SCAT 2
Sport Concussion Assessment Tool

NAME: __________________________________________
SPORT: _________________________________________
DATE/TIME OF INJURY: __________________________
DATE/TIME OF ASSESSMENT: _____________________
AGE: __________________ GENDER: M F
GRADE _____________   SCHOOL ______________
EXAMINER: _____________________________________

PHYSICAL SIGNS SCORE
Was there loss of consciousness/unresponsiveness? Y N
If yes, how many minutes: ______________________
Was there a balance problem/unsteadiness? Y N
Physical signs score (1 pt. for each negative) ______ of 2

GLASGOW COMA SCALE (GCS)
Best eye response (E)
No eye opening __________________________ 1
Eyes opening in response to pain _____________ 2
Eyes opening to speech ____________________ 3
Eyes opening spontaneously__________________ 4
Best verbal response (V)
No verbal response _______________________ 1
Incomprehensible sounds __________________ 2
Inappropriate words _______________________ 3
Confused _______________________________ 4
Oriented ________________________________ 5
Best motor response (M)
No motor response _______________________ 1
Extension to pain ________________________ 2
Abnormal flexion to pain __________________ 3
Flexion/withdrawal to pain ________________ 4
Localizes to pain _________________________ 5
Obey commands _________________________ 6
Glasgow Coma score (E +V + M) _________ of 15
GCS should be recorded for all athletes in case of subsequent deterioration.

Sideline Assessment – Maddocks Score
Modified Maddocks questions (1 pt. for each correct)
At what venue are we at today? 0 1
Which half is it now? 0 1
Who scored last? 0 1
What team did you play last? 0 1
Did you win your last game? 0 1
Maddocks score: ______ of 5
Maddocks score is validated for sideline diagnosis of concussion only and is not included in the summary score for serial testing.

Coordination Exam
Upper Limb Coordination – Finger-to-nose task:
Which arm was tested: right left
Scoring: 5 correct repetitions in < 4 sec. = 1
Coordination score: __________ of 1
Must fully touch nose and fully extend elbow after touching nose.

The SCAT 2 Symptom Evaluation
How do you feel? You should score yourself on the following symptoms, based on how you feel now.

<table>
<thead>
<tr>
<th>None</th>
<th>Moderate</th>
<th>Severe</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1 2 3 4 5 6</td>
<td></td>
</tr>
</tbody>
</table>

Headache 0 1 2 3 4 5 6
“Pressure in head” 0 1 2 3 4 5 6
Neck Pain 0 1 2 3 4 5 6
Nausea or vomiting 0 1 2 3 4 5 6
Dizziness 0 1 2 3 4 5 6
Blurred Vision 0 1 2 3 4 5 6
Balance problems 0 1 2 3 4 5 6
Sensitivity to light 0 1 2 3 4 5 6
Sensitivity to noise 0 1 2 3 4 5 6
Feeling slowed down 0 1 2 3 4 5 6
Feeling like “in a fog” 0 1 2 3 4 5 6
“Don’t feel right” 0 1 2 3 4 5 6
Difficulty concentrating 0 1 2 3 4 5 6
Difficulty remembering 0 1 2 3 4 5 6
Fatigue or low energy 0 1 2 3 4 5 6
Confusion 0 1 2 3 4 5 6
Drowsiness 0 1 2 3 4 5 6
Trouble falling asleep 0 1 2 3 4 5 6
More emotional than usual 0 1 2 3 4 5 6
Irritability 0 1 2 3 4 5 6
Sadness 0 1 2 3 4 5 6
Nervous or Anxious 0 1 2 3 4 5 6

Total number of symptoms (Maximum possible 22) ______

Symptom SCORE
22 minus positive symptoms: ________ of 22

Symptom Severity Score
(Sum of all scores. Max possible 22x6=132) ______
Do the symptoms get worse with physical activity □ y □ n
Do the symptoms get worse with mental activity □ y □ n

Overall rating
If you know the athlete well prior to injury, how different is the athlete acting compared to his/her usual self? Please check one response
□ No different □ very different □ unsure

Cognitive Assessment
Standardized Assessment of Concussion (SAC)
Orientation (1 pt. for each correct)

- What month is it?  0 1
- What is today’s date?  0 1
- What day of the week is it?  0 1
- What year is it?  0 1
- What time is it right now? (within 1 hr.)  0 1

Orientation score ______ of 5

Immediate Memory (1 pt. for each correct)

<table>
<thead>
<tr>
<th>List</th>
<th>Trial 1</th>
<th>Trial 2</th>
<th>Trial 3</th>
<th>Alternative Words</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elbow</td>
<td>Y N Y N Y N</td>
<td>candle baby finger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apple</td>
<td>Y N Y N Y N</td>
<td>paper monkey penny</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carpet</td>
<td>Y N Y N Y N</td>
<td>sugar perfume blanket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saddle</td>
<td>Y N Y N Y N</td>
<td>table sunset lemon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bubble</td>
<td>Y N Y N Y N</td>
<td>wagon iron insect</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Circle all words used. The athlete should repeat words in order. Complete all 3 trials regardless of score on trial 1 & 2. Do not inform the athlete that delayed recall will be tested. Total score equals sum across all 3 trials).

Immediate memory score ______ of 15

Concentration
Digits Backwards (1 pt. possible for each string length)  Alternative digit list

- 4-9-3  Y N  6-2-9  5-2-6  4-1-5
- 3-8-1-4 Y N  3-2-7-9  1-7-9-5  4-9-6-8
- 6-2-9-7-1 Y N  1-5-2-8-6  3-8-5-2-7  6-1-8-4-3
- 7-1-8-4-6-2 Y N  5-3-9-1-4-8  8-3-1-9-6-4  7-2-4-8-5-6

Months in Reverse Order (1 pt. for entire sequence correct)


Concentration score ______ of 5

Balance Examination
Modified BESS Test
Non-dominant foot: Right  Left

- Double-leg Stance (20 seconds) ______ of 10
- Single-leg Stance (20 seconds) ______ of 10
- Tandem Stance (20 seconds) ______ of 10

(Non-dominant foot in back)

Trials are scored by counting all errors or deviations from the proper stance during the three 20 second intervals.

Types of errors include:
- Hands off iliac crest
- Opening eyes
- Step, stumble or fall
- Moving hip into >30 degrees abduction
- Remaining out of testing position >5 seconds

Balance exam score (30-total errors) ______ of 30

Cognitive Assessment
Standardized Assessment of Concussion (SAC)
Delayed Recall
Ask athlete to recall the list of words read earlier in any order.

| Elbow   | candle baby finger |
| Apple   | paper monkey penny |
| Carpet  | sugar perfume blanket |
| Saddle  | table sunset lemon |
| Bubble  | wagon iron insect |

Delayed recall score ______ of 5

Overall Score

<table>
<thead>
<tr>
<th>Test Domain</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptom score</td>
<td>______ of 22</td>
</tr>
<tr>
<td>Physical signs score</td>
<td>______ of 2</td>
</tr>
<tr>
<td>Glasgow coma score (E +V+M)</td>
<td>______ of 15</td>
</tr>
<tr>
<td>Coordination score</td>
<td>______ of 1</td>
</tr>
<tr>
<td>Balance score</td>
<td>______ of 30</td>
</tr>
</tbody>
</table>

Subtotal ______ of 70

| Orientation score (SAC) | ______ of 5 |
| Immediate memory score (SAC) | ______ of 15 |
| Concentration score (SAC) | ______ of 5 |
| Delayed recall score (SAC) | ______ of 5 |

SAC subtotal ______ of 30

SCAT 2 total ______ of 100

Maddocks total ______ of 5

Scoring data from the SCAT2 or SAC should not be used as a stand alone method to diagnose concussion, measure recovery, or make return to play decisions.