Appendix 3: SPCM Scoring Form
SEATED POSTURAL CONTROL MEASURE
January 1994

SUNNY HILL HEALTH CENTRE FOR CHILDREN
3644 Slocan Street, Vancouver, B.C. V5M 3E8

Name__________________________  Date of Assessment   ___    ___     ___ Alignment    _________     34         48

I.D. No_________________________  Date of Birth             ___    ___     ___    Function      _________     12         48

Diagnosis______________________   Chronological Age     ___    ___     ___    Rater Name _____________________________

Date of onset of problem__________   Referring physician____________________________________________

LEVEL OF SITTING SCALE  Check category below   (see Guidelines)

___ 1 unplaceable
___ 2 supported from head downward
___ 3 supported from shoulder or trunk downward
___ 4 supported at pelvis
___ 5 maintains position, does not move
___ 6 shifts trunk forward, re-erects
___ 7 shifts trunk laterally, re-erects
___ 8 shifts trunk backwards re-erects

COGNITIVE LEVEL
Understands most instructions ☐
Understands few instructions ☐

COOPERATION LEVEL
Cooperates fully ☐
Cooperates with prompting ☐
Uncooperative ☐

Description of Seating System used for this test:

Date last modified: _____/_____/_____    Is present fit adequate?    Yes ☐    No ☐

Type of system and general comment:
________________________________________________________________________________________________________
________________________________________________________________________________________________________

Indicate seating system in degrees:    Interface surface

_____ seat to back angle    _____ planar
_____ angle of seat back recline related to vertical plane (tilt in space)    _____ contour

Check seating system components which are present:

Pelvis:
_____ pelvic stabilizer
_____ ASIS pads
_____ pelvic bar
_____ pelvic belt
_____ safety belt
_____ lateral support

Trunk:
_____ lateral thoracic support
_____ lumbar support
_____ anterior trunk support
_____ at shoulder
_____ chest panel

Head and Neck
_____ circumferential head and neck support
_____ head support
_____ posterior
_____ anterior
_____ lateral
_____ posterior neck support

Thigh:
_____ medial support
_____ lateral support

Knees
_____ anterior support

Upper Limbs
_____ tray
_____ custom arm supports
_____ posterior blocks
_____ scapulae
_____ elbows
### Seated Postural Control Measure: Alignment Section

**Sunny Hill Health Centre for Children, Vancouver, B.C.**

**January, 1994**

Please circle selections. NB: Circle twice to score limb items.

#### Anterior View

<table>
<thead>
<tr>
<th>Score:</th>
<th>Descriptive</th>
<th>Numeric</th>
<th>Severe 1</th>
<th>Moderate 2</th>
<th>Mild 3</th>
<th>Normal 4</th>
<th>Mild 3</th>
<th>Moderate 2</th>
<th>Severe 1</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Pelvic Obliquity</td>
<td>Line joining ASIS's relative to horizontal</td>
<td>&gt;25*</td>
<td>15-24</td>
<td>5-14</td>
<td>0-4</td>
<td>5-14</td>
<td>15-24</td>
<td>&gt;25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Right Side High</td>
<td>Left Side High</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Trunk Lateral Shift</td>
<td>Line joining sternal notch to midpoint between ASIS's relative to vertical</td>
<td>&gt;25</td>
<td>15-24</td>
<td>5-14</td>
<td>0-4</td>
<td>5-14</td>
<td>15-24</td>
<td>&gt;25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Shift to Right</td>
<td>Shift to Left</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Shoulder Height</td>
<td>Line joining shoulders relative to horizontal</td>
<td>&gt;35</td>
<td>20-34</td>
<td>5-19</td>
<td>0-4</td>
<td>5-19</td>
<td>20-34</td>
<td>&gt;35</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Right Side High</td>
<td>Left Side High</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Head Lateral Tilt</td>
<td>Line joining outside corner of eyes relative to horizontal</td>
<td>&gt;35</td>
<td>20-34</td>
<td>5-19</td>
<td>0-4</td>
<td>5-19</td>
<td>20-34</td>
<td>&gt;35</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Right Lateral Tilt</td>
<td>Left Lateral Tilt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>R, L, B, L Hip Rotation</td>
<td>Angle of ilia relative to line joining ASIS's</td>
<td>&gt;35</td>
<td>R</td>
<td>L</td>
<td>20-34</td>
<td>R</td>
<td>L</td>
<td>5-19</td>
<td>0-4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Rotated to Right</td>
<td>Rotated to Left</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Right Lateral View

| 6.     | Pelvic Tilt | Line from PSIS along posterior pelvis to seat surface relative to vertical | >25* | 15-24 | 5-14 | 0-4 | 5-14 | 15-24 | >25 |
|        | Poster Tilt | Anterior Tilt |

#### Lumbar Curve

<table>
<thead>
<tr>
<th>L1 - L5</th>
<th>Flexed</th>
<th>Extended</th>
</tr>
</thead>
</table>

#### Thoracic Curve

<table>
<thead>
<tr>
<th>T1 - T12</th>
<th>Flexed</th>
<th>Extended</th>
</tr>
</thead>
</table>

#### Trunk Inclination

| Line joining posterior surface T1 and median of line joining PSIS's relative to vertical | >35 | 20-34 | 5-19 | 0-4 | 5-19 | 20-34 | >35 |
| Anterior Inclination | Posterior Inclination |

#### Head Ant/Post Tilt

| Line joining corner of eye to tragus relative to horizontal | >16** | 1-15** | 14-0** | 15-24 | 25-39 | 40-54 | >55 |
| Anterior Tilt | Posterior Tilt |

* Degrees of angulation

** See note in Guidelines

**Score:** Page 2
<table>
<thead>
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<th>Score:</th>
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<th>Severe 1</th>
<th>Score</th>
</tr>
</thead>
</table>
| **RIGHT & LEFT LATERAL VIEWS**
12. R, 13. L
HIP FLEX/EXT
Angle relative to 90° flexion
| | | | | | | | | | |
| 14. R, 15. L
KNEE FLEX/EXT
Angle relative to 90° flexion
| | | | | | | | | |
| 16. R, 17. L
ANKLE DORSI/PL FLEXION
Angle relative to 0 degrees
| | | | | | | | | |
| **SUPERIOR VIEW**
18. PELVIC ROTATION
Line joining ASIS's relative to plane of the seat back
| | | | | | | | | |
| 19. UPPER TRUNK ROTATION
Line joining shoulders relative to frontal plane of pelvis
| | | | | | | | | |
| 20. HEAD ROTATION
Line joining ears relative to frontal plane of upper trunk
| | | | | | | | | |
| 21. R, 22. L
HIP ADD/ABDUCTION
Angle of femur in relation to line joining ASIS's
| | | | | | | | | |

- Degrees of angulation

SCORE: Page 3

Enter total Alignment Section Score on Page 1
Appendix 3: SPCM Scoring Form (cont’d)

SEATED POSTURAL CONTROL MEASURE
Sunny Hill Health Centre for Children, Vancouver, B.C

FUNCTION SECTION

Circle score for each item.

Administer items 1 & 2 simultaneously, score separately.

1. **Lifts head upright and maintains 5 sec**

If child’s head is not flexed forward prior to test, instruct or assist child to do so. Upright position of the head is defined as that position where central gaze is directed along the horizontal plane (+/- 15° in sagittal plane).

1. does not initiate head lift
2. initiates a head lift
3. lifts head, does not attain upright, but holds for 5 sec
4. lifts head upright and maintains for 5 sec

2. **Lifts head upright, in midline and maintains for 10 sec**

If child’s head is not flexed forward prior to test, instruct or assist child to do so. Midline position of the head is defined as that position where central gaze is directed along the horizontal plane (+/- 5° in coronal plane).

1. does not initiate head lift
2. initiates head lift but does not attain midline
3. attains midline but maintains for less than 10 seconds
4. lifts head to midline and maintains for 10 seconds

3. **Leans forward, touches toy with preferred wrist or hand, re-erects**

Place board 6” from child’s stomach. Small toy placed on board at child’s midline at a distance 1 arm length.

1. does not lean forward and re-erect
2. leans forward but does not touch toy
3. leans forward, touches toy, but does not re-erect
4. leans forward, touches toy, re-erects

4. **Leans forward and to right or left, touches toy with OPPOSITE hand, re-erects**

The intent of this item is to obtain trunk rotation; either hand may be used. Small toy placed on board in front of child on the side opposite to the reaching hand. Place toy 1 arm length of the reaching arm along the layout guide marker line, which runs 60 degrees from trunk midline.

1. does not move trunk
2. lean towards toy but does not touch it
3. leans towards and touches toy with hand, does not re-erect
4. leans towards and touches toy with hand, re-erects

5. **Lifts both upper limbs free of support**

1. does not lift either upper limb off support
2. lifts RIGHT or LEFT upper limb off support for less than 3 sec
3. lifts one upper limb off support for 3 sec
4. lifts both upper limbs off support for 3 sec
6. Reaches forward, grasps and releases toy with preferred hand

Small toy placed on board an “arm length” anterior to the trunk midline.

1. does not touch toy
2. touches toy with palm or fingers
3. grasps toy and lifts it off board for 3 sec
4. releases toy into large container set down in a convenient place

Administer items 7 & 8 simultaneously, score separately.

7. Removes and replaces lid of screw-type jar

Jar placed on board anterior to child’s midline at any location which accommodates child’s attempts to grasp jar.

1. does not touch jar
2. places one or both hands on jar
3. unscrews and removes jar lid
4. replaces jar lid and screws it closed

8. Picks up raisin (or cheerio), places into mouth with preferred hand

Raisin placed on board at any location which accommodates child’s attempts to pick up raisin.

1. does not touch raisin
2. touches raisin with tips of fingers and/or thumb
3. picks up raisin and holds for 3 sec
4. releases raisin into mouth

9. Picks up pen makes mark on paper

Pen and 8 1/2” x 11” sheet of paper placed midline on board, pen tip pointing towards child.

1. does not grasp pen
2. grasp pen with one or both hands
3. grasp and lifts hand and/or pen clear of surface
4. marks paper with pen

10. Places dice in jar, one at a time, with preferred hand, in 30 sec

Place one die and jar on board as indicated by paper guide immediately in front of child. Request child to place dice into jar, one at a time, using one hand, as fast as possible. Assessor to place next dice on paper guide while child is placing previous dice in jar. (Do not hinder child’s performance).

1. does not place any dice in jar
2. places 1 die
3. places 2 to 5 dice
4. places 6 dice
Appendix 3: SPCM Scoring Form (cont’d)

11. **Moves his/her wheelchair forward 45’ in less than 20 sec**

Allow one practice trial to ensure child understands task

1. unable to move wheelchair forward
2. moves wheelchair forward 10’ in less than 60 sec
3. moves wheelchair forward 45’ in less than 60 sec
4. moves wheelchair forward 45’ in less than 20 sec

12. **Moves his/her wheelchair forward 19’ along a 8’ wide corridor, turns right or left 90 degrees and passes through 33’ doorway**

Allow one practice trial to ensure child understands the task. Maximum of 60 seconds allowed for completion of the task

1. does not move wheelchair forward 10’ without bumping into walls
2. moves wheelchair forward 10’, but does not initiate a turn
3. moves wheelchair forward 10’, turns and passes through doorway, with wall contact
4. moves wheelchair forward 10’, turns and passes freely through doorway

**TOTAL SCORE FUNCTION__________ (Max = 48)**

Enter score on page 1