

SUDDEN CARDIAC ARREST

A Fact Sheet for Parents

FACTS

Sudden cardiac arrest (SCA) is a rare, but tragic event that claims the lives of approximately 7,000 children each year in the United States, according to the American Heart Association. SCA is not a heart attack. It is an abnormality in the heart's electrical system that abruptly stops the heartbeat. SCA affects all students, in all sports or activities, and in all age levels. The majority of activity-related cardiac arrests are due to congenital (inherited) heart defects. However, SCA may also occur after a person experiences an illness which has caused an inflammation to the heart or after a direct blow to the chest.

WARNING SIGNS

Possible warning signs of SCA include:

- Fainting
- Difficulty Breathing
- Chest Discomfort or Pain
- Dizziness
- Abnormal Racing Heart Rate

ASSESSING RISK

Health care providers may use several tests to help detect risk factors for SCA. One such test is an electrocardiogram (ECG). An ECG is a simple, painless test that detects and records the heart's electrical activity. It is used to detect heart problems and monitor a person's heart health. There are no serious risks to a person having an ECG test. ECG's are able to detect a majority of heart conditions more effectively than a physical exam and health history alone.

What are the risks of practicing or playing after experiencing warning symptoms?

There are risks associated with continuing to practice or play after experiencing warning symptoms of sudden cardiac arrest. When the heart stops, so does blood flow to the brain and other vital organs. Death or permanent brain damage follows in just a few minutes. Most people who experience SCA die from it. However, when SCA is witnessed and an onsite automatic defibrillator (AED) is deployed in a timely manner, survival rates approach 50%.

How can I help prevent my child from experiencing SCA?

Daily physical activity, proper nutrition, and adequate sleep are all important aspects of life-long health. Additionally, parents can assist students prevent death from SCA by:

- Ensuring your child knows about any family history of SCA (onset of heart disease in a family member before the age of 50 or a sudden, unexplained death at an early age)
- Ensuring your child has a thorough pre-season screening exam prior to participation in an organized athletic activity
- Asking if your school and the site of competition have automated external defibrillators (AED's) that are close by and properly maintained
- Asking if your child's coach is CPR/AED certified
- Becoming CPR/AED certified yourself
- Ensuring your child is not using any non-prescribed stimulants or performance enhancing drugs
- Being aware that the inappropriate use of prescription medications, energy drinks, or vaping increase risk
- Encouraging your child to be honest and report symptoms of chest discomfort, unusual shortness of breath, racing or irregular heartbeat, or feeling faint

What should I do if I think my child has warning signs that may lead to SCA?

1. *Tell your child's coach or band leader about any previous events or family history*
2. *Keep your child out of play or band*
3. *Seek medical attention right away*

What are the survival steps for sudden cardiac arrest?

- *Immediate activation of EMS*
- *Early CPR with an emphasis on chest compressions*
- *Immediate use of the onsite AED*
- *Integrated post-cardiac arrest care*