What is a concussion?

When an athlete gets their “bell rung” or gets “lit up” they have suffered a concussion. Concussions are a type of traumatic brain injury (TBI). Concussions are caused by a bump, blow, hit, or jolt to the head or body that moves the head and brain rapidly back and forth. Falling or being hit against or by another person or object are common causes of concussions. Your head doesn’t have to be struck to cause a concussion; for example, a body-to-body hit has the potential to cause a concussion.

What does a concussion do to my brain?

When you experience a concussion, your brain may bounce or twist inside your skull, sometimes stretching or damaging brain cells and causing chemical changes within the brain. A concussion interrupts your brain's functioning. When your brain is injured by a concussion, the injury can affect you physically, emotionally, behaviorally, and/or cognitively (how you think).

Can concussion risk be reduced?

YES! There are ways to reduce your risk of a concussion. Practice good sportsmanship and follow your coach’s instructions for safe game play. If you play contact sports, learn the fundamentals and appropriate techniques. Make sure bicycle, athletic, and ATV helmets fit properly and are worn consistently. While a helmet doesn’t prevent a concussion, it does protect your head from more severe injuries.

Can I keep playing after a concussion?

Your brain needs time to heal after a concussion. If you continue to play or return to play too soon—before your brain has finished healing—you have a greater chance of getting another concussion. A repeat concussion that occurs while your brain is still healing can be very serious and can affect you for a lifetime. It can even be fatal. If you think you may have sustained a concussion during a practice or game, immediately talk to your coach, game official, athletic trainer, or parent/guardian and remove yourself from play. Do not return to play on the same day as the injury. You need to see a health care professional to be evaluated for a concussion and given written clearance to return to play.
SIGNS AND SYMPTOMS

There are many signs and symptoms of a concussion. **Concussion symptoms may appear minutes, hours, or days after the initial injury.** Symptoms may be physical, emotional, behavioral, or cognitive (affect thinking). You may notice these symptoms yourself or someone else may observe them. If you experience any of these symptoms after a blow to the head or body, tell someone immediately.

### Physical
- Headache or pressure in the head
- Dizziness, balance problems
- Nausea or vomiting
  - Sensitivity to noise, ringing in ears
- Sensitivity to light, blurry or double vision
- Feel tired
- Tingling
- Do not “feel right”
- Seem dazed, stunned

### Emotional/Behavioral
- Become irritable
- Become sad or depressed
- More emotional than usual
- Anxious or nervous
- Personality or behavioral changes such as becoming impulsive

### Cognitive
- Trouble thinking clearly
- Trouble concentrating
- Trouble remembering, can’t recall events before or after the hit
- Feel sluggish, hazy, foggy, or groggy
- Feel “slowed down”
- Repeat questions or answer questions more slowly
- Confusion
- Forget routine things

### DANGER SIGNS

If one or more of these symptoms emerges after a hit to the head or body, **IMMEDIATELY** call 911 or get someone to drive you to the nearest emergency room.

- One pupil larger than the other
- Drowsy or cannot wake up
- Headache that gets worse and does not go away
- Slurred speech, weakness, numbness
- Decreased coordination
- Loss of consciousness

- Repeated vomiting or ongoing nausea
- Shaking or twitching (convulsions or seizures)
- Unusual behavior, increased confusion, restlessness, or agitation

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Learn more: concussion.health.ok.gov | 405.271.3430

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