

**Research Summary – Brief Pain Inventory (BPI) – Pain**

<b>Author Year</b> <b>Country</b> <b>Research Design</b> <b>Setting</b>	<b>Demographics and Injury Characteristics of Sample</b>	<b>Validity</b>	<b>Reliability</b>	<b>Responsiveness Interpretability</b>																				
<p><a href="#">Raichle et al. 2006</a></p> <p>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.</p> <p>US Northwest home survey questionnaire</p>	<p>N = 127 Male = 92 Female = 35</p> <p>Age range = 21 to 88; Mean, 48.56 years (12.95) Mean (SD) time post injury: 16.6(10.6) years</p> <p>High tetraplegia = 18 Low tetraplegia = 40 High paraplegia = 14 Paraplegia = 42 Low paraplegia = 11 Missing data = 2</p>	<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&lt;.01</p>	<p>Internal consistency: All items show High Internal consistency (Cronbach's alpha)</p> <p>Composite scores: 7-item = 0.92 10-item = 0.95 12-item = 0.96</p> <p>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</p>	<p>Mean (SD) BPI scores</p> <table border="1" data-bbox="1558 500 1890 1360"> <thead> <tr> <th></th> <th><b>Mean (SD) score</b></th> </tr> </thead> <tbody> <tr> <td><i>BPI composite scores</i></td> <td></td> </tr> <tr> <td>7-item</td> <td>3.63 (2.60)</td> </tr> <tr> <td>10-item</td> <td>3.53 (2.62)</td> </tr> <tr> <td>12-item</td> <td>3.31 (2.58)</td> </tr> <tr> <td><i>BPI individual items</i></td> <td></td> </tr> <tr> <td>General activity</td> <td>3.30 (3.05)</td> </tr> <tr> <td>Mood</td> <td>4.10 (2.96)</td> </tr> <tr> <td>Mobility</td> <td>3.45 (3.09)</td> </tr> <tr> <td>Normal work</td> <td>3.34 (3.08)</td> </tr> </tbody> </table>		<b>Mean (SD) score</b>	<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)
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		<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</p>	<p>information and skills = 0.93</p> <p>*alphas represent the internal consistency with the removal of that item.</p>	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)	

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		information and skills = -0.44 *P<.01  All coefficients are significant and negatively associated with the SF-36 subscale Mental Health.		
<a href="#">Soler et al.</a> 2013  Postal surveys; Validation of Spanish MPI-SCI (MPI-SCI-S)  Guttmann 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	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		