What can I do about sudden cardiac arrest?

Working together to improve the diagnosis, treatment and quality of life for all those affected by arrhythmias
Automated external defibrillator (AED) An emergency lifesaving device that can be used by anyone to help restart the heart when sudden cardiac arrest strikes

Basic Life Support (BLS) A level of medical care used to treat SCA until the patient reaches hospital

Cardiopulmonary Resuscitation (CPR) A temporary measure used to continue a minimal supply of oxygen to the brain and other organs

Defibrillation The process in which a controlled electronic shock is given to the heart, helping to re-establish a normal rhythm

Implantable Cardioverter Defibrillator (ICD) A small device implanted in a patient to allow automatic defibrillation at when needed

Sudden cardiac arrest (SCA) When the heart stops beating suddenly and unexpectedly without warning

Supraventricular Tachycardia (SVT) A fast rhythm that starts in the upper chambers of the heart; less commonly associated with SCA

Ventricular Fibrillation (VF) A dangerously fast heart rhythm which causes the heart to stop pumping blood effectively. Defibrillation is needed to return the heart back to a normal rhythm. Sudden cardiac arrest can soon follow if the rhythm is not treated quickly with a shock

Ventricular Tachycardia (VT) A fast heart rhythm which can cause collapse or degenerate into VF

Wolff-Parkinson-White Syndrome (WPW) A associated with an abnormal accessory electrical conduction pathway, causing a fast heart rhythm

Contents

What is Sudden Cardiac Arrest (SCA)?

Who can be affected by SCA?

What is the difference between SCA and heart attack?

How is SCA treated?

What is an Automated External Defibrillator (AED)?

The chain of survival

Defibs Save Lives

Placing an AED in your community

Mini-Anne CPR & AED training kit

Treatments for patients who survive a sudden cardiac arrest (SCA)
What is Sudden Cardiac Arrest (SCA)?

Sudden cardiac arrest (SCA) is a condition in which the heart stops beating suddenly and unexpectedly due to a malfunction in the heart’s electrical system. The cause of SCA is a life-threatening abnormal rhythm; an arrhythmia. The most common cause of SCA is ventricular fibrillation (VF).

When in VF, the heart’s rhythm is so chaotic (called ‘fibrillating’), that the heart trembles and is unable to pump blood to the body and brain. Once the heart has entered VF, a sudden cardiac arrest may occur.

During SCA a patient will first lose their pulse, stop breathing and fall unconscious. All of this can happen quickly - in fact, in a matter of seconds...

Sudden cardiac arrest strikes without warning. It does not discriminate by age, race or sex, claiming thousands of lives worldwide each year.

Important information

This booklet is intended for use by people who wish to learn more about sudden cardiac arrest. The information within this booklet comes from research and patients’ experiences. The booklet offers an explanation of sudden cardiac arrest and how it is treated. Additional information can be sourced at the websites provided. Arrhythmia Alliance is leading a national campaign to place AEDs in local communities. For more information about Defibs Save Lives please e-mail: info@defibssavelives.org or visit www.defibssavelives.org
Who can be affected by SCA?

Unfortunately, anyone can suffer a sudden cardiac arrest. SCA is unpredictable and anyone regardless of their age or fitness level, can suffer SCA anywhere, at any time. Risk factors of SCA include a previous heart attack, previous SCA event, fast rhythm in the lower part of the heart, family history of SCA, structural heart abnormalities and heart failure. Although pre-existing heart disease is a common cause of cardiac arrest, many victims have never had a heart problem. Among the causes of SCA in younger people (without a previous heart attack or heart failure) are inherited or congenital arrhythmias; these include Wolff-Parkinson-White syndrome (WPW), Long QT syndrome (LQTS) and Brugada syndrome.

**Wolff-Parkinson-White syndrome (WPW)**

WPW results from an additional connection pathway between the upper (atria) and lower (ventricles) chambers of the heart. This additional pathway occasionally allows very fast and unstable rhythms to develop and this can lead to SCA. These rhythm disturbances most often become apparent in teenage years or early twenties, but occasionally start earlier or later.

In a patient with WPW, electrical impulses arrive at the ventricles too early disturbing the normal heart rhythm. Occasionally this can degenerate into VF. The diagnosis is usually obvious from an electrocardiogram (ECG), although sometimes the characteristic appearances are not evident and may require additional testing to diagnose. However, many patients with WPW have few or no problems throughout their lives.

**Sudden cardiac arrest facts**

- It strikes without warning; killing 250 people a day in the UK
- In the UK, less than 5% of victims survive out of hospital SCA
- It kills more people than lung cancer, breast cancer and AIDS combined
- It can happen to anyone, even young athletes
- Together with CPR, defibrillation is the only way to re-establish the heart’s natural rhythm
Long QT syndrome (LQTS)

Long QT is a syndrome which can cause a disturbance in the electrical system of the heart. This can predispose a person to ventricular tachycardia (VT) which can quickly degenerate into VF. The cause lies in the heart muscle cells which take slightly longer to recover from a heart beat (only by about a tenth of a second). In the presence of LQTS, SCA may be precipitated by such things as certain types of exercise, loud noises, or other sudden stimuli. Events usually occur in children or young people, but can be variable. The diagnosis is apparent from an ECG, which should also be offered to relatives of a patient shown to have Long QT syndrome (LQTS).

Brugada syndrome

Brugada syndrome is an inherited heart rhythm disorder which relates to the functioning of the heart muscle cells. It most commonly presents in people in their thirties and has a tendency to affect South East Asian populations. It can usually be diagnosed from an ECG but additional tests may be required.

Affected people suffer sudden collapse (syncope) due to VF or a very rapid form of VT called ‘Torsade de Pointes’. This can lead rapidly to SCA unless treated with defibrillation.
Arrhythmias can reduce the heart’s ability to work effectively, and if left untreated, a life threatening situation can arise. If the arrhythmia results in VT or VF, an extremely fast and chaotic rhythm can occur. The lower chambers of the heart quiver and the heart pumps blood ineffectively, causing SCA.

What is the difference between SCA and heart attack?

**SCA:**
‘An electrical problem’

SCA is different from heart attack. While heart attack is described as a ‘plumbing problem’, SCA is more of an ‘electrical problem’ that prevents the heart from functioning effectively. Heart attack can lead to SCA, but there are many other causes, such as congenital abnormalities, severe heart failure, electrocution and drug overdose.

**Heart Attack:**
‘A plumbing problem’

Heart Attack (the medical term is myocardial infarction or MI) occurs when part of the heart’s blood supply is reduced or blocked, causing the heart muscle to become injured or die. The person is awake (conscious) and may complain of one or more of the signs and symptoms of heart attack.

**Signs and Symptoms of SCA**
When SCA occurs, the heart stops beating altogether. As a result, blood is no longer pumped throughout the body, including the brain. The person suddenly passes out, loses consciousness, and appears lifeless - except for abnormal ‘gasping’ which may last for several minutes.

Occasionally, SCA victims will experience 10-20 seconds of seizure activity (shaking of the arms and legs) at the onset of the event as the brain stops receiving blood and oxygen from the heart. The SCA victim is never awake and needs immediate help. If nothing is done, the victim will die within minutes. In fact, about 7-10% die every minute without defibrillation.
**Signs and Symptoms of Heart Attack** Most heart attacks involve discomfort in the centre of the chest that lasts more than a few minutes or that goes away and comes back. Some heart attack victims experience mild intermittent chest discomfort that comes and goes over a period of days. These are early ‘warning signs’ that may precede a heart attack. (Some victims, however, do not experience any warning signs.) Chest discomfort can feel like uncomfortable pressure, squeezing or fullness. It can evolve into crushing pain.

**Who is at higher risk of SCA?** Patients with previous heart attack, heart failure or other known heart problems are at an increased risk of experiencing SCA.

SCA is usually caused by VT and/or VF starting in scars or damaged areas of the heart muscle, or very occasionally due to the effects of medication that the patient may be taking. Anyone, at any age, at any time can suffer SCA.

**How is SCA treated?**

**Cardiopulmonary resuscitation (CPR)**

When someone suffers an SCA, defibrillation together with CPR is the only way to re-establish the hearts natural rhythm.

CPR is a temporary measure used to continue a minimal supply of oxygen to the brain and other organs. It is otherwise known as Basic Life Support (BLS) and guidelines to optimise survival from out-of-hospital cardiac arrest for adults, children and newborns. The ‘Resuscitation Guidelines’ are published by the Resuscitation Council (UK) and are available at www.resus.org.uk.

Cardiopulmonary resuscitation (CPR) alone will not restart a heart following SCA.

No bystander intervention = 5% survival  
CPR alone = 9% survival  
CPR + early defibrillation = 50% survival
• Survival rates drop 7 - 10 percent every minute without defibrillation.
• CPR is a temporary measure that maintains blood flow and oxygen to the brain. It will not return the heart to a normal rhythm. Only defibrillation can return a heart to a normal rhythm.
• Quick action by the first person on the scene can truly make a difference in saving a life.
• Automated external defibrillators (AEDs) make early defibrillation readily available and are easy to use, even for lay people with minimal training.

An AED is an emergency life-saving device that can be used by anyone to help restart the heart when SCA strikes. The device is fully portable and gives the heart an electrical charge to establish a regular heartbeat. The AED will only shock when necessary.

Why is it needed?

A person who suffers sudden cardiac arrest may only be in a ‘shockable rhythm’ for the first few minutes; so immediate defibrillation is vital.

• CPR alone only saves 9% of people who suffer a sudden cardiac arrest.
• CPR and an AED used together increases chances of survival five-fold to 50%
How it works

1. When turned on, the AED will instruct the user to connect the pads to the person’s bare chest. All clothing should be removed, including undergarments (especially underwired bras) because these can interfere with the electrical signal. The pads allow the AED to analyse their heart and determine if they require a shock.

2. If the device determines a shock is required, it will charge up in preparation to deliver a shock. The AED is completely safe as it will only deliver a charge when it determines a shockable rhythm is present.

3. When charged, the device instructs the user to ensure no one is touching the victim and then to press a button to deliver the shock. In the case of a fully automatic AED the unit will advise the user that it will deliver the shock without further intervention.

4. When the shock is delivered, the device will instruct the user to begin CPR for a period, after which it will analyse the heart rhythm once again, advising whether a further shock to continue CPR is needed. Anyone can use an AED, no training is needed.
The Chain of Survival

Worldwide guidelines for response to sudden cardiac arrest include ‘The Chain of Survival’. Quick action by the first person on-scene can truly make a difference in saving a life.

The Chain of Survival represents the sequence of five events that must occur quickly to optimise a person’s chance of surviving a cardiac arrest.

The five links of the chain are:

- **Early access** - Dial 999 immediately.
- **Early CPR** - Provide CPR to help maintain blood flow to the brain and organs until the arrival of the defibrillator and advanced medical care.
- **Early defibrillation** - Defibrillation is the only way to re-establish the heart’s natural rhythm following a sudden cardiac arrest.
- **Effective advanced life support** - An emergency team provides airway support, defibrillation, and intravenous medication.
- **Early advanced cardiac life support** - After initial survival of a SCA, a comprehensive management plan is made to decrease chances of further cardiac events.
We have worked with many community groups, clubs and individuals to help place lifesaving equipment for use in the event of an emergency.

The Defibs Saves Lives campaign aims to ensure that all AEDs are available in public places so that life-saving equipment is available to anyone, whatever the time of day. AEDs should ideally be housed in secure, weatherproof, heated cabinets on the exterior walls of buildings such as post offices, village halls, sports centres and other visible places in the community.

If you are a school or a sports team, you may decide to purchase two AEDs; one to be housed in an external cabinet at your club and a portable AED to take on trips away. A public-access AED in an external, heated and secure cabinet is the most versatile installation to ensure that an AED is always available when needed. These are ideal for high streets, shopping centres, sports stadiums, exhibition centres and concert venues.

If an AED is designed for portable use, it might still benefit from being stored in a visible, accessible location, such as a dedicated indoor cabinet. This prevents AEDs from being hidden away or forgotten in desk draws or locked offices.
We offer a great range of fundraising support and information including; training resources, media support and press releases, materials for fundraising and raising awareness, all of which would be tailored to your community. In addition we link your device with your local Ambulance Service and register it with the national database, so that it can be identified and used by anyone in an emergency.

To suit your community, we offer three packages:

❤ **Bronze Package** includes the defibrillator and hanging wall bracket, making it quick and easy for those wanting to place a life-saving device inside your office, club or group.

❤ **Silver Package** includes the defibrillator and hanging wall bracket PLUS a great range of fundraising support and information including; training resources, media support and press releases, materials for fundraising and raising awareness, all of which would be tailored to your community.

❤ **Gold Package** includes everything in the Silver Package PLUS an external cabinet to enable you to make your defibrillator accessible 24/7 to the whole community.

To learn more about the Defibs Save Lives Campaign or to place an AED in your community, please email info@defibsavelives.org or visit the website: www.defibssavelives.org.
Mini-Anne CPR & AED training kit

Arrhythmia Alliance is proud to offer the ‘Mini-Anne Self Directed CPR & AED Skills Learning Programme’.

With a fully interactive DVD, the self-directed Mini-Anne CPR & AED Kit allows individuals to learn the core skills of CPR and the use of an AED in less than an hour. The kit includes the complete set of equipment needed to simulate the process of performing CPR and using an AED; from identifying a patient in need of medical assistance to the arrival of the emergency services.

The interactive DVD is a practical method of teaching these life-saving skills. It employs a unique ‘watch and do’ technique where the user can practice CPR (30 compressions: 2 breaths) on a personal manikin (Mini-Anne) and learn how to use an AED. For more information, or to order your own Mini-Anne CPR & AED Kit(s), please contact the Arrhythmia Alliance team by email: info@heartrhythmalliance.org or call 01789 867 501.
Treatments for patients who survive a sudden cardiac arrest (SCA)

Patients who survive a SCA or who are diagnosed as being at risk of SCA can be treated in a number of ways. Many will be implanted with an implantable cardioverter defibrillator (ICD), a device like a pacemaker which is placed beneath the skin (usually on the upper chest wall) and has wires connecting it to the heart. This device constantly monitors the heart and will deliver a shock to defibrillate the heart if needed. Being fully implanted and completely automatic, the patient is able to lead a normal life with few limitations, safe in the knowledge that the ICD will respond immediately if required (see the Arrhythmia Alliance CRT/ICD/S-ICD Patient Information booklet).

Some patients may only need to take medication alone, or in addition to an ICD. Occasionally some causes of SCA (such as WPW) can be treated by a curative procedure whereby the additional wiring is destroyed by a small burn inside the heart, using a technique known as catheter ablation (see the Arrhythmia Alliance Catheter ablation for cardiac arrhythmias booklet).

All patients who have survived a SCA should be reviewed by a cardiac electrophysiologist (a doctor specialising in heart rhythm disturbances) in order to determine how best to prevent further events and to consider whether family members need to be screened.
Defibs Save Lives
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If you have any queries please do not hesitate to call us on 01789 867501

Registered charity number 1107496
Please remember that this publication provides general guidelines only. Individuals should always discuss their condition with a healthcare professional.

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