

CONCUSSION BASELINE TESTING

Thank you for your interest in concussion baseline testing. Below are instructions which will help make the testing process as efficient as possible. Please plan to spend 15-20 minutes with us. We also request that parents are present for the entire testing, in case there are questions.

DATE OF BASELINE TESTING:

Saturday, August 29 (Chesterfield County Public Schools—Career and Technical

Education at 13900 Hull Street Road, Midlothian 23112)

TIME:

Please call Sheltering Arms to schedule your testing session at 764-1001. Sessions are

available from 10:00am to 4:00pm.

DOCUMENTS TO COMPLETE:

PRIOR to August 29, please complete one of the sets of forms:

-if your child is age 5 to 12 years, please complete <u>BASELINE PACKET A</u>. In this Packet A, please fill out: (1) Consent Form for Baseline Testing, (2) the Background, Section 3 and Section 4 of the Child-SCAT3, and (3) the top section of the King-Devick [name, DOB, etc.]. Please ensure that your child's name is on every page.

-if your child is 13 years or older, please complete <u>BASELINE PACKET B</u>. In this Packet B, please fill out: (1) Consent Form for Baseline Testing, (2) the Background and Section 3 of the SCAT3, and (3) the top section of the King-Devick [name, DOB, etc.]. Please ensure that your child's name is on every page.

PAYMENT:

The group rate for baseline testing is **\$20**. Cash and checks only. Please make checks payable to Sheltering Arms. No credit cards. Payment accepted on-site only.

WHAT IS A BASELINE TEST?

A baseline test is a pre-season screening conducted by a trained healthcare professional to determine an individual's normal levels of balance and brain functioning prior to engaging in athletic activity.

Baseline testing provides important information that can be compared with results of similar assessments in the event of a suspected concussion during the season. The comparison of baseline tests results to post-injury results can help in identifying severity of injury and support critical decisions regarding returning safely to play and other daily activities.

QUESTIONS?

For more information about concussion care services, please visit www.ShelteringArms.com. For questions about this concussion baseline testing event, please contact Anne Chan at achan@shelteringarms.com.



CONSENT FOR BASELINE TESTING

The undersigned consents to concussion baseline testing (King-Devick™ and Child-SCAT3™ or SCAT3™, depending on age) provided by Sheltering Arms Physical Rehabilitation Centers. The undersigned understands that if he/she has any questions regarding concussion baseline testing and its results, he/she can contact Sheltering Arms by phone (804) 764-5240 or by email (achan@shelteringarms.com).

Athlete's Name (Print)	
Athlete's Date of Birth	
Parent's Name (Print)	
Address	
Phone Number	
Parent's Signature	
Date	
Name of Pediatrician	
May we send your child	l's baseline testing results to his/her pediatrician? Please circle: YES NO
For Internal Use:	Patient Account Number:
	Medical Record Number:

Child-SCAT3™ 📑 FIFA 🖁 👀 🙋 ÆEI











Sport Concussion Assessment Tool for children ages 5 to 12 years

For use by medical professionals only

Child's Name:

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 ab sence 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)

Glasgow coma scale (GCS)

- Multiple injuries

Best eve response (E) No eye 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-Maddocks Score³ "I am going to ask you a few questions, please listen carefully and give your best effort." Modified Maddocks questions (1 point for each correct answer) Where are we at now? Is it before or after lunch? What did you have last lesson/class? What is your teacher's name? child-Maddocks score Child-Maddocks score is for sideline diagnosis of concussion only and is not used for serial testing.

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

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2		
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	of 15	

Name	Date/Time of Injury:				
Examiner:	Date of Assessment				
Sport/team/school:					
Age	Gender	M	F		
Current school year/grade:					
Dominant hand:	right left	neit	her		
Mechanism of Injury ("tell mewhat happened"?):					
For Parent/carer to complete:					
How many concussions has the child h	nad in the past?				
When was the most recent concussion	n?				
How long was the recovery from the r	most recent concussion?				
Has the child ever been hospitalized o done (CT or MRI) for a head injury?	r had medical imaging	Y	N		
Has the child ever been diagnosed wit	h headaches or migraines?	Y	N		
Does the child have a learning disabili ADD/ADHD, seizure disorder?	ły, dyslexia,	Y	N		
Has the child ever been diagnosed wit anxiety or other psychiatric disorder?	h depression,	Y	N		
Has anyone in the family ever been did any of these problems?	agnosed with	Y	N		
Is the child on any medications? If yes,			N		

SYMPTOM EVALUATION

Child report

Name;	never	rarely	sometimes	often
I have trouble paying attention	0	1	2	3
l get distracted easily	0	1	2	3
Thave 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 liguring 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
l leel 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
get tired a lot	0	1	2	3
get tired easily	0	- 1	2	3

self rated and clinician monitored

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Parent report

clinician interview

self rated

	never	rarely	sometimes	often
has trouble sustaining attention	0	1	2	3
Is easily distracted	0	1	2	3
has difficulty concentrating	0	1	2	3
has problems remembering what he/she is told	0	1	2	3
has difficulty following directions	0	1	2	3
tends to daydream	0	1	2	3
gets confused	0	1	2	3
is forgetful	0	1	2	3
has difficulty completeing tasks	0	1	2	3
has poor problem solving skills	0	_ 1	2	3
has problems learning	0	- 1	2	3
has headaches	0	1	2	3
feels dizzy	0	1	2	3
has a feeling that the room is spinning	0	1	2	3
feels faint	0	1	2	3
has blurred vision	0	1	2	3
nas double vision	0	1	2	3
experiences nausea	0	1	2	3
gets tired a lot	0	1	2	3
gets tired easily	0	1	2	3
Fotal number of symptoms (Maximum possible 25 Symptom severity score (Maximum possible 20 x: 20 the symptoms get worse with physical activity the symptoms get worse with page 11 activities.	3 = 60) ty?		Y	
Oo the symptoms get worse with mental activity	y /		Y	
parent self rated dinician interview	parent self	rated ar	nd dinician m	onitore
Overall rating for parent/teacher/coach/carer low different is the child acting compared to hi			17	
lease 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.

COGNITIVE & PHYSICAL EVALUATION

What mon What is the What is the What year	(2000)		each	correct	answer)			
What is the		- 400	,					0	1
				L7				0	1
, , u.u.		or the	wee	K/				0	1
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Orientatio	AI SCI	ore						1111-1111-1111	of -
Immediat									
List		Frial 1		Trial 2		al 3	Alternative wo		
elbow	0	1	0	1	0	1	candle	baby	finger
apple	0	1	0	1	0	1	paper	monkey	penny
carpet saddle	0	1	0	1	0	1	sugar sandwich	perfume	blanket
bubble	0	1	0	1	0	1		sunset	lemon
Total	U		-	- 1		-	wagon	iron	insect
immediate	mei	mory s	core	a total					of 15
mmediac	· mei	iloi y a	COIC	totai					01 1
Concentra	tion:								
List	11111	Trial		Alterna	tive dig	nt IIst			
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 6-2-9-7-1		0	1	3-2-7-			1-7-9-5	4-9-6	
7-1-8-4-6-2	,	0	1	1-5-2-			3-8-5-2-7	6-1-8-	
7-1-8-4-6-, Total of 5	2	U	1	5-3-9-	1-4-8		8-3-1-9-6-4	7-2-4-	8-5-6
Neck E. Range of m Findings:				n: erness	Up	per a	and lower limb	sensation	&strength
Balance Do one or both Footwear (s	of the	e followi barefo	ng te ot, b	sts. Oraces,			ESS) testing ^s		
Which foot	was t	ested (i	.e. w	hich Is th	e non-	•		Left	Righ
Testing surfa Condition	tance	2:							Errors
_	nce (n	on-domi	nant	foot at b	ack):				Errors
Condition			(best o	of 4 trials)			seconds		
Condition Double leg	to cor		nabl	e to co	mplete	e tan	dem gait, mar	k here	
Condition Double leg s Tandem star Tandem ga Time taken if child atten Coordin	to cor npted	on e	exa				dem gait, mar	k here	
Condition Double leg : Tandem star Tandem ga Time taken if child atten	npted	on e	exa				dem gait, mar	k here	Right
Condition	nce (n	on-domi							Erro

Since signs and symptoms may evolve over time, it is important to consider repeat evaluation in the acute assessment of concussion.



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King-Devick Concussion Screening Test Score Sheet - Version 1

Subject Name/ID Number:	Date of Birth:
Subject's Baseline Time:	Baseline Date:
Team/Sport:	Glasses/Contacts:

Scoring King-Devick Test

When testing, start the timer when the subject reads the first number on the test card and stop the timer when the subject reads the last number on the test card. Continue timing when the subject reads the first number on the second test card and stop the timer when the subject reads the last number on the test card. Repeat for third test card. Do not include the time between completing individual test cards. Total Time is the total testing time for all three test cards combined.

Answer Key	Answer Key	Answer Key
Test Card I	Test Card II	Test Card III
2-5-8-0-7	3-7-5-9-0	5-4-1-8-0
3-7-9-4-6	2-5-7-4-6	4-6-3-5-9
5-3-1-6-4	1-4-7-6-3	7-5-4-2-7
7-9-7-3-5	7-9-3-9-0	3-2-6-9-4
1-5-4-9-2	4-5-2-1-7	1-4-5-1-3
6-5-5-7-3	5-3-7-4-8	9-3-4-8-5
3-1-8-6-4	7-4-6-5-2	5-1-6-3-1
5-3-7-5-2	9-0-2-3-6	4-3-5-2-7

Establishing A King-Devick Test Baseline

When establishing a Subject's initial Baseline Time, administer the King-Devick Test twice using the scoring instructions above. Use the fastest Baseline Total Time without errors of the two attempts below.*

Baseline Attempt Time #1	Baseline Attempt Time #2	*Subject's Baseline Time
Total Time: Total Errors: Tester Initials:	Total Time: Total Errors: Tester Initials:	Total Time: Total Errors: Tester Initials:

Testing After A Suspected Head Trauma

When testing after a suspected head trauma, the test should be administered once.

If the subject performs **SLOWER** than his/her baseline or has **INCREASED** errors, the subject should be **removed-from-play** and referred to a health care professional for additional evaluation. If the subject performs **FASTER** than his/her baseline **WITHOUT** errors, the Total Time will become the subject's new Baseline Time.

Date: Total Time: Total Errors: Tester Initials: Comments:	Date: Total Time: Total Errors: Tester Initials: Comments:	Date: Total Time: Total Errors: Tester Initials: Comments:
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