

DISEASES & CONDITIONS

Shoulder Separation

A shoulder separation is not truly an injury to the shoulder joint. The injury actually involves the acromioclavicular joint (also called the AC joint). The AC joint is where the collarbone (clavicle) meets the highest point of the shoulder blade (acromion).

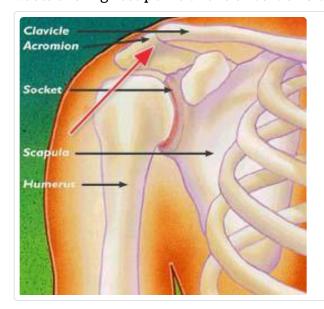
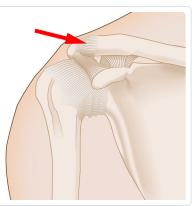


Illustration shows the normal bony anatomy of the shoulder area. The red arrow points to the joint that comes apart in a shoulder separation injury.

Cause

The most common cause for a separation of the AC joint is from a fall directly onto the shoulder. The fall injures the ligaments that surround and stabilize the AC joint.

This figure shows the intact ligaments around the acromioclavicular joint, or AC joint. The red arrow points to the ligaments that are around the joint itself, called the AC ligaments.



If the force is severe enough, the ligaments attaching to the underside of the clavicle are torn. This causes the separation of the collarbone and the shoulder blade. The shoulder blade (scapula) moves downward from the weight of the arm, creating a bump or bulge above the shoulder.

The injury can range from a mild sprain without a bump to a complete disruption with a very large bump. Good pain-free function often returns even with a very large bump.

- A mild shoulder separation involves a sprain of the AC ligaments that does not move the collarbone and looks normal on X-rays.
- A more serious injury tears the AC ligaments and sprains or slightly tears the coracoclavicular (CC) ligament, putting the collarbone out of alignment to some extent with a smaller bump.
- The most severe shoulder separation completely tears both the AC and CC ligaments and puts the AC joint noticeably out of position, with a larger bump.



Doctor Examination

The injury is easy to identify when it causes deformity.

When there is less deformity, the location of pain and X-rays help the doctor make the diagnosis. Sometimes having the patient hold a weight in the hand can increase the deformity, which makes the injury more obvious on X-rays.

Treatment

Nonsurgical Treatment

Nonsurgical treatments, such as a sling, cold packs, and medications can effectively help manage the pain in almost all patients. Rarely, a doctor may use more complicated supports to help lessen AC joint motion and pain.

Most people with this injury — even professional athletes — return to normal function with nonsurgical treatments, even if there is a persistent, significant deformity/bump. Some people have continued pain around the AC joint, even with only a mild deformity. This may be due to:

- Abnormal contact between the bone ends when the joint is in motion
- Development of arthritis
- Injury to the cartilage between the clavicle and acromion

It is often worthwhile to wait and see if reasonable function returns without surgical treatment. Most patients, even with very severe injuries, are often managed effectively without surgery. In fact, recent studies on AC joint injuries have shown that nonsurgical management may be better than surgical management in most types of AC joint injuries.

Surgical Treatment

Surgery can be considered if pain persists or the deformity is severe. A surgeon might recommend trimming back the end of the collarbone so it does not rub against the shoulder blade bone (acromion).

When there is significant deformity, reconstructing the ligaments that attach to the underside of the collarbone is helpful. This type of surgery works well even if it is done long after the problem started. These operations can be done arthroscopically(/en/treatment/shoulder-arthroscopy/) or open, with a plate or without. If a plate is used to assist with the surgery, it is usually removed after healing of the shoulder separation.

Whether treated nonsurgically or with surgery, the shoulder will require rehabilitation to restore and rebuild motion, strength, and flexibility.

Last Reviewed

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