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Shoulder Instability

Shoulder instability is a common shoulder problem, and regularly seen by therapists, surgeons, sports doctors and emergency clinicians. Its management can be complex and multidisciplinary.

A dislocated shoulder

The shoulder joint is the body's most mobile joint. It can turn in many directions, but this advantage also makes the shoulder an easy joint to dislocate.

A partial dislocation (subluxation) means the head of the upper arm bone (humerus) is partially out of the socket (glenoid). A complete dislocation means it is all the way out of the socket. Both partial and complete dislocations cause pain and unsteadiness in the shoulder.

Symptoms

Symptoms of a dislocated shoulder include:

- Deformity
- Swelling
- Numbness
- Weakness
- Bruising



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Sometimes a dislocation may tear ligaments or tendons in the shoulder or damage nerves.

The shoulder joint can dislocate forward, backward, or downward. A common type of shoulder dislocation is when the shoulder slips forward (anterior instability). This means the upper arm bone moved forward and out of its socket. It may happen when the arm is put in a throwing position.

Treatment

Your doctor will place the ball of the upper arm bone (humerus) back into the joint socket. This process is called a closed reduction. Severe pain stops almost immediately once the shoulder joint is back in place

Rehabilitation

Your doctor may immobilize the shoulder in a sling or other device for several weeks following treatment. Plenty of early rest is needed. The sore area can be iced 3 to 4 times a day.

After the pain and swelling go down, your doctor will prescribe rehabilitation exercises for you. This help restore the shoulder's range of motion and strengthen the muscles. Rehabilitation may also help prevent dislocation of the shoulder again in the future. Rehabilitation will begin with gentle muscle toning exercises. Later, weight training can be added.

If shoulder dislocation becomes a recurrent problem, a brace can sometimes help. However, if therapy and bracing fail, surgery may be needed to repair or tighten the

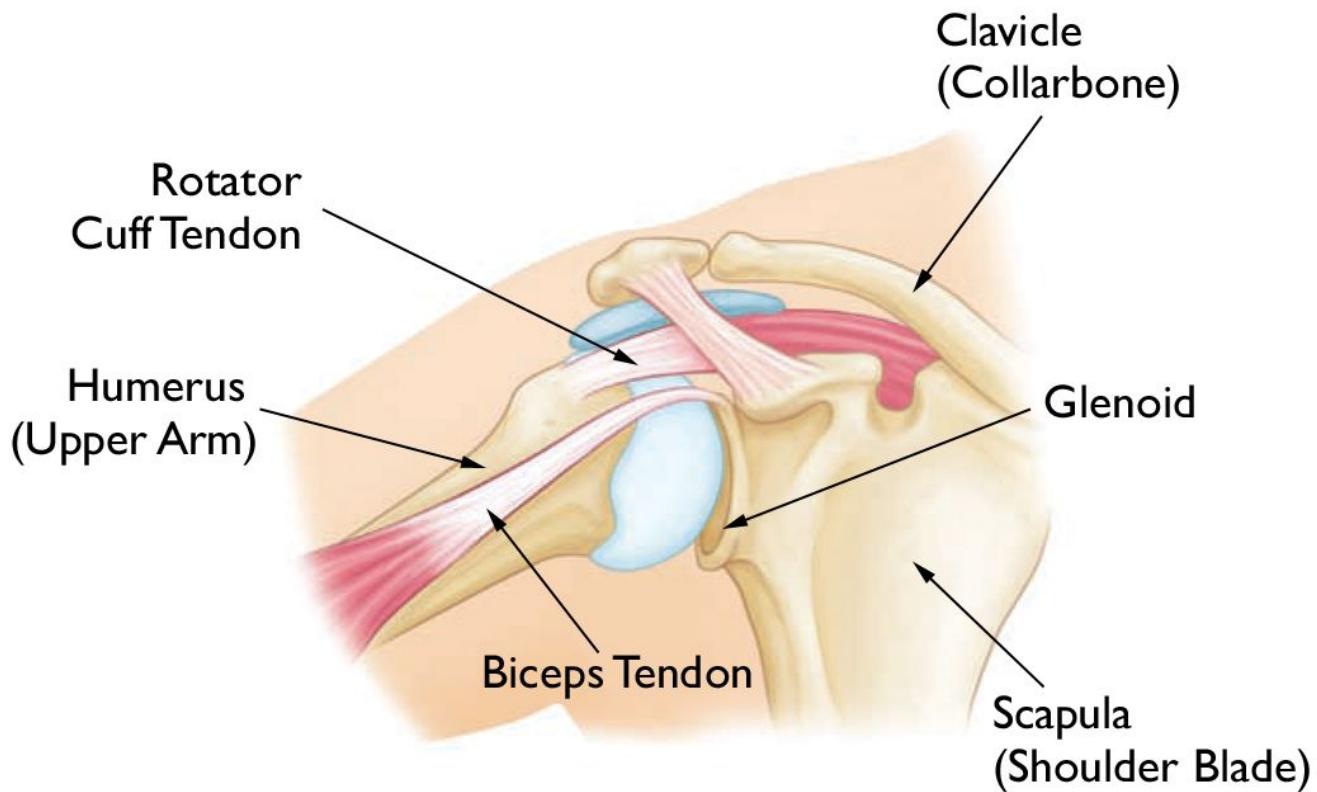


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torn or stretched ligaments that help hold the joint in place, particularly in young athletes.

At times, the recurrently dislocating shoulder can result in some bone damage to the humerus or shoulder socket. If your surgeon identifies some bone damage, he or she may recommend a bone transfer type of surgery.



Chronic Shoulder Instability



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The shoulder is the most moveable joint in your body. It helps you to lift your arm, to rotate it, and to reach up over your head. It is able to turn in many directions. This greater range of motion, however, can cause instability. Shoulder instability occurs when the head of the upper arm bone is forced out of the shoulder socket. This can happen as a result of a sudden injury or from overuse.

Once a shoulder has dislocated, it is vulnerable to repeat episodes. When the shoulder is loose and slips out of place repeatedly, it is called chronic shoulder instability. The head, or ball, of your upper arm bone, fits into a shallow socket in your shoulder blade. This socket is called the glenoid. Strong connective tissue, called the shoulder capsule, is the ligament system of the shoulder and keeps the head of the upper arm bone centred in the glenoid socket. This tissue covers the shoulder joint and attaches the upper end of the arm bone to the shoulder blade. Your shoulder also relies on strong tendons and muscles to keep your shoulder stable.

Description

Shoulder dislocations can be partial, with the ball of the upper arm coming just partially out of the socket. This is called a subluxation. A complete dislocation means the ball comes all the way out of the socket.

Once the ligaments, tendons, and muscles around the shoulder become loose or torn, dislocations can occur repeatedly. Chronic shoulder instability is the persistent inability of these tissues to keep the arm centred in the shoulder socket.

Cause

There are three common ways that a shoulder can become unstable:



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Shoulder Dislocation

Severe injury, or trauma, is often the cause of an initial shoulder dislocation. When the head of the humerus dislocates, the socket bone (glenoid) and the ligaments in the front of the shoulder are often injured. The labrum — the cartilage rim around the edge of the glenoid — may also tear. This is commonly called a Bankart lesion. A severe first dislocation can lead to continued dislocations, giving out, or a feeling of instability.

Repetitive Strain

Some people with shoulder instability have never had a dislocation. Most of these patients have looser ligaments in their shoulders. This increased looseness is sometimes just their normal anatomy. Sometimes, it is the result of repetitive overhead motion.

Swimming, tennis, and volleyball are among the sports requiring repetitive overhead motion that can stretch out the shoulder ligaments. Many jobs also require repetitive overhead work.

Looser ligaments can make it hard to maintain shoulder stability. Repetitive or stressful activities can challenge a weakened shoulder. This can result in a painful, unstable shoulder.

Multidirectional Instability

In a small minority of patients, the shoulder can become unstable without a history of injury or repetitive strain. In such patients, the shoulder may feel loose or dislocate in multiple directions, meaning the ball may dislocate out the front, out the back, or out the



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bottom of the shoulder. This is called multidirectional instability. These patients have naturally loose ligaments throughout the body and maybe "double-jointed."

Symptoms

Common symptoms of chronic shoulder instability include:

- Pain caused by a shoulder injury
- Repeated shoulder dislocations
- Repeated instances of the shoulder giving out
- A persistent sensation of the shoulder feeling loose, slipping in and out of the joint, or just "hanging there"

Imaging Tests

Your doctor may order imaging tests to help confirm your diagnosis and identify any other problems.

X-rays. These pictures will show any injuries to the bones that make up your shoulder joint.

Magnetic resonance imaging (MRI). This provides detailed images of soft tissues. It may help your doctor identify injuries to the ligaments and tendons surrounding your shoulder joint.

Treatment



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Chronic shoulder instability is often first treated with nonsurgical options. If these options do not relieve the pain and instability, surgery may be needed.

Nonsurgical Treatment

Your doctor will develop a treatment plan to relieve your symptoms. It often takes several months of nonsurgical treatment before you can tell how well it is working. Nonsurgical treatment typically includes:

Activity modification. You must make some changes in your lifestyle and avoid activities that aggravate your symptoms.

Non-steroidal anti-inflammatory medication. Drugs like aspirin and ibuprofen reduce pain and swelling.

Physiotherapy. Strengthening shoulder muscles and working on shoulder control can increase stability. Your therapist will design a home exercise program for your shoulder.

Surgical Treatment

Surgery is often necessary to repair torn or stretched ligaments so that they are better able to hold the shoulder joint in place.

Arthroscopy.

Soft tissues in the shoulder can be repaired using tiny instruments and small incisions. This is a same-day or outpatient procedure. Arthroscopy is a minimally invasive surgery. Your surgeon will look inside the shoulder with a tiny camera and perform the surgery with special pencil-thin instruments.



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Open Surgery. Some patients may need an open surgical procedure. This involves making a larger incision over the shoulder and performing the repair under direct visualization.

Rehabilitation. After surgery, your shoulder may be immobilized temporarily with a sling. When the sling is removed, exercises to rehabilitate the ligaments will be started. These will improve the range of motion in your shoulder and prevent scarring as the ligaments heal. Exercises to strengthen your shoulder will gradually be added to your rehabilitation plan.

Bony Block.

Transfer of a bony block; either from the pelvis or through an osteotomy of the coracoid (anterior process of the shoulder Blade). This will enable us to restore stability of the shoulder process.

Be sure to follow your doctor's treatment plan. Although it is a slow process, your commitment to physical therapy is the most important factor in returning to all the activities you enjoy.