

FOOTBALL INJURIES

John A. Grant, PhD, MD, FRCSC, Dip. Sport Med.

Orthopaedic Surgeon

Specializing in Knee, Shoulder, & Sports Medicine

Tel: 506-648-7725

www.saintjohnortho.com



AOSSM SPORTS TIPS

Football is one of the most popular sports played by young athletes, and it leads all other sports in the number of injuries sustained. In 2007, more than 920,000 athletes under the age of 18 were treated in emergency rooms, doctor's offices, and clinics for football-related injuries, according to the U.S. Product Safety Commission.

WHAT TYPES OF INJURIES DO FOOTBALL PLAYERS ENDURE?

Injuries during football games and practice are some of the most common due to the combination of high speeds and full contact. While overuse injuries can occur, traumatic injuries such as concussions are most common. The force applied to either bringing an opponent to the ground or to resisting being brought to the ground makes football players prone to injury anywhere on their bodies, regardless of protective equipment.

Traumatic

Knee injuries in football are the most common, especially those to the anterior or posterior cruciate ligament (ACL/PCL) and to the menisci (cartilage of the knee). These knee injuries can adversely affect a player's long-term involvement in the sport. Football players also have a higher chance of ankle sprains due to the surfaces played on and cutting motions.

Shoulder injuries are also quite common and the labrum (cartilage bumper surrounding the socket part of the shoulder) is particularly susceptible to injury, especially in offensive and defensive linemen. Injuries to the acromioclavicular joint (ACJ) are also seen in football players and commonly referred to as "shoulder separations".

Concussions

Football players are also very susceptible to concussions. A concussion is a change in mental state due to a traumatic impact. Not all those who suffer a concussion will lose consciousness; however, some signs that a concussion has been sustained are headache, dizziness, nausea, loss of balance, drowsiness, numbness/tingling, difficulty concentrating, and blurry vision.

Overuse

Low back pain, or back pain in general, is a fairly common complaint in football players due to overuse. Overuse can also lead to overtraining syndrome, where a player trains beyond the ability for their body to recover. Patellar tendinitis (knee pain) is a common problem that football players develop and can usually be treated by a quadriceps strengthening program.

Heat Injuries

Heat injuries are a major concern for youth football players, especially at the start of training camp. This usually occurs in August when some of the highest temperatures and humidity of the year occur. Intense physical activity can result in the body becoming depleted of salt and water due to excessive sweating. The earliest symptoms are painful cramping of major muscle groups. However, if not treated with body cooling and fluid replacement, this can progress to heat exhaustion and heat stroke — which can even result in death. It is important for football players to be aware of the need for fluid replacement and to inform medical staff of symptoms of heat injury.

HOW CAN FOOTBALL INJURIES BE PREVENTED?

- Have a pre-season health and wellness evaluation
- Perform proper warm-up and cool-down routines
- Consistently incorporate strength training and stretching
- Hydrate adequately to maintain health and minimize cramps
- Stay active during summer break to prepare for return to sports in the fall
- Wear properly-fitted protective equipment, such as a helmet, pads, and mouthguard
- Tackle with the head up and do not lead with the helmet

Expert Consultant

William N. Levine, MD

Brett D. Owens, MD

Sports Tips are brought to you by the American Orthopaedic Society for Sports Medicine. They provide general information only and are not a substitute for your own good judgement or consultation with a physician. To order multiple copies of this fact sheet or learn more about other orthopaedic sports medicine topics, please visit www.sportsmed.org.



The American Orthopaedic Society for Sports Medicine

Copyright © 2009. American Orthopaedic Society for Sports Medicine. All rights reserved. Multiple copy reproduction prohibited.