

# Health Utilities Index-Mark III (HUI-Mark III)

## Assessment Overview

### Assessment Area

**ICF Domain:**

Body Functions

**Subcategory:**

Sensory and Pain

### You Will Need

**Length:**

8 items – less than 5 minutes

**Scoring:**

Each item is scored from either 1 (no problems with domain) to 5 or 6 (severe problems with domain). The scores are then scaled to be between 0 and 1.

### Summary

The Health Utilities Index-Mark III scale measures quality of life in 8 domains: vision, hearing, speech, ambulation, dexterity, emotion, cognition and pain. The index is scaled from 0 (completely unhealthy) to 1 (completely healthy).

### Availability

Available for free: <http://www.healthutilities.com/hui3.htm>

## Assessment Interpretability

### Minimal Clinically Important Difference

Not established in SCI

### Statistical Error

Not established in SCI

### Typical Values

**Mean HUI-Mark III score for SCI patients ( $\pm$ SD):**

0.27 ( $\pm$ 0.27)

(Craven et al. 2012; N=357, mean age (range): 53.7 (24-89), traumatic SCI: n=279, non-traumatic SCI: n=78)

## Measurement Properties

Validity – **Low to Moderate**

**Low** Hierarchal regression model of HUI-Mark III with personal factors:

$$R^2 = 0.008$$

**Low** Hierarchal regression model of HUI-Mark III with body functions and structure:

$$R^2 = 0.142$$

**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 (257M, 100F), mean age (range): 53.7 (24-89), 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), traumatic SCI: n=279, non-traumatic SCI: n=78)

**Number of studies reporting validity data: 2**

Reliability – **Not Established in SCI**

Not established in SCI

**Number of studies reporting reliability data: 0**

Responsiveness

**Floor/Ceiling Effect:**

Not established in SCI

**Effect Size:**

Not established in SCI

**Number of studies reporting responsiveness data:**

Not established in SCI