

mindray

Sudden Cardiac Arrest in Popular Science

A memo for you, who could be a sufferer or a saver



The Sobering Facts of SCA

Sudden cardiac arrest (SCA) is a sudden and unexpected loss of heart function, breathing and consciousness. When it happens, blood stops flowing to the brain and other vital organs, and the person will die if appropriate resuscitation is not given within minutes. And what makes it worse is that this typically happens without any warning signs.

Ultimately, SCA can happen to people of all ages and in all places. This means that if there are proper procedures and treatment available, many lives can be saved. On the other hand, this also means that many lives are at risk if people are unprepared.

Who could be struck by SCA?

There are various factors that may put you at risk. For example, a family history of coronary artery disease, high blood pressure/cholesterol, an unhealthy lifestyle, obesity, diabetes, age (study shows that the incidence of SCA grows with age), and gender (men have a higher chance of SCA than women) can put people at risk of SCA.





544,000

In China, the number of sudden cardiac death is 544,000 every year¹.


700,000

In Europe, about 55-113 per 100,000 inhabitants a year or 350,000-700,000 individuals a year are affected².


356,000

In the U.S., more than 356,000 people suffer from out-of-hospital SCA every year, and nearly 90% of them die from it³.

What to do when SCA happens?



Call for emergency service.



Check the breathing. If the person lost breathing and his hearts stopped, begin CPR, and ask other bystanders to fetch an AED.



Give CPR by pushing hard and fast on the person's chest at a rate of 100-120 times per minute. Give 2 breaths after every 30 compressions.



Use an AED. Apply the electrode pads on the patient's bare chest and follow the voice instructions step by step.



Keep compressing until paramedics arrive.

¹ Source: Report on Cardiovascular Diseases in China 2014, China National Center for Cardiovascular Diseases

² Source: ERC Guidelines for Resuscitation 2015, European Resuscitation Council.

³ Source: Heart Disease and Stroke Statistics - 2018 Update, American Heart Association.

What is AED?

In most cases, the underlying mechanism of SCA is ventricular fibrillation (VF), in other words, abnormal heart rhythm. An AED, or Automated External Defibrillator, can automatically analyze and detect cardiac arrhythmias of SCA patients, and advise the rescuer of the need to deliver a shock for defibrillation.

Why Mindray AED?

Smarter AED for Easier Use

7" TFT Color Screen

Smarter AED can show you what to do step by step.

Intelligent ResQNavi™

Based on a large number of user behavior and psychological research results, ResQNavi™ technology can evaluate the proficiency level of rescuers, and provide targeted intelligent rescue navigation for different rescuers throughout the whole resuscitation process.

Intuitive Design

- Open the lid to power on
- Up to 3 languages to select
- Simple switching between adult-child mode
- Pre-connected adult/child pads

Reliable & Durable Quality

- 6-surface 1.5m drop test
- IP55 water-/dust-proof
- Meets the standards for helicopter and other transport
- Equipped with high quality consumables. The durable batteries and pads have a life cycle up to 5 years, which results in lower total cost of ownership



Faster & Powerful Shock

QShock™-Faster Time to 1st Shock

It only takes less than 8 seconds to deliver the first shock.

360BTe-High Energy for Better Outcome

BeneHeart C series features 360J biphasic technology with auto-compensation according to patient impedance, which increases the chance to save difficult-to-defibrillate patients.

Stay Connected, Stay Confident

AED-Alert™ 2.0 system⁴ helps managers realize remote and centralized AED management through advanced IoT technology, and replaces manual inspection with automatic self-test to reduce daily maintenance costs.

⁴For further information about the availability of AED-Alert™ 2.0, please contact with your local sales representatives.



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