binary		

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		correspondence analysis showed that in most dimensions (except social integration) the magnitude of scores (low, moderate, and high) had a good correspondence of the two instruments.		
<p><a href="#">Fougeyrollas et al. (1998)</a></p> <p>Content validity and test-retest reliability</p> <p>General community</p>	<p>Children N=24 (16 females &amp; 8 males) Mean age=10.9±4.7 years Duration of injury=10.9±4.7 years Type of lesion= Myelodysplasia (thoracic 17 &amp; lumbar 7)</p> <p>Adults N=25 (3 females &amp; 22 males) Mean age=42.5±13.1 years</p>	<p>Twelve rehabilitation experts were chosen given their expertise as researchers, service providers, or consumer representatives. Generally the experts agreed the LIFE-H items covered large parts of a persons life habits and it could be used to measure the appearance of handicap situations.</p>	<p><b>Test-retest, Inter-rater, Intra-rater</b> ICC was calculated for the short form, long form, and within each of the 13 life habit categories of the long form. (Forms completed twice over a 2 week interval)</p> <p>Test-retest reliability: <b>Total long form</b> Adults: ICC=0.74 Children: ICC=0.73</p> <p><b>Short form</b></p>	<p>Total scores (SD) for each life habit category for adults and children following completion of 2 tests over 2 weeks:</p> <p>See table 2 below</p> <p>Employment not measured because of a limited number of individuals who were employed.</p>

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	Duration of injury=12.2±8.3 years Type of lesion=traumatic (cervical 10 & thoracolumbar 15)		Adults: ICC=0.83 Children: ICC=0.67  <b>Individual life habit categories for children</b> Personal care had the highest (ICC=0.76) Interpersonal relations had the lowest (ICC=0.31)  <b>Individual life habit categories for adults</b> Personal care had the highest (ICC=0.91) Nutrition had the lowest (ICC=0.13)  For both groups employment was not evaluated acknowledging the limited number of individuals to which it applies (n=16)	

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			All other life habit categories showed moderate to high reliability levels for both groups.		
Table 2					
	Life habit categories:	Children Test 1 scores:	Children Test 2 scores:	Adult Test 1 scores:	Adult Test 2 scores:
	Nutrition	4.3 (2.3)	3.9 (2.5)	2.2 (2.5)	2.0 (2.1)
	Fitness	3.4 (2.6)	3.7 (2.6)	1.9 (2.2)	1.6 (1.5)
	Personal care	4.2 (2.5)	3.8 (2.6)	2.2 (2.5)	1.9 (1.9)
	Communication	2.0 (2.2)	1.6 (1.7)	1.1 (1.8)	0.7 (0.9)
	Residence	5.2 (3.2)	4.5 (3.1)	3.5 (2.9)	3.1 (2.4)
	Mobility	4.6 (2.6)	4.2 (2.5)	2.6 (2.2)	2.3 (1.8)
	Responsibilities	3.3 (3.2)	3.3 (3.1)	0.7 (1.2)	0.4 (0.8)
	Family relations	3.3 (2.9)	3.1 (2.8)	1.5 (2.5)	1.1 (1.6)
	Interpersonal relations	3.5 (3.6)	2.8 (3.4)	1.9 (2.6)	0.7 (1.2)
	Community	5.6 (3.1)	4.1 (3.0)	2.2 (2.7)	1.8 (2.2)

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Last updated: May 8th, 2024

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	Education	3.9 (2.5)	3.0 (2.8)	2.0 (2.6)	2.5 (3.9)	
	Employment	-	-	-	-	
	Recreation	5.3 (2.5)	4.9 (2.5)	2.8 (2.5)	2.4 (2.2)	
	<i>Total score:</i>					
	Long form	4.4 (2.3)	3.9 (2.3)	2.2 (2.0)	1.9 (1.5)	
	Short form	4.2 (2.2)	4.1 (2.2)	2.3 (2.1)	2.3 (2.1)	

**Research Summary – Assessment of Life Habits (LIFE-H) Scale – Community Reintegration – Cross-cultural Validation Studies**

Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability															
<p><a href="#">Goh et al. (2016)</a></p> <p>Cross-sectional Study, <b>Malay version</b></p> <p>Teaching hospital in Kuala Lumpur, Malaysia</p>	<p>N=75 (physical disabilities), 29 SCI                      Mean age: 58 ± 10 years                      Age range: 41-78 years                      49 Males (65%)                      18 Amputation, 29 SCI, 24 Stroke, 4 Other</p>	<p>Malay version LIFE-H 3.1 with Barthel Index (Spearman correlation coefficients)</p> <p>Total score, daily activities subscore, personal care domain- <math>r &gt; 0.60</math></p> <p>Malay version LIFE-H 3.1 with WHOQoL-BREF</p> <p>Physical and psychological domains, <math>r=0.22-0.57</math></p>	<p><b>Test-retest, Inter-rater, Intra-rater</b>                      Test-retest reliability:                      ICC = 0.71-0.95</p>	<p>See table 1 below                      Only 2 participants answered items in the education domain, others reported all items in this domain were not applicable.</p>															
<p>Table 1</p> <table border="1"> <thead> <tr> <th><b>Domains</b></th> <th><b>SEM</b></th> <th><b>MDC</b></th> </tr> </thead> <tbody> <tr> <td>Nutrition</td> <td>0.59</td> <td>1.63</td> </tr> <tr> <td>Fitness</td> <td>0.89</td> <td>2.33</td> </tr> <tr> <td>Personal care</td> <td>0.63</td> <td>1.76</td> </tr> <tr> <td>Communication</td> <td>0.74</td> <td>2.05</td> </tr> </tbody> </table>					<b>Domains</b>	<b>SEM</b>	<b>MDC</b>	Nutrition	0.59	1.63	Fitness	0.89	2.33	Personal care	0.63	1.76	Communication	0.74	2.05
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	Housing	0.60	1.66		
	Mobility	0.77	2.15		
	Daily activities subscore	0.42	1.16		
	Responsibilities	0.82	2.27		
	Interpersonal relations	0.38	1.05		
	Community Life	0.92	2.56		
	Education	...	...		
	Employment	1.84	5.11		
	Recreation	1.70	4.71		
	Social Roles subscore	0.70	1.95		
Total Score	0.47	1.30			