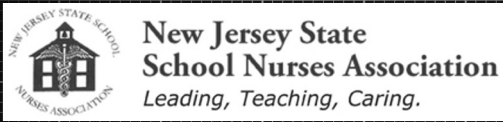
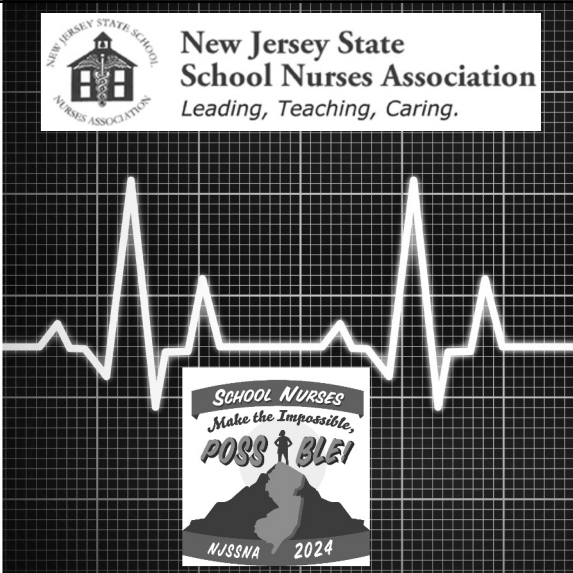


3 Minutes – Are You Prepared?

PRESENTED BY:
JAMES C. SCHATZLE, BS, PARAMEDIC
CEO – TEAM LIFE, INC.





1

Jim Schatzle
TEAM LIFE, Inc.
Paramedic, Founder & President

- Proud Dad of 2 Sons
- 42 Years in Emergency Services: EMT, Firefighter, Paramedic
- UMBC: interned at Johns Hopkins and Shock Trauma Center
- Founded TEAM LIFE in 1994
- Adjunct Faculty Seton Hall University – School of Health & Sciences
- Former Mayor Colts Neck Township
- Master of Arts Candidate in Happiness Studies – Centenary University

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Financial Interest

Jim Schatzle – 3 Minutes – Are you Prepared?

Mr. Schatzle has no relevant financial or nonfinancial relationship to disclose.

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Day in the Life of a
School Nurse

4

Real Day in the Life of a School Nurse

Assessment	Documentation	Social Work	Negotiator
Diabetic Educator	School Policies	Psychology	Students
Ortho Expert	State Policies	Compassion	Parents
Asthma Expert	CDC Policies	Disciplinarian	Teachers
Dermatology Expert	Local Board of Health	Educator	Administration
Gastrologist Expert	Sports Physicals		Board of Education
Seizure Expert			Family
Emergency Services EXPERT			EMS

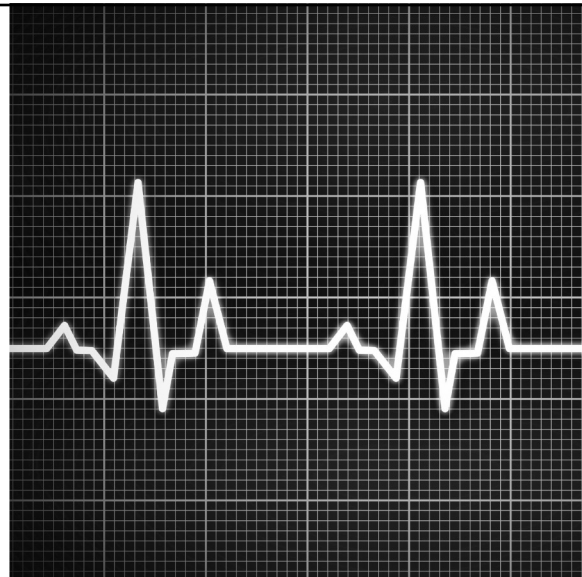
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Not easy to talk about

“MY LIFE WORK HAS BEEN AND WILL CONTINUE TO BE, TO LIMIT OTHERS PAIN AND SUFFERING. MY ULTIMATE GOAL IS TO PREVENT AND PREPARE PEOPLE IN CASES OF AN EMERGENCY”

JIM SCHATZLE



6

3 Life Threatening Emergencies



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Choking – scary but fixable (if prepared)

- 1974, Dr. Henry Heimlich credited for the discovery of abdominal thrusts
- 1984 Took 10 years for Guidelines to be adapted.
- Extensive general knowledge about how to treat choking
- 2014 LifeVac invented.
- 2024 Media attention – a tool in the kit
- Still, 5,325 deaths from choking (NSC) (2021)

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LifeVac



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External Bleeding – scary but fixable (if prepared)

- Hemorrhagic Shock – 4 Stages (% of blood loss)
- Age, size, health
- External / Internal
- Number of Patients
- Mechanism of Injury
- Resources / Equipment

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Traumatic Bleeding



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**STOP
THE BLEED[®]**

**Military to Public
Bleeding Control**

**Training and
Resources**

American College of Surgeons

12

Cardiac Emergencies– scary but fixable (if prepared)

- **#1 call to 911**
- **Adult / Child / Infant**
- **Conscious / Unconscious**
- **Number of Patients**
- **Mechanism of Injury**
- **Resources / Equipment**

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Cardiac Emergencies - Assessment

- **ADULT**
 - **Stable vs. Unstable**
 - **Chief Complaint**
 - **Event**
 - **Onset**
 - **Heart Rate**
 - **Blood Pressure**
 - **Respiratory Rate**
 - **Skin – Color, Temperature, Condition**
 - **History**
 - **Diagnostic Equipment**



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Cardiac Emergencies – Vital Signs

- **Adult**
 - **Heart Rate** **60 - 100**
 - **Respiratory Rate** **12 - 20**
 - **Blood Pressure** **110/70**
 - **Skin** **Warm, Dry, Normal**
 - **Pupils** **PEARL**
 - **Pulse Oximetry** **> 94%**
 - **Temperature** **98.6 F**

Vital Sign Ranges			
Age-Appropriate Vital Signs			
	Heart Rate	Respirations	Blood Pressure
Newborn	80-180	30-60	60-80/30-60
Toddler	80-110	24-32	90-100/50-65
School Age	60-110	18-26	95-110/55-70
Adolescent	50-90	16-20	110-120/60-80
Adult	60-100	12-20	110-140/60-90

Age-Appropriate Vital Signs

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Cardiac Emergencies – Treatment – Adult (AHA) Chest Pain - MI



- **Adult**
- **Conscious / Responsive**
 - **Chest Pain**
 - Nitro Tab 0.4 mg Systolic over 100
 - ASA 324 Mg
 - Oxygen if pulse ox under 94%
 - 12 Lead ECG
 - IV
 - Morphine
 - Transport to Cath Lab (STEMI)

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Cardiac Emergencies – Treatment – Pediatric (AHA) Rate Issues – Bradycardia

- Bradycardia
 - Stable
 - 12 Lead ECG
 - Underlying Causes (H's & T's)
 - Bradycardia Persists
 - IV
 - Epinephrine 0.01mg/kg
 - Atropine 0.02mg/kg
 - External Pacing
- H's & T's
 - Hypoxia
 - Hypovolemia
 - Hypothermia
 - Hydrogen ion (acidosis)
 - Hypo / Hyperkalemia
 - Hypoglycemia
 - Toxins
 - Tension pneumothorax
 - Tamponade, cardiac
 - Thrombosis, pulmonary
 - Thrombosis, coronary

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Cardiac Emergencies – Treatment – Pediatric (AHA) Rate Issues – Tachycardia

- Tachycardia
 - Stable
 - 12 Lead ECG
 - Causes
 - Vagal Maneuvers
 - IV
 - Adenosine
- Tachycardiac
 - Unstable
 - 12 Lead ECG
 - IV
 - Synchronized Cardioversion

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Commotio Cordis



19

The infographic features a central silhouette of a person with a heart symbol on the chest. Surrounding the silhouette are six circular icons connected by lines, representing the components of a cardiac emergency response:

- AIRWAY**: Icon of a person's head with an open airway.
- TIMER/RECORDER**: Icon of a stopwatch.
- COMPRESSOR**: Icon of hands performing chest compressions.
- AED/MONITOR/DEFIBRILLATOR**: Icon of a lightning bolt.
- ADMINISTER MEDICATIONS**: Icon of a pill and a prescription symbol (Rx).
- TEAM LEADER**: Icon of a megaphone.

Text instructions for the compressor and AED/monitor/defibrillator steps are provided:

- Every 5 cycles or 2 minutes, alternates with
- Every 5 cycles or 2 minutes, alternates with

**Cardiac Emergencies
Sudden Cardiac Arrest**

More than 5000 children experience out of hospital SCA each year in the United States.

www.ahajournals.org/doi/full/10.1161/circulationaha.111.071472 2012

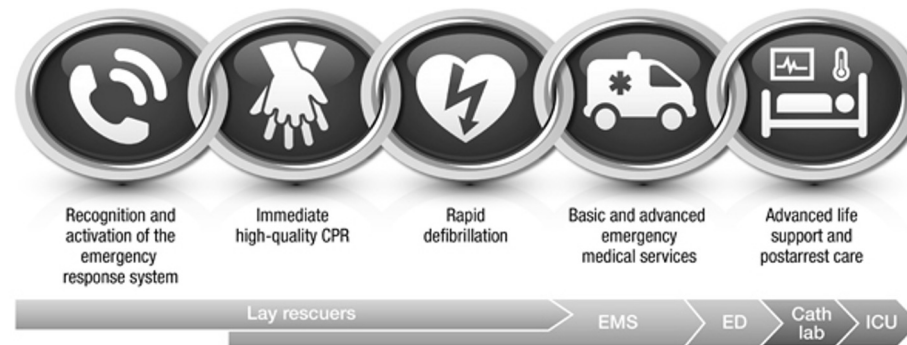
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CHAIN OF SURVIVAL

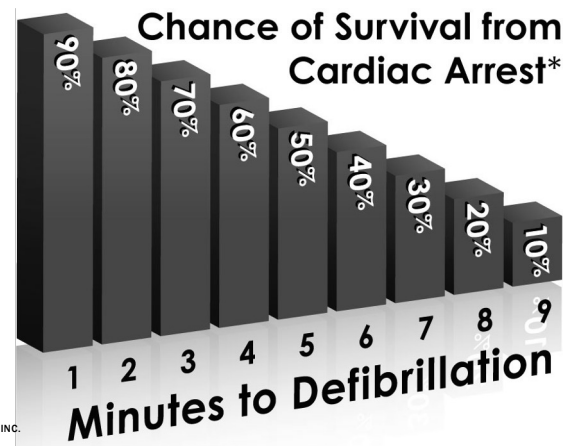


American Heart Association

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RAPID DEFIBRILLATION



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AUTOMATED EXTERNAL DEFIBRILLATOR (AED)



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AED IMPLEMENTATION PLAN

- Medical Oversight
- Inform Your Local EMS
- Choose An AED
- Check Technical And Program Support
- Determine How Many AEDs Are Needed – Inside & Outside
- Place Your AEDs In A Visible And Accessible Location
- Develop A Training Plan
- Raise Awareness Of The AED Program
- Ongoing Routine Maintenance



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AED IMPLEMENTATION PLAN

Which AED?

When you are selecting your device it is extremely important that you look at all the AEDs available and what unique features they may have.

Be cautious of how old their medical technology is.



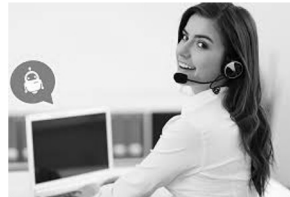
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AED IMPLEMENTATION PLAN

Check Technical And Program Support



- Beyond shipping you a box
- On-Going Support
- Upgrades
- Post Rescue

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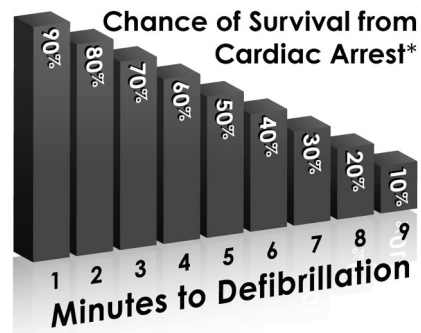
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AED IMPLEMENTATION PLAN

Determine How Many AEDs Are Needed



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AED IMPLEMENTATION PLAN

Ongoing Routine Maintenance

1. Check Your Status Indicator
2. Change Your Pads (when required)
3. Change Your Battery (when required)
4. Service Plans



- **Never remove the battery because it is beeping, there is a reason, check the AED, if needed make the call**

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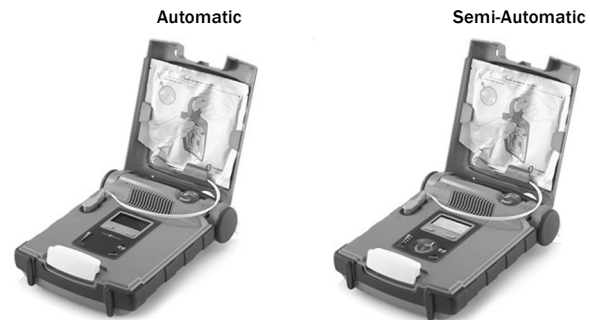
AUTOMATED EXTERNAL DEFIBRILLATOR (AED) TYPES



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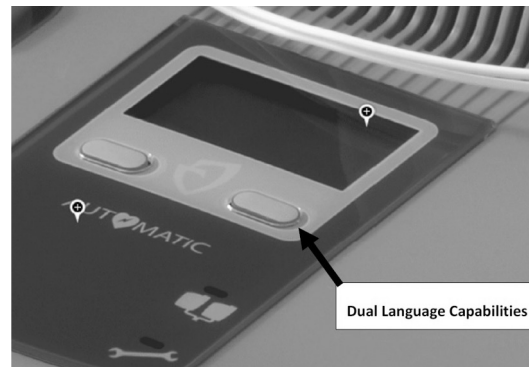
AUTOMATED EXTERNAL DEFIBRILLATOR (AED) FEATURES



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AUTOMATED EXTERNAL DEFIBRILLATOR (AED) FEATURES



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AUTOMATED EXTERNAL DEFIBRILLATOR (AED) FEATURES



Data Transfer

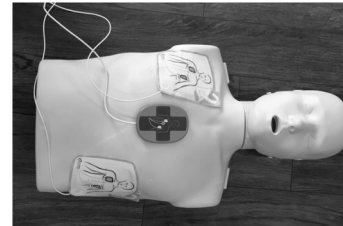
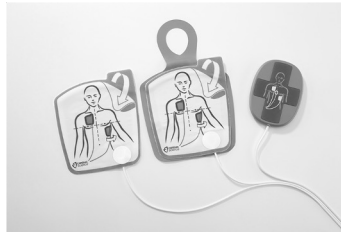
- USB Flash Drive
- Direct Connect Cable

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AUTOMATED EXTERNAL DEFIBRILLATOR (AED) FEATURES

Intellisense Defibrillation Pads



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AUTOMATED EXTERNAL DEFIBRILLATOR (AED) FEATURES



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PADS

- Non-Polarized
- Biphasic
- Pre-Connected
- Energy Delivered

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EXTENDING THE LIFE OF YOUR AED AED Storage



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EXTENDING THE LIFE OF YOUR AED AED Storage



Weather Proof Case with Stand

Winter, Spring,
Summer and Fall –
leave your AED out
365 Days a year

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The AED world in 2024

- AEDs need to be updated
- Feedback Device should be part of your AED
- Dual Language should be part of your AED
- Supply Chain issues
- Discontinued AED and Accessories
- Fixed energy units
- Lead times for AEDs

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Timing

- Now is the Time to Upgrade your AEDs
- Now is the Time to expand your AED program
- Now is the Time to expand your CPR trained staff
- Now is the Time to get Outdoor AEDs
- Now is when you as inside Champion have the attention this has always deserved

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- www.ahajournals.org/doi/full/10.1161/circulationaha.111.071472
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