

## Concussion Information Sheet

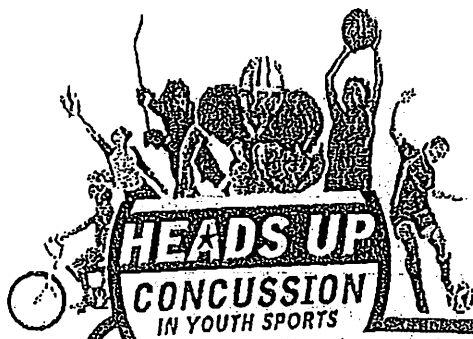
A concussion is a brain injury and all brain injuries are serious. They are caused by a bump, blow, or jolt to the head, or by a blow to another part of the body with the force transmitted to the head. They can range from mild to severe and can disrupt the way the brain normally works. Even though most concussions are mild, all concussions are potentially serious and may result in complications including prolonged brain damage and death if not recognized and managed properly. In other words, even a "ding" or a bump on the head can be serious. You can't see a concussion and most sports concussions occur without loss of consciousness. Signs and symptoms of concussion may show up right after the injury or can take hours or days to fully appear. If your child reports any symptoms of concussion, or if you notice the symptoms or signs of concussion yourself, seek medical attention right away.

### Symptoms may include one or more of the following:

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| <ul style="list-style-type: none"><li>• Headaches</li><li>• "Pressure in head"</li><li>• Nausea or vomiting</li><li>• Neck pain</li><li>• Balance problems or dizziness</li><li>• Blurred, double, or fuzzy vision</li><li>• Sensitivity to light or noise</li><li>• Feeling sluggish or slowed down</li><li>• Feeling foggy or groggy</li><li>• Drowsiness</li><li>• Change in sleep patterns</li></ul> | <ul style="list-style-type: none"><li>• Amnesia</li><li>• "Don't feel right"</li><li>• Fatigue or low energy</li><li>• Sadness</li><li>• Nervousness or anxiety</li><li>• Irritability</li><li>• More emotional</li><li>• Confusion</li><li>• Concentration or memory problems (forgetting game plays)</li><li>• Repeating the same question/comment</li></ul> |
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### Signs observed by teammates, parents and coaches include:

- Appears dazed
- Vacant facial expression
- Confused about assignment
- Forgets plays
- Is unsure of game, score, or opponent
- Moves clumsily or displays in coordination
- Answers questions slowly
- Slurred speech
- Shows behavior or personality changes
- Can't recall events prior to hit
- Can't recall events after hit
- Seizures or convulsions
- Any change in typical behavior or personality
- Loses consciousness



## A Fact Sheet for COACHES

To download the coaches fact sheet in Spanish, please visit [www.cdc.gov/ConcussionInYouthSports](http://www.cdc.gov/ConcussionInYouthSports)  
Para descargar la hoja informativa para los entrenadores en español, por favor visite:  
[www.cdc.gov/ConcussionInYouthSports](http://www.cdc.gov/ConcussionInYouthSports)

### THE FACTS

- A concussion is a **brain injury**.
- All concussions are **serious**.
- Concussions can occur **without loss of consciousness**.
- Concussions can occur **in any sport**.
- Recognition and proper management of concussions when they **first occur** can help prevent further injury or even death.

### WHAT IS A CONCUSSION?

A concussion is an injury that changes how the cells in the brain normally work.

A concussion is caused by a blow to the head or body that causes the brain to move rapidly inside the skull. Even a "ding," "getting your bell rung," or what seems to be a mild bump or blow to the head can be serious. Concussions can also result from a fall or from players colliding with each other or with obstacles, such as a goalpost.

The potential for concussions is greatest in athletic environments where collisions are common.<sup>1</sup> Concussions can occur, however,

in any organized or unorganized sport or recreational activity.

### RECOGNIZING A POSSIBLE CONCUSSION

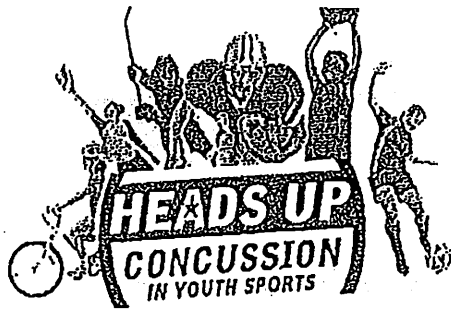
To help recognize a concussion, you should watch for the following two things among your athletes:

1. A forceful blow to the head or body that results in rapid movement of the head.

-and-

2. Any change in the athlete's behavior, thinking, or physical functioning. (See the signs and symptoms of concussion listed on the next page.)

***It's better to miss one game than the whole season.***



## SIGNS AND SYMPTOMS

### SIGNS OBSERVED BY COACHING STAFF

- Appears dazed or stunned
- Is confused about assignment or position
- Forgets sports plays
- Is unsure of game, score, or opponent
- Moves clumsily
- Answers questions slowly
- Loses consciousness (even briefly)
- Shows behavior or personality changes
- Can't recall events prior to hit or fall
- Can't recall events after hit or fall

### SYMPTOMS REPORTED BY ATHLETE

- Headache or "pressure" in head
- Nausea or vomiting
- Balance problems or dizziness
- Double or blurry vision
- Sensitivity to light
- Sensitivity to noise
- Feeling sluggish, hazy, foggy, or groggy
- Concentration or memory problems
- Confusion
- Does not "feel right"

*Adapted from Lovell et al. 2004*

Athletes who experience any of these signs or symptoms after a bump or blow to the head should be kept from play until given permission to return to play by a health care professional with experience in evaluating for concussion. Signs and symptoms of concussion can last from several minutes to days, weeks, months, or even longer in some cases.

Remember, you can't see a concussion and some athletes may not experience and/or report symptoms until hours or days after the injury. If you have any suspicion that your athlete has a concussion, you should keep the athlete out of the game or practice.

### PREVENTION AND PREPARATION

As a coach, you can play a key role in preventing concussions and responding to them properly when they occur. Here are some steps you can take to ensure the best outcome for your athletes and the team:

- Educate athletes and parents about concussion. Talk with athletes and their parents about the dangers and potential long-term consequences of concussion. For more information on long-term effects of concussion, take the free online training for coaches and parents: [www.cdc.gov/Concussion](http://www.cdc.gov/Concussion).



Explain your concerns about concussion and your expectations of safe play to athletes, parents, and assistant coaches. Pass out the concussion fact sheets for athletes and for parents at the beginning of the season and again if a concussion occurs.

- **Insist that safety comes first.**
  - > Teach athletes safe playing techniques and encourage them to follow the rules of play.
  - > Encourage athletes to practice good sportsmanship at all times.
  - > Make sure athletes wear the right protective equipment for their activity (such as helmets, padding, shin guards, and eye and mouth guards). Protective equipment should fit properly, be well maintained, and be worn consistently and correctly.
  - > Review the athlete fact sheet with your team to help them recognize the signs and symptoms of a concussion.

Check with your youth sports league or administrator about concussion policies. Concussion policy statements can be developed to include the league's commitment to safety, a brief description of concussion, and information on when athletes can safely return to play following a concussion (i.e., an athlete with known or suspected concussion

should be kept from play until evaluated and given permission to return by a health care professional). Parents and athletes should sign the concussion policy statement at the beginning of the sports season.

- **Teach athletes and parents that it's not smart to play with a concussion.**

Sometimes players and parents wrongly believe that it shows strength and courage to play injured. Discourage others from pressuring injured athletes to play. Don't let athletes persuade you that they're "just fine" after they have sustained any bump or blow to the head. Ask if players have ever had a concussion.
- **Prevent long-term problems.** A repeat concussion that occurs before the brain recovers from the first—usually within a short period of time (hours, days, or weeks)—can slow recovery or increase the likelihood of having long-term problems. In rare cases, repeat concussions can result in brain swelling, permanent brain damage, and even death.<sup>2,4</sup> Keep athletes with known or suspected concussion from play until they have been evaluated and given permission to return to play by a health care professional with experience in evaluating for concussion. Remind your athletes: "It's better to miss one game than the whole season."

## Concussion Information Sheet

### What can happen if my child keeps on playing with a concussion or returns too soon?

Athletes with the signs and symptoms of concussion should be removed from play immediately. Continuing to play with the signs and symptoms of a concussion leaves the young athlete especially vulnerable to greater injury. There is an increased risk of significant damage from a concussion for a period of time after the concussion occurs, particularly if the athlete suffers another concussion before completely recovering from the first one. This can lead to prolonged recovery, or even to severe brain swelling (second impact syndrome) with devastating and even fatal consequences. It is well known that adolescent or teenage athletes will often fail to report symptoms or injuries. Concussions are no different. As a result, education of administrators, coaches, parents and students is the key to student-athlete's safety.

### If you think your child has suffered a concussion

Any athlete even suspected of suffering a concussion should be removed from the game or practice immediately. No athlete may return to activity after an apparent head injury or concussion, regardless of how mild it seems or how quickly symptoms clear, without medical clearance. Close observation of the athlete should continue for several hours. The Return-To-Play Policy of the SIJHSAA and IHSA requires athletes to provide their school with written clearance from either a physician licensed to practice medicine in all its branches or a certified athletic trainer working in conjunction with a physician licensed to practice medicine in all branches prior to returning to play or practice following a concussion or after being removed from an interscholastic contest due to a possible head injury or concussion and not cleared to return to that same contest. In accordance with state law, all schools are required to follow this policy.

You should also inform your child's coach if you think that your child may have a concussion. Remember it's better to miss one game than miss the whole season. And when in doubt, the athlete sits out.

For current and up-to-date information on concussions you can go to:  
<http://www.cdc.gov/ConcussionInYouthSports/>

Student-Athlete Name Printed	Student-Athlete Signature	Date
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Parent-Legal Guardian Printed	Parent-Legal Guardian Signature	Date
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Adapted from the CDC and the 3<sup>rd</sup> International Conference on Concussion in Sport Document created 7/1/2013

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

REPORT OF THE COMMITTEE ON THE  
PROGRESS OF THE DEPARTMENT OF CHEMISTRY  
DURING THE YEAR 1954

The Department of Chemistry at the University of Chicago has had a very successful year. The research program has been carried on in a most efficient manner, and the results have been of the highest quality. The following is a summary of the work done during the year.

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