



The Heart of Dunwoody

AED Implementation Program For The City of Dunwoody Police Department





The Need For AEDs





Everyone's Nightmare



- Sean Morley is a 13 year old boy from Buffalo Grove, Illinois.
- Perfectly healthy student athlete with no history of heart problems
- Suffers **sudden cardiac arrest** after being hit in the chest a baseball estimated to be traveling at 60 miles per hour
- His heart STOPS





AED Save



- A Deerfield Police Officer, *happened* to be passing by at the right time with his **automated external defibrillator (AED)**. Sean was resuscitated and is expected to be back playing the game soon.
- The area police in Deerfiled are equipped with AEDs thanks to the efforts of a local woman, Lauren Gerber, who has an implantable cardio defibrillator (ICD) and whose children have heart conditions.



The Feeling Of Helplessness



- Sgt. T.A. Smith, an 18-year veteran of the department, responded to a report of a man having **chest pains** around 5:15 AM on Wednesday, November 1. As 56-year-old Wayne Fleetwood described the pains to the officer, he suddenly collapsed and stopped breathing. His family stood by helplessly
- His heart STOPPED





AED Save



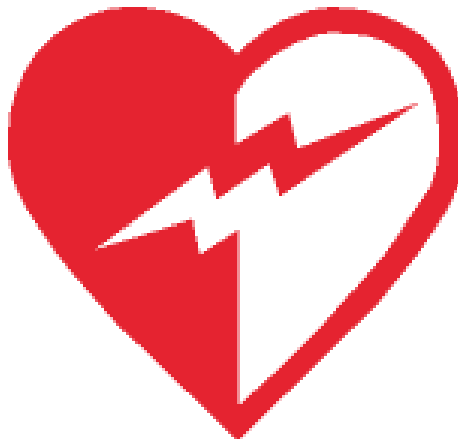
- A deputy quickly applied one of the sheriff's department's *newly acquired AEDs (automated external defibrillators)*. After determining that Fleetwood's heart was in a fatal rhythm known as *ventricular fibrillation--or VF--* the device prompted the officer to push the shock button. The man's wife and 31-year-old daughter watched as the deputy delivered the shock and started CPR. Within moments, Fleetwood regained consciousness and began breathing on his own.



Some AED Background



- A Healthy Heart
- Sudden Cardiac Arrest
- What Is Defibrillation?
- What is an AED

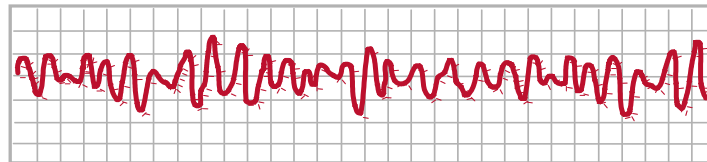




What Is Sudden Cardiac Arrest?



- Sudden Cardiac Arrest
 - SCA is not a heart attack, rather it is a cardiac rhythm disturbance. Sometimes as a result of a freak sports accident or without any warning, the electrical signals that control the pumping of the heart go haywire and the heart stops beating.





SCA: Fiction vs. Fact



	Stereotype	Reality
Gender	Male	Male and Female
Age	Old	Any Age
Risk Factors	Overweight Smoker High cholesterol	Often No Clear Risk Factors
Medical History	Heart Attack	Often No Cardiac History
Presenting Symptoms	Chest Pain Dizziness	Often No Symptoms

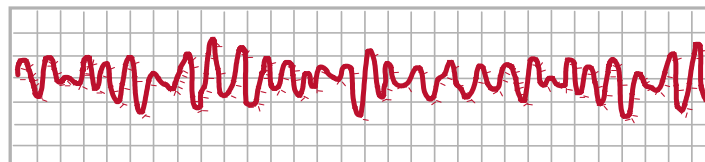


What Is Sudden Cardiac Arrest?



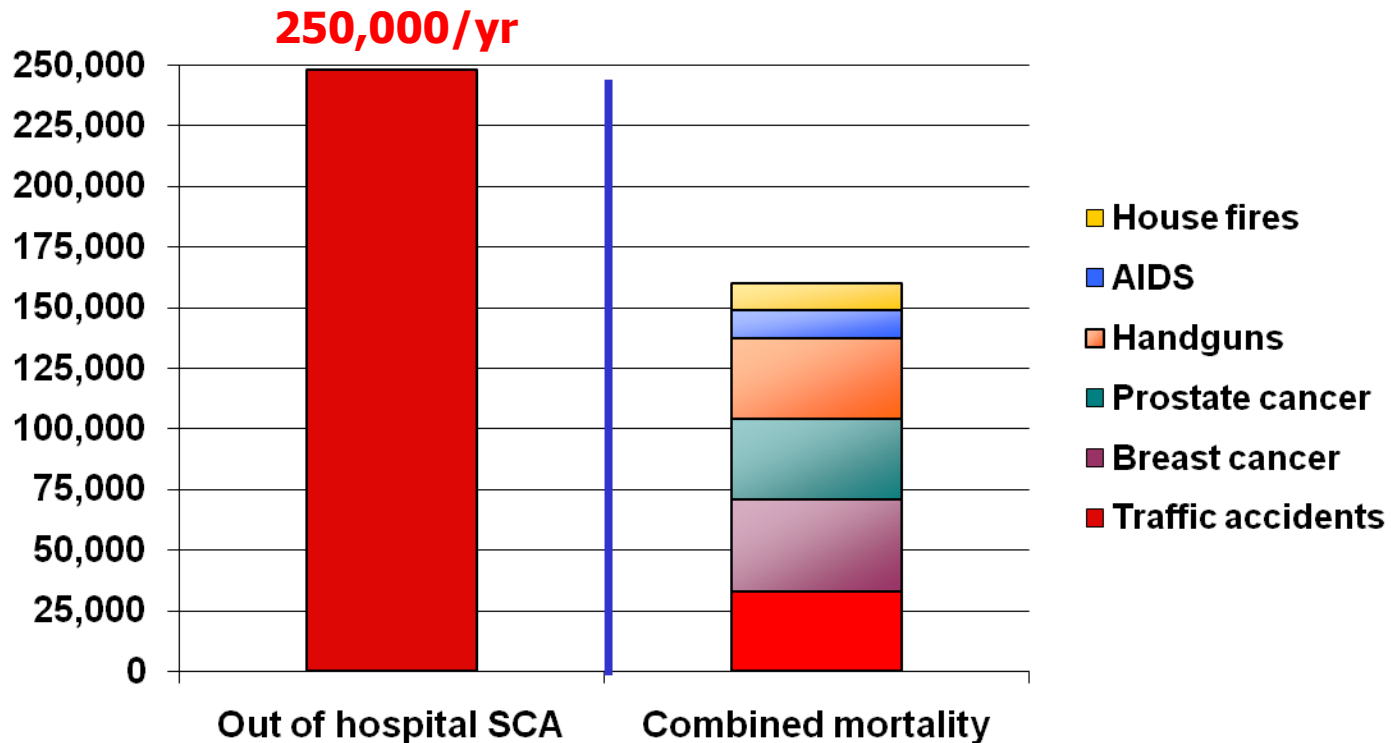
- Sudden Cardiac Arrest
 - Quiet unpredictable killer
 - Indiscriminate in its victims
 - Teachers
 - Child
 - Dads and Moms

Death certain without defibrillation





Sudden Cardiac Arrest



The American Heart Association estimates that SCA causes 250,000 deaths per year in the U.S. alone. That means that more people die each year from SCA than from house fires, AIDS, handguns, prostate cancer, breast cancer and traffic accidents.. **COMBINED!**



Sudden Cardiac Arrest



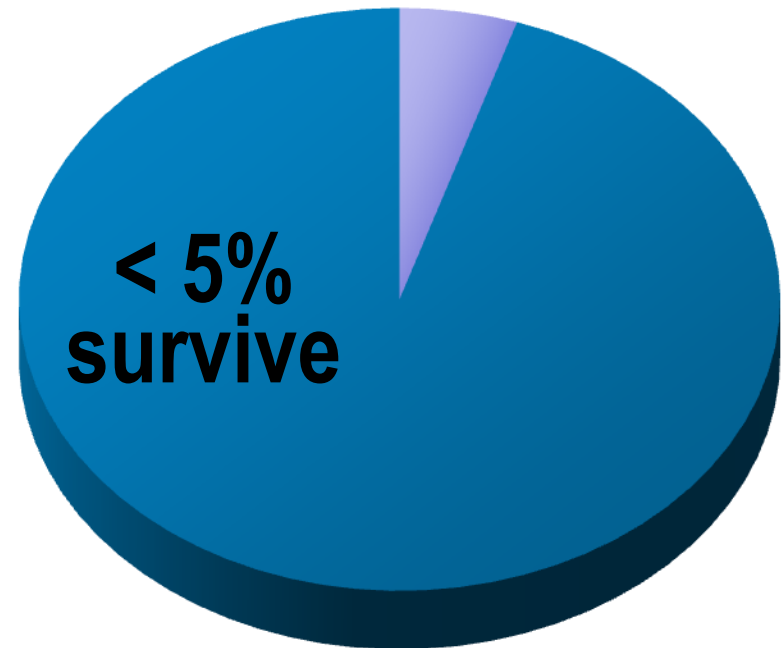
Annual Sudden Cardiac Arrest (SCA) Events – U.S.

600 patients per day
(one every 2 to 3
minutes)

75% out-of-hospital

>50% without prior
symptoms

95% die without
very early
treatment



**Total Events
250,000**



What Is Defibrillation?



- Defibrillation is a process in which an electronic device gives an electric shock to the heart. This helps re-establish normal contraction rhythms in a heart having dangerous arrhythmia or in cardiac arrest.
- In recent years small portable defibrillators have become available. These are called automated external defibrillators or **AEDs**.



What Is An AED?

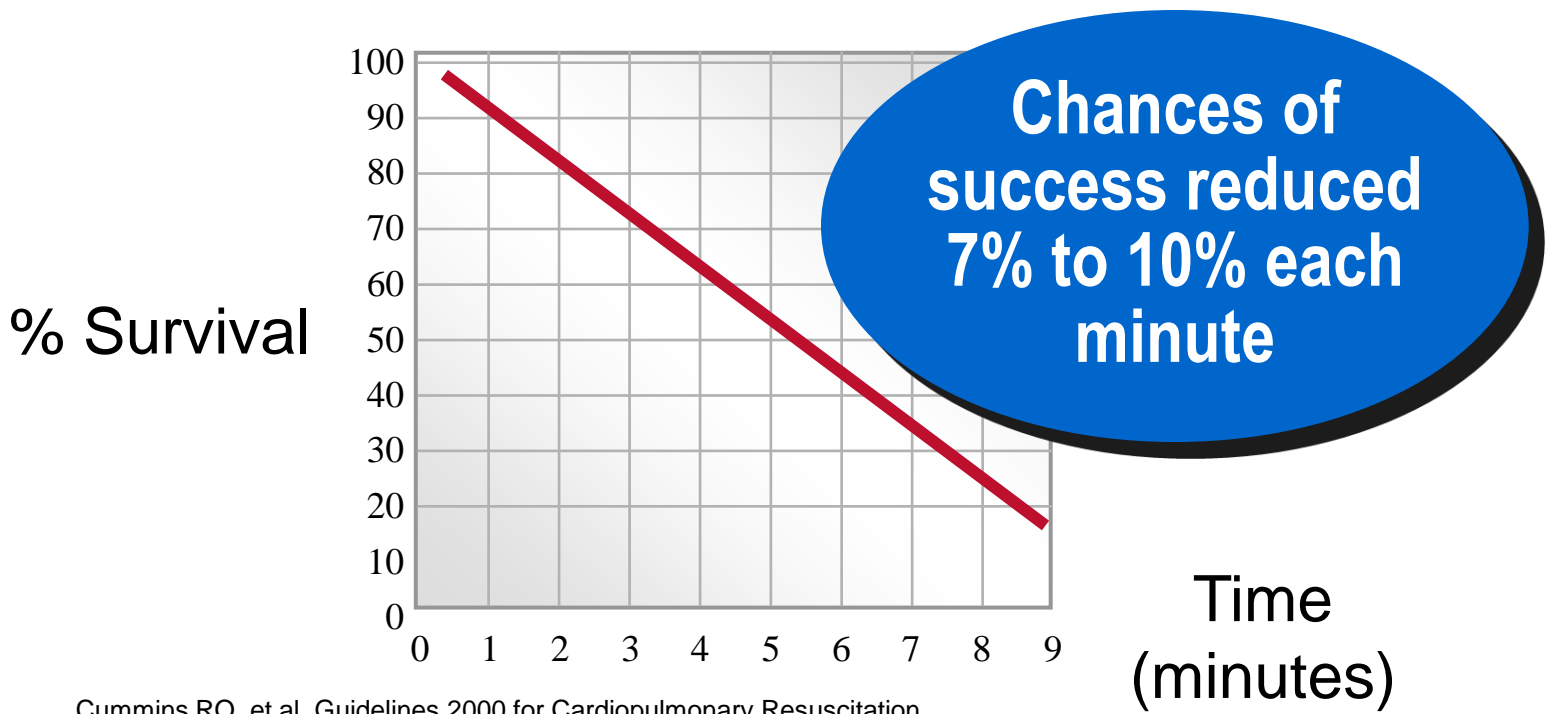


- AED – Automated Electronic Defibrillators
- Provides a controlled electric shock to the heart that has suffered Sudden Cardiac Arrest or VF
- User friendly, designed for the non-medical professional
- Returns the heart to a normal rhythm
- Portable, battery powered devices.
- Can be used at the scene of the cardiac event to provide **early defibrillation**





Early Defibrillation



Cummins RO, et al. Guidelines 2000 for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care (ECC), *Circulation (Suppl)* 2001;102:8, August 22

For the best chance of survival, SCA victims of ventricular fibrillation or tachycardia should receive a life saving shock from a defibrillator within **5 minutes**.



SCA Can Happen To Anyone



- A Dunwoody Resident, mother of three girls, was attending her oldest daughter's Volley Ball tournament. After 10 hours of cheering on the school's Junior 15s, the final match of the day was tied. Without warning, this mother collapsed while cheering on her daughter's team. The 44-year-old woman, in good health, tennis player, non-smoker, collapsed face down on the floor to the horror of the hundreds of fans watching. Without any warning, she had suffered a **sudden cardiac arrest, a ventricular fibrillation.**



SCA Can Happen To Anyone



- Her heart had stopped
- She was not breathing
- There was not an AED in the building



An AED Was Not Available



- This Public School in Cobb County did **NOT** have an AED on site. In fact, there were no AEDs anywhere on the school campus. Despite the efforts of two nurses who immediately began performing CPR, this mother of three did not regain a spontaneous heart beat until she arrived at Kennestone Hospital **42 minutes** after the cardiac arrest.
- Even with CPR, without a regular heart beat, the amount of oxygen to the brain is severely reduce. The brain suffers and is damaged. This is known as an anoxic brain injury.



It Has Happened To Us



- With incredible determination, she has recovered physically, but she has lost memories of family and friends.
- She struggles every day, trying to be the mom she once was to her daughters. Only through the hard work and the prayers of her friends has she come this far.
- An AED on-site or in a nearby police car could have changed her life and perhaps given her a complete and full recovery



Goals and Objectives



- Deliver approximately 50 AEDs to the Dunwoody Police Department for use in police vehicles.
- Provide state-of-the-art protection for all of our community.
- Train all police officers and City staff in the use of these devices.



What Kind of Investment?



- An investment that shows no return on the dollar
- An investment that if used just one time, pays for itself over hundreds of lifetimes
- An investment that buys us the most valuable thing known to man, time and life itself
- An investment in equipment that we hope we never have to use





Where to contribute?



- To make a donation, please make your checks payable to: "The Heart of Dunwoody"

Donations can be mailed to:

The Heart of Dunwoody

#219

2526 Mount Vernon Rd, STE B

Dunwoody, GA 30338



Questions, please call.



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- Thank you