Reviewer ID: Ben Mortenson, Tyra Chu, Carlos L. Cano Herrera

Last updated: August 28th, 2024

Research Summary – Craig Handicap Assessment and Reporting Technique-Short Form (CHART-SF) – Community Reintegration

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
Gontkovsky et al. 2009 Correlational analysis, single session study for CHART-Short Form Tertiary care rehab centers (Inpatient rehabilitation at Methodist Rehabilitation Center)	N= 28, 75 % male Mean age = 42 ±17 57% at their 1-year follow up 29% at their 2-year follow up 14% at their 3-year follow up 90% traumatic SCI 68% incomplete SCI 32% complete SCI AIS Classification 32.1% A 32.1% B 14.4% C 21.4% D Level of Injury	Convergent validity: • Adequate to Excellent correlation between the Community Integration Questionnaire (CIQ) and CHART total scores (see table below) • Poor to Adequate correlation between CIQ and CHART domains See table 1.		**Interpretability:** See table 2.

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<table>
<tr><th>Author Year Research Design Setting (country)</th><th>Demographics and Injury Characteristics of Sample</th><th>Validity</th><th>Reliability</th><th>Responsiveness Interpretability</th></tr>
<tr><td></td><td>60.7% Cervical
35.7% Thoracic
3.6% Lumbar</td><td></td><td></td><td></td></tr>
<tr><td></td><td colspan="4">Table 1.
CHART-SF and CIQ Correlations:
<table><tr><td></td><td colspan="4">CIQ</td></tr><tr><td></td><td>Home Integration</td><td>Social Integration</td><td>Productive Activity</td><td>Total</td></tr><tr><td>CHART-SF</td><td></td><td></td><td></td><td></td></tr><tr><td>Physical Independence</td><td>0.55**</td><td>0.01</td><td>0.14</td><td>0.33</td></tr><tr><td>Cognitive Independence</td><td>0.57**</td><td>0.43*</td><td>0.07</td><td>0.53**</td></tr><tr><td>Mobility</td><td>0.52**</td><td>0.68**</td><td>0.39*</td><td>0.73**</td></tr><tr><td>Occupation</td><td>0.56**</td><td>0.46*</td><td>0.41*</td><td>0.64**</td></tr><tr><td>Social Integration</td><td>0.47*</td><td>0.77**</td><td>0.34</td><td>0.73**</td></tr><tr><td>Economic Self-Sufficiency</td><td>0.25</td><td>0.01</td><td>0.37</td><td>0.24</td></tr><tr><td>Total</td><td>0.74**</td><td>0.57**</td><td>0.42*</td><td>0.79**</td></tr></table>*p <0.05
**p <0.01
CIQ = Community Integration Questionnaire

Table 2. Published data for CHART-Short Form:
<table><tr><td>Subscale:</td><td>Mean (SD):</td><td>Range:</td></tr></table></td></tr>
</table>

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	Physical Independence	47.0 (44.2)	4-100	
	Cognitive Independence	66.5 (36.4)	0-100	
	Mobility	69.6 (30.7)	17-100	
	Occupation	38.3 (39.4)	0-100	
	Social Integration	72.8 (35.2)	0-100	
	Economic Self-Sufficiency	38.4 (33.2)	0-100	
	Total	332.6 (145.8)	36-580	

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Research Summary – Craig Handicap Assessment and Reporting Technique-Short Form (CHART-SF) – Community Reintegration – Cross-cultural Validation Studies

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
Köce et al. 2022 Cultural adaptation, examination of the psychometric properties of the Physical Activity Scale for Individuals with Physical Disabilities (PASIPD) Turkish-version Spinal Cord Injury Association of Turkey and other associations connected to Hüsnü Ayı k	47 participants with SCI Mean (± SD) age 43.98 ± 13.50 Gender: 26F, 21M Reason of injury: Traumatic (n = 34) and non-traumatic (n = 13) ASIA level: A (n = 26), B (n = 6), C (n = 13), and D (n = 2) Level of injury: C5-C6 (n = 6), C7-C8 (n = 5), T1-T12 (n = 22), L1-L5 (n = 14) Clinical type: Paraplegia (n = 37), tetraplegia (n = 10)	**Convergent validity of the Turkish Version of PASIPD:** CHART-SF were moderately positively correlated with PASIPD total score. See table 1.		

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<table>
<tr><th>Author Year Research Design Setting (country)</th><th>Demographics and Injury Characteristics of Sample</th><th>Validity</th><th>Reliability</th><th>Responsiveness Interpretability</th></tr>
<tr><td>Special Care Center</td><td colspan="4">Table 1. Relationship between PASIPD total score and subscales and CHART-SF subscales
<table>
<tr><th>Item</th><th></th><th>CHART-SF physical independence</th><th>CHART-SF physical independence</th><th>CHART-SF mobility</th><th>CHART-SF occupation</th><th>CHART-SF social integration</th><th>CHART-SF economic self sufficiency</th></tr>
<tr><td rowspan="2">Leisure activities</td><td>r</td><td>0.294*</td><td>0.403**</td><td>0.623**</td><td>0.216</td><td>0.447**</td><td>0.164</td></tr>
<tr><td>p</td><td>0.045</td><td>0.005</td><td>0.000</td><td>0.145</td><td>0.002</td><td>0.271</td></tr>
<tr><td rowspan="2">Household activities</td><td>r</td><td>0.188</td><td>-0.060</td><td>-0.100</td><td>0.418**</td><td>0.034</td><td>0.320*</td></tr>
<tr><td>p</td><td>0.207</td><td>0.683</td><td>0.514</td><td>0.003</td><td>0.819</td><td>0.028</td></tr>
<tr><td rowspan="2">Work-related activities</td><td>r</td><td>-0.090</td><td>0.228</td><td>0.334*</td><td>0.284</td><td>0.478**</td><td>-0.210</td></tr>
<tr><td>p</td><td>0.560</td><td>0.124</td><td>0.022</td><td>0.053</td><td>0.001</td><td>0.157</td></tr>
<tr><td rowspan="2">Total score r</td><td>r</td><td>0.204</td><td>0.357*</td><td>0.597**</td><td>0.393**</td><td>0.545**</td><td>0.107</td></tr>
<tr><td>p</td><td>0.168</td><td>0.014</td><td>0.000</td><td>0.006</td><td>0.000</td><td>0.473</td></tr>
</table>
Spearman’s correlation: *p < 0.05; **p < 0.01.
Items in bold indicate fit</td></tr>
<tr><td>Golhasani-Keshtan et al. 2013

Cross-sectional validation of Persian Version of CHART-SF</td><td>N=52, 52M 0F
Mean age 49.3, SD=7.9, 38~80
Iran–Iraq war veterans with long-term spinal cord injuries
(23–31 years post-injury),</td><td>Pearson’s correlations:
CHART Mobility & SF36 Role Physical: 0.322, p=0.020
CHART Cognitive Independence & SF36 Physical Component</td><td>Internal Consistency:
Cronbach’s alpha:
Physical Independence: 0.385
Mobility: 0SF.236
Occupation: 0.293
Cognitive Independence: 0.562</td><td></td></tr>
</table>

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Janbazan Clinic of Mashhad, northeast of Iran	46 paraplegia, 6 tetraplegia 76.9% unemployed	Summary: 0.276, p=0.047 CHART Social Integration & SF36 Vitality: -0.429, p=0.002 CHART Social Integration & SF36 Social Functioning: 0.287, p=0.039	Social Integration: 0.351	