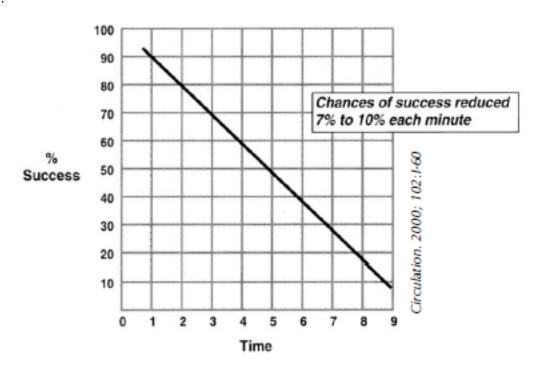
2.3 Automatic External Defibrillator (A.E.D)

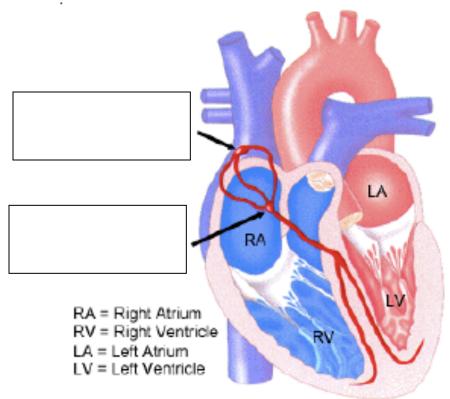
The Chain of Survival



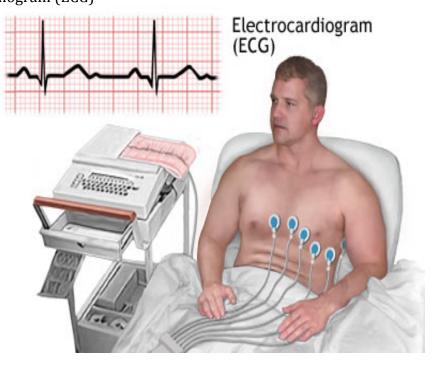
The 10 Minute Window



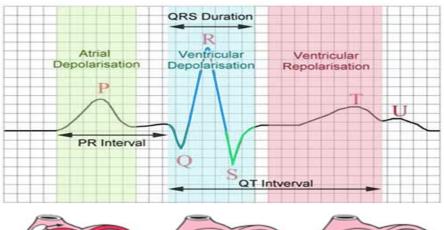
The Heart



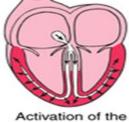
Electrocardiogram (ECG)

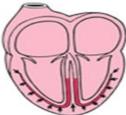


The _____ Wave





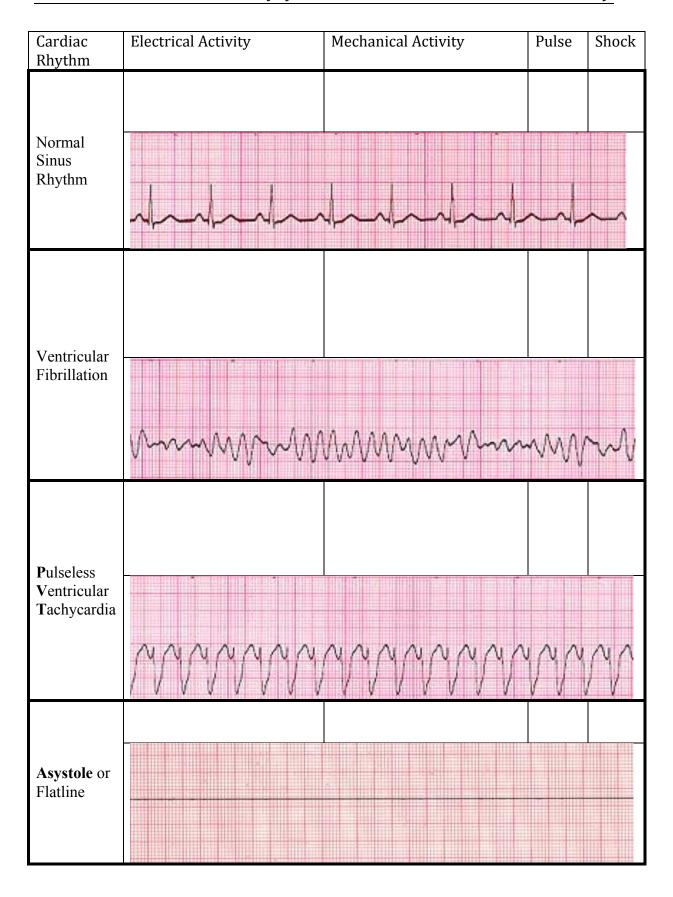




Activation of the atria

ventricles

Recovery wave



Using an A.E.D.

Does NOT require any training (although it can help)

STEP #1:

STEP #2:

STEP #3:

Special Considerations

Although the AED is easy to use, there are a few circumstances where the rescuer must exercise caution in order to use the AED safely.

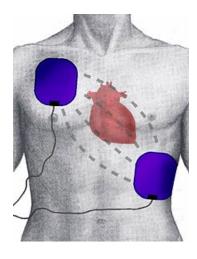
Victim Assessment

- Victim must be unresponsive and not breathing or not breathing effectively for AED use to be indicated.
- Ineffective breathing includes breathing with the presence of cyanosis, very slow or very rapid/shallow respirations, agonal breathing (gasping) and absence of breathing.
- Agonal breathing is present in up to 40% of pre-hospital cardiac arrests and is mistaken as a sign of circulation leading to omission of bystander CPR. The breaths are usually more than 10 seconds apart and it can last up to 2-3 minutes. The diaphragm is still receiving intermittent residual impulses from the brain resulting in sporadic gasping breaths.

Victim Age

- AEDs can be used on all patients as per the 2010 CPR Guidelines. Although it is recommended that pediatric pads be used on children and infants, adult pads can be used if no other pads are available.
- Child or infant pads cannot be used on adult patients.

Electrode Pad Placement (Adult)



The pad that attaches to the right anterior or upper chest	
should not go over top of the,,	
or	

The pad that attaches to the lateral or lower chest, wrapping around the rib cage must not be placed on the		
it to help you identify the left side pad.		

Electrode Pad Placement (Child)





The right side pad attaches to the anterior _____ and the left side pad attaches to the ____ or posterior chest.

Pediatric pads for children 1-8 years old are recommended, though not required.

What if?

The person has a hairy chest	
They were electrocuted	
They are in the water	
They are on a metal surface	
They have oxygen on already	
They are pregnant	
They have a medication patch	
They have a pacemaker or AIDC	
They are in a moving vehicle	
They regurgitate	
They vomit	

AED Flowchart

