# **Assessment Overview**

### Assessment Area

ICF Domain: Body Function Subcategory: General Functions

# You Will Need

Length: 5 minutes, 10 items Scoring: 4-point Likert scales for items (1 = "not always true", 4 = "always true") Total score (out of 40) is sum of items scores. Higher score represents greater perceived self-efficacy

# Summary

The SCI Exercise Self-Efficacy Scale (ESES) is a scale developed to measure a person with SCI's beliefs or confidence that they can perform various physical activities and exercise (on a scale of 1-4).

# Availability

Worksheet: Can be found here.

Languages: English, Dutch, and Brazilian-Portuguese

# **Assessment Interpretability**

Minimal Clinically Important Difference	Statistical Error	Typical Values
Not stablished in SCI	Not stablished in SCI	Mean (SD) scores: Item 1: 3.2582 (.8027) Item 2: 3.3533 (.8450) Item 3: 3.1739 (.8268) Item 4: 3.1359 (.8073) Item 5: 2.8152 (.8881) Item 6: 2.9918 (.9116) Item 7: 3.2092 (.9666) Item 8: 3.2989 (.9470) Item 9: 3.2880 (.8912) Item 10: 3.2446 (.9367) (Kroll et al. 2007; n=368, 221 males, mixed injury types, no information on chronicity)

# **Measurement Properties**

# Validity – Low to High

# Low correlation with the Generalised Self Efficacy Scale (GSE):

r = 0.316 (Kroll et al. 2007; N=53; 31 males)

## Moderate correlation with the revised Self-Efficacy in Wheeled Mobility scale (SEWM):

r = 0.64, p < 0.05 (Fliess-Douer et al. 2013; N=79; 49 males; mean age: 33 years; 64 paraplegia, 15 tetraplegia; 46 complete, 25 incomplete)

## High correlation with SF-36 Questionnaire and FIM domains

r = 0.708

(Pisconti et al. 2017; N=10; 8 males, 2 females; mean age = 42.72; 5 cervical and 5 thoracolumbar; Brazilian version)

## Number of studies reporting validity data: 3

# Reliability – High

# **High Test-retest Reliability:**

#### ICC = 0.81

(Nooijen et al. 2013; N=53; 44 males; Dutch version of ESES; 33 paraplegia, 20 tetraplegia; 34 complete, 19 incomplete; mean (SD) time since injury: 107.2 (122.3) months)

### **High Internal Consistency:**

#### $\alpha$ = 0.81-0.93

(Kroll et al. 2007; N=368; 221 males) (Fliess-Douer et al. 2013; N=79; 49 males; mean age: 33 years; 64 paraplegia, 15 tetraplegia; 46 complete, 25 incomplete)

## **High Internal Consistency:**

- ESES-1: 0.856
- ESES-2: 0.855
- ESES-3: 0.822

(Pisconti et al. 2017; N=10; 8 males, 2 females; mean age = 42.72; 5 cervical and 5 thoracolumbar; Brazilian version)

## **High Intra-rater reliability:**

ICC = 0.97 (range 0.92-0.99)

## **High Inter-rater reliability**

ICC = 0.99 (range 0.97-0.99)

(Pisconti et al. 2017; N=10; 8 males, 2 females; mean age = 42.72; 5 cervical and 5 thoracolumbar; Brazilian version)

## Number of studies reporting reliability data: 4

### Responsiveness

### Floor/Ceiling Effect:

# **Effect Size:**

Not established in SCI

# Number of studies reporting responsiveness data: 1

### Neither was noted, but distribution is negatively skewed

(Nooiien et al. 2013; N=53; 44 males; Dutch version of ESES; 33 paraplegia, 20 tetraplegia; 34 complete, 19 incomplete; mean (SD) time since injury: 107.2 (122.3) months)