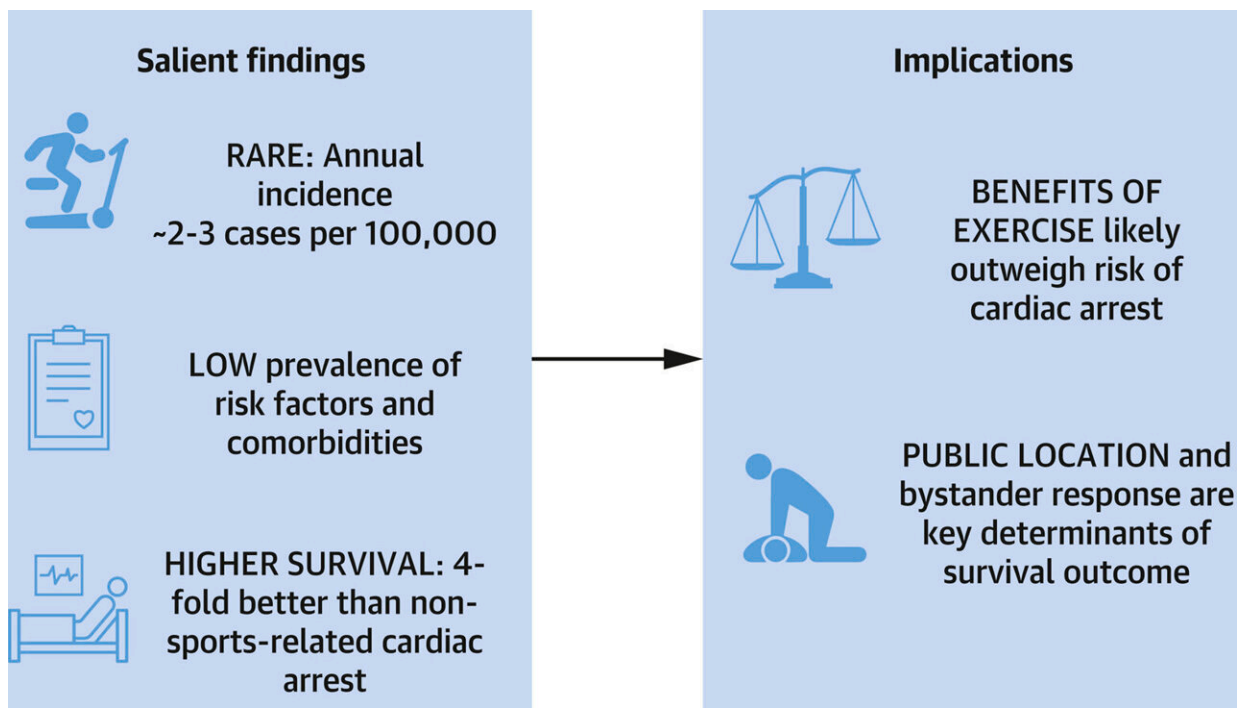


Sports-related sudden cardiac: Rare in older adults

January 30 2023



Graphical abstract. Credit: *JACC: Clinical Electrophysiology* (2023). DOI: 10.1016/j.jacep.2022.10.033

The annual incidence of sports-related sudden cardiac arrest in older adults is rare: 2 to 3 cases per 100,000 people.

Of the 4,078 total sudden cardiac arrest cases studied in people 65 and older, 77 (1.9%) occurred during or following an exercise activity, such

as cycling, gym workout, running, or playing golf or tennis. Most of the cardiac arrests occurred in men (91%).

Investigators also analyzed [medical records](#), which were available for 47 people with sports-related cardiac arrest and 3,162 for people with non-sports-related cardiac arrest. This analysis revealed that people who experienced sudden cardiac arrest during or shortly after exercise were more likely to have fewer cardiovascular risk factors and other [health issues](#) than people who did not experience exercise-related sudden cardiac arrest.

People who experienced sports-related cardiac arrest were also more likely to experience it in a public location, which contributed to being four times more likely to survive than those who experienced a non-sports-related cardiac arrest.

A sudden cardiac arrest occurs when an electrical malfunction causes a person's heart to stop beating. This is an extremely dangerous event, with most people dying within minutes. The good news is that in recent years, the occurrence of sudden cardiac arrest has decreased among people of working age. But for [older people](#), the rates of sudden cardiac arrest have increased.

Exercise is one of the most heart-healthy habits to engage in. In rare cases, however, it can trigger an irregular heart rhythm that leads to sudden cardiac arrest.

Investigators analyzed sudden cardiac arrests that have occurred among people age 65 and older in Portland, Oregon, and Ventura County, California. To do this, they reviewed data collected as part of two prospective studies: The Oregon Sudden Unexpected Death Study, which has been ongoing since 2002, and the Ventura Prediction of Sudden Death in Multi-ethnic Communities study, which has been

ongoing since 2015. The data excluded people who experienced sudden cardiac arrest while hospitalized and people for whom resuscitation was not attempted.

People who died from sudden cardiac arrest during sports activity or within one hour of the activity were categorized as having sports-related sudden cardiac arrest.

The findings reveal that even though sports activity is steadily rising in [older adults](#), sudden cardiac arrest triggered by sports activity is uncommon. Furthermore, people who have sudden cardiac arrest with exercise tend to have fewer comorbidities and cardiovascular risk factors than people who have sudden cardiac arrest not triggered by exercise. Taken together, the benefits of sports activity likely outweigh the risk of associated [sudden cardiac arrest](#) risk, the authors conclude.

"The annual incidence of sports-related sudden [cardiac arrest](#) among older adults is extremely rare," said Sumeet S. Chugh, MD, the Pauline and Harold Price Chair in Cardiac Electrophysiology Research, director of the Heart Rhythm Center in the Smidt Heart Institute at Cedars-Sinai, and senior author of the study.

"This means older people who regularly participate in sports should continue. Those who develop new symptoms should consult their physician. Those who want to start should be encouraged to do so, but only after consulting their physician and obtaining an exercise prescription."

The research is published in the journal *JACC: Clinical Electrophysiology*.

More information: Lauri Holmstrom et al, Sudden Cardiac Arrest During Sports Activity in Older Adults, *JACC: Clinical Electrophysiology*

(2023). [DOI: 10.1016/j.jacep.2022.10.033](https://doi.org/10.1016/j.jacep.2022.10.033)

Provided by Cedars-Sinai Medical Center

Citation: Sports-related sudden cardiac: Rare in older adults (2023, January 30) retrieved 6 May 2024 from <https://medicalxpress.com/news/2023-01-sports-related-sudden-cardiac-rare-older.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.