## **Assessment Overview**

Assessment Area

**ICF Domain:** 

Activity

Subcategory:

Mobility

You Will Need

Length: 32 item – around 30 minutes

#### Scoring:

7-point scale (1 = "Totally limited, can't do at all", 7 = "Not at all limited". Sum of item scores range from 32 to 224 (higher scores reflecting better function). Left and right arm/hand function can be derived separately. Percent of normal function score calculated using: (total score – 32) / 192 \* 100%.

### Summary

The Capabilities of Upper Extremity Instrument (CUE) measures functional limitation and assesses the amount of difficulty experienced in performing specific actions with one or both arms and hands in people with tetraplegia.

Questions focus on someone's ability to reach or lift; pull and push with their arms; move and position their arm and wrist; use their hand and fingers; and press with the tip of the index finger.

# Availability

Available for free here: <u>http://www.scireproject.com/sites/default/files/worksheet\_capabilities\_of\_upper\_extremity\_questionnaire\_cue.docx</u>

Languages: English

# **Assessment Interpretability**

Minimal Clinically Important	Statistical Error	Typical Values
Difference	<b>SEM =</b> 12.2	Mean CUE score: 78.8 (SD: 29,
Not established in SCI	(Marino et al. 1998; n=154)	range: 4-124, median = 78)
		(Kalsi-Ryan et al. 2012; n=72, chronic tetraplegia)

Measurement Properties	
Validity – <b>High</b>	Reliability – <b>High</b>
High Spearman's ρ correlation with GRASSP subtests (All P<.0001):	<u><i>High</i></u> Internal consistency: $\alpha = 0.96$
Sensation total $_{(R+L)}$ : $\rho = 0.77$ Strength total $_{(R+L)}$ : $\rho = 0.76$	(Marino et al. 2012, N=30, 30 males, Mean age: 44.8 years, 10 incomplete, 2 complete injury) Number of studies reporting reliability data: 1
Prehension performance total <sub>(R+L)</sub> : ρ = 0.83 (Kalsi-Ryan et al. 2012; n=72, chronic tetraplegia) High correlation with ASIA Upper Extremity Motor	
<b>Score:</b> r = 0.782	
(P<.05; Marino et al. 1998; n=154) High correlation with Functional Independence Measure:	
r = 0.738	
(P<.05; Marino et al. 1998; n=154) Number of studies reporting validity data: 3	
Respons	siveness

Floor/Ceiling Effect:

Effect Size:

Not established in SCI

Not established in SCI

Number of studies reporting responsiveness data:

Not established in SCI