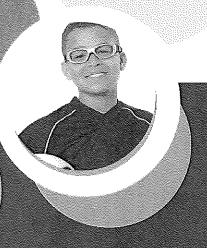
SPORTS-RELATED

AN EDUCATIONAL FACT SHEET FOR PARENTS





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 Sports-Related Eve Injuries

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.

¹ 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.

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.

³ 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 down, or difficulty seeing;
- Tenderness;
- Sunken eye;
- Double vision;
- Severe eyelid and facial swelling;
- Difficulty tracking;

Signs or Symptoms of an Eye Injury



- The eye has an unusual pupil size or shape;
- Blood in the clear part of the eye;
- Numbness of the upper cheek and gum; and/or
- Severe redness around the white part of the eye.

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.

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

Return to Play and Sports

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.

Website Resources

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

Collaborating Agencies:

New Jersey Chapter American Academy of Pediatrics

gro.indee.www f) 609-842-0015 (p) 609-842-0014 Hamilton, NJ 08619 3836 Quakerbridge Road, Suite 108



American Heart Association
1 Union Street, Suite 301

www.heart.org Robbinsville, NJ, 08691 (p) 609-208-0020

PO Box 500 New Jersey Department of Education

www.state.nj.us/education/ Trenton, NJ 08625-0500 (p) 609-292-5935



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

New Jersey Chapter www.state.nj.us/health



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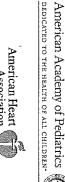
American Heart Association/New Jersey Chapter, NJ Academy of Family Practice, Pediatric Cardiologists, New Jersey State School Nurses NJ Department of Health and Senior Services, !dditional Reviewers: NJ Department of Education,

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

in Young Athletes Success Cardiac Death The Basic Facts on







Learn and Live

Association

udden death in young athletes between the ages of SUDDEN CARDIAC DEATH IN YOUNG ATHLETES What are the most common causes?

What is sudden cardiac death tragedyi done to prevent this kind of What, if anything, can be and 19 is very rare.

in the young athlete?

defibrillator (AED). is restored using an automated external ultimately dies unless normal heart rhythm collapses, loses consciousness, and pumping adequately, the athlete quickly without trauma. Since the heart stops time) during or immediately after exercise Sudden cardiac death is the heart function, usually (about 60% of the result of an unexpected failure of proper

How common is sudden death in young

The second most likely cause is congenital

about one in 200,000 per year. to any individual high school athlete is reported in the United States per year. very rare. About 100 such deaths are Sudden cardiac death in young athletes is The chance of sudden death occurring

in other races and ethnic groups. other sports; and in African-Americans than in football and basketball than in common: in males than in females; Sudden cardiac death is more

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

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

(con-JEN-it-al) (i.e., present from birth) disease," which may lead to a heart abnormalities of the coronary (commonly called "coronary artery occur when people get older differs from blockages that may heart in an abnormal way. This the main blood vessel of the blood vessels are connected to arteries. This means that these

sudden death in young people include: Other diseases of the heart that can lead to

- Myocarditis (my-oh-car-DIE-tis), an acute due to a virus). inflammation of the heart muscle (usually
- Dilated cardiomyopathy, an enlargement of the heart for unknown reasons.
- Long QT syndrome and other electrical run in families. abnormal fast heart rhythms that can also abnormalities of the heart which cause
- Marfan syndrome, an inherited disorder generally seen in unusually tall athletes, arteries, eyes and the skeleton. It is other family members. especially if being tall is not common in that affects heart valves, walls of major

Are there warning signs to watch for?

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

- Fainting, a seizure or convulsions during physical activity;
- Fainting or a seizure from emotional excitement, emotional distress or being
- Dizziness or lightheadedness, especially during exertion;
- Chest pains, at rest or during exertion;
- Palpitations awareness of the heart extra beats) during athletics or during cool down periods after athletic participation; beating unusually (skipping, irregular or
- Fatigue or tiring more quickly than peers; or
- Being unable to keep up with friends due to shortness of breath (labored breathing)

What are the current recommendations SUDDEN CARDIAC DEATH IN YOUNG ATHLETES

ticipation Physical Examination Form (PPE). Education requires use of the specific Preparonce per year. The New Jersey Department of ("medical home") or school physician at least examined by their primary care physician New Jersey requires all school athletes to be

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

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

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

sereen fo*r c*ardiac conditions? Are there options privately available to

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

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

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

heart specialist? When should a student athlete see a

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

Can sudden cardiac death be prevented ius (through proper screening)

later in life. Others can develop following a are difficult to uncover and may only develop in the athlete. This is because some diseases all, conditions that would cause sudden death A proper evaluation should find most, but no

> infection of the heart muscle from a virus normal screening evaluation, such as an

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

Why have an AED on site during sporting

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

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

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

central location that is accessible and ideally emergency system while the AED is being no more than a 1 to $1^{1}/_{2}$ minute walk from any recommends the AED should be placed in ocation and that a call is made to activate 91 The American Academy of Pediatrics



Sudden Cardiac Death Pamphlet Sign-Off Sheet

| Name of School District: |
|---|
| Name of Local School: |
| I/We acknowledge that we received and reviewed the Sudden Cardiac Death in Young Athletes pamphlet. |
| Student Signature: |
| Parent or Guardian Signature: |
| Date: |

OPIOID USE AND MISUSE EDUCATIONAL FACT SHEET

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.

Phyddoglingspilleding and the control of the contro

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.

Micielantinica delicitatica

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, 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.

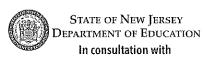
What Are Some Ways Opioid Use and Misuse Can Be Prevented?

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, nonsteroidal 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.

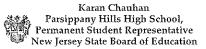
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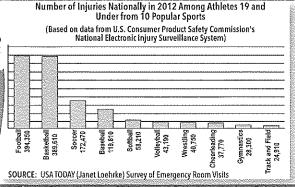




STATE OF NEW JERSEY DEPARTMENT OF HEALTH

NISIAA SPORTS MEDICAL ADVISORY COMMITTEE





Even With Proper Training and Prevention, Sports Injuries May Occur

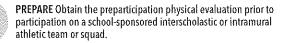
There are two kinds of sports injuries. Acute injuries happen suddenly, such as a sprained ankle or strained back. Chronic injuries may happen after someone plays a sport or exercises over a long period of time, even when applying overuse-preventative techniques.5

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?

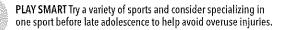
Half of all sports medicine injuries in children and teens are from overuse. An overuse injury is damage to a bone, muscle, ligament, or tendon caused by repetitive stress without allowing time for the body to heal. Children and teens are at increased risk for overuse injuries because growing bones are 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:



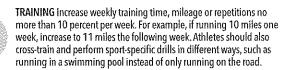


CONDITIONING Maintain a good fitness level during the season and offseason. Also important are proper warm-up and cooldown exercises.





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





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
 - 3 New Jersey State Interscholastic Athletic
- Association (NJSIAA) Sports Medical Advisory Committee (SMAC)
- 4 Athletic Management, David Csillan, athletic trainer, Ewing High School, NJSIAA SMAC
- 5 National Institute of Arthritis and Musculoskeletal and Skin Diseases
- USA TODAY
- 7 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.

| 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): |
| I/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.

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

A concussion is a brain injury that can be caused by a blow to the head or body that disrupts normal functioning of the brain. Concussions are a type of Traumatic Brain Injury (TBI), which can range from mild to severe and can disrupt the way the brain normally functions. Concussions can cause significant and sustained neuropsychological impairment affecting problem solving, planning, memory, attention, concentration, and behavior.

The Centers for Disease Control and Prevention estimates that 300,000 concussions are sustained during sports related activities nationwide, and more than 62,000 concussions are sustained each year in high school contact sports. Second-impact syndrome occurs when a person sustains a second concussion while still experiencing symptoms of a previous concussion. It can lead to severe impairment and even death of the victim.

Legislation (P.L. 2010, Chapter 94) signed on December 7, 2010, mandated measures to be taken in order to ensure the safety of K-12 student-athletes involved in interscholastic sports in New Jersey. It is imperative that athletes, coaches, and parent/guardians are educated about the nature and treatment of sports related concussions and other head injuries. The legislation states that:

- All Coaches, Athletic Trainers, School Nurses, and School/Team Physicians shall complete an Interscholastic Head Injury Safety Training Program by the 2011-2012 school year.
- All school districts, charter, and non-public schools that participate in interscholastic sports will distribute
 annually this educational fact to all student athletes and obtain a signed acknowledgement 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.
- Any 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 he/she has written clearance from a physician trained in
 concussion treatment and has 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 of Concussions (Observed by Coach, Athletic Trainer, Parent/Guardian)

- Appears dazed or stunned
- 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
- Demonstrates behavior or personality changes
- 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

- Sensitivity to light/sound
- Feeling of sluggishness or fogginess
- Difficulty with concentration, short term memory, and/or confusion

What Should a Student-Athlete do if they think they have a concussion?

- Don't hide it. Tell your Athletic Trainer, Coach, School Nurse, or Parent/Guardian.
- Report it. Don't return to competition or practice with symptoms of a concussion or head injury. The sooner you report it, the sooner you may return-to-play.
- 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. Repeat concussions can cause permanent brain injury.

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 accommodations made for Student-Athletes who have suffered a concussion?

- To recover cognitive rest is just as important as physical rest. Reading, texting, testing-even watching
 movies can slow down a student-athletes recovery.
- Stay home from school with minimal mental and social stimulation until all symptoms have resolved.
- 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.

Student-Athletes who have sustained a concussion should complete a graduated return-to-play before they may resume competition or practice, according to the following protocol:

- Step 1: Completion of a full day of normal cognitive activities (school day, studying for tests, watching practice, interacting with peers) without reemergence of any signs or symptoms. If no return of symptoms, next day advance.
- Step 2: Light Aerobic exercise, which includes walking, swimming, and stationary cycling, keeping the intensity below 70% maximum heart rate. No resistance training. The objective of this step is increased heart rate.
- Step 3: Sport-specific exercise including skating, and/or running: no head impact activities. The objective
 of this step is to add movement.
- Step 4: Non-contact training drills (e.g. passing drills). Student-athlete may initiate resistance training.
- Step 5: Following medical clearance (consultation between school health care personnel and studentathlete's physician), participation in normal training activities. The objective of this step is to restore confidence and assess functional skills by coaching and medical staff.
- Step 6: Return to play involving normal exertion or game activity.

| For further information on Sports-Related Conc www.cdc.gov/concussion/sports/index.html www.nfhs.com www.ncaa.org/health-safety | sussions and other Head Injuries, please visit: www.bianj.org www.atsnj.org | |
|---|---|------|
| Signature of Student-Athlete | Print Student-Athlete's Name | Date |
| Signature of Parent/Guardian | Print Parent/Guardian's Name | Date |