



# News Release

## FOR IMMEDIATE RELEASE

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### **Tackling Heart Health for Athletes**

In 2023, college athletes LeBron James Jr. and Josh Davis suffered sudden cardiac arrest during team practices. According to the National Library of Medicine, sudden cardiac arrest is the leading cause of death for young athletes, and reports suggest that approximately 1 in 40,000 to 1 in 80,000 athletes die of sudden cardiac death each year.

Scott Shurmur, M.D., a cardiologist at the Texas Tech Physicians Center for Cardiovascular Health, shared his experience as a former collegiate athlete and expertise to address this growing health issue.

“It can be caused by a variety of things,” Shurmur said. “The most common cause is in a pathologic and abnormal thickening of heart muscle, called hypertrophic cardiomyopathy, found usually in one part of the heart, but not all of it. This can cause fatal rhythm problems that aren’t life-sustaining. Instead of beating regularly, normally efficiently, the heart just kind of wiggles and doesn’t supply enough blood to the body.”

Shurmur said that there are a number of leading conditions which cause cardiac failures. Hypertrophic cardiomyopathy is the most common, followed by an absent coronary artery and Brugada syndrome, a genetic condition that causes an irregular heartbeat.

Genetics and family history play a key role in cardiac issues in athletes, and they also can determine if athletes are able to play. “Them a va va

Shurmur explained the difficulty for athletes to know if they are suffering from cardiac arrest in advance compared to non-athlete individuals. “There can be some shortness of breath, but in young, healthy people who are conditioned, usually there aren’t symptoms. The first symptoms are relatively catastrophic, and that’s one of the real difficulties.”

Shurmur acknowledged that certain supplements can be dangerous for the heart. He advised looking out for supplements like raw amino acids and creatine. He added that whey protein is a safe supplement for athletes to gain muscle mass.

“Creatine, one has to be careful with, and the problem with any supplements is the FDA does not scrutinize them,” Shurmur said. “Claims can be made about what’s in them, and other things can be in them. There can be things like anabolic steroids in them even though it appears nowhere on the label.”

Athletes should think more than short-term. Implementing something as simple as healthy hydration can save them now and long-term from heart issues.

“As you’re playing in your career, make sure you’re well hydrated,” Shurmur said. “Critical deficiencies in hydration can lead to passing out spells and loss of a couple specific minerals. Notably, magnesium and potassium can leave you at risk of a heart arrhythmia.”

An electrocardiogram (EKG) is a screening test that records the electrical signal from the heart to check different heart conditions. EKG screenings have gained a lot of push to be required for all competitive athletes at the high school level or higher. Shurmur clarified that an EKG isn’t necessary for every athlete but emphasized that every athlete needs a good history and exam with an experienced physician.