



**ARE YOU
AT RISK?**

Sudden Cardiac Arrest (SCA)

Medtronic

WHAT IS SUDDEN CARDIAC ARREST?

Sudden Cardiac Arrest (SCA) is an electrical problem with the heart that triggers a dangerously fast heart rate (ventricular tachycardia) or irregular rhythm (ventricular fibrillation). If not treated immediately, SCA can be fatal. Approximately 95% of people who experience an out-of-hospital cardiac arrest event and are not treated by defibrillation within 10 minutes will die.¹

SCA vs. Heart Attack

Sudden cardiac arrest is not the same as a heart attack. A heart attack is a “plumbing” problem, caused by blockage(s) in the arteries leading to the heart and killing heart muscle. A heart attack may lead to a sudden cardiac arrest event.

What Are the Risk Factors for SCA?

- Previous heart attack or SCA
- Family history of SCA or other heart disease
- Heart failure
- Low ejection fraction
- Rapid or abnormal heartbeats starting in the bottom chambers of the heart

What Are Symptoms of SCA?

- Dizziness
- Racing heartbeat
- Loss of consciousness

TREATING SCA THROUGH DEFIBRILLATION

The most effective way to treat SCA is through defibrillation. It involves delivering electrical shock to your heart to restore the normal heartbeat. There are two types of devices that can deliver these electrical shocks: AEDs and ICDs.

Automated External Defibrillator (AED)

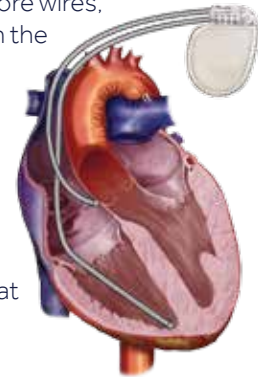
An AED is a portable device used by emergency response teams or the general public to shock the heart, giving the heart a chance to restart normal electrical activity and resume beating effectively. However, if defibrillation is delayed by more than 10 minutes, the survival in adults is less than 5%.²



Implantable Defibrillator (ICD)

An ICD is a device implanted underneath the skin, usually near the collarbone. One or more wires, called leads, run from the ICD through the veins and into the heart.

It continuously monitors the heart rhythm. If it detects an abnormal or fast heart rhythm, low or high energy shocks are sent to reset the heart to a normal rhythm. ICDs are proven to be 98% effective in treating dangerous ventricular arrhythmias that can lead to sudden cardiac arrest.^{3,4}



5%

Survival Rate
without
Defibrillation²



ICDs are

98%

effective in treating
dangerous ventricular
arrhythmias^{3,4}

350,000

lives are lost to SCA every
year in United States¹

That's

**1 every
90 seconds**

or about 1,000 each day¹

To find out if you or someone you know may be at risk for SCA, check out SCArisk.org for an assessment tool or visit AsktheICD.com for more info on ICDs and SCA.

*Out of hospital survival rate to discharge.

References

- ¹ Heart Rhythm Society Online. About Sudden Cardiac Arrest (SCA). <http://www.hrsonline.org/Patient-Resources/Heart-Diseases-Disorders/Sudden-Cardiac-Arrest-SCA#axzz3ER40pGv2>
- ² Sudden Cardiac Arrest Foundation AED Fact Sheet. Downloaded Sept. 19, 2016. http://www.suddencardiacarrest.org/aws/SCAA/pt/sd/news_article/43774/_PARENT/layout_details/false
- ³ Zipes DP, Roberts D, for the Pacemaker-Cardioverter-Defibrillator investigators. Results of the International Study of the Implantable Pacemaker Cardioverter-Defibrillator: A Comparison of Epicardial and Endocardial Lead Systems. *Circulation*. July 1, 1995;92(1):59-65.
- ⁴ Volosin, et al. Virtual ICD: A Model to Evaluate Shock Reduction Strategies. Presented at HRS 2010 (PO3-125).

Brief Statement

Additional Device Information

An implantable cardioverter defibrillator (ICD) system delivers therapies to treat patients with heart rhythm disorders or who are at significant risk of developing heart rhythm disorders. An ICD is placed inside your body and works automatically. Risks associated with an ICD system implant include, but are not limited to, infection at the surgical site and/or sensitivity to the device material, failure to deliver therapy when it is needed, or receiving extra therapy when it is not needed. After receiving an ICD system, you will have limitations with magnetic and electromagnetic radiation, electric or gas-powered appliances and tools with which you are allowed to be in contact. Treatment with an ICD system is prescribed by your physician. This treatment is not for everyone. Please talk to your doctor to see if it is right for you. Your physician should discuss all potential benefits and risks with you. Although many patients benefit from the use of this treatment, results may vary. For further information, please call the Medtronic toll-free number at 1-800-551-5544, x41835 (8:00 a.m. to 5:00 p.m., Monday – Friday, Central time) or see the Medtronic website at www.medtronic.com.

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