



Top Doctors for Top Performers.

Gymnastics Injuries

Each year, more than 86,000 gymnastics-related injuries are treated in hospitals, doctors' offices, clinics and ambulatory surgery centers. Gymnasts must consistently prepare for the rigorous physical and emotional toils that the sport requires. With the complexity of routines, the risk of potential injury increases. Injuries most commonly occur in the ankles, feet, lower back, knees, wrist, and hands, often from overuse or simple stress. Injuries are rarely severe, but if left untreated they can lead to chronic pain and bone fractures.

What Are Some of the Most Common Gymnastics Injuries?

Because the upper body is used as weight-bearing joint in gymnastics, injuries to the shoulder, elbow and wrist are common and may include:

- Superior Labrum, Anterior-Posterior (SLAP) Lesion in the Shoulder

- Elbow Dislocation
- Wrist Sprains

The most common gymnastics injuries to the lower body involve the knee and ankle. Lower extremity injuries usually result from the landing and discount activities and may include:

- Anterior Cruciate Ligament (ACL) Injury
- Achilles Tendon Injury
- Lower Back Injuries

What Are Some Common Injuries and Treatments?

Labral Tears

Labral tears (sometimes called SLAP tears) may occur during any gymnastic exercise, but ring and bar specialists seem particularly vulnerable. It is characterized by pain that initially resolves but tends to recur with return to sport. An MRI can be helpful in establishing a definitive diagnosis.

Wrist Sprains

In gymnastics, the wrist is subjected to force that can exceed twice the body weight. The first step in treating wrist pain is to reduce the training volume of the athlete, relieve symptoms, and to participate in only pain-free

activities. After an injury, gymnasts should avoid extensive pressure on the wrist joint for six weeks. If the gymnast is experiencing pain with non-gymnastic activities of daily living, using a brace or cast to immobilize the wrist temporarily may be helpful.

Anterior Cruciate Ligament (ACL) Injury

ACL injuries can result when gymnast land "short" or is over-rotated while tumbling, dismounting, or vaulting.

A "pop" may be heard or felt followed by knee swelling with hours. MRI is often used to confirm ACL injury. As with other sports, ACL reconstruction is recommended for gymnasts who wish to return to full sports participation.

Achilles Tendon Injury

Gymnasts can suffer from a variety of injuries to the Achilles tendon located just above the back of the heel, as a result of the repetitive stress of jumping and landing. Achilles tendinitis results on calf soreness that is aggravated with jumping and landing. Treatment should initially consist of ultrasound, stretching, activity modification, and calf exercises. Foot immobilization for seven to ten days may be beneficial for severe symptoms.

Foot and Ankle Injuries

Injuries to the foot and ankle are common in gymnastics. Acute injuries are usually sprains which can be a minor or more serious. Swelling, bruising and tenderness directly over the bones are signs of more serious injury. Minor injuries typically have tenderness limited to one side of the joint without significant swelling. Serious injuries require evaluation by a qualified professional while return to participation after a minor injury is often possible within a week if there is no pain (or limping) with weight bearing activity. Protection with taping or a brace can aid recovery and reduce the risk for reinjury. Chronic ankle pain or repeated injuries are worrisome and require evaluation before continuing with participation.

Lower Back Injuries

The cause of low-back pain can include muscle strain, ligament sprain, fracture, and/or disc disorders. Frequently low-back pain will worsen with activity, especially with extension movements, such as arching the shoulders backwards.

Low-back pain in gymnasts related to muscle strain or ligament sprain usually responds to rest and physical therapy exercises. Persistent back pain is uncommon and should not be ignored.

An MRI or bone scan is often helpful to rule out more significant injuries.

How Can Injury Be Prevented?

Many gymnasts' injuries can be prevented by following proper training guidelines, using safety equipment, and incorporating the following tips:

- Wear all required safety gear whenever competing or training-special equipment may include wrist guards, hand grips, footwear, ankle or elbow braces, and pads
- Do not "play through the pain" - if you are hurt, see your doctor and follow instructions for treatment and recovery fully
- Make sure first aid is available at all competitions and practices
- Inspect equipment to ensure that it is in good condition, including padded floors, secured mats under every apparatus, and safety harnesses for learning difficult moves
- Insist on spotters when learning new skills
- Warm up muscles with light aerobic exercise, such as jumping jacks or running in place, before beginning training or new activities