### Reviewer ID: Tyra Chu, Carlos L. Cano Herrera

### Last updated: January 23rd, 2024

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

N = 127CorrelationsInternal consistency:Mean (SD) BPI scoresMale = 92(Spearman's rho) with pain intensities*: 7-item = 0.62All items show High Internal consistency (Cronbach's alpha)Mean (SD) BPI scoresRaichle et al. 2006Age range = 21 to 88; Mean, 48.56 years (12.95)10-item = 0.63Composite scores: 7-item = 0.61Mean (SD)Questionnaire to examine the psychometric properties of the Brief Pain Inventory (BPI)Mean (SD) time post injury: 16.6(10.6) yearsIndividual items: General activity = 0.510-item = 0.92BPI composite scoresInventory (BPI) Interference Scale and the Graded Chronic Pain (GCP) DisabilityHigh paraplegia = 14 Low paraplegia = 11 Missing data = 2Normal work = 0.50 Sleep = 0.50Individual items*: Goneral activity = 0.9510-itemNormal work = 0.9512-item0.95 Mobility = 0.9512-item3.31 (2.62)BPI individual1010-item3.33 (2.58)BPI individual1010-item3.31 (2.58)	Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiven Interpretabi	less lity
Scale as measures of pain-related interference.Enjoyment of life = 0.53 Self-care = 0.50 Recreational activities = 0.59Relationship with others = 0.95 <i>items</i> US Northwest home survey questionnaireSocial activities = 0.54 Communication = 0.43 Learning new information and skills = 0.44 *P<.01	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 = 40 High paraplegia = 14 Paraplegia = 42 Low paraplegia = 11 Missing data = 2	Correlations (Spearman's rho) with pain intensities*: 7-item = 0.62 10-item = 0.63 12-item = 0.61 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	Internal consistency: 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	Mean (SD) BPI sc BPI composite scores 7-item 10-item 12-item BPI individual items General activity Mood Mobility Normal work	Mea n (SD) score : 3.63 (2.60) 3.53 (2.62) 3.31 (2.58) 3.31 (2.58) 3.30 (3.05) 4.10 (2.96) 3.45 (3.09) 3.34 (3.08)

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Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiver Interpretabi	ness ility
		All coefficients are significant and positively associated with pain	information and skills = 0.93	Relationships with others	3.06 (2.95)
		intensity (Moderate to High). Correlation (Spearman's rho) with SF-36's Mental Health scale*:	*alphas represent the internal consistency with the removal of that item.	Sleep	4.39 (3.34)
				Enjoyment of life	4.31 (3.46)
				Self-care	2.53 (2.82)
		7-item = -0.62 10-item = -0.60		Recreational activities	3.98 (3.51)
		12-item = -0.61		Social activities	3.50 (3.44)
		Individual items: General activity = -0.51		Communicati on	2.36 (3.02)
		Mood = -0.65 Mobility = -0.44 Normal work = -0.48		Learning new information & skills	2.36 (3.12)
		Relationship with others = -0.63		L	<u> </u>
		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			

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Author Year Country Research Design Setting	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
		information and skills = - 0.44 *P<.01		
		All coefficients are significant and negatively associated with the SF-36 subscale Mental Health.		
<u>Soler et al.</u> 2013	N=126, 78M 48F Mean age 49.0±13.8	Pearson's r between: MPI-SCI life interference		
Postal surveys; Validation of Spanish MPI-SCI (MPI-SCI-S)	Mean time since injury 11.8±10.8 yrs AIS-A/B/C = 78/20/28 43 traumatic, 83 nontraumatic	subscale and BPI: 0.75, P<0.000 MPI-SCI pain interference with activities subscale and BPI: 0.50, P<0.000		
Guttmann Institute, Barcelona, Spain	Chronic pain (>1yr) & SCI (>2yr) & pain rating of >=3 on Numerical Rating Scale	BF1. 0.30, P>0.000		