

## DISEASES &amp; CONDITIONS

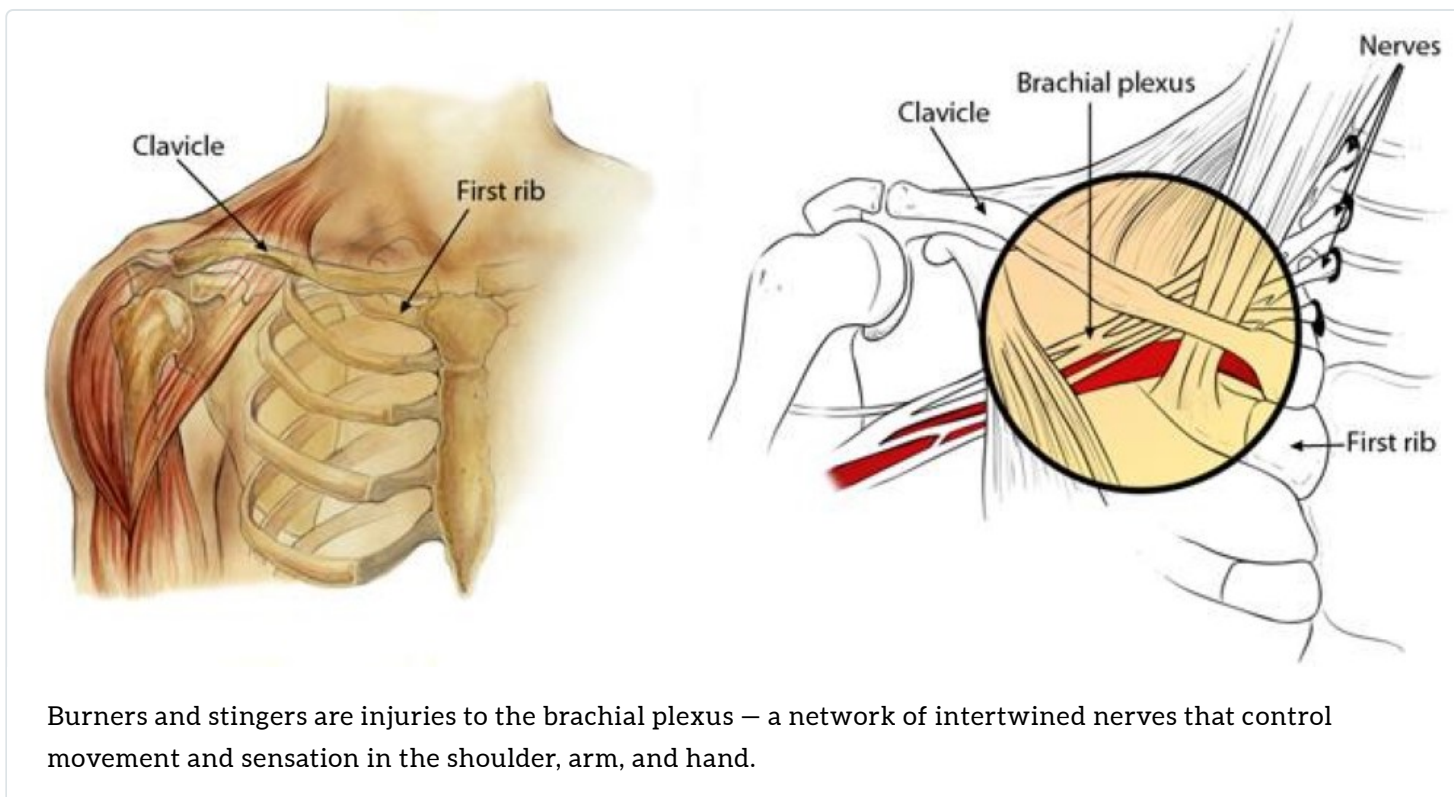
## Burners and Stingers

Burners and stingers are injuries that occur when nerves in the neck and shoulder are stretched or compressed after an impact. These injuries are common in contact or collision sports, and are named for the stinging or burning pain that spreads from the shoulder to the hand. A burner or stinger can feel like an electric shock or lightning bolt down the arm.

In most cases, burners and stingers are temporary and symptoms quickly go away.

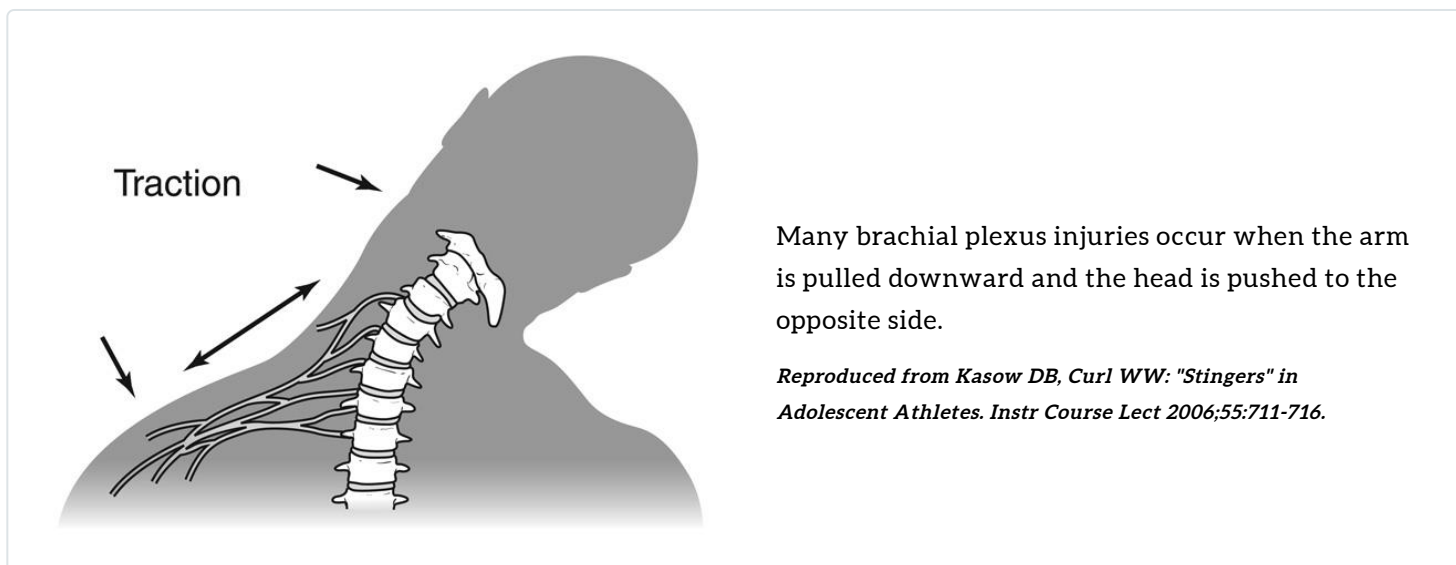
### Anatomy

Nerves are like electrical cables that travel through the spinal canal carrying messages between your brain and muscles. The nerves that provide feeling and movement to the arm branch out of the spinal canal at the neck. They join together to form a larger bundle, or cord, of nerves. This cord is called the brachial plexus. All of the nerve supply to the arm runs through this plexus.



## Cause

An injury to the brachial plexus can cause a burner or stinger. This often happens when the head is forcefully pushed sideways and down. This bends the neck and pinches the surrounding nerves.



## Risk Factors

**Contact sports.** Athletes who engage in contact sports are more likely to suffer a burner or stinger.

These injuries often occur with a fall onto the head, such as in a wrestling takedown or a football tackle. In fact, tackling or blocking in American football is the athletic activity that most often causes burners or stingers. Football defensive players and linemen frequently suffer this injury.

**Spinal stenosis.** In addition to playing contact sports, a small spinal canal may put you at greater risk for a burner or stinger. Athletes with recurrent stingers or burners may have smaller spinal canals than players who do not suffer recurrent injury. This condition is called spinal stenosis.

## Symptoms

Burner and stinger symptoms typically occur in one arm only. They usually last seconds to minutes, but in some cases they can last hours, days, or even longer. The most common symptoms of a burner or stinger include:

- A burning or electric shock sensation
- Arm numbness and weakness immediately following the injury
- A warm sensation

## Doctor Examination

In order to determine whether your injury is a burner or stinger, your doctor will discuss your symptoms and how the injury occurred. Imaging tests, such as x-rays, magnetic resonance imaging (MRI) scans, and nerve studies are not usually needed.

A more extensive examination is needed if you have any of the following symptoms:

- Weakness lasting more than several days
- Neck pain
- Symptoms in both arms
- History of recurrent stingers/burners

## Treatment

Treatment begins by removing the athlete from further injury. Athletes are not allowed to return to sports activity until their symptoms are completely gone. This can take a few minutes or several days. Athletes should never be allowed to return to sports if they have weakness or neck pain.

Although the injury gets better with time, if your symptoms last for several days you may need to work with a trainer or therapist to regain strength and motion.

If you have had recurrent stingers, your doctor may recommend a special neck roll or elevated shoulder pads to wear during sports activities.

Examples of special shoulder pads include "spider pads" worn under the shoulder pads or a "cowboy collar" worn on top of shoulder pads.



Protective padding around the neck, such as a neck roll or cowboy collar, may provide additional stability for players prone to burners and stingers.

### Last Reviewed

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