PROJECT HEART RESTART
AND LINKING AEDS TO 911

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- Paramedic/Firefighter – 30 Years
- CPR Instructor – 34 Years
- ACLS Instructor – 24 Years
- EMS Instructor – 24 Years
- BA Public Administration, Miami University
EMS before it was known as “EMS”...
Outline of Program

- Background of Public Service goal/mission
- What AEDs do/why they work
- Who has them?
- How they are maintained?
- Connecting community readiness to emergency response
Public Service Mission

- Public servants goal is to work themselves out of a job
- Citizens want to be empowered!
Community outreach program

Mission to reduce death rate from sudden cardiac arrest

Places AEDs in non-profits; promotes placement in all public places where people gather

Provide training and support
Automated External Defibrillator

Designed to deliver an electric shock to the heart under prescribed conditions

Simplified operation makes it easy for ANYBODY to use

Used by professional rescuers and untrained laypersons

Electric shock can restart the heartbeat of a pulseless victim
Examples of AEDs
More AEDs
More AEDs...
Why are AEDs Important?

- No Bystander CPR – very, very low chance of survival (0-2%)
- Bystander CPR Only – moderate chance of survival (5-25%)
- Bystander CPR & AED – best chance of survival (35-74%)
Rate of Bystander Participation

- Bystander CPR?
- AED used prior to arrival of EMS?
What’s required of owning an AED?

- Physician prescription/medical control
- Trained personnel
- Emergency response plan
- Maintained in working order
- Registered with local EMS
Concerns of the AED Owner

- Theft
- Untrained personnel will fail to use it correctly
- It will be forgotten in a real emergency
- Could hurt somebody with it
REAL Problems with Public AEDs

- Not properly maintained
- Nobody knows where they are
- EMS doesn’t know where they are
How Can We Correct This?

- AED Registry
- Common medical direction
- Common training
- Link to 911 Center
How Can We Make It Work?

- Required registration
- Technology
- Universal protocol with EMS
- Expanded community training
- Empower community responders
Victim collapses
Bystander recognizes collapse, calls 911
911 Operator takes info—enters code
Software recognizes code—simultaneously activates map for operator & notifies citizen responders
Operator provides feedback to caller: “An AED is in the hallway on the second floor near the restroom” for example.
If citizen doesn’t know CPR, dispatcher can also provide instructions
Citizen responder arrives with AED and shock delivered before EMS arrival
How is this paid for?

- Hospital Support
- Public Health Support
- Grants/Private Funding
Who Benefits?

- Cardiac Arrest victims
- AED Owners
- Emergency Medical Services
- Hospitals
- Society
An AED doesn’t do anybody any good if it doesn’t work or can’t be found quickly

The community must know and be willing to perform CPR on cardiac arrest victims
Questions?