

Concussions: The Invisible Injury

Student and Parent Information Sheet

CONCUSSION DEFINITION

A concussion is a reaction by the brain to a jolt or force that can be transmitted to the head by an impact or blow occurring anywhere on the body. Essentially a concussion results from the brain moving back and forth or twisting rapidly inside the skull.

FACTS ABOUT CONCUSSIONS ACCORDING TO THE CENTER FOR DISEASE CONTROL (CDC)

- An estimated 4 million people under age 19 sustain a head injury annually. Of these approximately 52,000 die and 275,000 are hospitalized.
- An estimated 300,000 sports and recreation related concussions occur each year.
- Students who have had at least one concussion are at increased risk for another concussion.

In New York State in 2009, approximately 50,500 children under the age of 19 visited the emergency room for a traumatic brain injury and of those approximately 3,000 were hospitalized.

REQUIREMENTS OF SCHOOL DISTRICTS

Education:

- Each school coach, physical education teacher, nurse, and athletic trainer will have to complete an approved course on concussion management on a biennial basis, starting with the 2012-2013 school year.
\$ School coaches and physical education teachers must complete the CDC course.
(www.cdc.gov/concussion/HeadsUp/online_training.html)
- School nurses and certified athletic trainers must complete the concussion course, (<http://preventingconcussions.org>)

Information:

- Provide concussion management information and sign off with any parental permission form. **The NYSPHS AA will provide a pamphlet to member schools** on the concussion management information for parents.
- The concussion management and awareness information or the State Education Department's web site must be made available on the school web site, if one exists..

Removal from athletics:

- Require the immediate removal from athletic activities of any pupil that has or is believed to have sustained a mild traumatic brain injury.
- No pupils will be allowed to resume athletic activity until they have been symptom free for 24 hours and have been evaluated by and received written and signed authorization from a licensed physician. For interscholastic athletics, clearance must come from the school medical director.
« Such authorization must be kept in the pupil's permanent health record.
* Schools shall follow directives issued by the pupil's treating physician.

SYMPTOMS

Symptoms of a concussion are the result of a temporary change in the brain's function. In most cases, the symptoms of a concussion generally resolve over a short period of time; however, in some cases, symptoms will last for weeks or longer. Children and adolescents are more susceptible to concussions and take longer than adults to recover.

It is imperative that any student who is suspected of having a concussion is removed from athletic activity (e.g. recess, PE class, sports) and remains out of such activities until evaluated and cleared to return to activity by a physician.

Symptoms include, but are not limited to:

- Decreased or absent memory of events prior to or immediately after the injury, or difficulty retaining new information
Confusion or appears dazed
Headache or head pressure
Loss of consciousness
Balance difficulties, dizziness, or clumsy movements
Double or blurry vision
Sensitivity to light and/or sound
Nausea, vomiting and/or loss of appetite
Irritability, sadness or other changes in personality
Feeling sluggish, foggy or light-headed
Concentration or focusing problems
Drowsiness
Fatigue and/or sleep issues - sleeping more or less than usual

Students who develop any of the following signs, or if signs and symptoms worsen, should be seen and evaluated immediately at the nearest hospital emergency room.

Headaches that worsen
Seizures
Looks drowsy and/or cannot be awakened
Repeated vomiting
Slurred speech
Unable to recognize people or places
Weakness or numbing in arms or legs, facial drooping
Unsteady gait
Change in pupil size in one eye
Significant irritability
Any loss of consciousness
Suspicion for skull fracture: blood draining from ear or clear fluid from the nose

STATE EDUCATION DEPARTMENT'S GUIDANCE FOR CONCUSSION MANAGEMENT

Schools are advised to develop a written concussion management policy. A sample policy is available on the NYSPHSAA web site at www.nysphsaa.org. The policy should include:

- A commitment to reduce the risk of head injuries.
- A procedure and treatment plan developed by the district medical director.
- A procedure to ensure proper education for school nurses, certified athletic trainers, physical education teachers, and coaches.
- A procedure for a coordinated communication plan among appropriate staff.
- A procedure for periodic review of the concussion management program.

RETURN TO LEARN and RETURN TO PLAY PROTOCOLS

Cognitive Rest: Activities students should avoid include, but are not limited to, the following:

- Computers and video games
- Television viewing
- Texting
- Reading or writing
- Studying or homework
- Taking a test or completing significant projects
- Loud music
- Bright lights

Students may only be able to attend school for short periods of time. Accommodations may have to be made for missed tests and assignments.

Physical Rest: Activities students should avoid include, but are not limited to, the following:

- Contact and collision
- High speed, intense exercise and/or sports
- High risk for re-injury or impacts
- Any activity that results in an increased heart rate or increased head pressure

Return to Play Protocol once symptom free for 24 hours and cleared by School Medical Director:

Day 1: Low impact, non strenuous, light aerobic activity.

Day 2: Higher impact, higher exertion, moderate aerobic activity. No resistance training.

Day 3: Sport specific non-contact activity. Low resistance weight training with a spotter.

Day 4: Sport specific activity, non-contact drills. Higher resistance weight training with a spotter.

Day 5: Full contact training drills and intense aerobic activity.

Day 6: Return to full activities with clearance from School Medical Director.

Any return of symptoms during the return to play protocol, the student will return to previous day's activities until symptom free.

CONCUSSION MANAGEMENT TEAM

Schools may, at their discretion, form a concussion management team to implement and monitor the concussion management policy and program. The team could include, but is not limited to, the following:

- Students
- Parents/Guardians
- School Administrators
- Medical Director
- Private Medical Provider
- School Nurse
- Director of Physical Education and/or Athletic Director
- Certified Athletic Trainer
- Physical Education Teacher and/or Coaches
- Classroom Teachers

OTHER RESOURCES

- New York State Education Department
- New York State Department of Health
http://www.health.ny.gov/prevention/injury_prevention/concussion/htm
- New York State Public High School Athletic Association
www.nysphsaa.org/safety/
- Center for Disease Control and Prevention
<http://cdc.gov/concussions>
- National Federation of High Schools
www.nflislearn.com - The FREE Concussion Management course does not meet education requirement.
- Child Health Plus
http://www.health.ny.gov/health_care/managed_care/consumer_guide/about_child_health_plus.htm
- Local Department of Social Services - New York State Department of Health
http://www.health.ny.gov/health_care/medicaid/ldss/htm
- Brain Injury Association of New York State
<http://www.bianys.org>
- Nationwide Children's Hospital - Concussions in the Classroom
<http://www.nationwidechildrens.org/concussions-in-the-classroom>
- Upstate University Hospital - Concussions in the Classroom
<http://www.upstate.edu/pmr/healthcare/programs/concussion/classroom.php>
- ESPN Video - Life Changed by Concussion
<http://espn.go.com/video/clip?id=7525526&categoryid=5595394>
- SportsConcussions.org
<http://www.sportsconcussions.org/ibaseline/>
- American Association of Neurological Surgeons
<http://www.aans.org/Patient%20Information/Conditions%20and%20Treatment/Concussion.aspx>
- Consensus Statement on Concussion in Sport - Zurich
<http://sportconcussions.com/html/Zurich%20Statement.pdf>