SCAT6[™]



Sport Concussion Assessment Tool For Adolescents (13 years +) & Adults

What is the SCAT6?

The SCAT6 is a standardised tool for evaluating concussions designed for use by Health Care Professionals (HCPs). The SCAT6 cannot be performed correctly in less than 10-15 minutes. Except for the symptoms scale, the SCAT6 is intended to be used in the acute phase, ideally within 72 hours (3 days), and up to 7 days, following injury. If greater than 7 days post-injury, consider using the SCOAT6/Child SCOAT6.

The SCAT6 is used for evaluating athletes aged 13 years and older. For children aged 12 years or younger, please use the Child SCAT6.

If you are not an HCP, please use the Concussion Recognition Tool 6 (CRT6).

Preseason baseline testing with the SCAT6 can be helpful for interpreting post-injury test scores but is not required for that purpose. Detailed instructions for use of the SCAT6 are provided as a supplement. Please read through these instructions carefully before testing the athlete. Brief verbal instructions for each test are given in *blue italics*. The only equipment required for the examiner is athletic tape and a watch or timer.

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Recognise and Remove

A head impact by either a direct blow or indirect transmission of force to the head can be associated with serious and potentially fatal consequences. If there are significant concerns, which may include any of the Red Flags listed in Box 1, the athlete requires urgent medical attention, and if a qualified medical practitioner is not available for immediate assessment, then activation of emergency procedures and urgent transport to the nearest hospital or medical facility should be arranged.

Completion Guide

Orange: Optional part of assessment

Key Points

- Any athlete with suspected concussion should be REMOVED FROM PLAY, medically assessed, and monitored for injuryrelated signs and symptoms, including deterioration of their clinical condition.
- No athlete diagnosed with concussion should return to play on the day of injury.
- If an athlete is suspected of having a concussion and medical personnel are not immediately available, the athlete should be referred (or transported if needed) to a medical facility for assessment.
- Athletes with suspected or diagnosed concussion should not take medications such as aspirin or other anti-inflammatories, sedatives or opiates, drink alcohol or use recreational drugs and should not drive a motor vehicle until cleared to do so by a medical professional.
- Concussion signs and symptoms may evolve over time; it is important to monitor the athlete for ongoing, worsening, or the development of additional concussion-related symptoms.
- The diagnosis of concussion is a clinical determination made by an HCP.
- The SCAT6 should NOT be used by itself to make, or exclude, the diagnosis of concussion. It is important to note that an athlete may have a concussion even if their SCAT6 assessment is within normal limits.

Remember

- The basic principles of first aid should be followed: assess danger at the scene, athlete responsiveness, airway, breathing, and circulation.
- Do not attempt to move an unconscious/unresponsive athlete (other than what is required for airway management) unless trained to do so.
- Assessment for a spinal and/or spinal cord injury is a critical part of the initial on-field evaluation. Do not attempt to assess the spine unless trained to do so.
- Do not remove a helmet or any other equipment unless trained to do so safely.





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SCACION Spot Concussion Assessment Tool Addiescents (13 years +) & Adults	Sport Concussion Assessment Tool 6 - S(CAT6™		Θ
Date of Birth: Date of Examination: Date of Injury: Time of Injury: Sex: Male Female Prefer Not To Say Other Dominant Hand: Left Right Ambidextrous Sport/Team/School: Image: Current Year in School (if applicable): Years of Education Completed (Total): First Language: Examine: Examiner: Preferred Language: Examine: Examine: Concussion History Men was the most recent concussion?: Primary Symptoms: How long was the recovery (time to being cleared to play) from the most recent concussion?: (Days) Immediate Assessment/Neuro Screen (Not Required at Baseline) The following elements should be used in the evaluation of all athetes who are suspected of having a concussion prior to proceeding the costicular ease completed. Tary of the observable signs of concussion are noted after a direct or indirect blow to the head, the athete should be completed 'on-field' after the first ad/emergency care provide. The Glasgow Come Scale is important as a standard measure for all patients and can be repeated over time to monitor deterioration consociouseness. The Maddock augestore and cervical spine exam are also critical spine stand. Weinweid the Middical Control FED FLAGS Posting and the immediate assessment. VFES Posting affectered or affect or indirect blow to the immediate assess				\bigcirc
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NO VES Coordination or Ocular/				
		and Cervical Col		
Motor Screen Abnormality?			YES Motor Scre	
Memory/Maddocks				¥
YES Questions Score <5?				ons Score <5?
Remove from Play for Immediate Medical				¥

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Administration

Assessment or Transport

to Hospital/Medical Centre

Step 1: Observable Signs

Witnessed Observed on Video		
Lying motionless on playing surface	Y	N
Falling unprotected to the surface	Y	N
Balance/gait difficulties, motor incoordination, ataxia: stumbling, slow/ laboured movements	Y	N
Disorientation or confusion, staring or limited responsiveness, or an inability to respond appropriately to questions	Y	N
Blank or vacant look	Y	N
Facial injury after head trauma	Y	N
Impact seizure	Y	N
High-risk mechanism of injury (sport- dependent)	Y	N

Step 2: Glasgow Coma Scale

Typically, GCS is assessed once. Additional scoring columns are provided for monitoring over time, if needed.

Time of Assessment:

Date of Assessment:

Best Eye Response (E)			
No eye opening	1	1	1
Eye opening to pain	2	2	2
Eye opening to speech	3	3	3
Eyes opening spontaneously	4	4	4
Best Verbal Response (V)			
No verbal response	1	1	1
No verbal response	'	'	
Incomprehensible sounds	2	2	2
Inappropriate words	3	3	3
Confused	4	4	4
Oriented	5	5	5
Best Motor Response (V)			
No motor response	1	1	1
Extension to pain	2	2	2
Abnormal flexion to pain	3	3	3
Flexion/withdrawal to pain	4	4	4
Localized to pain	5	5	5
Obeys commands	6	6	6
Glasgow Coma Score (E + V + M)			

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Box 1: Red Flags

- Neck pain or tenderness
- Seizure or convulsion
- Double vision
- Loss of consciousness Weakness or tingling/burning in more than 1

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- arm or in the legs
- Deteriorating conscious state
- Vomiting

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- Severe or increasing headache
- Increasingly restless, agitated or combative
 GCS <15
- Visible deformity of the skull

Step 3: Cervical Spine Assessment

In a patient who is not lucid or fully conscious, a cervical spine injury should be assumed and spinal precautions taken.

Does the athlete report neck pain at rest?	Y	Ν
Is there tenderness to palpation?	Y	Ν
If NO neck pain and NO tenderness, does the athlete have a full range of ACTIVE pain free movement?	Y	N
Are limb strength and sensation normal?	Y	Ν

Step 4: Coordination & Ocular/Motor Screen

Coordination: Is finger-to-nose normal for both hands with eyes open and closed?	Y	N
Ocular/Motor: Without moving their head or neck, can the patient look side-to-side and up-and-down without double vision?	Y	N
Are observed extraocular eye movements normal? If not, describe:	Y	N

Step 5: Memory Assessment Maddocks Questions¹

Say "I am going to ask you a few questions, please listen carefully and give your best effort. First, tell me what happened?"

Modified Maddocks questions (Modified appropriately for each sport; 1 point for each correct answer)

What venue are we at today?	0	1						
Which half is it now?	0	1						
Who scored last in this match?	0	1						
What team did you play last week/game?	0	1						
Did your team win the last game?	0	1						
Maddocks Score		/5						
Note: Appropriate sport-specific questions may be substituted								

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Off-Field Assessment

Please note that the cognitive assessment should be done in a distraction-free environment with the athlete in a resting state after completion of the Immediate Assessment/Neuro Screen.

Step 1: Athlete Background					
Has the athlete ever been:					
Hospitalised for head injury? (If yes, describe below)	Y	N	Diagnosed with attention deficit hyperactivity disorder (ADHD)?	Y	Ν
Diagnosed/treated for headache disorder or migraine?	Y	N	Diagnosed with depression, anxiety, or other psychological disorder?	Y	Ν
Diagnosed with a learning disability/dyslexia?	Y	Ν			
Notes:			Current medications? If yes, please list:		

Step 2: Symptom Evaluation

Baseline:

Suspected/Post-injury: Time

Time elapsed since suspected injury:

The athlete will complete the symptom scale (below) after you provide instructions. Please note that the instructions are different for baseline versus suspected/post-injury evaluations.

Baseline: Say "Please rate your symptoms below based on how you <u>typically</u> feel with "1" representing a very mild symptom and "6" representing a severe symptom."

Suspected/Post-injury: Say "Please rate your symptoms below based on how you feel now with "1" representing a very mild symptom and "6" representing a severe symptom."

PLEASE HAND THE FORM TO THE ATHLETE

Symptom			R	latiı	ng		
Headaches	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
More emotional	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
Trouble falling asleep (if applicable)	0	1	2	3	4	5	6
Р	LE	ASI	ЕН	AN	רם	THE	FC
Dnce the athlete has completed answering nore detail about each symptom.							

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mins/hours/days

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Step 3: Cognitive Screening (Based on Standardized Assessment of Concussion; SAC)²

Orientation		
What month is it?	0	1
What is the date today?	0	1
What is the day of the week?	0	1
What year is it?	0	1
What time is it right now? (within 1 hour)	0	1
Orientation Score		of 5

Immediate Memory

All 3 trials must be administered irrespective of the number correct on Trial 1. Administer at the rate of one word per second. Trial 1: Say "I am going to test your memory. I will read you a list of words and when I am done, repeat back as many words as you can remember, in any order."

Trials 2 and 3: Say "I am going to repeat the same list. Repeat back as many words as you can remember in any order, even if you said the word before in a previous trial."

Word list used: A B		с					Alternate	e Lists
List A	Tria	al 1	Tria	al 2	Tria	al 3	List B	List C
Jacket	0	1	0	1	0	1	Finger	Baby
Arrow	0	1	0	1	0	1	Penny	Monkey
Pepper	0	1	0	1	0	1	Blanket	Perfume
Cotton	0	1	0	1	0	1	Lemon	Sunset
Movie	0	1	0	1	0	1	Insect	Iron
Dollar	0	1	0	1	0	1	Candle	Elbow
Honey	0	1	0	1	0	1	Paper	Apple
Mirror	0	1	0	1	0	1	Sugar	Carpet
Saddle	0	1	0	1	0	1	Sandwich	Saddle
Anchor	0	1	0	1	0	1	Wagon	Bubble
Trial Total								
Immediate Memory Score			of	30	Ti	me La	st Trial Completed:	

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Step 3: Cognitive Screening (Continued)

Concentration

Digits Backward:

Administer at the rate of one digit per second reading DOWN the selected column. If a string is completed correctly, move on to the string with next higher number of digits; if the string is completed incorrectly, use the alternate string with the same number of digits; if this is failed again, end the test.

Say "I'm going to read a string of numbers and when I am done, you repeat them back to me in reverse order of how I read them to you. For example, if I say 7-1-9, you would say 9-1-7. So, if I said 9-6-8 you would say? (8-6-9)"

Digit list used: A	В С							
List A	List B	List C						
4-9-3	5-2-6	1-4-2	Y	N	0	1		
6-2-9	4-1-5	6-5-8	Y	N	U	1		
3-8-1-4	1-7-9-5	6-8-3-1	Y	Ν	0	1		
3-2-7-9	4-9-6-8	3-4-8-1	Y	N	U	1		
6-2-9-7-1	4-8-5-2-7	4-9-1-5-3	Y	Ν	0	1		
1-5-2-8-6	6-1-8-4-3	6-8-2-5-1	Y	N	U	1		
7-1-8-4-6-2	8-3-1-9-6-4	3-7-6-5-1-9	Y	N	0	1		
5-3-9-1-4-8	7-2-4-8-5-6	9-2-6-5-1-4	Y	Ν	U	1		
			Digits Scor	e		of 4		
month and go backward. So, you'll say December, November go ahead" Start stopwatch and CIRCLE each correct response: December November October September August July June May April March February January Time Taken to Complete (secs): Number of Errors: 1 point if no errors and completion under 30 seconds Months Score: of 1 Concentration Score (Digits + Months) of 5								
Step 4: Coordination and Balance Examination Modified Balance Error Scoring System (mBESS) ³ testing (see detailed administration instructions) Foot Tested: Left Right (i.e. test the non-dominant foot) Testing Surface (hard floor, field, etc.): Image: Coordination on the structure of t								
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Step 4: Coordination and Balance Examination (Continued)						
Modified BESS	(20 seconds each)	On Foam (Optional)				
Double Leg Stance:	of 10	Double Leg Stance:	of 10			
Tandem Stance:	of 10	Tandem Stance:	of 10			
Single Leg Stance:	of 10	Single Leg Stance:	of 10			
Total Errors:	of 30	Total Errors:	of 30			

Note: If the mBESS yields normal findings then proceed to the Tandem Gait/Dual Task Tandem Gait.

If the mBESS reveals abnormal findings or clinically significant difficulties, Tandem Gait is not necessary at this time.

Both the Tandem Gait and optional Dual Task component may be administered later in the office setting as needed (see SCOAT6).

Timed Tandem Gait

Place a 3-metre-long line on the floor/firm surface with athletic tape. The task should be timed. Please complete all 3 trials.

Say "Please walk heel-to-toe quickly to the end of the tape, turn around and come back as fast as you can without separating your feet or stepping off the line."

Single Task:

Tria	11	Trial 0				Trial 3				Average 2 Triels				Facto	ot Triel		
IIIa		Trial 2							Average 3 Trials			Fastest Trial					
ual Tas	k Gai	t (Op	otiona	al. Ti	med	Tand	lem (Gait r	nust	be c	omp	leted	l first)			
ace a 3-m	etre-lon	g line	on the i	floor/fir	rm surf	ace wi	th athle	etic tap	e. The	task sl	nould b	e time	d.				
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ial Task P Task	ractice		e corre	ct resp	onses	; record	a numa	per of s	ubtrac		unting	errors.		Err	ors	Tim	•
Practice	93		86		79	72	2	65		58	51	1	44				
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mber to s	start wi	ith is 8	8. Go!	"												ready? Time cle faste	
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umber to s ual Task C Task Trial 1	start wi	ith is 8 ve Peri 81	8. Go! formar 74	" nce: Ci 67	ircle co 60	orrect re 53	espons 46	es; rec 39	ord nu	mber o	of subtr 18	action 11	countir 4	ng errors.		Time	
unber to s ual Task C Task Trial 1 Trial 2 Trial 3	start wi cognitiv 88 90 98	ith is 8 ve Peri 81 83 91	8. Go! formar 74 76 84	" nce: Ci 67 69 77	60 62 70	53 55 63	46 48 56	es; rec 39 41 49	32 34 42	mber o 25 27 35	of subtr 18 20 28	action 11 13	countir 4 6	ng errors.		Time	
Trial 1 Trial 2	start wi cognitiv 88 90 98	ith is 8 ve Peri 81 83 91	8. Go! formar 74 76 84	" nce: Ci 67 69 77	60 62 70	53 55 63	46 48 56	es; rec 39 41 49	32 34 42	mber o 25 27 35	of subtr 18 20 28	action 11 13	countir 4 6	ng errors.		Time	

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Step 4: Coordination and Balance Examination (Continued)

Were any single- or dual-task, timed tandem gait trials not completed due to walking errors or other reasons?

Yes		No		
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If yes, please explain why:

Step 5: Delayed Recall

The Delayed Recall should be performed after at least 5 minutes have elapsed since the end of the Immediate Memory section: Score 1 point for each correct response.

Say "Do you remember that list of words I read a few times earlier? Tell me as many words from the list as you can remember in any order."

Time started:

Word list used: A B	c	Alternate Lists			
List A	Score	List B	List C		
Jacket	0 1	Finger	Baby		
Arrow	0 1	Penny	Monkey		
Pepper	0 1	Blanket	Perfume		
Cotton	0 1	Lemon	Sunset		
Movie	0 1	Insect	Iron		
Dollar	0 1	Candle	Elbow		
Honey	0 1	Paper	Apple		
Mirror	0 1	Sugar	Carpet		
Saddle	0 1	Sandwich	Saddle		
Anchor	0 1	Wagon	Bubble		
Delayed Recall Score	of 10				

Total Cognitive Score

Orientation:	of 5
Immediate Memory:	of 30
Concentration:	of 5
Delayed Recall:	of 10
Total:	of 50

If the athlete was known to you prior to their injury, are they different from their usual self?

Yes No

Not applicable (I

(If different, describe why In the <u>clinical notes</u> section)

Step 6: Decision							
Domain	Date:	Date:	Date:				
Neurological Exam (Acute Injury evaluation only)	Normal/Abnormal	Normal/Abnormal	Normal/Abnormal				
Symptom number (of 22)							
Symptom Severity (of 132)							
Orientation (of 5)							
Immediate Memory (of 30)							
Concentration (of 5)							
Delayed Recall (of 10)							
Cognitive Total Score (of 50)							
mBESS Total Errors (of 30)							
Tandem Gait fastest time							
Dual Task fastest time							
Disposition							
Concussion diagnosed?							
Yes No Deferred							
Health Care Professional Attestation							
I am an HCP and I have personally administered or supervised the administration of this SCAT6. Name:							
Signature:	Т	tle/Speciality:					
Registration/License number (if applica	ble):		Date:				

Additional Clinical Notes

Note: Scoring on the SCAT6 should not be used as a stand-alone method to diagnose concussion, measure recovery, or make decisions	
about an athlete's readiness to return to sport after concussion. Remember: An athlete can score within normal limits on the SCAT6 and	
still have a concussion.	