# Québec User Evaluation of Satisfaction with Assistive Technology (QUEST)

## Assessment Overview

### Assessment Area

**ICF Domain:**
Environmental Factors
**Subcategory:**
Products and Technology

### You Will Need

**Length:**
5-30 minutes, 12 items
**Scoring:**
Items scored 1-5. 3 scores (devices, services, total) are calculated using means of certain items

### Summary

The Québec User Evaluation of Satisfaction with Assistive Technology (QUEST) is a self-report or interview-based scale, designed to evaluate a person's satisfaction with a wide range of assistive technology.

The current version (ver. 2.0) covers satisfaction with both the device, and with the service from the vendor/manufacturer.

### Availability

**Worksheet:** Can be found in the appendix of the following article: https://pubmed.ncbi.nlm.nih.gov/11508406/

**Languages:** English, Greek, Chinese, Korean, and Taiwanese.

## Assessment Interpretability

### Minimal Clinically Important Difference

Not established in SCI

### Statistical Error

Not established in SCI

### Typical Values

**Mean (SD) Scores:**
Device Total: 4.1 (0.9)
Services Total: 3.8 (1.1)
Total: 3.99 (1.0)

(Bergstrom & Samuelsson 2006; n=124; 89 males, 35 females; community living, manual wheelchair users)

## Measurement Properties

### Validity – Moderate

**Moderate correlation between QUEST-Device subscale and Hong Kong WHO Quality of Life – BREF:**

Correlation = 0.344-0.567

(Chinese QUEST; Chan & Chan 2006; n=31, 25 males, tetraplegia and paraplegia; mean (SD) time since injury = 3.79 (3.72) years; manual and power wheelchair users)

**High intercorrelations for all subscale item pairings**

Safe Use: 0.691-0.794

Fit to Use: 0.615-0.829

Endurance: 0.635-0.909

(Greek QUEST; Koumpouros et al. 2016; n=115; 51 males; mean (SD) age: 62.45 (19.29) years, Injury not specified)

**Number of studies reporting validity data:** 4

### Reliability – Moderate to High

**High Intra-rater Reliability:**

ICC = 0.855

(Korean QUEST; Hwang et al. 2015; n=70; 55 males; ASIA A-D; 29 complete and 41 incomplete; mean (SD) time since injury: 31.1 (58.6) years, mixed assistive devices)

**High Test-Retest Reliability:**

ICC=0.949

(Greek QUEST; Koumpouros et al. 2016; n=115; 51 males; mean (SD) age: 62.45 (19.29) years, Injury not specified)

**Moderate to High Internal Consistency:**

α = 0.754

(Greek QUEST; Koumpouros et al. 2016; n=115; 51 males; mean (SD) age: 62.45 (19.29) years, Injury not specified)

α = 0.90

(Taiwanese QUEST; Mao et al. 2015; n=105; 79 males; 73 SCI; mean (SD) device use duration: 3.3 (2.2) years; mixed assistive devices)

α = 0.855

(Korean QUEST; Hwang et al. 2015; n=70; 55 males; ASIA A-D; 29 complete and 41 incomplete; mean (SD) time since injury: 31.1 (58.6) years, mixed assistive devices)

**Number of studies reporting reliability data:** 4

### Responsiveness

**Floor/Ceiling Effect:**
Not established in SCI

**Effect Size:**
Not established in SCI

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