

Frenchay Activities Index (FAI)

Assessment Overview

Assessment Area

ICF Domain:

Activity

Subcategory:

Self-Care

You Will Need

Length:

13 items – less than 15 minutes

Scoring:

4 items (washing up, washing clothes, driving a car/bus travel, and gainful work) are scored on a 2-point scale; the remaining 9 items are scored on a 3-point scale.

Response categories are 0 = never, 1 = occasionally or more, and 2 = most days.

Summary

The Frenchay Activities Index assesses frequency of performing Instrumental Activities of Daily Living, including items that reflect the patient's behavior in areas of domestic chores, leisure/work and outdoor activities.

The raw scores of the 13-item FAI can be transformed to interval scores, thereby enabling clinicians and researchers to quantify and monitor IADL function in SCI patients.

Availability

Available for free here:

https://www.strokengine.ca/en/family/fai_family/

Assessment Interpretability

Minimal Clinically Important Difference

Not established in SCI

Statistical Error

Standard Error (SE) of the items:

1. Washing up	0.17
2. Preparing main meals	0.13
3. Washing clothes	0.17
4. Driving car/bus travel	0.17
5. Light housework	0.11
6. Heavy housework	0.12
7. Local shopping	0.11
8. Social occasions	0.13
9. Actively pursuing hobby	0.12
10. Gainful work	0.16
11. Travel outings/car rides	0.15
12. Gardening	0.15
13. Household/car maintenance	0.15

(Hsieh et al. 2007)

Typical Values

Not established in SCI

Measurement Properties

Validity – Low to Moderate

Low to Moderate Correlation between R-FAI administered at 3, 6, and 12 months after injury and the 4 domains of the WHOQOL- BREF administered at 12 months after injury:

WHOQOL-BREF 12 months post injury	FAI 3 months post injury	FAI 6 months post injury	FAI 12 months post injury
Physical	$r = 0.39$	$r = 0.41$	$r = 0.50$
Psychology	$r = 0.38$	$r = 0.28$	$r = 0.37$
Social relations	$r = 0.20$	$r = 0.28$	$r = 0.35$
Environment	$r = 0.39$	$r = 0.31$	$r = 0.37$

(Chern et al. 2013, N=2339 (1454 male), mean age: 45 (SD 18.5), traumatic limb injuries)

Not Ranked The Frenchay Activities Index was validated as a unidimensional construct through revision of the scale after Rasch analysis.

(Hsieh et al. 2007, N=233 (193 male), mean age: 41.1 (SD 12.6), 33 Complete, 57 Incomplete tetraplegia; 151 Complete, 48 Incomplete paraplegia)

Number of studies reporting validity data: 2

Reliability – High

High Internal Consistency:

$$\alpha = >0.90$$

(Chern et al. 2013, N=2339 (1454 male), mean age: 45 (SD 18.5), traumatic limb injuries)

Not Ranked Rasch analysis reliability coefficient:

Rasch coefficient = 0.78

(Hsieh et al. 2007, N=233 (193 male), mean age: 41.1 (SD 12.6), 33 Complete, 57 Incomplete tetraplegia; 151 Complete, 48 Incomplete paraplegia)

Number of studies reporting reliability data: 2

Responsiveness

Floor/Ceiling Effect:

# months post injury	% Ceiling	% Floor
3	0.3	7.3
6	3.5	4.3
12	2.5	2.4

(Chern et al. 2013, N=2339 (1454 male), mean age: 45 (SD 18.5), traumatic limb injuries)

Effect Size:

# months post injury	Effect size
3	0.10
6	0.35
12	0.15

(Chern et al. 2013, N=2339 (1454 male), mean age: 45 (SD 18.5), traumatic limb injuries)

Number of studies reporting responsiveness data: (1)

(Chern et al. 2013, N=2339 (1454 male), mean age: 45 (SD 18.5), traumatic limb injuries)

# months post injury	Standardized Response Mean
3	0.20
6	0.52
12	0.23