

# PREPARTICIPATION PHYSICAL EVALUATION PHYSICAL EXAMINATION FORM

Name \_\_\_\_\_ Date of birth \_\_\_\_\_

## PHYSICIAN REMINDERS

- 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?
- Consider reviewing questions on cardiovascular symptoms (questions 5–14).

EXAMINATION		
Height	' "	Weight lbs. <input type="checkbox"/> Male <input type="checkbox"/> Female
BP	/ ( / )	Pulse Vision R 20/ L 20/ Corrected <input type="checkbox"/> Y <input type="checkbox"/> N
MEDICAL	NORMAL	ABNORMAL FINDINGS
Appearance • 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 <sup>a</sup> • Murmurs (auscultation standing, supine, +/- Valsalva) • Location of point of maximal impulse (PMI)		
Pulses • Simultaneous femoral and radial pulses		
Lungs		
Abdomen		
Genitourinary (males only) <sup>b</sup>		
Skin • HSV, lesions suggestive of MRSA, tinea corporis		
Neurologic <sup>c</sup>		
MUSCULOSKELETAL		
Neck		
Back		
Shoulder/arm		
Elbow/forearm		
Wrist/hand/fingers		
Hip/thigh		
Knee		
Leg/ankle		
Foot/toes		
Functional • Duck-walk, single leg hop		

<sup>a</sup>Consider ECG, echocardiogram, and referral to cardiology for abnormal cardiac history or exam.

<sup>b</sup>Consider GU exam if in private setting. Having third party present is recommended.

<sup>c</sup>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, the physician may rescind the clearance until the problem is resolved and the potential consequences are completely explained to the athlete (and parents/guardians).**

Name of physician (print/type) \_\_\_\_\_ Date \_\_\_\_\_

Address \_\_\_\_\_ Phone \_\_\_\_\_

Signature of physician \_\_\_\_\_, MD or DO

# PREPARTICIPATION PHYSICAL EVALUATION HISTORY FORM

(Note: This form is to be filled out by the patient and parent prior to seeing the physician. The physician should keep this form in the chart.)

Date of Exam \_\_\_\_\_

Name \_\_\_\_\_ Date of birth \_\_\_\_\_

Sex \_\_\_\_\_ Age \_\_\_\_\_ Grade \_\_\_\_\_ School \_\_\_\_\_ Sport(s) \_\_\_\_\_

**Medicines and Allergies:** Please list all of the prescription and over-the-counter medicines and supplements (herbal and nutritional) that you are currently taking

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Do you have any allergies?  Yes  No If yes, please identify specific allergy below.

Medicines  Pollens  Food  Stinging Insects

Explain "Yes" answers below. Circle questions you don't know the answers to.

GENERAL QUESTIONS	Yes	No
1. Has a doctor ever denied or restricted your participation in sports for any reason?		
2. Do you have any ongoing medical conditions? If so, please identify below: <input type="checkbox"/> Asthma <input type="checkbox"/> Anemia <input type="checkbox"/> Diabetes <input type="checkbox"/> Infections Other: _____		
3. Have you ever spent the night in the hospital?		
4. Have you ever had surgery?		
HEART HEALTH QUESTIONS ABOUT YOU	Yes	No
5. Have you ever passed out or nearly passed out DURING or AFTER exercise?		
6. Have you ever had discomfort, pain, tightness, or pressure in your chest during exercise?		
7. Does your heart ever race or skip beats (irregular beats) during exercise?		
8. Has a doctor ever told you that you have any heart problems? If so, check all that apply: <input type="checkbox"/> High blood pressure <input type="checkbox"/> A heart murmur <input type="checkbox"/> High cholesterol <input type="checkbox"/> A heart infection <input type="checkbox"/> Kawasaki disease Other: _____		
9. Has a doctor ever ordered a test for your heart? (For example, ECG/EKG, echocardiogram)		
10. Do you get lightheaded or feel more short of breath than expected during exercise?		
11. Have you ever had an unexplained seizure?		
12. Do you get more tired or short of breath more quickly than your friends during exercise?		
HEART HEALTH QUESTIONS ABOUT YOUR FAMILY	Yes	No
13. Has any family member or relative died of heart problems or had an unexpected or unexplained sudden death before age 50 (including drowning, unexplained car accident, or sudden infant death syndrome)?		
14. Does anyone in your family have hypertrophic cardiomyopathy, Marfan syndrome, arrhythmogenic right ventricular cardiomyopathy, long QT syndrome, short QT syndrome, Brugada syndrome, or catecholaminergic polymorphic ventricular tachycardia?		
15. Does anyone in your family have a heart problem, pacemaker, or implanted defibrillator?		
16. Has anyone in your family had unexplained fainting, unexplained seizures, or near drowning?		
BONE AND JOINT QUESTIONS	Yes	No
17. Have you ever had an injury to a bone, muscle, ligament, or tendon that caused you to miss a practice or a game?		
18. Have you ever had any broken or fractured bones or dislocated joints?		
19. Have you ever had an injury that required x-rays, MRI, CT scan, injections, therapy, a brace, a cast, or crutches?		
20. Have you ever had a stress fracture?		
21. Have you ever been told that you have or have you had an x-ray for neck instability or atlantoaxial instability? (Down syndrome or dwarfism)		
22. Do you regularly use a brace, orthotics, or other assistive device?		
23. Do you have a bone, muscle, or joint injury that bothers you?		
24. Do any of your joints become painful, swollen, feel warm, or look red?		
25. Do you have any history of juvenile arthritis or connective tissue disease?		

MEDICAL QUESTIONS	Yes	No
26. Do you cough, wheeze, or have difficulty breathing during or after exercise?		
27. Have you ever used an inhaler or taken asthma medicine?		
28. Is there anyone in your family who has asthma?		
29. Were you born without or are you missing a kidney, an eye, a testicle (males), your spleen, or any other organ?		
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?		
32. Do you have any rashes, pressure sores, or other skin problems?		
33. Have you had a herpes or MRSA skin infection?		
34. Have you ever had a head injury or concussion?		
35. Have you ever had a hit or blow to the head that caused confusion, prolonged headache, or memory problems?		
36. Do you have a history of seizure disorder?		
37. Do you have headaches with exercise?		
38. Have you ever had numbness, tingling, or weakness in your arms or legs after being hit or falling?		
39. Have you ever been unable to move your arms or legs after being hit or falling?		
40. Have you ever become ill while exercising in the heat?		
41. Do you get frequent muscle cramps when exercising?		
42. Do you or someone in your family have sickle cell trait or disease?		
43. Have you had any problems with your eyes or vision?		
44. Have you had any eye injuries?		
45. Do you wear glasses or contact lenses?		
46. Do you wear protective eyewear, such as goggles or a face shield?		
47. Do you worry about your weight?		
48. Are you trying to or has anyone recommended that you gain or lose weight?		
49. Are you on a special diet or do you avoid certain types of foods?		
50. Have you ever had an eating disorder?		
51. Do you have any concerns that you would like to discuss with a doctor?		
FEMALES ONLY		
52. Have you ever had a menstrual period?		
53. How old were you when you had your first menstrual period?		
54. How many periods have you had in the last 12 months?		

Explain "yes" answers here

I hereby state that, to the best of my knowledge, my answers to the above questions are complete and correct.

Signature of athlete \_\_\_\_\_ Signature of parent/guardian \_\_\_\_\_ Date \_\_\_\_\_



## ACKNOWLEDGEMENT OF RULES

*Attention School Authorities:* This form must be signed yearly by both the student and parent/guardian and be on file at your school before the student may participate in any practice session, scrimmage, or contest. A copy of the student's medical history and physical examination form signed by a physician or medical history form signed by a parent must also be on file at your school.

Athlete First Name \_\_\_\_\_ Athlete Last Name \_\_\_\_\_ Athlete DOB \_\_\_\_\_  
Athlete School \_\_\_\_\_

### Parent or Guardian's Permit

I hereby give my consent for the above student to compete in University Interscholastic League approved sports, and travel with the coach or other representative of the school on any trips.

Furthermore, as a condition of participation and for the purpose of ensuring compliance with University Interscholastic League (UIL) rules, I consent to the disclosure of personally identifiable information, including information that may be subject to the Family Educational Rights and Privacy Act (FERPA), regarding the above named student between and among the following: the high school or middle school where the student currently attends or has attended; any school the student transfers to; the relevant District Executive Committee and the UIL. I further understand that all information relevant to the student's UIL eligibility and compliance with other UIL rules may be discussed and considered in a public forum. I acknowledge that revocation of this consent must be in writing and delivered to the student's school and the UIL.

It is understood that even though protective equipment is worn by the athlete whenever needed, the possibility of an accident still remains. Neither the University Interscholastic League nor the high school assumes any responsibility in case an accident occurs.

I have read and understand the University Interscholastic League rules on the reverse side of this form and agree that my son/ daughter will abide by all of the University Interscholastic League rules.

The undersigned agrees to be responsible for the safe return of all athletic equipment issued by the school to the above named student.

If, in the judgement of any representatives of the school, the above student needs immediate care and treatment as a result of any injury or sickness, I do hereby request, authorize, and consent to such care and treatment as may be given to said student by any physician, licensed athletic trainer, nurse, hospital, or school representative; and I do hereby agree to indemnify and save harmless the school and any school representative from any claim by any person whomsoever on account of such care and treatment of said student.

I have been provided the UIL Parent Information Manual regarding health and safety issues including concussions and my responsibilities as a parent/guardian. I understand that failure to provide accurate and truthful information on UIL forms could subject the student in question to penalties determined by the UIL.

The UIL Parent Information Manual is located at [www.uiltexas.org/files/athletics/manuals/parent-information-manual.pdf](http://www.uiltexas.org/files/athletics/manuals/parent-information-manual.pdf).

Your signature below gives authorization that is necessary for the school district, its licensed athletic trainers, coaches, associated physicians and student insurance personnel to share information concerning medical diagnosis and treatment for your student.

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#### To the Parent: Check any activity in which this student is allowed to participate.

- Baseball  Football  Softball  Tennis  
 Basketball  Golf  Swimming & Diving  Track & Field  
 Cross Country Soccer Team Tennis Volleyball  Soccer  Team Tennis  Volleyball  Wrestling

Date \_\_\_\_\_

Parent Signature & Date \_\_\_\_\_

Date: \_\_\_\_\_

Ath. Address Street \_\_\_\_\_

Ath. Address City \_\_\_\_\_ Ath. Address State \_\_\_\_\_ Ath. Address Zip \_\_\_\_\_

\_\_\_\_\_  
(1) Parent Phone \_\_\_\_\_ (2) Parent Phone \_\_\_\_\_

## GENERAL INFORMATION

School coaches may not:

- Transport, register, or instruct students in grades 7-12 from their attendance zone in non-school baseball, basketball, football, soccer, softball, or volleyball camps (exception: See Section 1209 of the Constitution and Contest Rules).
- Give any instruction or schedule any practice for an individual or a team during the off-season except during the one in school day athletic period in baseball, basketball, football, soccer, softball, or volleyball.
- Schools and school booster clubs may not provide funds, fees, or transportation for non-school activities.

## GENERAL ELIGIBILITY RULES

According to UIL standards, students could be eligible to represent their school in interscholastic activities if they:

- are not 19 years of age or older on or before September 1 of the current scholastic year. (See Section 446 of the Constitution and Contest Rules for exception).
- have not graduated from high school.
- are enrolled by the sixth class day of the current school year or have been in attendance for fifteen calendar days immediately preceding a varsity contest.
- are full-time students in the participant high school they wish to represent.
- initially enrolled in the ninth grade not more than four years ago.
- are meeting academic standards required by state law.
- live with their parents inside the school district attendance zone their first year of attendance. (Parent residence applies to varsity athletic eligibility only.) When the parents do not reside inside the district attendance zone the student could be eligible if: the student has been in continuous attendance for at least one calendar year and has not enrolled at another school; no inducement is given to the student to attend the school (for example: students or their parents must pay their room and board when they do not live with a relative; students driving back into the district should pay their own transportation costs); and it is not a violation of local school or TEA policies for the student to continue attending the school. Students placed by the Texas Youth Commission are covered under Custodial Residence (see Section 442 of the Constitution and Contest Rules).
- have observed all provisions of the Awards Rule.
- have not been recruited. (Does not apply to college recruiting as permitted by rule.)
- have not violated any provision of the summer camp rule. Incoming 10-12 grade students shall not attend a baseball, basketball, football, soccer, or volleyball camp in which a seventh through twelfth grade coach from their school district attendance zone, works with, instructs, transports or registers that student in the camp. Students who will be in grades 7, 8, and 9 may attend one baseball, one basketball, one football, one soccer, one softball, and one volleyball camp in which a coach from their school district attendance zone is employed, for no more than six consecutive days each summer in each type of sports camp. Baseball, Basketball, Football, Soccer, Softball, and Volleyball camps where school personnel work with their own students may be held in May, after the last day of school, June, July and August prior to the second Monday in August. If such camps are sponsored by school district personnel, they must be held within the boundaries of the school district and the superintendent or his designee shall approve the schedule of fees.
- have observed all provisions of the Athletic Amateur Rule. Students may not accept money or other valuable consideration (tangible or intangible property or service including anything that is usable, wearable, salable or consumable) for participating in any athletic sport during any part of the year. Athletes shall not receive valuable consideration for allowing their names to be used for the promotion of any product, plan or service. Students who inadvertently violate the amateur rule by accepting valuable consideration may regain athletic eligibility by returning the valuable consideration. If individuals return the valuable consideration within 30 days after they are informed of the rule violation, they regain their athletic eligibility when they return it. If they fail to return it within 30 days, they remain ineligible for one year from when they accepted it. During the period of time from when students receive valuable consideration until they return it, they are ineligible for varsity athletic competition in the sport in which the violation occurred. Minimum penalty for participating in a contest while ineligible is forfeiture of the contest.
- did not change schools for athletic purposes.

**I understand that failure to provide accurate and truthful information on UIL forms  
could subject the student in question to penalties determined by the UIL.**

I have read the regulations cited above and agree to follow the rules.

Athlete Signature & Date \_\_\_\_\_

Date: \_\_\_\_\_



**Parent and Student Agreement/Acknowledgement Form  
Anabolic Steroid Use and Random Steroid Testing**

- Texas state law prohibits possessing, dispensing, delivering or administering a steroid in a manner not allowed by state law.
- Texas state law also provides that body building, muscle enhancement or the increase in muscle bulk or strength through the use of a steroid by a person who is in good health is not a valid medical purpose.
- Texas state law requires that only a licensed practitioner with prescriptive authority may prescribe a steroid for a person.
- Any violation of state law concerning steroids is a criminal offense punishable by confinement in jail or imprisonment in the Texas Department of Criminal Justice.

**STUDENT ACKNOWLEDGEMENT AND AGREEMENT**

As a prerequisite to participation in UIL athletic activities, I agree that I will not use anabolic steroids as defined in the UIL Anabolic Steroid Testing Program Protocol. I have read this form and understand that I may be asked to submit to testing for the presence of anabolic steroids in my body, and I do hereby agree to submit to such testing and analysis by a certified laboratory. I further understand and agree that the results of the steroid testing may be provided to certain individuals in my high school as specified in the UIL Anabolic Steroid Testing Program Protocol which is available on the UIL website at [www.uiltexas.org](http://www.uiltexas.org). I understand and agree that the results of steroid testing will be held confidential to the extent required by law. I understand that failure to provide accurate and truthful information could subject me to penalties as determined by UIL.

Athlete First Name \_\_\_\_\_ Grade in School \_\_\_\_\_

\_\_\_\_\_ Athlete Signature & Date \_\_\_\_\_ Date: \_\_\_\_\_

**PARENT/GUARDIAN CERTIFICATION AND ACKNOWLEDGEMENT**

As a prerequisite to participation by my student in UIL athletic activities, I certify and acknowledge that I have read this form and understand that my student must refrain from anabolic steroid use and may be asked to submit to testing for the presence of anabolic steroids in his/her body. I do hereby agree to submit my child to such testing and analysis by a certified laboratory. I further understand and agree that the results of the steroid testing may be provided to certain individuals in my student's high school as specified in the UIL Anabolic Steroid Testing Program Protocol which is available on the UIL website at [www.uiltexas.org](http://www.uiltexas.org). I understand and agree that the results of steroid testing will be held confidential to the extent required by law. I understand that failure to provide accurate and truthful information could subject my student to penalties as determined by UIL.

(1) Parent First Name \_\_\_\_\_ (1) Parent Last Name \_\_\_\_\_

Parent Signature & Date \_\_\_\_\_ Date: \_\_\_\_\_

Relationship to Student \_\_\_\_\_



## CONCUSSION ACKNOWLEDGEMENT FORM

Athlete First Name \_\_\_\_\_ Athlete Last Name \_\_\_\_\_

**Definition of Concussion** - means a complex pathophysiological process affecting the brain caused by a traumatic physical force or impact to the head or body, which may: (A) include temporary or prolonged altered brain function resulting in physical, cognitive, or emotional symptoms or altered sleep patterns; and (B) involve loss of consciousness.

**Prevention** – Teach and practice safe play & proper technique.  
 – Follow the rules of play.  
 – Make sure the required protective equipment is worn for all practices and games.  
 – Protective equipment must fit properly and be inspected on a regular basis.

**Signs and Symptoms of Concussion** – The signs and symptoms of concussion may include but are not limited to: Headache, appears to be dazed or stunned, tinnitus (ringing in the ears), fatigue, slurred speech, nausea or vomiting, dizziness, loss of balance, blurry vision, sensitive to light or noise, feel foggy or groggy, memory loss, or confusion.

**Oversight** - Each district shall appoint and approve a Concussion Oversight Team (COT). The COT shall include at least one physician and an athletic trainer if one is employed by the school district. Other members may include: Advanced Practice Nurse, neuropsychologist, or a physician's assistant. The COT is charged with developing the Return to Play protocol based on peer reviewed scientific evidence.

**Treatment of Concussion** - The student-athlete/cheerleader shall be removed from practice or participation immediately if suspected to have sustained a concussion. Every student-athlete/cheerleader suspected of sustaining a concussion shall be seen by a physician before they may return to athletic or cheerleading participation. The treatment for concussion is cognitive rest. Students should limit external stimulation such as watching television, playing video games, sending text messages, use of computer, and bright lights. When all signs and symptoms of concussion have cleared and the student has received written clearance from a physician, the student-athlete/cheerleader may begin their district's Return to Play protocol as determined by the Concussion Oversight Team.

**Return to Play** - According to the Texas Education Code, Section 38.157:  
 A student removed from an interscholastic athletics practice or competition (including per UIL rule, cheerleading) under Section 38.156 may not be permitted to practice or participate again following the force or impact believed to have caused the concussion until:

1. the student has been evaluated, using established medical protocols based on peer-reviewed scientific evidence, by a treating physician chosen by the student or the student's parent or guardian or another person with legal authority to make medical decisions for the student;
2. the student has successfully completed each requirement of the return-to-play protocol established under Section 38.153 necessary for the student to return to play;
3. the treating physician has provided a written statement indicating that, in the physician's professional judgment, it is safe for the student to return to play; and
4. the student and the student's parent or guardian or another person with legal authority to make medical decisions for the student:
  1. have acknowledged that the student has completed the requirements of the return-to-play protocol necessary for the student to return to play;
  2. have provided the treating physician's written statement under Subdivision (3) to the person responsible for compliance with the return-to-play protocol under Subsection (c) and the person who has supervisory responsibilities under Subsection (c); and
  3. have signed a consent form indicating that the person signing:
    1. has been informed concerning and consents to the student participating in returning to play in accordance with the return-to-play protocol;
    2. understands the risks associated with the student returning to play and will comply with any ongoing requirements in the return-to-play protocol;
    3. (iii) consents to the disclosure to appropriate persons, consistent with the Health Insurance Portability and Accountability Act of 1996 (Pub. L. No. 104-191), of the treating physician's written statement under Subdivision (3) and, if any, the return-to-play recommendations of the treating physician; and
    4. understands the immunity provisions under Section 38.159.

Parent Signature & Date \_\_\_\_\_ Date: \_\_\_\_\_

Athlete Signature & Date \_\_\_\_\_ Date: \_\_\_\_\_



## Non-Prescription Authorization

I hereby give my consent to Buffalo ISD staff, athletic trainers, and physicians to administer the non-prescription items to my child as checked below:

- Acetaminophen (i.e., Tylenol)
- Antibiotic Ointment
- Antacids (e.g. Tums)
- NSAIDs (e.g. Aleve, Advil, Ibuprofen)
- Electrolyte Drinks  Electrolyte Tablets  
(to help prevent heat illness/cramps)

Parent Signature & Date \_\_\_\_\_

Date: \_\_\_\_\_



Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_  
 Date of Birth: \_\_\_\_\_ SSN: \_\_\_\_\_  
 Upcoming Grade: \_\_\_\_\_ Sex:  Male  Female Sports: \_\_\_\_\_

**CONTACT INFORMATION**

Home Address: \_\_\_\_\_  
 City, State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Home Phone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_

Insurance Company: \_\_\_\_\_ Policy / ID Number: \_\_\_\_\_  
 Primary Card Holder: \_\_\_\_\_ Group Number: \_\_\_\_\_

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Name: _____	Name: _____
Home Phone: _____	Home Phone: _____
Work Phone: _____	Work Phone: _____
Cell Phone: _____	Cell Phone: _____
E-Mail Address: _____	E-Mail Address: _____
Step Parent's Name (if applicable): _____	Step Parent's Name (if applicable): _____

**EMERGENCY INFORMATION**

*In the event of emergency when neither parent/guardian is able to be reached, the school will contact the person named below:*

Emergency Contact Name: \_\_\_\_\_  
 Relationship: \_\_\_\_\_  
 Emergency Contact's Home Phone: \_\_\_\_\_  
 Emergency Contact's Cell Phone: \_\_\_\_\_  
 Known Allergies: \_\_\_\_\_  
 \_\_\_\_\_

Hospital Preference: \_\_\_\_\_ Orthopedic Physician: \_\_\_\_\_  
 Physician/Pediatrician: \_\_\_\_\_ Family Dentist: \_\_\_\_\_

*We do hereby acknowledge that the information contained in the form above is accurate to the best of our knowledge.  
 Should any changes become necessary, we will contact the school with the appropriate information.*

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Parent / Guardian(s) Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# SUDDEN CARDIAC ARREST (SCA) AWARENESS FORM

## The Basic Facts on Sudden Cardiac Arrest

### Website Resources:

American Heart Association:  
[www.heart.org](http://www.heart.org)

**Lead Author:** Arnold Fenrich, MD  
and Benjamin Levine, MD

**Additional Reviewers:** UIL Medical  
Advisory Committee

Revised 2016

### What is Sudden Cardiac Arrest?

- Occurs suddenly and often without warning.
- An electrical malfunction (short-circuit) causes the bottom chambers of the heart (ventricles) to beat dangerously fast (ventricular tachycardia or fibrillation) and disrupts the pumping ability of the heart.
- The heart cannot pump blood to the brain, lungs and other organs of the body.
- The person loses consciousness (passes out) and has no pulse.
- Death occurs within minutes if not treated immediately.

### What causes Sudden Cardiac Arrest?

**Inherited** (passed on from family) **conditions present at birth of the heart muscle:**

**Hypertrophic Cardiomyopathy** – hypertrophy (thickening) of the left ventricle; the most common cause of sudden cardiac arrest in athletes in the U.S.

**Arrhythmogenic Right Ventricular Cardiomyopathy** – replacement of part of the right ventricle by fat and scar; the most common cause of sudden cardiac arrest in Italy.

**Marfan Syndrome** – a disorder of the structure of blood vessels that makes them prone to rupture; often associated with very long arms and unusually flexible joints.

**Inherited conditions present at birth of the electrical system:**

**Long QT Syndrome** – abnormality in the ion channels (electrical system) of the heart.

**Catecholaminergic Polymorphic Ventricular Tachycardia and Brugada Syndrome** – other types of electrical abnormalities that are rare but run in families.

**NonInherited** (not passed on from the family, but still present at birth) **conditions:**

**Coronary Artery Abnormalities** – abnormality of the blood vessels that supply blood to the heart muscle. This is the second most common cause of sudden cardiac arrest in athletes in the U.S.

**Aortic valve abnormalities** – failure of the aortic valve (the valve between the heart and the aorta) to develop properly; usually causes a loud heart murmur.

**Non-compaction Cardiomyopathy** – a condition where the heart muscle does not develop normally.

**Wolff-Parkinson-White Syndrome** – an extra conducting fiber is present in the heart's electrical system and can increase the risk of arrhythmias.

**Conditions not present at birth but acquired later in life:**

**Commotio Cordis** – concussion of the heart that can occur from being hit in the chest by a ball, puck, or fist.

**Myocarditis** – infection or inflammation of the heart, usually caused by a virus.

**Recreational/Performance-Enhancing drug use.**

**Idiopathic:** Sometimes the underlying cause of the Sudden Cardiac Arrest is unknown, even after autopsy.

### What are the symptoms/warning signs of Sudden Cardiac Arrest?

- Fainting/blackouts (especially during exercise)
- Dizziness
- Unusual fatigue/weakness
- Chest pain
- Shortness of breath
- Nausea/vomiting
- Palpitations (heart is beating unusually fast or skipping beats)
- Family history of sudden cardiac arrest at age < 50

**ANY of these symptoms and warning signs that occur while exercising may necessitate further evaluation from your physician before returning to practice or a game.**

### What is the treatment for Sudden Cardiac Arrest?

Time is critical and an immediate response is vital.

- **CALL 911**
- **Begin CPR**
- **Use an Automated External Defibrillator (AED)**

### What are ways to screen for Sudden Cardiac Arrest?

The American Heart Association recommends a pre-participation history and physical including 14 important cardiac elements.

**The UIL *Pre-Participation Physical Evaluation – Medical History* form includes ALL 14 of these important cardiac elements and is mandatory annually.**

**What are the current recommendations for screening young athletes?**

The University Interscholastic League requires use of the specific Preparticipation Medical History form on a yearly basis. 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.

It is important to know if any family member died suddenly during physical activity or during a seizure. It is also important 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 because it is essential to identify those at risk for sudden cardiac death.

The University Interscholastic League requires the Preparticipation Physical Examination form prior to junior high athletic participation and again prior to the 1<sup>st</sup> and 3<sup>rd</sup> years of high school participation. 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 additional evaluation or testing is recommended for cardiac issues/concerns.

**Are there additional options available to screen for cardiac conditions?**

Additional screening using an electrocardiogram (ECG) and/or an echocardiogram (Echo) is readily available to all athletes from their personal physicians, but is not mandatory, and is generally not recommended by either the American Heart Association (AHA) or the American College of Cardiology (ACC). Limitations of additional screening include the possibility (~10%) of “false positives”, which leads to unnecessary stress for the student and parent or guardian as well as unnecessary restriction from athletic participation. There is also a possibility of “false negatives”, since not all cardiac conditions will be identified by additional screening.

**When should a student athlete see a heart specialist?**

If a qualified examiner has concerns, a referral to a child heart specialist, a pediatric cardiologist, is recommended. This specialist may 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, may also be done. The specialist may also order a treadmill exercise test and/or a monitor to enable a longer recording of the heart rhythm. None of the testing is invasive or uncomfortable.

**Can Sudden Cardiac Arrest be prevented just through proper screening?**

A proper evaluation (Preparticipation Physical Evaluation – Medical History) should find many, but not all, conditions that could 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 a medical history and a review of the family health history need to be performed on a yearly basis. With proper screening and evaluation, most cases can be identified and prevented.

**Why have an AED on site during sporting 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).

Texas Senate Bill 7 requires that at any school sponsored athletic event or team practice in Texas public high schools the following must be available:

- An AED is in an unlocked location on school property within a reasonable proximity to the athletic field or gymnasium
- All coaches, athletic trainers, PE teacher, nurses, band directors and cheerleader sponsors are certified in cardiopulmonary resuscitation (CPR) and the use of the AED.

- Each school has a developed safety procedure to respond to a medical emergency involving a cardiac arrest.

The American Academy of Pediatrics recommends the AED should be placed in a central location that is accessible and ideally no more than a 1 to 1 1/2 minute walk from any location and that a call is made to activate 911 emergency system while the AED is being retrieved.

**Student & Parent/Guardian Signatures**

I certify that I have read and understand the above information.

\_\_\_\_\_  
Parent/Guardian Signature

\_\_\_\_\_  
Parent/Guardian Name (Print)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Student Name (Print)

\_\_\_\_\_  
Date