# Child-SCAT3™ FIFA® 2 000 @ FEI











## Sport Concussion Assessment Tool for children ages 5 to 12 years

For use by medical professionals only

#### What is childSCAT3?1

The ChildSCAT3 is a standardized tool for evaluating injured children for concussion and can be used in children aged from 5 to 12 years. It supersedes the original SCAT and the SCAT2 published in 2005 and 2009, respectively? For older persons, ages 13 years and over, please use the SCAT3. The ChildSCAT3 is designed for use by medical professionals. If you are not qualified, please use the Sport Concussion Recognition Tool'. Preseason baseline testing with the ChildSCAT3 can be helpful for interpreting post-injury test scores.

Specific instructions for use of the ChildSCAT3 are provided on page 3. If you are not familiar with the ChildSCAT3, please read through these instructions carefully. This tool may be freely copied in its current form for distribution to individuals, teams, groups and organizations. Any revision and any reproduction in a digital form require approval by the Concussion in Sport Group.

NOTE: The diagnosis of a concussion is a clinical judgment, ideally made by a medical professional. The ChildSCAT3 should not be used solely to make, or exclude, the diagnosis of concussion in the absence of clinical judgement. An athlete may have a concussion even if their ChildSCAT3 is "normal".

#### What is a concussion?

A concussion is a disturbance in brain function caused by a direct or indirect force to the head. It results in a variety of non-specific signs and/or symptoms (like those listed below) and most often does not involve loss of consciousness. Concussion should be suspected in the presence of any one or more of the following:

- -Symptoms (e.g., headache), or
- -Physical signs (e.g., unsteadiness), or
- -Impaired brain function (e.g. confusion) or
- -Abnormal behaviour (e.g., change in personality)

### SIDELINE ASSESSMENT

#### Indications for Emergency Management

NOTE: A hit to the head can sometimes be associated with a more severe brain injury. If the concussed child displays any of the following, then do not proceed with the ChildSCAT3; instead activate emergency procedures and urgent transportation to the nearest hospital:

- Glasgow Coma score less than 15
- Deteriorating mental status
- Potential spinal injury
- Progressive, worsening symptoms or new neurologic signs
- Persistent vomiting
- Evidence of skull fracture
- Post traumatic seizures
- Coagulopathy
- History of Neurosurgery (eg Shunt)
- Multiple injuries

#### Glasgow coma scale (GCS) Best eye response (E) No eve opening Eve opening in response to pain Eye opening to speech Eyes opening spontaneously Best verbal response (V) No verbal response Incomprehensible sounds Inappropriate words Confused Oriented Best motor response (M) No motor response Extension to pain Abnormal flexion to pain Flexion/Withdrawal to pain Localizes to pain Obevs commands Glasgow Coma score (E + V + M) GCS should be recorded for all athletes in case of subsequent deterioration

#### Potential signs of concussion?

If any of the following signs are observed after a direct or indirect blow to the head, the child should stop participation, be evaluated by a medical professional and should not be permitted to return to sport the same day if a concussion is suspected.

Any loss of consciousness?	Y	N
"If so, how long?"		
Balance or motor incoordination (stumbles, slow/laboured movements, etc.)?	Y	N
Disorientation or confusion (inability to respond appropriately to questions)?	Y	N
Loss of memory:	Y	N
"If so, how long?"		
"Before or after the injury?"		
Blank or vacant look:	Y	N
Visible facial injury in combination with any of the above:	Y	N

Sideline Assessment — child-M "I am going to ask you a few questions, please listen care Modified Maddocks questions (1 point for each correct answe	fully and give your best	
Where are we at now?	0	1
Is it before or after lunch?	0	1
What did you have last lesson/class?	0	1
What is your teacher's name?	0	1
child-Maddocks score		of 4

Any child with a suspected concussion should be REMOVED FROM PLAY, medically assessed and monitored for deterioration (i.e., should not be left alone). No child diagnosed with concussion should be returned to sports participation on the day of Injury.

## \*BACKGROUND

Name:	Date/Time of Ir	njury:
Examiner:	_ Date of Assessr	nent:
Sport/team/school:		
Age:	Gender:	M
Current school year/grade:		
Dominant hand:	right	left neither
Mechanism of Injury ("tellmewhathappened"?):		
For Parent/carer to complete:		
How many concussions has the child had in t	he past?	
When was the most recent concussion?		
How long was the recovery from the most re	cent concussion?	
Has the child ever been hospitalized or had n done (CT or MRI) for a head injury?	nedical imaging	Y N
Has the child ever been diagnosed with head	laches or migraines	? Y N
Does the child have a learning disability, dysl ADD/ADHD, seizure disorder?	exia,	Y N
Has the child ever been diagnosed with depr anxiety or other psychiatric disorder?	ession,	Y
Has anyone in the family ever been diagnose any of these problems?	d with	Y N
Is the child on any medications? If yes, please	list.	WY WA

## \* SYMPTOM EVALUATION

## PHYSICIAN WILL COMPLETE COGNITIVE & PHYSICAL EVALUATION

Name:	never	rarely	sometimes	ofter
I have trouble paying attention	0	1	2	3
I get distracted easily	0	1	2	3
I have a hard time concentrating	0	1	2	3
I have problems remembering what people tell me	0	1	2	3
I have problems following directions	0	1	2	3
I daydream too much	0	1	2	3
I get confused	0	1	2	3
I forget things	0	1	2	3
I have problems finishing things	0	1	2	3
I have trouble figuring things out	0	1	2	3
It's hard for me to learn new things	0	1	2	3
I have headaches	0	1	2	3
I feel dizzy	0	1	2	3
I feel like the room is spinning	0	1	2	3
I feel like I'm going to faint	0	1	2	3
Things are blurry when I look at them	0	1	2	3
I see double	0	1	2	3
I feel sick to my stomach	0	1	2	3
I get tired a lot	0	1	2	3
I get tired easily	0	1	2	3
Total number of symptoms (Maximum possible 20	0)			

#### Parent report The child never rarely sometimes often has trouble sustaining attention Is easily distracted has difficulty concentrating has problems remembering what he/she is told has difficulty following directions tends to daydream gets confused is forgetful has difficulty completeing tasks has poor problem solving skills has problems learning has headaches feels dizzy has a feeling that the room is spinning feels faint has blurred vision has double vision experiences nausea gets tired a lot 0 1 2 gets tired easily Total number of symptoms (Maximum possible 20) Symptom severity score (Maximum possible 20x3=60) Do the symptoms get worse with physical activity? Y Do the symptoms get worse with mental activity? YN parent self rated clinician interview parent self rated and clinician monitored Overall rating for parent/teacher/coach/carer to answer. How different is the child acting compared to his/her usual self? Please circle one response:

Scoring on the ChildSCAT3 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 competition after concussion.

unsure

no different very different

Name of person completing Parent-report:

Relationship to child of person completing Parent-report:

Orientation (1 p	oint for	each	correct a	answer)				
What month is i							0	1
What is the date		?					0	1
What is the day			k?				0	1
What year is it?							0	1
Orientation sco	ore							of 4
Immediate me	mory							
	rial 1		Trial 2	Tria	al 3	Alternative w	ord list	
elbow 0	1	0	1	0	1	candle	baby	finger
apple 0	1	0	1	0	1	paper	monkey	penny
carpet 0	1	0	1	0	1	sugar	perfume	blanket
saddle 0	1	0	1	0	1	sandwich	sunset	lemon
bubble 0	1	0	1	0	1	wagon	iron	insect
Total		100						
Immediate me	mory	scor	e total					of 15
Concentration:	Digit	s Ba	ckwarc	i				
List	NAME AND ADDRESS OF	-	Alterna		git list			
6-2	0	1	5-2			4-1	4-9	
4-9-3	0	1	6-2-9			5-2-6	4-1-5	
3-8-1-4	0	1	3-2-7-	.9		1-7-9-5	4-9-6	5-8
		1	1-5-2-	9.6		3-8-5-2-7	6-1-8	-4-3
6-2-9-7-1	0	2 100	1-3-2	-0-0				
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Since signs and symptoms may evolve over time, it is important to consider repeat evaluation in the acute assessment of concussion.