

Sudden cardiac death prevention: Strategies for high-risk populations

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Sudden cardiac death (SCD) remains a major public-health issue worldwide. This presentation examines modern strategies for identifying and protecting high-risk individuals. Discussion topics include electrocardiographic screening, inherited arrhythmia syndromes, wearable monitoring, and implantable cardioverter-defibrillator (ICD) therapy. The talk reviews breakthroughs in genetic testing and AI-enhanced arrhythmia prediction. Case studies illustrate real-world challenges in risk-stratification and guideline implementation.

New technologies, such as subcutaneous ICDs and remote ICD monitoring, are assessed for their role in expanding access and improving safety.

Biography

Ethan Brooks is a cardiac electrophysiologist at Stanford University specializing in arrhythmia management and SCD prevention. He has led major research initiatives in genetic arrhythmia syndromes and digital monitoring. Widely published, he is a respected figure in electrophysiology education and global outreach.

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