

Research Summary – Functional Standing Test (FST) – Upper Limb

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability												
<p>Triolo et al., 1994</p> <p>Methodological study; test-retest to assess interrater reliability</p>	<p>N=13 volunteers mean (SD) age: 23.5 (3.9), range: 15-30. Able bodied: N=10 (2M, 8F) SCI injured: N=3; (1M, 2F)</p> <p>SCI patients: complete T3-T6 injury.</p>	<p>ANOVAs performed on the pooled data (over all volunteers and raters) indicated that 60% of the individual subtests were significantly different at the P=.05 level. This difference was people with and without SCI indicated the FST may be sensitive to various standing impairments.</p>	<p>Test-retest, inter-rater, intra-rater: ICC values for SCI individuals standing with knee-ankle-foot-orthoses (KAFOs): Table 1.</p>													
<p>Table 1. ICC values for SCI individuals standing with knee-ankle-foot-orthoses (KAFOs):</p>																
<table border="1"> <thead> <tr> <th>FST subtask:</th> <th>SCI-KAFOs:</th> </tr> </thead> <tbody> <tr> <td>1. Simulate page turning (index cards)</td> <td>0.67</td> </tr> <tr> <td>2. Move small objects on test board</td> <td>0.91</td> </tr> <tr> <td>3. Lift light objects up to low</td> <td>0.81</td> </tr> <tr> <td>4. Lift light objects down from low</td> <td>0.72</td> </tr> <tr> <td>5. Pull object from dominant side</td> <td>0.93</td> </tr> </tbody> </table>					FST subtask:	SCI-KAFOs:	1. Simulate page turning (index cards)	0.67	2. Move small objects on test board	0.91	3. Lift light objects up to low	0.81	4. Lift light objects down from low	0.72	5. Pull object from dominant side	0.93
FST subtask:	SCI-KAFOs:															
1. Simulate page turning (index cards)	0.67															
2. Move small objects on test board	0.91															
3. Lift light objects up to low	0.81															
4. Lift light objects down from low	0.72															
5. Pull object from dominant side	0.93															

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability	
	6. Push object from dominant side		0.81		
	7. Move large light objects		0.68		
	8. Stack checkers		0.79		
	9. Lift heavy objects up to low		0.89		
	10. Lift heavy objects down from low		0.44		
	11. Pull object from non-dominant side		0.37		
	12. Push object from non-dominant side		0.69		
	13. Move large heavy objects		0.98		
	14. Scooping (simulated feeding)		0.85		
	15. Lift light objects up to top		0.91		
	16. Lift light objects down from top		0.96		
	17. Lift heavy objects up to top		0.67		
	18. Lift heavy objects down from top		0.85		
	19. Pouring		0.26		
	20. Lift objects of unknown weight to top		0.98		
	21. Total standing time		-0.13		
	Total Items ranged: ICC=0.13-0.98 4 items were questionable: ICC=0.13-0.44 11 items were very reliable: ICC=0.81-0.98				

Reviewer ID: Tyra Chu, Carlos L. Cano Herrera

Last updated: January 26th, 2024

Author Year Research Design Setting (country)	Demographics and Injury Characteristics of Sample	Validity	Reliability	Responsiveness Interpretability
	Remaining 6 items were moderately reliable: ICC=0.67-0.79			