

Edward Slattery, Principal

P: (201) 418-7619

F: (201) 792-3013

DR. RONALD E. MCNAIR ACADEMIC HIGH SCHOOL

123 Coles Street Jersey City, New Jersey 07302

NJ Monthly Magazine Ranked Top 2% U.S. News & World Report Ranked 43rd

Newsweek Ranked Top 6% Alice Barone, Vice-Principal P: (201) 878-4804

Instructions for Sports Physicals

Parent/Guardian must complete and sign the history form. Please answer all questions. Student must sign the form as well.

Parent/Guardian must complete and sign the supplemental form. Student must sign as well.

Physician must complete, sign and stamp the physical examination form Please do not forget to document vision, blood pressure and pulse.

If your child has asthma, your physician must complete the asthma treatment plan.

The parent and student must sign the consent forms for permission to play. random drug screening and concussion education acknowledgement.

Please sign the parent/guardian acknowledgement form for Sudden Cardiac Death and retain the brochure for your records.

Any incomplete forms will be returned

Return all completed physicals to the Athletic Trainer AFTER SCHOOL in room B5.

ATTENTION PARENT/GUARDIAN: The preparticiaption physical examination (page 3) must be completed by a health care provider who has completed the Student-Athlete Cardiac Assessment Professional Development Module.

PREPARTICIPATION PHYSICAL EVALUATION

HISTORY FORM

ne				Date of birth	-
				Sport(s)	
edicines and Allergies: Ple	ase list all of the prescription and or	er-the-co	unter n	nedicines and supplements (herbal and nutritional) that you are current	iy taking
1.1				1	
you have any allergies?	☐ Yes ☐ No. If yes, please in	dentify sp	ecific a	llergy below.	
Medicines		1 (1)		☐ Food ☐ Stinging Insects	
lain "Yes" answers below. C	ircle questions you don't know the	answers t	o.		
NERAL QUESTIONS	Activities of the second second second	Yes	No	MEDICAL QUESTIONS	Yes
Has a doctor ever denied or res	stricted your participation in sports for			26. Do you cough, wheeze, or have difficulty breathing during or after exercise?	
any reason?	cal conditions? If so, please identify	-	-	27. Have you ever used an inhaler or taken asthma medicine?	1
	nia Diabetes Infections			28. Is there anyone in your family who has asthma?	
Other:		7.		29. Were you born without or are you missing a kidney, an eye, a testicle	
Have you ever spent the night	in the hospital?	-		(males), your spieen, or any other organ?	-
Have you ever had surgery?	UT VAIL	Yes	No	30. Do you have groin pain or a painful bulge or hernia in the groin area? 31. Have you had infectious mononucleosis (mono) within the last month?	-
ART HEALTH QUESTIONS ABO		103	MO	32. Do you have any rashes, pressure sores, or other skin problems?	-
Have you ever passed out or no AFTER exercise?	early passed out Doning of			33. Have you had a herpes or MRSA skin infection?	
Have you ever had discomfort,	pain, tightness, or pressure in your			34. Have you ever had a head injury or concussion?	
chest during exercise?	N. L. D. Commission and Advise assessed		-	35. Have you ever had a hit or blow to the head that caused confusion,	
	kip beats (irregular beats) during exercise you have any heart problems? If so,	-	_	prolonged headache, or memory problems?	
check all that apply:	you have any near production in so,		1-1	36. Do you have a history of seizure disorder? 37. Do you have headaches with exercise?	-
High blood pressure	☐ A heart murmur ☐ A heart infection			38. Have you ever had numbness, tingling, or weakness in your arms or	\vdash
☐ High cholesterol ☐ Kawasaki disease	Other:			legs after being hit or falling?	
	st for your heart? (For example, ECG/EKG,			39. Have you ever been unable to move your arms or legs after being hit or falling?	L
echocardiogram)		-		40. Have you ever become ill while exercising in the heat?	
during exercise?	more short of breath than expected	-		41. Do you get frequent muscle cramps when exercising?	
. Have you ever had an unexplai	ned seizure?			42. Do you or someone in your family have sickle cell trait or disease?	
	of breath more quickly than your friends			43. Have you had any problems with your eyes or vision?	
during exercise? EART HEALTH QUESTIONS ABO	UT YOUR FAMILY	Yes	No	44. Have you had any eye injuries?	
	tive died of heart problems or had an			45. Do you wear glasses or contact lenses?	
	iden death before age 50 (including			46. Do you wear protective eyewear, such as goggles or a face shield? 47. Do you worry about your weight?	
	ident, or sudden infant death syndrome)? ve hypertrophic cardiomyopathy, Marfan	1		48. Are you trying to or has anyone recommended that you gain or	
	nt ventricular cardiomyopathy, long QT Brugada syndrome, or catecholaminergic			lose weight?	
polymorphic ventricular tachyo				49. Are you on a special diet or do you avoid certain types of foods? 50. Have you ever had an eating disorder?	-
	ve a heart problem, pacemaker, or			51. Do you have any concerns that you would like to discuss with a doctor?	
implanted defibrillator?	unexplained fainting, unexplained	-		FEMALES ONLY	
seizures, or near drowning?	unexplained lainting, unexplained		- 1	52. Have you ever had a menstrual period?	
NE AND JOINT QUESTIONS		Yes	No	53. How old were you when you had your first menstrual period?	
. Have you ever had an injury to that caused you to miss a prac	a bone, muscle, ligament, or tendon tice or a game?			54. How many periods have you had in the last 12 months?	
	or fractured bones or dislocated joints?		-	Explain "yes" answers here	
	at required x-rays, MRI, CT scan,				
injections, therapy, a brace, a c			-		
Have you ever had a stress fra	cture? ou have or have you had an x-ray for neck				
	ility? (Down syndrome or dwarfism)				
	rthotics, or other assistive device?				-
. Do you have a bone, muscle, o					-
	ainful, swollen, feel warm, or look red?		1	·	
	enile arthritis or connective tissue disease				
		the ches	In miles	tions are complete and correct.	

New Jersey Department of Education 2014; Pursuant to P.L.2013, c.71

NOTE: The preparticiaption physical examination must be conducted by a health care provider who 1) is a licensed physician, advanced practician nurse, or physician assistant; and 2) completed the Student-Athlete Cardiac Assessment Professional Development Module.

PREPARTICIPATION PHYSICAL EVALUATION

PHYSICAL EXAMINATION FORM

Date of birth **PHYSICIAN REMINDERS** 1. Consider additional questions on more sensitive issues Do you feel stressed out or under a lot of pressure? Do you ever feel sad, hopeless, depressed, or anxious? Do you feel safe at your home or residence? * Have you ever tried cigarettes, chewing tobacco, snuff, or dip? During the past 30 days, did you use chewing tobacco, snuff, or dip? Do you drink alcohol or use any other drugs? Have you ever taken anabolic steroids or used any other performance supplement? Have you ever taken any supplements to help you gain or lose weight or improve your performance? Do you wear a seat belt, use a helmet, and use condoms? 2. Consider reviewing questions on cardiovascular symptoms (questions 5-14). EXAMINATION Height Weight ☐ Male ☐ Female Corrected ☐ Y ☐ N Vision R 20/ RP Pulse 1 20/ **ABNORMAL FINDINGS** MEDICAL · Marfan stigmata (kyphoscoliosis, high-arched palate, pectus excavatum, arachnodactyly, arm span > height, hyperlaxity, myopia, MVP, aortic insufficiency) Eyes/ears/nose/throat Pupils equal Hearing Lymph nodes Heart* Murmurs (auscultation standing, supine, +/- Valsalva) · Location of point of maximal impulse (PMI) · Simultaneous femoral and radial pulses Lungs Genitourinary (males only)^b HSV, lesions suggestive of MRSA, tinea corporis Neurologic ^c MUSCULOSKELETAL Neck Back Shoulder/arm Elbow/forearm Wrist/hand/fingers Hip/thigh Knee Leg/ankle Foot/toes Functional · Duck-walk, single leg hop *Consider ECG, echocardiogram, and referral to cardiology for abnormal cardiac history or exam.

*Consider GU exam if in private setting. Having third party present is recommended.

*Consider cognitive evaluation or baseline neuropsychiatric testing if a history of significant concussion. Cleared for all sports without restriction ☐ Cleared for all sports without restriction with recommendations for further evaluation or treatment for ☐ Not cleared Pending further evaluation □ For any sports ☐ For certain sports: _ Reason Recommendations I have examined the above-named student and completed the preparticipation physical evaluation. The athlete does not present apparent clinical contraindications to practice and participate in the sport(s) as outlined above. A copy of the physical exam is on record in my office and can be made available to the school at the request of the parents. If conditions arise after the athlete has been cleared for participation, a physician may rescind the clearance until the problem is resolved and the potential consequences are completely explained to the athlete (and parents/guardians).

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Address

Signature of physician, APN, PA_

Name of physician, advanced practice nurse (APN), physician assistant (PA) (print/type)_

PREPARTICIPATION PHYSICAL EVALUATION CLEARANCE FORM

Cleared for all sports without restriction	
1 Cleared for all sports without restriction with recommendations for further evaluat	ion or treatment for
The state of the s	
Not cleared	
□ Pending further evaluation	
☐ For any sports	
☐ For certain sports	
Reason	
ecommendations	
	The second secon
EMERGENCY INFORMATION	
Allergies	
alorgios	
Other information	
HCP OFFICE STAMP	SCHOOL PHYSICIAN:
	Reviewed on
	(Date)
	(Date) Approved Not Approved
	(Date)
clinical contraindications to practice and participate in the sport(s) and can be made available to the school at the request of the parent the physician may rescind the clearance until the problem is resolve (and parents/guardians).	Approved Not Approved Signature: articipation physical evaluation. The athlete does not present apparent as outlined above. A copy of the physical exam is on record in my office ts. If conditions arise after the athlete has been cleared for participation ed and the potential consequences are completely explained to the athlete
clinical contraindications to practice and participate in the sport(s) and can be made available to the school at the request of the parent the physician may rescind the clearance until the problem is resolve (and parents/guardians). Name of physician, advanced practice nurse (APN), physician assistant (PA)	Approved Not Approved Signature: articipation physical evaluation. The athlete does not present apparent as outlined above. A copy of the physical exam is on record in my office ts. If conditions arise after the athlete has been cleared for participationed and the potential consequences are completely explained to the athlete has been cleared for participations.
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PREPARTICIPATION PHYSICAL EVALUATION THE ATHLETE WITH SPECIAL NEEDS: SUPPLEMENTAL HISTORY FORM

Sex Age Grade School Sport(s)	of birth	
1. Type of disability		
2. Date of disability		
3. Classification (if available)		1 1
4. Cause of disability (birth, disease, accident/trauma, other)		
5. List the sports you are interested in playing	. /	
	Yes	No
6. Do you regularly use a brace, assistive device, or prosthetic?		
7. Do you use any special brace or assistive device for sports?		
8. Do you have any rashes, pressure sores, or any other skin problems?		
9. Do you have a hearing loss? Do you use a hearing aid?		
10. Do you have a visual impairment?		
11. Do you use any special devices for bowel or bladder function?		
12. Do you have burning or discomfort when urinating?		
13. Have you had autonomic dysreflexia?		
14. Have you ever been diagnosed with a heat-related (hyperthermia) or cold-related (hypothermia) illness?		
15. Do you have muscle spasticity?		
16. Do you have frequent seizures that cannot be controlled by medication?		
xplain "yes" answers here		
•		
T 400 T		
ease indicate if you have ever had any of the following.		
	Yes	No
atlantoaxial instability		
-ray evaluation for atlantoaxial instability		-
islocated joints (more than one)		-
asy bleeding		
nlarged spleen		-
lepatitis		
steopenia or osteoporosis	A	
ifficulty controlling howel		_
ifficulty controlling bladder		
ifficulty controlling bladder umbness or tingling in arms or hands		
ifficulty controlling bladder umbness or tingling in arms or hands umbness or tingling in legs or feet		
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lame		(L)ate	of Birth	Effective Date	
			Of Billion	2333	
octor		Parent/Guardian (if applicabl	е)	Emergency Contact	
hone		Phone		Phone	
HEALTH		Take daily medicine(s se more effective with		ered dose inhalers may - use if directed	
	You have <u>all</u> of these:	MEDICINE	HOW MUCH to	take and HOW OFTEN to take it	Trigger Check all item
	 Breathing is good No cough or wheeze Sleep through the night Can work, exercise, and play 	☐ Flovent® ☐ 44, ☐ 110, ☐ 220 ☐ Flovent® Diskus® ☐ 50 ☐ 100	2302 puff	s MDI twice a day 2 puffs MDI twice a day 2 inhalations ☐ once or ☐ twice a day s MDI twice a day alation twice a day 2 inhalations ☐ once or ☐ twice a day t nebulized ☐ once or ☐ twice a day 2 puffs MDI twice a day	that trigger patient's asthr Chalk dust Cigarette Smr & second har smoke Colds/Flu Dust mites, dust, stuffed animals, can
	ow above	☐ Other ☐ None			☐ Exercise ☐ Mold
AUTIO	1	continue daily medicine MEDICINE	ne(s) and add	I fast-acting medicine(s	cockroache Pets - anim dander Plants, flov cut grass, Strong odd
	CoughMild wheezeTight chestCoughing at nightOther:	☐ Albuterol ☐ 1.25, ☐ 2.5 mg ☐ Albuterol ☐ Pro-Air ☐ Prove ☐ Ventolin® ☐ Maxair ☐ Xoper	1 unit ntil [®] 2 put nex [®] 2 put	nebulized every 4 hours as needed nebulized every 4 hours as needed is MDI every 4 hours as needed is MDI every 4 hours as needed t nebulized every 4 hours as needed	perfumes, ing produit scented post sudden to ture chan wood Sm
And/or Peak flo	w fromto	If fast-acting medicine is except before exercise.			
EMERGI And/or Peak	Your asthma is getting worse fast: • Fast-acting medicine did no help within 15-20 minutes • Breathing is hard and fast • Nose opens wide • Ribs show • Trouble walking and talking • Lips blue • Fingernalls blue	Asthma can be a lit Accuneb® 0.63, 1.25 Albuterol 1.25, 2.5 mg Albuterol Pro-Air Prov	fe-threateni mg1 ur g1 ur rentil ³ 2 pr enex ³ 2 p	nit nebulized every 20 minutes offs MDI every 20 minutes offs MDI every 20 minutes	This asth treatment meant to not replacificated making to meet patient

inhaled medications named above in accordance with NJ Law.

☐ This student is <u>not</u> approved to self-medicate.

PHYSICIAN STAMP

Make a copy for patient and for physician file. For children under 18, send original to school nurse or child care provider.

バリントイナ

1161 Route 130, P.O. Box 487, Robbinsville, NJ 08691 609-259

609-259-2776 609-259-3047-Fax

NJSIAA STEROID TESTING POLICY CONSENT TO RANDOM TESTING

In Executive Order 72, issued December 20, 2005, Governor Richard Codey directed the New Jersey Department of Education to work in conjunction with the New Jersey State Interscholastic Athletic Association (NJSIAA) to develop and implement a program of random testing for steroids, of teams and individuals qualifying for championship games.

Beginning in the Fall, 2006 sports season, any student-athlete who possesses, distributes, ingests or otherwise uses any of the banned substances on the attached page, without written prescription by a fully-licensed physician, as recognized by the American Medical Association, to treat a medical condition, violates the NJSIAA's sportsmanship rule, and is subject to NJSIAA penalties, including ineligibility from competition. The NJSIAA will test certain randomly selected individuals and teams that qualify for a state championship tournament or state championship competition for banned substances. The results of all tests shall be considered confidential and shall only be disclosed to the student, his or her parents and his or her school. No student may participate in NJSIAA competition unless the student and the student's parent/guardian consent to random testing.

By signing below, we consent to random testing in accordance with the NJSIAA steroid testing policy. We understand that, if the student or the student's team qualifies for a state championship tournament or state championship competition, the student may be subject to testing for banned substances.

Signature of Student-Athlete	Print Student-Athlete's Name	Date
Signature of Parent/Guardian	Print Parent/Guardian's Name	Date

JERSEY CITY PUBLIC SCHOOLS 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 rationwide, 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 satety of K. 2 student-athletes involved in interscholastic sports in New Jersey. It is imperative that athletes, coaches, and parent/quardians 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 reatment and has completed his/her district's graduated return-to-play protocol.

Outok Facts

- Wast concussions do not involve loss of consciousness
- You can sustain a concussion even if you do not hit your head
- A bluw 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 mable to recall events prior to or after the hit or fall

Symptoms of Concussion (Reported by Student-Athlete)

- readache
- Mausea/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 student athlete'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.

www.edc.gov/concussion/sports/index ht	<u>im</u>	4
<u>www.ncaa.org/health-safety</u> www.bianj.org www.atsnj.org		
Signature of Student-Athlete	Print Student-Athlete's Name	Date



Jersey City Public Schools Department of Athletics

346 Claremont Ave Jersey City, NJ 07305

CONSENT FORM FOR INTERSCHOLASTIC ATHLETICS

With my full knowledge and consen	t	
may participate in all physical activi	ties and may take trips that are part o	of this program.
	maximum care in the administration o	and control of athletic activities
in order to safeguard participants a	gainst injury and accident.	
acknowledge that even with the bes strict observances of the rules, injuri	the potential for injury, which is inher it coaching, use of the most advanced ies are still a possibility. On rare occa paralysis, or even death. I/we ackno	f protective equipment and islants these injures can be so
In the event of an injury to my child	I give consent as parent/guardian to	have my child assessed and
treated by a certified Athletic Traine	r. I also give my permission for discl	osure of medical information
regarding my child and any treatme	nt necessary in the event of a medica	al emergency.
I certify that the information provide	ed herein is accurate as of the date o	f these signatures.
Parent/Guardian (Signature):		Date:
Parent/Guardian (Print Name):		
Student (Signature):		Date:
Student (Print Name):		
Address:		
Emergency Phone Numbers:		
Primary:	Relationship:	•
Secondary:	Relationship:	
Physician Information:		
roviders Name:		
roviders Phone Number:		
roviders Address:		
DO NOT HAVE A PROVIDER.	(Please check if applical	nla)

State of New Jersey DEPARTMENT OF EDUCATION

Sudden Cardiac Death Pamphlet Sign-Off Sheet

Name of School District:			
Name of Local School:			
I/We acknowledge that we received	i and reviewed the Su	dden Cardiac Death i	n Young Athletes pamphl
Student Signature:			
Student Signature.			
Parent or Guardian			
Signature:			
Date:			

Website Resources

- Sudden Death in Athletes www.cardiachealth.org/sudden-death-inathletes
- Hypertrophic Cardiomyopathy Association www.4hcm.org
- American Heart Association www.heart.org

Collaborating Agencies:

American Academy of Pediatrics

New Jersey Chapter 3836 Quakerbridge Road, Suite 108 Hamilton, NJ 08619 (p) 609-842-0014



American Heart Association 1 Union Street, Suite 301 Robbinsville, NJ, 08691

Enoruge Park

609-842-0015

Robbinsville, NJ, 08691
(p) 609-208-0020
www.hearLorg
New Jersey Department of Education



www.state.nj.us/education/ New Jersey Department of Health P. O. Box 360

(p) 609-292-5935

70 Bax 500 Trenton, NJ 08625-0500

Trenton, NJ 08625-0360 (p) 609-292-7837 www.state.nj.us/health

Lead Author: American Academy of Pediatrics, New Jessey Chapter

Whiten by Initial draft by Seshma Ramon Hebbar, MD & Suphen G. Rice, MD PhD Additional Reviewers: NJ Department of Education.

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

Renfsed 2014: Christene DeWitt-Parker, MSN, CSN, Rit-Laisota Kruse, MD, MPH: Susan Martz, EdM; Stephen G. Rice, MD; Jeffrey Rosenberg, MD, Louis Teichholz, MD; Perry Weinstock, MD

SUDDEN CARDIAC DEATH YOUNG

The Basic Facts on Sudden Cardiac Death in Young Athletes





American Heart
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Learn and Live

tragedy? is restored using an automated external collapses, loses consciousness, and pumping adequately, the athlete quickly without trauma. Since the heart stops time) during or immediately after exercise ultimately dies unless normal heart rhythm heart function, usually (about 60% of the result of an unexpected failure of proper Sudden cardiac death is the done to prevent this kind of in the young athlete? What is sudden cardiac dea What, if anything, can be udden death in young athletes between the ages of 10 and 19 is very rare.

How common is sudden death in young

defibrillator (AED).

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

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

SUDDEN CARDIAC DEATH IN YOUNG ATHLETES. Subden causes? What are the most common causes?

Research suggests that the main cause is a loss of proper heart rhythm, causing the loss of proper heart rhythm, causing the blood to the brain and body. This is called blood to the brain and body. This is called ventricular fibrillation (ven-TRICK-you-lar fibventricular fibrillation (ven-TRICK-you-lar fib-by one of several cardiovascular abnormalities by one of several cardiovascular abnormalities and electrical diseases of the heart that go unnoticed in healthy-appearing athletes.

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

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

SUDDEN CARDIAC DEATH IN YOUNG ATHLETES

Other diseases of the heart that can lead to 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.
- 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 arteries, 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 cardlac 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 during exertion;
- Chest pains, at rest or 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.

What are the current recommendations for screening young athletes?

New Jersey requires all school athletes to be examined by their primary care physician ("medical home") or school physician at least once per year. The New Jersey Department of Education requires use of the specific Annual Athletic Pre-Participation Physical Examination Form.

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 an unexplained sudden death such as drowning or car accidents. This information must be provided annually for each examble to 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.

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

This is why screening 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 sportir events?

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 (commotio cordis).

Effective September 1, 2014, the New Jersey Department of Education requires that all public and nonpublic schools grades II, through 12 shall:

- Have an AED available at every sports event (three minutes total time to reach and return with the AED);
- Have adequate personnel who are trained in AED use present at practices and pamer.
- Have coaches and athletic trainers trained in basic life support techniques (CPR); and
- Call 911 immediately while someone is retrieving the AED.