OPIOID USE AND MISUSE

Keeping Student-Athletes Safe

School athletics can serve an integral role in students' development. In addition to providing healthy forms of exercise, school athletics foster friendships and camaraderie, promote sportsmanship and fair play, and instill the value of competition.

Unfortunately, sports activities may also lead to injury and, in rare cases, result in pain that is severe or long-lasting enough to require a prescription opioid painkiller. It is important to understand that overdoses from opioids are on the rise and are killing Americans of all ages and backgrounds. Families and communities across the country are coping with the health, emotional and economic effects of this epidemic.²

This educational fact sheet, created by the New Jersey Department of Education as required by state law (*N.J.S.A.* 18A:40-41.10), provides information concerning the use and misuse of opioid drugs in the event that a health care provider prescribes a student-athlete or cheerleader an opioid for a sports-related injury. Student-athletes and cheerleaders participating in an interscholastic sports program (and their parent or guardian, if the student is under age 18) must provide their school district written acknowledgment of their receipt of this fact sheet.

In some cases, student-athletes are prescribed these medications. According to research, about a third of young people studied obtained pills from their own previous prescriptions (i.e., an unfinished prescription used outside of a physician's supervision), and 83 percent of adolescents had unsupervised access to their prescription medications.³ It is important for parents to understand the possible hazard of having unsecured prescription medications in their households. Parents should also understand the importance of proper storage and disposal of medications, even if they believe their child would not engage in non-medical use or diversion of prescription medications.

Whyneigh of thouse he was

According to the National Council on Alcoholism and Drug Dependence, 12 percent of male athletes and 8 percent of female athletes had used prescription opioids in the 12-month period studied.³ In the early stages of abuse, the athlete may exhibit unprovoked nausea and/or vomiting. However, as he or she develops a tolerance to the drug, those signs will diminish. Constipation is not uncommon, but may not be reported. One of the most significant indications of a possible opioid addiction is an athlete's decrease in academic or athletic performance, or a lack of interest in his or her sport. If these warning signs are noticed, best practices call for the student to be referred to the appropriate professional for screening,⁴ such as provided through an evidence-based practice to Identify problematic use, abuse and dependence on illicit drugs (e.g., Screening, Brief Intervention, and Referral to Treatment (SBIRT)) offered through the New Jersey Department of Health.

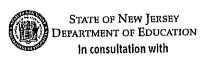
What Are Some Ways Opioid Use and Misuse Can Be Prevented?

According to the New Jersey State Interscholastic Athletic Association (NJSIAA) Sports Medical Advisory Committee chair, John P. Kripsak, D.O., "Studies indicate that about 80 percent of heroin users started out by abusing narcotic painkillers."

The Sports Medical Advisory Committee, which includes representatives of NJSIAA member schools as well as experts in the field of healthcare and medicine, recommends the following:

- The pain from most sports-related injuries can be managed with non-narcotic medications such as acetaminophen, non-steroidal anti-inflammatory medications like ibuprofen, naproxen or aspirin. Read the label carefully and always take the recommended dose, or follow your doctor's instructions. More is not necessarily better when taking an over-the-counter (OTC) pain medication, and it can lead to dangerous side effects.
- Ice therapy can be utilized appropriately as an anesthetic.
- Always discuss with your physician exactly what is being prescribed for pain and request to avoid narcotics.
- In extreme cases, such as severe trauma or post-surgical pain, opioid pain medication should not be prescribed for more than five days at a time;
- Parents or guardians should always control the dispensing of pain medications and keep them in a safe, non-accessible location, and
- Unused medications should be disposed of immediately upon cessation of use. Ask your pharmacist about drop-off locations or home disposal kits like Deterra or Medsaway.

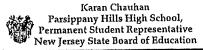
According to NJSIAA Sports
Medical Advisory Committee chair,
John P. Kripsak, D.O., "Studies
indicate that about 80 percent of
heroin users started out by abusing
narcotic painkillers."

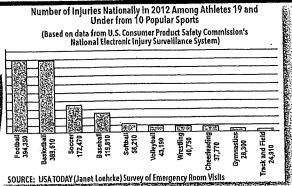


NJ Health

STATE OF NEW JERSEY DEPARTMENT OF HEALTH

NISIAA SPORTS MEDICAL ADVISORY COMMITTEE





Even With Proper Training and Prevention, **Sports Injuries May Occur**

There are two kinds of sports injuries. Acute injuries happen suddenly, such as a sprained ankle or strained back. Chronic injuries may happen after someone plays a sport or exercises over a long period of time, even when applying overuse-preventative techniques.5

Athletes should be encouraged to speak up about injuries, coaches should be supported in injury-prevention decisions, and parents and young athletes are encouraged to become better educated about sports safety.6

What Are Some Ways to Reduce the Risk of Injury?

Half of all sports medicine injuries in children and teens are from overuse. An overuse injury is damage to a bone, muscle, ligament, or tendon caused by repetitive stress without allowing time for the body to heal. Children and teens are at increased risk for overuse injuries because growing bones are less resilient to stress. Also, young athletes may not know that certain symptoms are signs of overuse.

The best way to deal with sports injuries is to keep them from happening in the first place. Here are some recommendations to consider:



PREPARE Obtain the preparticipation physical evaluation prior to participation on a school-sponsored interscholastic or intramural athletic team or squad.



CONDITIONING Maintain a good fitness level during the season and offseason. Also important are proper warm-up and cooldown exercises.



PLAY SMART Try a variety of sports and consider specializing in one sport before late adolescence to help avoid overuse injuries.



ADEQUATE HYDRATION Keep the body hydrated to help the heart more easily pump blood to muscles, which helps muscles work efficiently.



TRAINING Increase weekly training time, mileage or repetitions no more than 10 percent per week. For example, if running 10 miles one week, increase to 11 miles the following week. Athletes should also cross-train and perform sport-specific drills in different ways, such as running in a swimming pool instead of only running on the road.



REST UP Take at least one day off per week from organized activity to recover physically and mentally. Athletes should take a combined three months off per year from a specific sport (may be divided throughout the year in one-month increments). Athletes may remain physically active during rest periods through alternative low-stress activities such as stretching, yoga or walking.



PROPER EQUIPMENT Wear appropriate and properly fitted protective equipment such as pads (neck, shoulder, elbow, chest, knee, and shin), helmets, mouthpieces, face guards, protective cups, and eyewear. Do not assume that protective gear will prevent all injuries while performing more dangerous or risky activities.

Resources for Parents and Students on Preventing Substance Misuse and Abuse

The following list provides some examples of resources:

National Council on Alcoholism and Drug Dependence - NJ promotes addiction treatment and recovery.

New Jersey Department of Health, Division of Mental Health and Addiction Services is committed to providing consumers and families with a wellness and recovery-oriented model of care.

New Jersey Prevention Network includes a parent's quiz on the effects of opioids.

Operation Prevention Parent Toolkit is designed to help parents learn more about the opioid epidemic, recognize warning signs, and open lines of communication with their children and those in the community.

Parent to Parent NJ is a grassroots coalition for families and children struggling with alcohol and drug addiction.

Partnership for a Drug Free New Jersey is New Jersey's anti-drug alliance created to localize and strengthen drug-prevention media efforts to prevent unlawful drug use, especially among young people.

The Science of Addiction: The Stories of Teens shares common misconceptions about opioids through the voices of teens.

Youth IMPACTing NJ is made up of youth representatives from coalitions across the state of New Jersey who have been impacting their communities and peers by spreading the word about the dangers of underage drinking, marijuana use, and other substance misuse.

- References 1 Massachusetts Technical Assistance Partnership for Prevention
 - ² Centers for Disease Control and Prevention New Jersey State Interscholastic Athletic
- Association (NJSIAA) Sports Medical Advisory Committee (SMAC)
- Athletic Management, David Csillan, athletic trainer, Ewing High School, NJSIAA SMAC
- National Institute of Arthritis and Musculoskeletal and Skin Diseases
- LISA TODAY
- ¹ American Academy of Pediatrics

An online version of this fact sheet is available on the New Jersey Department of Education's Alcohol, Tobacco, and Other Drug Use webpage, Updated Jan. 30, 2018.

[The New Jersey Department of Education developed this template Student-Athlete Sign-Off Form in January 2018 to assist schools with adhering to state statute requiring student-athletes (and their parents/guardians, if the student is a minor) to confirm they have received an Opioid Fact Sheet from the school. School districts, approved private schools for students with disabilities, and nonpublic schools that participate in an interscholastic sports or cheerleading program should insert their district or school letterhead here.]

Use and Misuse of Opioid Drugs Fact Sheet

Student-Athlete and Parent/Guardian Sign-Off

In accordance with *N.J.S.A.* 18A:40-41.10, public school districts, approved private schools for students with disabilities, and nonpublic schools participating in an interscholastic sports program must distribute this *Opioid Use and Misuse Educational Fact Sheet* to all student-athletes and cheerleaders. In addition, schools and districts must obtain a signed acknowledgement of receipt of the fact sheet from each student-athlete and cheerleader, and for students under age 18, the parent or guardian must also sign.

This sign-off sheet is due to the appropriate school personnel as determined by your district prior to the first official practice session of the spring 2018 athletic season (March 2, 2018, as determined by the New Jersey State Interscholastic Athletic Association) and annually thereafter prior to the student-athlete's or cheerleader's first official practice of the school year.

Name of School:
Name of School District (if applicable):
/We acknowledge that we received and reviewed the Educational Fact Sheet on the Use and Misuse of Opioid Drugs.
Student Signature:
Parent/Guardian Signature (also needed if student is under age 18):
Date:

¹Does not include athletic clubs or intramural events.

Nebsite Resources

- http://tinyurl.com/m2gjmvq Sudden Death in Athletes
- Hypertrophic Cardiomyopathy Association www.4hcm.org
- American Heart Association www.heart.org

Collaborating Agencies:

3836 Quakerbridge Road, Suite 108 American Academy of Pediatrics New Jersey Chapter

Hamilton, NJ 08619 (p) 609-842-0014

(f) 609-842-0015 www.aapnj.org American Heart Association 1 Union Street, Suite 301 Robbinsville, NJ, 08691

(p) 609-208-0020

New Jersey Department of Education www.heart.org 20 Box 500

frenton, NJ 08625-0500 (p) 609-292-5935

www.state.nj.us/education/

N. Health New Jersey Department of Health Trenton, NJ 08625-0360 (p) 609-292-7837 P. O. Box 360

Lead Author: American Academy of Pediatrics, www.state.nj.us/health

Written by: Initial draft by Sushma Raman Hebbar, MD & Stephen G. Rice, MD PhD New Jersey Chapter

NJ Academy of Family Practice, Pediatric Cardiologists, Additional Reviewers: NJ Department of Education, American Heart Association/New Jersey Chapter, NJ Department of Health and Senior Services, New Jersey State School Nurses

Christene DeWitt-Parker, MSN, CSN, RN; Lakota Kruse, MD, MPH; Susan Martz, EdM; Stephen G. Rice, MD; Jeffrey Rosenberg, MD, Louis Teichholz, MD; Perry Weinstock, MD Revised 2014: Nancy Curry, EdM;

ATHLETES CARDIA DEATH

Sudden Cardiac Death The Basic Facts on in Young Athletes





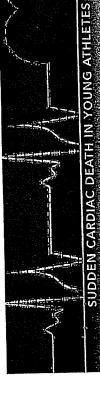
American Academy of Pediatrics DEDICATED TO THE HEALTH OF ALL CHILDREN



other sports; and in African-Americans thar

common: in males than in females;

in football and basketball than in in other races and ethnic groups.



What are the most common causes

udden death in young athletes

between the ages of 10

done to prevent this kind of

tragedy?

What, if anything, can be and 19 is very rare.

by one of several cardiovascular abnormalities roo-LAY-shun). The problem is usually caused ventricular fibrillation (ven- TRICK-you-lar fib-Research suggests that the main cause is a and electrical diseases of the heart that go loss of proper heart rhythm, causing the blood to the brain and body. This is called unnoticed in healthy-appearing athletes. heart to quiver instead of pumping

also called HCM. HCM is a disease of the heart, muscle, which can cause serious heart rhythm The most common cause of sudden death in problems and blockages to blood flow. This (hi-per-TRO-fic CAR- dee-oh-my-OP-a-thee) genetic disease runs in families and usually an athlete is hypertrophic cardiomyopathy with abnormal thickening of the heart develops gradually over many years.

ultimately dies unless normal heart rhythm

collapses, loses consciousness, and

is restored using an automated external

defibrillator (AED).

time) during or immediately after exercise heart function, usually (about 60% of the

result of an unexpected failure of prope

Sudden cardiac death is the

in the young athlete? What is sudden car

pumping adequately, the athlete quickly

without trauma. Since the heart stops

How common is sudden death in young

Sudden cardiac death in young athletes is

The second most likely cause is congenital

(commonly called "coronary artery disease," which may lead to a heart blood vessels are connected to heart in an abnormal way. This differs from blockages that may the main blood vessel of the occur when people get older

arteries. This means that these abnormalities of the coronary (con-JEN-it-al) (i.e., present from birth)

to any individual high school athlete is, The chance of sudden death occurring

about one in 200,000 per year. Sudden cardiac death is more

reported in the United States per year.

very rare. About 100 such deaths are

SUDDEN CARDIAC DEATH IN YOUNG ATHLETES

other diseases or une near une sea meets sudden death in young people include:

■ Myocarditis (my-oh-car-DIE-tis), an acute

inflammation of the heart muscle (usually due to a virus).

• Dilated cardiomyopathy, an enlargement

of the heart for unknown reasons.

once per year. The New Jersey Department of

Education requires use of the specific Preparticipation Physical Examination Form (PPE)

- Long QT syndrome and other electrical abnormalities of the heart which cause abnormal fast heart rhythms that can also run in families.
- Marfan syndrome, an inherited disorder that affects heart valves, walls of major arreries, eyes and the skeleton. It is generally seen in unusually tall athletes, especially if being tall is not common in other family members.

Are there warning signs to watch for?

In more than a third of these sudden cardiac deaths, there were warning signs that were not reported or taken seriously. Warning signs are:

- Fainting, a seizure or convulsions during physical activity;
 Fainting or a seizure from emotional excitement, emotional distress or being
 - startled;

 Dizziness or lightheadedness, especially
- Chest pains, at rest or during exertion;

during exertion;

- Palpitations awareness of the heart beating unusually (skipping, irregular or extra beats) during athletics or during cool down periods after athletic participation;
- Fatigue or tiring more quickly than peers; or
 - Being unable to keep up with friends due to shortness of breath (labored breathing)

for screening young athletes?

The American Paragraph of School athletes to be American examined by their primary care physician ("medical home") or school physician at least

This process begins with the parents and student-athletes answering questions about symptoms during exercise (such as chest pain, dizziness, fainting, palpitations or shortness of breath); and questions about family health history.

The primary healthcare provider needs to know if any family member died suddenly during physical activity or during a seizure. They also need to know if anyone in the family under the age of 50 had any unexplained sudden death such as drowning or car accidents. This information must be provided annually for each exam because it is so essential to identify those at risk for sudden cardiac death.

The required physical exam includes measurement of blood pressure and a careful listening examination of the heart, especially for murmurs and rhythm abnormalities. If there are no warning signs reported on the health history and no abnormalities discovered on exam no further evaluation or testing is recommended.

Are there options privately available to screen for cardiac conditions?

Technology-based screening programs including at 12-lead electrocardiogram (ECG) and echocardiogram (ECHO) are noninvasive and painless options parents may consider in addition to the required

expensive and are not currently advised by the American Academy of Pediatrics and the American College of Cardiology unless the PPE reveals an indication for these tests. In addition to the expense, other limitations of technology-based tests include the possibility of "false positives" which leads to unnecessary stress for the student and parent or guardian as well as unnecessary restriction from athletic participation.

The United States Department of Health and Human Services offers risk assessment options under the Surgeon General's Family History Initiative available at http://www.hhs.gov/familyhistory/index.html.

When should a student athlete see a heart specialist?

If the primary healthcare provider or school physician has concerns, a referral to a child heart specialist, a pediatric cardiologist, is recommended. This specialist will perform a more thorough evaluation, including an electrocardiogram (ECG), which is a graph of the electrical activity of the heart. An echocardiogram, which is an ultrasound test to allow for direct visualization of the heart structure, will likely also be done. The specialist may also order a treadmill exercise test and a monitor to enable a longer recording of the heart rhythm. None of the testing is invasive or uncomfortable.

Can sudden cardiac death be prevented just through proper screening?

A proper evaluation should find most, but not all, conditions that would cause sudden death in the athlete. This is because some diseases are difficult to uncover and may only develop later in life. Others can develop following a

infection of the heart muscle from a virus.

This is whysiceening evaluations and a review of the family health history need to be performed on a yearly basis by the athlete's primary healthcare provider. With proper screening and evaluation, most cases can be identified and prevented.

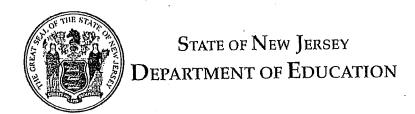
Why have an AED on site during sporting

The only effective treatment for ventricular fibrillation is immediate use of an automated external defibrillator (AED). An AED can restore the heart back into a normal rhythm. An AED is also life-saving for ventricular fibrillation caused by a blow to the chest over the heart (commotic cordis).

N.J.S.A. 18A-40-41a through c, known as "Janet's Law" requires that at any schoolsponsored athletic event or team practice in New Jersey public and nonpublic schools including any of grades K through 12, the following must be available:

- An AED in an unlocked location on school property within a reasonable proximity to the athletic field or gymnasium; and
- A team coach, licensed athletic trainer, or other designated staff member if there is no coach or licensed athletic trainer present, certified in cardiopulmonary resuscitation (CPR) and the use of the AED; or
 - A State-certified emergency services provider or other certified first responder.

The American Academy of Pediatrics recommends the AED should be placed in central location that is accessible and ideally no more than a 1 to 1½ minute walk from any location and that a call is made to activate 911 emergency system while the AED is being retrieved.



Sudden Cardiac Death Pamphlet Sign-Off Sheet

Name of School District:		100,000	
Name of Local School:			
I/We acknowledge that we received and repamphlet.	eviewed the Sud	den Cardiac Death	in Young Athletes
Student Signature:			
Parent or Guardian Signature:			
Date:			



Sports-Related Concussion and Head Injury Fact Sheet and Parent/Guardian Acknowledgement Form

A concussion is a traumatic brain injury that can be caused by a blow to the head or body that disrupts the normal functioning of the brain. This sudden movement can cause the brain to bounce around or twist in the skull, creating chemical changes in the brain and sometimes stretching and damaging brain cells, disrupting the way the brain normally functions. Concussions can cause significant and sustained neuropsychological impairment affecting balance, reading (tracking), problem solving, planning, memory, attention, concentration, and behavior. Concussions can range from mild to severe. Having a concussion increases the risk of sustaining another concussion. Second-impact syndrome may occur when a person sustains a second concussion while still experiencing symptoms of a previous concussion. It can lead to severe impairment and even death.

Requirements addressing sports-related concussions and head injuries for student athletes and cheerleaders

- All school districts, charter, and non-public schools that participate in interscholastic sports are required
 to distribute this educational fact to all student athletes and cheerleaders and obtain a signed
 acknowledgment from each parent/guardian and student-athlete.
- Each school district, charter, and non-public school shall develop a written policy describing the
 prevention and treatment of sports-related concussion and other head injuries sustained by
 interscholastic student-athletes and cheerleaders.
- Any cheerleader or student-athlete who participates in an interscholastic sports program and is
 suspected of sustaining a concussion will be immediately removed from competition or practice. The
 student-athlete will not be allowed to return to competition or practice until they have written
 clearance from a physician trained in concussion treatment and have completed his/her district's
 graduated return-to-play protocol.

Quick Facts

- Most concussions do not involve loss of consciousness.
- You can sustain a concussion even if you do not hit your head.
- A blow elsewhere on the body can transmit an "impulsive" force to the brain and cause a concussion.
- Signs and symptoms of concussion can show up right after an injury or may not appear or be noticed until hours or days after the injury.

Signs of Concussions (Observed by Coach, Athletic Trainer, Parent/Guardian/Caregiver, Teammate, and others)

- Appears dazed or sturined
- Forgets plays or demonstrates short term memory difficulties (e.g., unsure of game, opponent)
- Exhibits difficulties with balance, coordination, concentration, and attention

- Answers questions slowly or inaccurately
- Is unable to recall events prior to or after the hit or fall

Symptoms of Concussion (Reported by Student-Athlete)

- Headache
- Nausea/vomiting
- Balance problems or dizziness
- Double vision or changes in vision trouble reading
- Sensitivity to light/sound
- · Feeling of sluggishness or fogginess fatigue
- Difficulty with concentration, short term memory, and/or confusion

Dangerous Signs & Symptoms of a Concussion

- New onset of symptoms
- One pupil is larger than the other
- Drowsiness or inability to wake up
- A headache that gets worse and does not go away
- Slurred speech, weakness, numbness, or decreased coordination
- Repeated vomiting, nausea, or seizures (shaking or twitching)
- Unusual behavior, increased confusion, restlessness, or agitation
- Loss of consciousness (passed out/knocked out); even a brief loss of consciousness should be taken seriously.

What should a student-athlete do if they think they have a concussion?

- Do not hide it. Tell your athletic trainer, coach, school nurse, or parent/guardian.
- Report it. Do not return to competition or practice with symptoms of a concussion or head injury.
- Take time to recover. If you have a concussion, your brain needs time to heal. While your brain is healing
 you are much more likely to sustain a second concussion.

What can happen if a student-athlete continues to play with a concussion or returns to play to soon?

- Continuing to play with the signs and symptoms of a concussion leaves the student-athlete vulnerable to second impact syndrome.
- Second impact syndrome is when a student-athlete sustains a second concussion while still having symptoms from a previous concussion or head injury.
- Second impact syndrome can lead to severe impairment and even death in extreme cases.

Should there be any temporary academic accommodation made for student-athletes who have suffered a concussion?

- Most students will only need help through informal, academic adjustments as they recover from a concussion.
- Students may need to take rest breaks, spend fewer hours at school, be given extra time to complete assignments, as well as being offered other instructional strategies and classroom accommodations
- Contact the school nurse if symptoms persist to discuss whether additional accommodations are

necessary.

• To recover, cognitive rest is just as important as physical rest. Reading, texting, computer use and even watching movies can slow down recovery. Limit screen time during recovery.

Students who have sustained a concussion may not return to practice or competition until they receive written clearance from a physician trained in the evaluation and management of concussion and complete the graduated <u>Six-step return to play protocol outlined by the CDC</u>:

Step 1: Back to regular activities (such as school)

Athletes or cheerleaders are back to their regular activities (such as school).

Step 2: Light aerobic activity

Begin with light aerobic exercise only to increase an athlete's heart rate. This means about 5 to 10 minutes on an exercise bike, walking, or light jogging. No weightlifting at this point.

Step 3: Moderate activity

Continue with activities to increase an athlete's heart rate with body or head movement. This includes moderate jogging, brief running, moderate-intensity stationary biking, moderate-intensity weightlifting (less time and/or less weight from their typical routine).

Step 4: Heavy, non-contact activity

Add heavy non-contact physical activity, such as sprinting/running, high-intensity stationary biking, regular weightlifting routine, non-contact sport-specific drills (in 3 planes of movement).

Step 5: Practice & full contact

Athletes may return to practice and full contact (if appropriate for the sport) in controlled practice.

Step 6: Competition

Young athletes may return to competition.

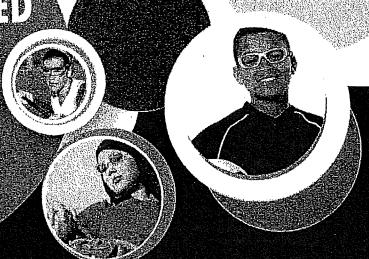
For further information on Sports-Related Concussions and other Head Injuries, please visit:

- CDC Heads Up
- Keeping Heads Healthy

Student athlete's name (print)	Student athlete's signature	Date	,
Parent / Guardian name (print)	Parent / Guardian signature	Date	

SPORSIA MAD HAMMAX

W PHENIONA THE BENT DISTRICTION



Participating in sports and recreational activities is an important part of a healthy, physically active lifestyle for children. Unfortunately, injuries can, and do, occur. Children are at particular risk for sustaining a sports-related eye injury and most of these injuries can be prevented. Every year, more than 30,000 children sustain serious sports-related eye injuries. Every 13 minutes, an emergency room in the United States treats a sports-related eye injury.1 According to the National Eye Institute, the sports with the highest rate of eye injuries are: baseball/softball, ice hockey, racquet sports, and basketball, followed by fencing, lacrosse, paintball and boxing.

Thankfully, there are steps that parents can take to ensure their children's safety on the field, the court, or wherever they play or participate in sports and recreational activities.

Prevention of and record Wallion av

Approximately 90% of sports-related eye injuries can be prevented with simple precautions, such as using protective eyewear.2 Each sport has a certain type of recommended protective eyewear, as determined by the American Society for Testing and Materials (ASTM). Protective eyewear should sit comfortably on the face. Poorly fitted equipment may be uncomfortable, and may not offer the best eye protection. Protective eyewear for sports includes, among other things, safety goggles and eye guards, and it should be made of polycarbonate lenses, a strong, shatterproof plastic. Polycarbonate lenses are much stronger than regular lenses.3

Health care providers (HCP); including family physicians, ophthalmologists, optometrists, and others, play a critical role in advising students, parents and guardians about the proper use of protective eyewear. To find out what kind of eye protection is recommended, and permitted for your child's sport, visit the National Eye Institute at http://www.nei.nih.gov/sports/findingprotection.asp. Prevent Blindness America also offers tips for choosing and buying protective eyewear at http://www.preventblindness.org/tips buying-sports-eye-protectors, and http://www.preventblindness.org/recommended-sports-eye-protectors.

It is recommended that all children participating in school sports or recreational sports wear protective eyewear. Parents and coaches need to make sure young athletes protect their eyes, and properly gear up for the game. Protective eyewear should be part of any uniform to help reduce the occurrence of sports-related eye injuries. Since many youth teams do not require eye protection, parents may need to ensure that their children wear safety glasses or goggles whenever they play sports. Parents can set a good example by wearing protective eyewear when they play sports

National Eye Institute, National Eye Health Education Program, Sports-Related Eye Injuries: What You Need to Know and Tips for Prevention, www.nei.nih.gov/sports/pdf/sportsrelatedeyeInjuries.pdf, December 26, 2013.

www.niemmingov/sports/pairsports/cated-sinjunco-pair December 2016.

Rodriguez, Jorge O., D.O., and Lavina, Adrian M., M.D., Prevention and Treatment of Common Eye Injuries in Sports, http://www.aafp.org/afp/2003/0401/p1481.html, September 4, 2014; National Eye Health Education Program, Sports-Related Eye Injuries: What You Need to Know and Tips for Prevention, www.nei.nih.gov/sports/pdf/sportsrelatedeyelnjuries.pdf, December 26, 2013.

Bedinghaus, Troy, O.D., Sports Eye Injuries, http://vision.about.com/od/emergencyeyecare/a/Sports_Injuries.htm, December 27, 2013.

Most Common
Types of Eye
Injuries

The most common types of eye injuries that can result from sports injuries are blunt injuries, corneal abrasions and penetrating injuries.

- ◆ Blunt injuries: Blunt injuries occur when the eye is suddenly compressed by impact from an object. Blunt injuries, often caused by tennis balls, racquets, fists or elbows, sometimes cause a black eye or hyphema (bleeding in front of the eye). More serious blunt injuries often break bones near the eye, and may sometimes seriously damage important eye structures and/or lead to vision loss.
- ◆ Corneal abrasions: Corneal abrasions are painful scrapes on the outside of the eye, or the cornea. Most corneal abrasions eventually heal on their

own, but a doctor can best assess the extent of the abrasion, and may prescribe medication to help control the pain. The most common cause of a sports-related corneal abrasion is being poked in the eye by a finger.

- ◆ Penetrating injuries: Penetrating injuries are caused by a foreign object piercing the eye. Penetrating injuries are very serious, and often result in severe damage to the eye. These injuries often occur when eyeglasses break while they are being worn. Penetrating injuries must be treated quickly in order to preserve vision.⁴
- Pain when looking up and/or adown, or difficulty/seeing);
- Tendernes
- Sunken eye
- Double vision
- Severe eyelid and facial swelling;
- Difficulty tracking;

Signs or Symptoms of an Eye Injury



- ◆ The eye has an unusual puol size ar shane!
- O Blood in the deat part of the eve
- O Mundoness of the upper cheek and girin; end/or
- Severe redness around the white part of the reye.

What to do if a Sports-Related Eye Injury Occurs If a child sustains an eye injury, it is recommended that he/she receive immediate treatment from a licensed HCP (e.g., eye doctor) to reduce the risk of serious damage, including blindness. It is also recommended that the child, along with his/her parent or guardian, seek guidance from the HCP regarding the appropriate amount of time to wait before returning to sports competition or practice after sustaining an eye injury. The school nurse and the child's teachers should also be notified when a child sustains an eye injury. A parent or guardian should also provide the school nurse with a physician's note detailing the nature of the eye injury, any diagnosis, medical orders for

the return to school, as well as any prescription(s) and/or treatment(s) necessary to promote healing, and the safe resumption of normal activities, including sports and recreational activities.

Return to Play and Sports According to the American Family Physician Journal, there are several guidelines that should be followed when students return to play after sustaining an eye injury. For

example, students who have sustained significant ocular injury should receive a full examination and clearance by an ophthalmologist or optometrist. In addition, students should not return to play until the period of time recommended by their HCP has elapsed. For more minor eye injuries, the athletic trainer may determine that

it is safe for a student to resume play based on the nature of the injury, and how the student feels. No matter what degree of eye injury is sustained, it is recommended that

students wear protective eyewear when returning to play and immediately report any concerns with their vision to their coach and/or the athletic trainer.

Additional information on eye safety can be found at http://isee.nei.nih.gov and http://www.nei.nih.gov/sports.