

Sudden Cardiac Arrest "Have a Plan"

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ONE NATION. ONE TEAM.

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Sudden Cardiac Death

- Rare but high stakes (fatal)
- Often first manifestation of underlying heart disease
- Reduced but not eliminated by PPCS (i.e. screening)
- English experience in a screened population (7:100K)
- Goal is to SCD >> aborted SCA
- This requires careful EAP





THE CALL TO HEALTH CARE PROFESSIONALS FOR EAP

THE PRESENT AND FUTURE

STATE-OF-THE-ART REVIEW

Sports Cardiology



Core Curriculum for Providing Cardiovascular Care to Competitive Athletes and Highly Active People

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The last few decades have seen substantial growth in the populations of competitive athletes and highly active people (CAHAP). Although vigorous physical exercise is an effective way to reduce the risk of cardiovascular (CV) disease, CAHAP remain susceptible to inherited and acquired CV disease, and may be most at risk for adverse CV outcomes during intense physical activity. Traditionally, multidisciplinary teams comprising athletic trainers, physical therapists, primary care sports medicine physicians, and orthopedic surgeons have provided clinical care for CAHAP. However, there is increasing recognition that a care team including qualified CV specialists optimizes care delivery for CAHAP. In recognition of the increasing demand for CV specialists competent in the care of CAHAP, the American College of Cardiology has recently established a Sports and Exercise Council. An important primary objective of this council is to define the essential skills necessary to practice effective sports cardiology. (J Am Coll Cardiol 2017;70:1902-18) © 2017 Published by Elsevier on behalf of the American College of Cardiology Foundation.

mains incompletely understood, but is increasingly nal care including the development of exercise

ompetitive athletes and highly active people relevant in clinical practice. People with occult CV (CAHAP) are a growing population. Although disease are susceptible to sudden cardiac death durroutine physical exercise is an effective way ing exercise. However, sudden death prevention repto reduce the risk of cardiovascular (CV) disease, it resents only 1 element of caring for CAHAP. Accurate does not confer complete immunity (1,2), and actually interpretation of diagnostic testing with an emphasis increases the risk of CV events acutely, even in on differentiating pathology from physiological trained individuals (3). The complex interplay be- exercise-induced adaptation, efficient and targeted tween CV disease and vigorous physical activity re- assessment of symptoms, and provision of longitudi-

no PPCS approach will eliminate exercise-related sudden cardiac arrest. Comprehensive emergency action planning focusing on access to timely bystander cardiopulmonary resuscitation and early defibrillation is required to ensure efficient and structured response to sudden cardiac arrest. Sports cardiologists are encouraged to work with organizations that sponsor, house, or oversee competitive sports and organized exercise programs to develop, rehearse, and refine emergency action plans that are specific to the athletic venue and type of exercise performed.

Key Component of the E.A.P

- Documentation of everything (personnel, venue maps, etc.)
- CPR training (ideally universal for all people at a training / competition venue)
- AED accessibility (< 2min. time to player at 100% of training and competition)
- EMS integration (access, egress, chain of command)
- Annual practice & revision



STEPS to SUCCESS

- ✓ Prioritize E.A.P.
- ✓ Champion universal buy-in.... "The best coach I ever had was the one who saved my life."
- ✓ CPR training
 - Mandatory for all staff
 - Encouraged for everyone else
- ✓ AED Access & Comfort
- ✓ Liaise with EMS
- ✓ Practice, Practice, Practice
- ✓ Document
- ✓ Review
- ✓ Revise







