### Type/Name of Outcome Measure: Spinal Cord Injury Functional Ambulation Profile (SCI-FAP)

<table>
<thead>
<tr>
<th>Author ID Year</th>
<th>Study Design</th>
<th>Setting</th>
<th>Population (sample size, age) and Group</th>
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</table>
| Musselman et al., 2011 | Development and validation of SCI-FAP Cross-sectional sample | “Participants with [incomplete] SCI were recruited from the University of Alberta (UA) and the University of British Columbia (UBC)” | N=32, 24 male  
Mean age 47.6, SD=14.2, range = 20-81  
At least 6 months postinjury; mean = 7.0(8.7) yrs  
AIS-C/D: 14/18, incomplete SCI  
Level of Injury: 19 cervical, 10 thoracic, 3 lumbar  
WISCI-II score 8~20  
In addition, N=60 able-bodied adults participated for comparison |
| Musselman & Yang 2014 | Secondary analysis of data collected during a randomized, single-blind, crossover trial | Recruitment through: Canadian Paraplegic Association; Glenrose Rehabilitation Hospital, Alberta, Canada; Foothills Hospital, Alberta, Canada; Online Advertisements | N=20, 14 male  
Mean age 46.0(13.6)  
Mean postinjury time: 5.4(8.8) yrs  
AIS-C/D: 4/16, incomplete SCI  
Level of Injury: 10 cervical, 9 thoracic, 1 lumbar  
Incomplete SCI, independent ambulation with assistive devices  
WISCI-II score 9~20 |

### 1. RELIABILITY

<table>
<thead>
<tr>
<th>Author ID Year</th>
<th>Internal Consistency</th>
<th>Test-retest, Inter-rater, Intra-rater</th>
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</table>
| Musselman et al. 2011 | | Test-retest ICC (N=22, 1-2 week interval):  
Total Score: 0.983  
Total Time: 0.952  
Total Assistance: 0.998  
Tasks: 0.959-0.992  
Interrater ICC (all but 3 had 3 raters – rest had 5 raters):  
Total Score: 1.000  
Total Time: 1.000  
Total Assistance: 1.000  
Tasks: 0.994-1.000 |

### 2. VALIDITY

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<tr>
<th>Author ID Year</th>
<th>Validity</th>
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| Musselman et al. 2011 | Discriminative validity:  
Incomplete SCI participants “scored significantly higher on the SCIFAP (total score P = .002; and task scores, .001 < P < .01) compared with their able-bodied counterparts.”  
“There is a lot of variability among the participants with ISCI. In all, 5 participants achieved total scores on the SCI-FAP similar to those of able-bodied individuals, whereas the 3 participants who could not complete all SCI-FAP tasks scored >1000”  
Convergent Validity  
Pearson’s correlations with:  
10MWT:  
Total Score: -0.59 (P=0.001)  
Total Time: -0.62 (P<0.007)  
Total Assistance: -0.78 (P<0.007)  
Tasks: -0.47~0.63 (P<0.007) |
Jaspen coefficient of multiserial correlations with:

**WISCI-II (self-selected):**
- Total Score: -0.68 (P=0.001)
- Total Time: -0.67 (P<0.007)
- Total Assistance: -0.82 (P<0.007)
- Tasks: -0.54 to -0.67 (P<0.007)

**WISCI-II (maximal):**
- Total Score: -0.70 (P=0.001)
- Total Time: -0.71 (P<0.007)
- Total Assistance: -0.86 (P<0.007)
- Tasks: -0.57 to -0.69 (P<0.007)

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### 3. RESPONSIVENESS

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<thead>
<tr>
<th>Author ID</th>
<th>Responsiveness</th>
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<tbody>
<tr>
<td>Musselman &amp; Yang 2014</td>
<td>Standardized response mean after 2 months of precision training:</td>
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<tr>
<td></td>
<td>SCI-FAP Score: 0.5 (P&gt;0.005)</td>
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<tr>
<td></td>
<td>SCI-FAP Time: 0.5 (P&gt;0.005)</td>
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<td>SCI-FAP Tasks: 0.4 - 0.6</td>
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No correlation between SCI-FAP change scores and 10 Metre Walk Test or 6 Minute Walk Test changes.

### 4. FLOOR/CEILING EFFECT

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<tr>
<th>Author ID</th>
<th>Floor/ceiling effect</th>
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### 5. INTERPRETABILITY

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<tr>
<th>Author ID</th>
<th>Interpretability</th>
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<tbody>
<tr>
<td>Musselman &amp; Yang 2014</td>
<td>Minimal Detectable Change at 95% CI:</td>
</tr>
<tr>
<td></td>
<td>SCI-FAP score: 95.7</td>
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<tr>
<td></td>
<td>SCI-FAP time: 114.2</td>
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