Football season is almost here and so is baseline testing for your athletes. This webinar will provide a "how-to" of administering baseline testing for your student athletes using Concussion Vital Signs online neurocognitive test.

In this webinar, we will walk you through the basics of how to administer this online test, including how to:
- register an organization as an administrator
- login an athlete for testing
- establish a good testing environment and administer the test
- login and maneuver within the Clinician’s Portal.

Pragmatic issues such as creating different "teams" or "sports" within an administrator panel will be covered as well as simple ways to create user names so they are easy to find and then how to search for test results.

We will also review the basics of the battery and the basic limitations of CV scores that are obtained. We will review how to view reports especially the efficiency with which you can identify whether a test is valid or not and which subtest(s) is not valid.

If you are interested in online neurocognitive concussion assessments, in particular, the CV tool, this one-hour session will help you understand the unique aspects of this concussion management tool.
Webinar

• Meeting Description:
This one-hour session will help you understand the unique aspects of Concussion Vital Signs, an online neuro-cognitive test that provides baseline and post-injury assessments for student athletes. This webinar will provide a “how to” of the test, starting with a walk-through of administering the test and including how to:
• register an organization as an administrator
• log in an athlete for testing
•establish a good testing environment and administer the test
• maneuver within the administrator panel and
• log in and maneuver within the Clinician’s Portal
• Other pragmatic issues will be addressed, including:
• creating different “teams” or “sports” within an administrator panel
• simple ways to create user names so they are easy to find
• searching for test results
In addition, we will review the tests in the battery, the scores, and reports, emphasizing the efficiency with which you can identify the validity of a test and/or subtest(s).

Concussion

• What is concussion?
• How do you get one?
• What are the consequences?
• How do you assess and monitor concussion?
• Who should do an evaluation if you think you had one?
• Can you get more than one? Is there any harm?
Concussion

How do you define it?

Definition

• A concussion is a mild type of traumatic brain injury, (mTBI).
• It can occur as a result of a fall, a motor vehicle accident, or a blow to the head.
• A concussion is the brain’s reaction to a jolt or blow or the head.
• It is caused by the brain moving back and forth or twisting in the skull.

Management of Concussion

How do you manage concussion and return to play decisions?
OPTIMIZED for Easier Management
Concussion Vital Signs Product Training

Add USERS... e.g. One University Account with Multiple Users

Easy Roster Set-Up
Easy to Retire Graduated Athletes
Easy to EDIT or UPDATE Account Information
Easy to VIEW and SEARCH REPORTS
Easy to TRACK Account Activity
Easy Roster Reports e.g. List Immediate Return, Baseline, etc.
Easy EDIT Demography Function

Sideline Assessment...mobile enabled for efficiency
Concussion Vital Signs Product Training

Pocket SCAT2
iPad, iPhone, Xoom, Droid, Blackberry Enabled

Collect your sideline exam information on a handheld device or a clipboard for easy access anywhere.

Concussion Sideline Assessment: Pocket SCAT

Athlete Reference/ID: 
Test Date/Time: 

Full Name: 
Test Administrator Name/Position: 

Concussion should be suspected in the presence of any one or more of the following: Symptoms (such as headache, physical signs such as vomiting, or Impaired brain function such as confusion) or abnormal behavior.

1. Symptoms: The presence of any of the following signs and symptoms may suggest a concussion:
   1. Loss of consciousness
   2. Severe or confusion
   3. Amnesia
   4. Headache
   5. Pressure in head
   6. Speech
   7. Noise or hearing
   8. Dizziness
   9. Blurred vision
   10. Feeling dazed
   11. Feeling like "in a fog"
   12. "Don’t feel right"
   13. Difficulty concentrating
   14. Difficulty remembering
   15. Fatigue or low energy
   16. Confusion
   17. Drowsiness

Check "the SYMPTOMS exhibited by the athlete.

Yes No

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

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17. Drowsiness
Concussion Evaluation:

SCAT2 / SAC

Computerized neuropsychological testing increases the likelihood of consistent inter-rater reliability across sites. It also helps with accountability/risk management documentation vs. paper-pencil.

CVS can assist with your Return-to-Play protocol...

Athletes should not be returned to play the same day of injury. When returning athletes to play, they should follow a stepwise symptom-limited program, with stages of progression. For example:

1. Rest until asymptomatic (physical and mental rest)
2. Light aerobic exercise (e.g. stationary cycle)
3. Sport-specific exercise
4. Non-contact training drills (start light resistance training)
5. Full contact training after medical clearance

There should be approximately 24 hours (or longer) for each stage and the athlete should return to stage 1 if symptoms recur.

***Medical clearance necessary before returning to play.***
Concussion Symptom Scale - computerized

- Used in all Phases
- Graded (1 - Mild to 6 - Severe)
- CSI - Concussion Symptom Inventory
- SCAT 2 - Neurobehavioral Symptom Inventory

Concussion History - can be obtained from reliable source - does not have to be from student athlete

Concussion & Medical History
- Number of times diagnosed with a concussion:
- Injury (Up to 3 injuries can be reported)
- 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:
  - Treatment for Migraine Headaches by Physician:
  - Treatment for Epilepsy / Seizures:
  - History of Brain Surgery:
  - History of Meningitis:
  - Treatment for Substance / Alcohol abuse:
  - Treatment for Psychiatric Condition (depression / anxiety etc.):
  - Current Medications:

User Name:
Password:
Concussion Vital Signs

Neurocognitive tests include:
- Verbal Memory (Immediate)
- Visual Memory (Immediate)
- Finger Tapping
- Symbol Digit Coding
- Stroop Test
- Shifting Attention
- Continuous Performance
- Verbal Memory (Delayed)
- Visual Memory (Delayed)

Concussion History
Concussion Symptoms
Testing Time 20 to 30 Minutes

Concussion Symptom Checklist & History are independent from the Neurocognitive test

What is included? What subtests are there?
- Verbal Memory
- Visual Memory
- Finger Tapping
- Symbol Digit Coding
- Stroop Test
- Shifting Attention
- Continuous Performance

Strong Executive Function Tests
- Widely Recognized Measure of Motor Speed

Testing Tips?

What is helpful to know?
Room set up?

How do you set the room up to ensure test results can be used?

Brief introduction to interpretation

What do you need to know?
When do you repeat baseline testing?
When do you do post injury testing?

Concussion Vital Signs Test Report

Post-Concussion Example: First Retest

<table>
<thead>
<tr>
<th>Domain Scores</th>
<th>Subject Score</th>
<th>Percentile</th>
<th>TMS Score</th>
<th>Percentile</th>
<th>Final Score</th>
<th>Percentile</th>
<th>At Baseline or Better</th>
<th>Within 90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neurobehavioral Attunement</td>
<td>59</td>
<td>77</td>
<td>Yes</td>
<td>Yes</td>
<td>77</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Executive Function</td>
<td>55</td>
<td>82</td>
<td>Yes</td>
<td>Yes</td>
<td>82</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Psychomotor Speed</td>
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<td>87</td>
<td>100</td>
<td>87</td>
<td>100</td>
<td>87</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Baseline Reaction Time</td>
<td>54</td>
<td>70</td>
<td>Yes</td>
<td>Yes</td>
<td>70</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Sit-Stand</td>
<td>22</td>
<td>79</td>
<td>Yes</td>
<td>Yes</td>
<td>79</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
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Concussion Vital Signs Test Report

Post-Date Date: January 5, 2009 14:21:29

Test Site: XYZ

Age: 12

Testing Supervisor: Mickey Topper

Testing Environment: above
Demo

• Schools Platform, Assessments, Reports, Data Management
• Clinician Portal

CVS

• Technical Support: telephone: 1-800-249-0659 #7
• Inside sales: Kent Willette
• Presenters: Peter C. Entwistle & Charles Shinaver

Concussion Vital Signs®