Assessment Overview

Assessment Area

ICF Domain:

Body Functions

Subcategory:

Sensory and Pain

You Will Need

Length:

8 items – less than 5 minutes

Scoring:

Difference

Each item is scored from either 1 (no problems with domain) to 5 or 6 (severe problems with domain). Scores assigned to each attribute level are then combined using the multiplicative u = 1.371 $(u_{1}^{*}u_{2}^{*}u_{3}^{*}u_{4}^{*}u_{5}^{*}u_{6}^{*}u_{7}^{*}u_{8}^{*})$ -0.371 to arrive at an overall index for each respondent. The scores are then scaled to be between 0 and 1.

Assessment Interpretability

Summary

The Health Utilities Index-Mark III (HUI-Mark III) scale measures quality of life in 8 domains: vision, hearing, speech, ambulation, dexterity, emotion, cognition and pain.

After scaling each item from 1 to 5 or 6 and combining these scores using a multiplicative utility function, the Index is scaled from 0 (completely unhealthy) to 1 (completely healthy).

Availability

Worksheet: Can be found here.

Minimal Clinically Important Typical Values **Statistical Error** Mean HUI-Mark III score for SCI Not established in SCI patients (±SD): Not established in SCI 0.27 (±0.27) (Craven et al. 2012; n=357; mean age (range): 53.7 (24-89) years, traumatic SCI: n=279, nontraumatic SCI: n=78)

Measurement Properties	
Validity – Low to Moderate	Reliability – Not Established in SCI
Low Hierarchal regression model of HUI-Mark III with personal factors:	Not established in SCI
R ² = 0.008	
Low Hierarchal regression model of HUI-Mark III with body functions and structure:	Number of studies reporting reliability data: 0
R ² = 0.142	
Moderate Hierarchal regression model of HUI-Mark III with activity and participation:	
R ² = 0.565	
Moderate Hierarchal regression model of HUI-Mark III with environmental factors:	
R ² = 0.565	
(Mittmann et al. 2014; n=357; 257 males, 100 females; mean age (range): 53.7 (24-89) years: traumatic SCI: n=279, non-traumatic SCI: n=78)	
Moderate Hierarchal regression model of HUI-Mark III and SCI Secondary Conditions Scale-Modified for health and health preference:	
r = 0.37	
Moderate Hierarchal regression model of HUI-Mark III and SCI Secondary Conditions Scale-Modified for self- rated health:	
r = -0.41	
Moderate Hierarchal regression model of HUI-Mark III and SCI Secondary Conditions Scale-Modified for secondary health conditions and severity:	
r = -0.47	
(Craven et al. 2012; n=357; mean age (range): 53.7 (24-89) years, traumatic SCI: n=279, non-traumatic SCI: n=78)	
Number of studies reporting validity data: 2	

Responsiveness

Floor/Ceiling Effect:

Effect Size:

Not established in SCI

Not established in SCI

Number of studies reporting responsiveness data: 0