Spinal Cord Injury Secondary Conditions Scale (SCI-SCS)

**Assessment Overview**

**Assessment Area**

<table>
<thead>
<tr>
<th>ICF Domain:</th>
<th>Body Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subcategory:</strong></td>
<td>General Functions</td>
</tr>
</tbody>
</table>

**Summary**

The Spinal Cord Injury Secondary Conditions Scale (SCI-SCS) is a self-report questionnaire specifically targeting physiological secondary conditions associated with SCI that directly and indirectly impact health and physical functioning. The SCI-SCS covers skin, musculoskeletal, pain, bowel/bladder, sexual dysfunction, respiratory, and cardiovascular conditions.

**You Will Need**

- **Length:** 16 items
- **Scoring:** Items rated 0-3. Total score (0-48) is sum of items. Higher scores indicate greater problems with secondary conditions

**Availability**

http://www.scireproject.com/sites/default/files/worksheet_sci-scs.docx

**Languages:** English

**Assessment Interpretability**

<table>
<thead>
<tr>
<th>Minimal Clinically Important Difference</th>
<th>Statistical Error</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not established in SCI</td>
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<td>Proportion of sample reporting degree of problems with secondary conditions available in research summary. (Kalpakjia et al., 2007; N=65, 46 male, mixed injury types, Mean (SD) years since injury = 13.7 (11.0) years)</td>
</tr>
</tbody>
</table>
Measurement Properties

Validity – **Moderate** to **High**

- **Moderate** to **High** correlation with Short Form 12 (SF-12) Subscales:
  - Correlation = 0.317-0.644
  (Kalpakjia et al., 2007; N=65, 46 male, mixed injury types, Mean (SD) years since injury = 13.7 (11.0) years)

- **Number of studies reporting validity data:** 2

Reliability – **Moderate** to **High**

- **Moderate** to **High** Test-retest Reliability:
  - Correlation = 0.569-0.805
  (Intervals at 5 time points between baseline and 2-year follow-up; Kalpakjia et al., 2007; N=65, 46 male, mixed injury types, Mean (SD) years since injury = 13.7 (11.0) years)

- **ICC = 0.96**
  (4-6 day interval; Arora at al., 2015; N=40, 32 male, mixed injury types, median (IQR) time since injury: 28 (14-35) years)

- **Moderate** to **High** Internal Consistency:
  - Cronbach’s α = 0.761-0.869
  (Kalpakjia et al., 2007; N=65, 46 male, mixed injury types, Mean (SD) years since injury = 13.7 (11.0) years)

- **Number of studies reporting reliability data:** 2

Responsiveness

- **Floor/Ceiling Effect:**
  - Floor: Apparent in all 16 items (29.2%~89.2% at floor)
  - Ceiling: Apparent in 3 items:
    - Sexual Function (26.2%)
    - Chronic Pain (32.3%)
    - Joint & Muscle Pain (29.2%)
  (Kalpakjia et al., 2007; N=65, 46 male, mixed injury types, Mean (SD) years since injury = 13.7 (11.0) years)

- **Effect Size:**
  - Not established in SCI

- **Number of studies reporting responsiveness data:** 1