



PHILIPS

Automated
External Defibrillator

HeartStart OnSite

Side by side. Step by step.
Philips HeartStart OnSite AED

To save a life

Most people have never been in a position to administer an AED. When the moment arrives, it is easy to panic. A calm voice walking you through the process step by step means you are never alone. With Philips AED Solutions, you can have an expert by your side.

It is crucial that AEDs be close at hand, ready to go, designed to be easy to use, lightweight and rugged.

Cardiovascular disease is a leading cause of global mortality, accounting for almost 17 million deaths annually, or 30% of all global mortality.¹



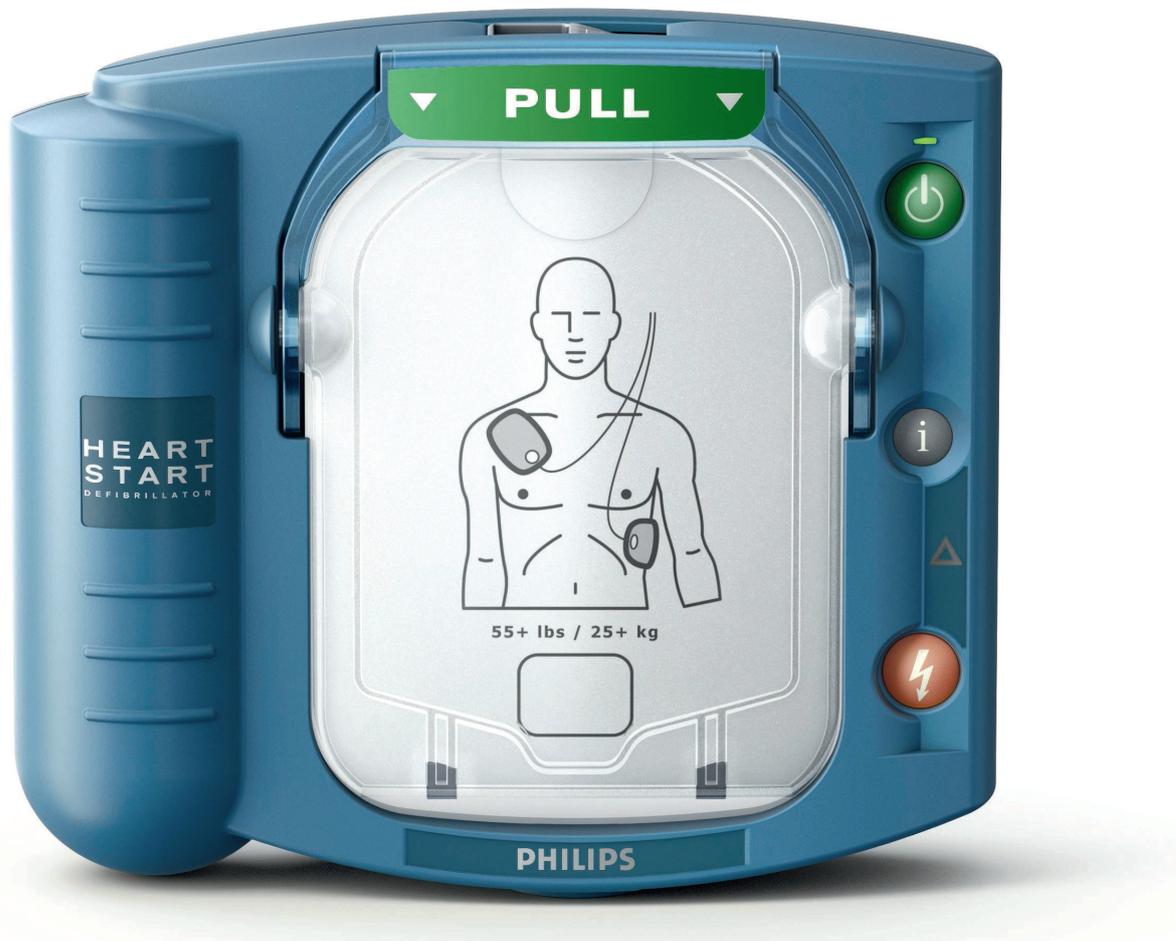
1. Mehra, R. (2007). Global public health problem of sudden cardiac death. *Journal of Electrocardiology*, 40(6 Suppl), S118-122. doi:10.1016/j.jelectrocard.2007.06.023



The Philips HeartStart OnSite assists you through the process of treating a victim of suspected sudden cardiac arrest (SCA) and is the only AED available over the counter. The OnSite AED provides practically real-time guidance through step-by-step voice commands and CPR guidance.

- Includes features to help guide the treatment of sudden cardiac arrest with easy setup, clear voice commands and real time metronome
- Arrives virtually ready to use. With the Ready-Pack configuration, the OnSite AED is positioned inside the carry case with Adult SMART Pads Cartridge and battery already installed and with a spare Adult SMART pads cartridge in place
- Guides you through a cardiac emergency with a simple, step-by-step process, adaptive instructions and intelligent sensors to help deliver therapy
- Use on infants and children under 25 kg or 55 lbs or 0-8 years old, and adults and children over 25 kg or 55 lbs or greater than 8 years old
- Senses when the special Infant/Child SMART Pads cartridge is installed, and automatically adjusts CPR instructions and shock energy
- Can be converted to a trainer with installation of training pads cartridge
- Conducts a series of automatic self-tests daily, weekly and monthly, to check pad readiness and verify functionality and calibration of circuits and systems

Advanced technology. Proven therapy.



Patented Quick Shock feature allows the OnSite to typically deliver a shock within 8 seconds after CPR.²

2. Nichol, G., Sayre, M. R., Guerra, F., & Poole, J. (2017). Defibrillation for Ventricular Fibrillation: A Shocking Update., 70(12), 1496-1509. doi:10.1016/j. jacc.2017.07.778. *Journal American College of Cardiology* doi:10.1016/j. jacc.2017.07.778

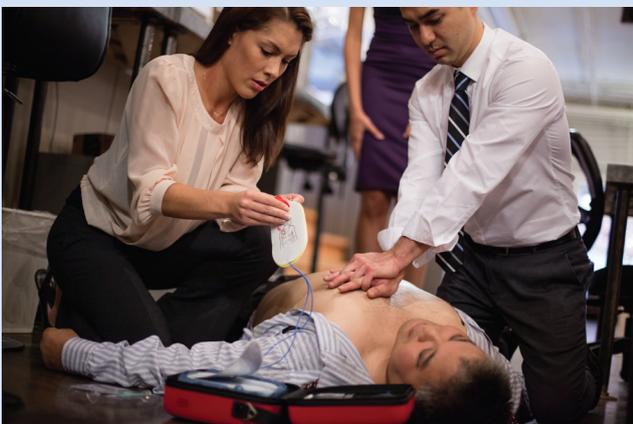


Ready to act. Ready to go.

Designed for the ordinary person in the extraordinary moment, Philips HeartStart OnSite AED is ready to act and virtually ready to go. It allows anyone with little or no training to treat the most common cause of sudden cardiac arrest (SCA) by delivering a shock quickly and effectively, wherever SCA happens.

Start quickly. Treat confidently.

With access to the right equipment and support, you can help save a life. The OnSite AED guides you through the process of treating a victim of suspected sudden cardiac arrest. The OnSite AED provides practically real-time guidance through step-by-step voice commands and CPR guidance.



Easy as 1-2-3

We've equipped OnSite with integrated SMART Pads that will provide feedback to the AED so it can adapt its voice instructions to your actions and your pace. The system won't announce the next step until you are ready. Prompts are repeated and rephrased if needed and include additional instruction to aid understanding.

Answers for your questions

Sudden Cardiac Arrest

Q: What causes SCA?

A: SCA occurs when the electrical system of the heart becomes chaotic, causing it to stop beating effectively. Lacking proper blood flow, the person becomes unresponsive and stops breathing normally. CPR is important, but it alone cannot restore a normal heart rhythm.^{3,4} A shock from a defibrillator is the most effective way to restore the heart's normal pumping rhythm.⁶

Technique

Q: What if I don't know the proper technique?

A: OnSite acts as your personal coach to guide you through the process of treating a victim of suspected sudden cardiac arrest. OnSite provides practically real-time guidance with real-time step-by-step voice instructions.

Q: How soon must the defibrillator shock be administered?

A: The person's best chance of survival is to receive that shock within 3–5 minutes of collapse.^{7,8} A defibrillator will not save every person who experiences SCA, but more lives could be saved if those affected were reached more quickly.⁷⁻⁹ Your quick response makes a real difference.

Q: How do I know if a shock is needed?

A: The defibrillator assesses the patient's heart rhythm. If a shock is advised, it directs you to press the flashing orange Shock button.

Q: What if I don't know where to put the pads?

A: The SMART Pads cartridge contains two adhesive pads that have pictures on them to show you where to place the pads on the person's bare skin, and voice instructions will remind you to look at the pictures. The pads are "smart" because they sense when they have been removed from the cartridge, peeled from their liners, and applied to the patient, causing the voice instruction to adjust to your actions.

Q: What do I tell the professionals when they arrive?

A: They will know what questions to ask you. If an Emergency Medical Services (EMS) responder needs a summary of care, it can be retrieved from the defibrillator's internal memory. The EMS provider simply presses the i-button, and OnSite will verbally recount events from its last clinical use.

Technology

Q: How does OnSite assess heart rhythm?

A: OnSite includes proven Philips technology for heart rhythm assessment, called SMART Analysis. SMART Analysis is a sophisticated algorithm that simultaneously evaluates several attributes of a person's heart rhythm to determine if the rhythm is shockable.

Q: How does OnSite know how much energy to deliver?

A: A technology called SMART Biphasic Impedance Compensation helps OnSite deliver the optimal amount of current and energy. Smart Biphasic is the first biphasic therapy with sufficient evidence to be classed "standard of care" and "intervention of choice" by the American Heart Association.⁴⁻⁹ SMART Analysis and SMART Biphasic's effectiveness are backed by over 40 published, peer-reviewed studies.¹⁰

Training

Q: Is training available?

A: Yes. A special training SMART Pads cartridge can be installed in the defibrillator. It disables the defibrillator's ability to shock, while walking you through patient care scenarios. We also offer easily accessible, online training that discusses everything from setting up an AED program to replacing your defibrillator's battery.

3. Kleinman, M. E., Brennan, E. E., Goldberger, Z. D., Swor, R. A., Terry, M., Bobrow, B. J., . . . Rea, T. (2015). Part 5: Adult basic life support and cardiopulmonary resuscitation quality: 2015 American heart association guidelines update for cardiopulmonary resuscitation and emergency cardiovascular care. *Circulation*, 132(18 suppl 2), S414-S435.

4. Link, M. S., Atkins, D. L., Passman, R. S., Halperin, H. R., Samson, R.A., White, R. D., . . . Kerber, R. E. (2010). Part 6: Electrical therapies: Automated external defibrillators, defibrillation, cardioversion, and pacing: 2010 American heart association guidelines for cardiopulmonary resuscitation and emergency cardiovascular care. *Circulation*, 122(18 Suppl 3), S706-719. doi:10.1161/CIRCULATIONAHA.110.970954.

5. Aschieri, D., Penela, D., Pelizzoni, V., Guerra, F., Vermi, A. C., Rossi, L., . . . Capucci, A. (2018). Outcomes after sudden cardiac arrest in sports centres with and without on-site external defibrillators. *Heart*. doi:10.1136/heartjnl-2017-312441.

6. Patil, K. D., Halperin, H. R., & Becker, L. B. (2015). Cardiac arrest resuscitation and reperfusion. *Circulation Research*, 116(12), 2041-2049. doi:10.1161/circresaha.116.304495.

7. Scott, T. (2017). Use of automated external defibrillators saves lives. *Emergency Nurse*, 25(3), 5-5.

8. Myat, A., Song, K.-J., & Rea, T. (2018). Out-of-hospital cardiac arrest: Current concepts. *The Lancet*, 391(10124), 970-979. doi:https://doi.org/10.1016/S0140-6736(18)30472-0.

9. Guidelines 2000 for cardiopulmonary resuscitation and emergency cardiovascular care. Part 4: The automated external defibrillator: Key link in the chain of survival. The American heart association in collaboration with the international liaison committee on resuscitation. (2000). *Circulation*, 102(8 Suppl), I60-76.

10. Philips Medical Systems. (2009). Philips smart biphasic therapy. Retrieved from <https://www.usa.philips.com/healthcare/product/HC861304/heartstart-frx-automated-externaldefibrillator>

