

Concussion Vital Signs Baseline Report

Athlete Reference/ID: athletetest	Test Date Local: September 17, 2014 15:39:55
Full Name: John Doe	Age: 18
Administrator: Athlete Assessment	Language: English (United States)
Total Test Time: 31:12 (min:secs) for all tests in this report	Test Date GMT: September 17, 2014 22:39:55
Testing Supervision: Supervised by athletic trainer or school personnel	Testing Environment: Group 16 or More
Concussion Reference Code: 2T47GERB Used to view the most recent report or administer post-injury assessment at www.concussionvitalsigns.com	

Domain Scores	Baseline		
	Subject Score	Compared to Peers	Valid Score
Neurocognitive Index (NCI)		Average	Yes
Verbal Memory	51	Average	Yes
Visual Memory	52	Average	Yes
Psychomotor Speed	190	Average	Yes
Executive Function	43	Average	Yes
Cognitive Flexibility	40	Average	Yes
CPT Correct Responses	40	Average	Yes
Reaction Time*	538*	Above	Yes
Reaction Time Detail			
Simple Reaction Time*	284*	Average	Yes
Choice Reaction Time Correct*	432*	Average	Yes
Shifting Attention Correct RT*	856*	Average	Yes

The entire test must be re-administered if the athlete has any "No" values in the Valid Score Column. An * denotes that "lower is better" in the Subject Score column, otherwise higher scores are better. With Percentile scores, higher is always better.

All tests are valid.

Domain Scores are defined as follows:

Verbal and Visual Memory is the score for the Verbal and Visual Memory Tests respectively.

Psychomotor Speed is the combined score for both the Finger Tapping and the Symbol Digit Coding Test.

Executive Function reflects performance on the Shifting Attention Test.

Cognitive Flexibility reflects performance on components of the Shifting Attention and Stroop Tests.

CPT Correct Responses is the number of correct responses on the Continuous Performance Test.

Reaction Time* is the average reaction time on parts 2 and 3 of the Stroop Tests.

Reaction Time Detail Scores are defined as follows:

Simple Reaction Time* is the average reaction time on part 1 of the Stroop Tests. Time required to press the spacebar from the time a word first appears on the display.

Choice Reaction Time Correct* is the average correct reaction time on the Continuous Performance Test. Time required to press the spacebar from the time a B first appears on the display.

Shifting Attention Correct RT* is the average correct reaction time on the Shifting Attention Test.

There are seven tests in the battery:

Verbal Memory Test - a 15 word memory test where the athlete will respond with the spacebar if they have seen one of the words before when challenged with another word list. This is a measure of memory.

Visual Memory Test - a 15 image memory test where the athlete will respond with the spacebar if they have seen one of the images before when challenged with another image list. This is a measure of memory.

Finger Tapping Test - the athlete will tap the spacebar as many times as possible in 10 second. There will be three trials with each hand. This is a measure of psychomotor speed.

Symbol Digit Coding Test - the athlete will complete a grid where an answer key is presented and using the numbers from the key, match a number with a shape in the grid. The number keys across the top of the keyboard will be used to respond. This is a measure of psychomotor speed.

Stroop Test - the athlete will respond to colors and words in three different subtests. This is a measure of reaction time, simple reaction time, complex reaction time and cognitive flexibility.

Shifting Attention Test - the athlete will respond to changing rules (Match Color or Match Shape) by responding with the two arrow keys. This is a measure of Shifting Attention Reaction Time, Executive Function and Cognitive Flexibility

Continuous Performance Test - the athlete will respond with the spacebar each time they see a letter "B" on the screen. This is a measure of choice reaction time and CPT Correct Responses.

Athlete Information & Medical History (Page 1 of 2)

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Demographic and Background Information - General Information

Height: 6 ft 2 in	Weight: 195 lbs
Sport Setting: College	
Academic Year: Sophomore	Eligibility Year: 2
Race: African American	
Handedness: Right	Gender: Male
Native Language: English	
Second Language:	How Long? yrs

Demographic and Background Information - Education

Years of Education Completed (e.g. high school senior is 11 years): 12yrs	
SAT (total): 1430 out of 2400	
Received speech therapy:	Yes
Attended special education classes:	No
Repeated one or more years of school:	No
Diagnosed attention deficit disorder (ADD) or hyperactivity (ADHD):	Yes
Diagnosed learning disability:	No

Demographic and Background Information - Sports

Primary Sport: Wrestling
Primary Sport Position:
Years you have played this primary sport at current level: 1
Total number of years you have played this primary sport: 10
Secondary Sport:
Secondary Sport Position:
Years you have played this secondary sport at current level:
Total number of years you have played this secondary sport:

Athlete Information & Medical History (Page 2 of 2)

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Concussion & Medical History

Number of times diagnosed with a concussion: 1	
Injury 1	
Approximate Date of Injury: October/2010	Days Lost: 0
Was this concussion sports related?	Yes
Did this concussion result in a loss of consciousness?	Yes
Did this concussion result in confusion?	No
Difficulty remembering events immediately before injury?	Yes
Difficulty remembering events immediately after injury?	Yes
Injury 2	
Approximate Date of Injury: /	Days Lost:
Was this concussion sports related?	
Did this concussion result in a loss of consciousness?	
Did this concussion result in confusion?	
Difficulty remembering events immediately before injury?	
Difficulty remembering events immediately after injury?	
Injury 3	
Approximate Date of Injury: /	Days Lost:
Was this concussion sports related?	
Did this concussion result in a loss of consciousness?	
Did this concussion result in confusion?	
Difficulty remembering events immediately before injury?	
Difficulty remembering events immediately after injury?	
Indicate whether you have experienced the following:	
Treatment for headaches by physician:	No
Treatment for migraine headaches by physician:	No
Treatment for epilepsy/seizures:	No
History of brain surgery:	No
History of meningitis:	No
Treatment for Substance/alcohol abuse:	No
Treatment for psychiatric condition (depression, anxiety etc.):	No
Current Medications: acyclover	

Baseline Concussion Symptom Scale

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Rates how this symptom is experienced on a regular basis, Absent (0 - None) or Present (1 - Mild to 6 - Severe).

CSI - Symptoms*		Absent	Present
1	Headache	0	
3	Nausea	0	
5	Poor balance	0	
6	Dizziness	0	
7	Fatigue or loss of energy	0	
9	Drowsiness or feeling sleepy	0	
14	Feeling like "In-a-fog"	0	
15	Difficulty concentrating		2
16	Difficulty remembering	0	
10	Sensitivity to light	0	
11	Sensitivity to noise	0	
17	Blurred vision	0	
24	Feeling slowed down	0	

Additional Concussion Symptoms**		Absent	Present
8	Difficulty falling or staying asleep		2
12	Irritability, easily annoyed or frustrated	0	
13	Sadness	0	
2	Feeling numbness or tingling	0	
18	ringing in the ear	0	
19	Neck pain	0	
20	More Emotional	0	
21	Feeling Nervous	0	
22	Feeling anxious or tense	0	
23	Feeling Confused	0	
4	Vomiting	0	

Do Symptoms get worse with Physical Activity: No

Do Symptoms get worse with Mental or Academic Activity: No

Acknowledgements: Concussion Vital Signs Symptom Scale contains a representative sample of well recognized sports concussion symptoms similar to those found in the CSI - Concussion Symptom Inventory, SCAT2, and the Neurobehavioral Symptom Inventory.

* (CSI) Concussion Symptom Inventory: An Empirically Derived Scale for Monitoring Resolution of Symptoms Following Sport-Related Concussion; Christopher Randolph, Scott Millis, William B. Barr, Michael McCrea, Kevin M. Guskiewicz, Thomas A. Hammeke, James P. Kelly; Archives of Clinical Neuropsychology 24 (2009) 219-229; Public Domain

** SCAT2 - Sport Concussion Assessment Tool 2: This tool has been developed by a group of international experts at the 3rd International Consensus meeting on Concussion in Sport held in Zurich, Switzerland in November 2008. British Journal of Sports Medicine, 2009, volume 43, supplement 1.

*** Neurobehavioral Symptom Inventory: Cicerone, KD: J Head Tr Rehabil 1995;10(3):1-17