

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
 Obeys commands _____ 6

Glasgow Coma score (E + V + M) _____ of 15
 GCS should be recorded for all athletes in case of subsequent deterioration.

The SCAT 2 Symptom Evaluation

How do you feel? You should score yourself on the following symptoms, based on how you feel now.

	None	Moderate	Severe
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

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.

SCAT 2

Sport Concussion Assessment Tool

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)

List	Trial 1		Trial 2		Trial 3		Alternative Words		
Elbow	Y	N	Y	N	Y	N	candle	baby	finger
Apple	Y	N	Y	N	Y	N	paper	monkey	penny
Carpet	Y	N	Y	N	Y	N	sugar	perfume	blanket
Saddle	Y	N	Y	N	Y	N	table	sunset	lemon
Bubble	Y	N	Y	N	Y	N	wagon	iron	insect

(Circle all words used. The athlete should repeat words in order. Complete all 3 trials regardless of score on trail 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)

Dec-Nov-Oct-Sept-Aug-Jul-Jun-May-Apr-Mar-Feb-Jan Y N

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
<small>(Non-dominant foot in back)</small>	

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

Test Domain	Score
Symptom score	_____ of 22
Physical signs score	_____ of 2
Glasgow coma score (E +V+M)	_____ of 15
Coordination score	_____ of 1
Balance score	_____ of 30
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