

Reviewer ID: Christie Chan, John Zhu, Jeremy Mak, Matthew Querée, Gita Manhas			
Type of Outcome Measure: Brief Pain Inventory (BPI) Interference Scale			Total articles: 2
Author ID Year	Study Design	Setting	Population (sample size, age) and Group
Raichle et al. 2006	Questionnaire to examine the psychometric properties of the Brief Pain Inventory (BPI) Interference Scale and the Graded Chronic Pain (GCP) Disability Scale as measures of pain-related interference.	US Northwest home survey questionnaire	N = 127 Male = 92 Female = 35 Age range = 21 to 88; Mean, 48.56 years (12.95) Mean (SD) time post injury: 16.6(10.6) years High tetraplegia = 18 Low tetraplegia = 40 High paraplegia = 14 Paraplegia = 42 Low paraplegia = 11 Missing data = 2
Soler et al. 2013	Postal surveys; Validation of Spanish MPI-SCI (MPI-SCI-S)	Guttman Institute, Barcelona, Spain	N=126, 78M 48F Mean age 49.0±13.8 Mean time since injury 11.8±10.8 yrs AIS-A/B/C = 78/20/28 43 traumatic, 83 nontraumatic Chronic pain (>1yr) & SCI (>2yr) & pain rating of ≥3 on Numerical Rating Scale
1. RELIABILITY			
Author ID	Internal Consistency	Test-retest, inter-rater, intra-rater	
Raichle et al. 2006	All items show High Internal consistency (Cronbach's alpha) Composite scores: 7-item = 0.92 10-item = 0.95 12-item = 0.96 Individual items*: General activity = 0.95 Mood = 0.95 Mobility = 0.95 Normal work = 0.95 Relationship with others = 0.95 Sleep = 0.95 Enjoyment of life = 0.95 Self-care = 0.95 Recreational activities = 0.95 Social activities = 0.95 Communication = 0.95 Learning new information and skills = 0.93 *alphas represent the internal consistency with the removal of that item.	No data available	

2. VALIDITY

Author ID	Validity
Raichle et al. 2006	<p>Correlations (Spearman's rho) with pain intensities*: 7-item = 0.62 10-item = 0.63 12-item = 0.61</p> <p>Individual items: General activity = 0.51 Mood = 0.57 Mobility = 0.58 Normal work = 0.50 Relationship with others = 0.50 Sleep = 0.50 Enjoyment of life = 0.53 Self-care = 0.50 Recreational activities = 0.59 Social activities = 0.54 Communication = 0.43 Learning new information and skills = 0.44 *P<.01</p> <p>All coefficients are significant and positively associated with pain intensity (Moderate to High).</p> <p>Correlation (Spearman's rho) with SF-36's Mental Health scale*: 7-item = -0.62 10-item = -0.60 12-item = -0.61</p> <p>Individual items: General activity = -0.51 Mood = -0.65 Mobility = -0.44 Normal work = -0.48 Relationship with others = -0.63 Sleep = -0.30 Enjoyment of life = -0.64 Self-care = -0.41 Recreational activities = -0.49 Social activities = -0.58 Communication = -0.64 Learning new information and skills = -0.44 *P<.01</p> <p>All coefficients are significant and negatively associated with the SF-36 subscale Mental Health.</p>
Soler et al. 2013	<p>Pearson's r between: MPI-SCI life interference subscale and BPI: 0.75, P<0.000 MPI-SCI pain interference with activities subscale and BPI: 0.50, P<0.000</p>
3. RESPONSIVENESS – no data available	
4. FLOOR/CEILING EFFECT – no data available	
5. INTERPRETABILITY	
Author ID	Interpretability

Raichle et al. 2006	Mean (SD) BPI scores:	
		Mean (SD) score:
	<i>BPI composite scores</i>	
	7-item	3.63 (2.60)
	10-item	3.53 (2.62)
	12-item	3.31 (2.58)
	<i>BPI individual items</i>	
	General activity	3.30 (3.05)
	Mood	4.10 (2.96)
	Mobility	3.45 (3.09)
	Normal work	3.34 (3.08)
	Relationships with others	3.06 (2.95)
	Sleep	4.39 (3.34)
	Enjoyment of life	4.31 (3.46)
	Self-care	2.53 (2.82)
	Recreational activities	3.98 (3.51)
	Social activities	3.50 (3.44)
	Communication	2.36 (3.02)
Learning new information & skills	2.36 (3.12)	