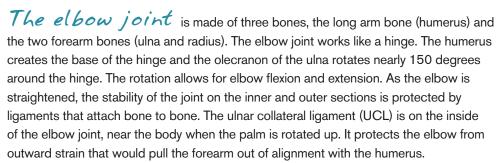


Elbow Conditions: ULNAR COLLATERAL LIGAMENT INJURY







Causes

A traumatic strain to the ulnar collateral ligament is most likely to occur during athletic activities. When a player falls on an outstretched arm that is relatively overhead, the first thing that hits the ground may be the upper forearm.

A repetitive strain to the UCL may be caused by repeated overhead reach while hitting a ball. When the arm is nearly straight at the elbow and the hand hits a ball, it can put specific sprain on the inside of the elbow joint. The ligament may endure light but repetitive strains over a period of time and eventually stretch beyond its normal length. As the ligament stretches, it becomes less supportive of the elbow joint and can lead to arthritis at the elbow joint (because the poor alignment will cause the joint surfaces to rub) or to a full-thickness tear



Risk Factors

Factors that increase your risk of Ulnar Collateral Ligament Injury Include:

- Overhead Athlete
- · Athlete in heavy sports
- · Performs repetitive overhead activities
- Quantity of pitches thrown and form of pitches



Symptoms

Symptoms include:

- Feeling of a snap or pop
- Swelling in the joint
- Smooth glide of the elbow from extension to flexion will be painful and unstable



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Diagnosis

The doctor will ask about your symptoms and medical history. You may also be asked about your recent physical activity. Your visit may also include:

- A valgus stress test
- Musculoskeletal ultrasound
- An MRI or X-Ray



Treatment

Therapy following a non-surgical UCL injury will focus on regaining active range of motion of the elbow, providing education on avoiding additional strain and using progressive strengthening techniques to improve the muscular stability around the joint. Active motion will be dependent on whether there were other injuries to the elbow that might prevent motion at the hinge joint. Education on avoiding additional strain include the use of elbow braces during heavy activity, reducing force against the arm in full weight bearing (as in pushups or bench press), and protecting the elbow during ball play. The therapist will likely begin a strengthening program to the triceps and biceps muscles as well as the rotator cuff muscles in order to protect the elbow and shoulder in overhead activity. It may take 3-6 months to return to sport following a mild to moderate strain.

With a post-surgical UCL injury, the elbow may be casted for 10-12 days. During that time, the therapist will provide education on light exercises to the shoulder and hand to do while the elbow is casted. Therapy will focus on reducing the atrophy of the muscle during casting, often times introducing isometric exercises that can be done inside the cast. The "Tommy John" surgery is a repair of an UCL due to strain or tear caused mainly by pitching activities. Once a UCL repair has been performed, the return to sport may be closer to 16-18 months



Prevention

To prevent an ulnar collateral ligament strain you should perform a progressive stretch and strength program before all sports activities. If you are involved in heavy sports or repetitive activities that will strain the elbow, wear a protective sleeve or brace that gives the UCL support. Seek the attention of a physician or physical therapist when you suspect an injury.

references provided online