



Basic Life Support & Automated External Defibrillation Course



OBJECTIVES

- At the end of this course participants should be able to demonstrate:
 - How to assess the collapsed victim.
 - How to perform chest compression and rescue breathing.
 - How to operate an automated external defibrillator safely.
 - How to place an unconscious breathing victim in the recovery position.

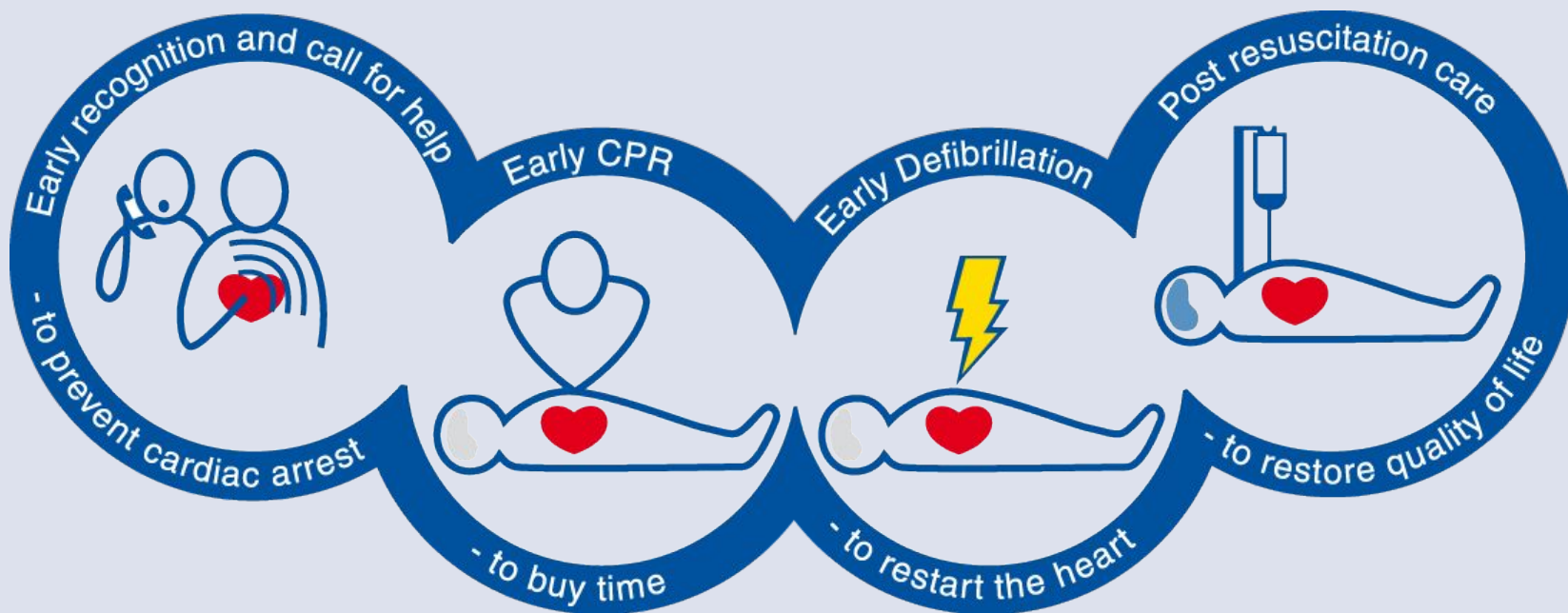


BACKGROUND

- Approximately 700,000 cardiac arrests per year in Europe
- Survival to hospital discharge presently approximately 5-10%
- Bystander CPR vital intervention before arrival of emergency services
- Early resuscitation and prompt defibrillation (within 1-2 minutes) can result in >60% survival



CHAIN OF SURVIVAL





Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions

2 rescue breaths





■ ■ ■ APPROACH SAFELY!

Scene

Rescuer

Victim

Bystanders

Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions

2 rescue breaths



■ ■ ■ CHECK RESPONSE



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Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions

2 rescue breaths



■ ■ ■ CHECK RESPONSE



Shake shoulders gently
Ask “Are you all right?”

If he responds

- Leave as you find him.
- Find out what is wrong.
- Reassess regularly.



SHOUT FOR HELP



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions

2 rescue breaths



OPEN AIRWAY



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions

2 rescue breaths



■ ■ ■ CHECK BREATHING



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions

2 rescue breaths



■ ■ ■ CHECK BREATHING

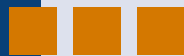
- Look, listen and feel for **NORMAL** breathing
- Do not confuse agonal breathing with **NORMAL** breathing





■ ■ ■ AGONAL BREATHING

- Occurs shortly after the heart stops in up to 40% of cardiac arrests
- Described as barely, heavy, noisy or gasping breathing
- **Recognise as a sign of cardiac arrest**



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions

2 rescue breaths



30 CHEST COMPRESSIONS



Approach safely

Check response

Shout for help

Open airway

Check breathing

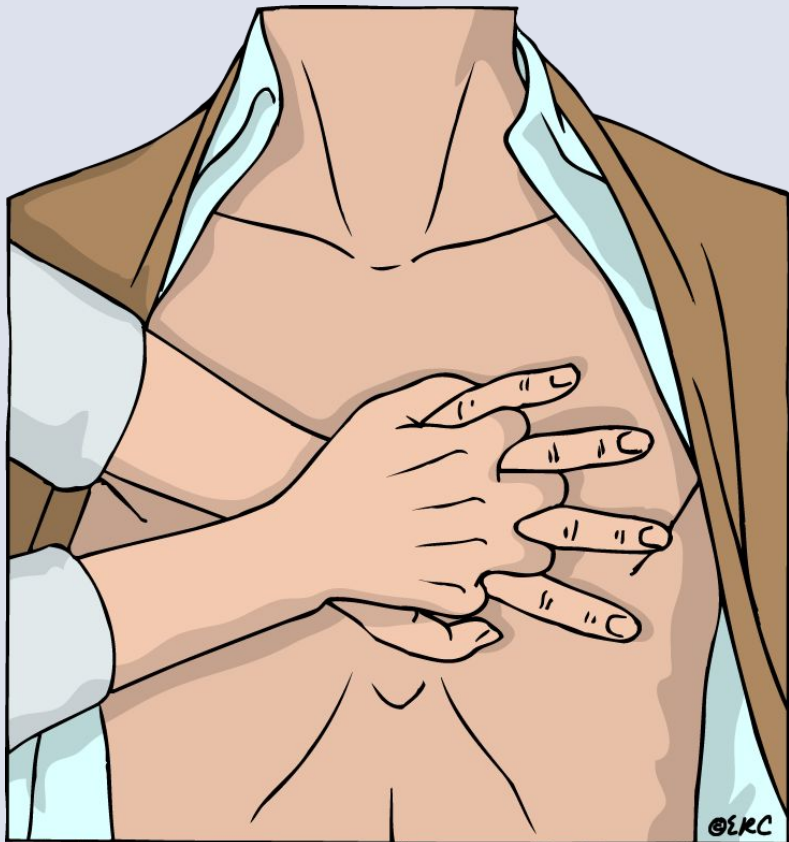
Call 112

30 chest compressions

2 rescue breaths



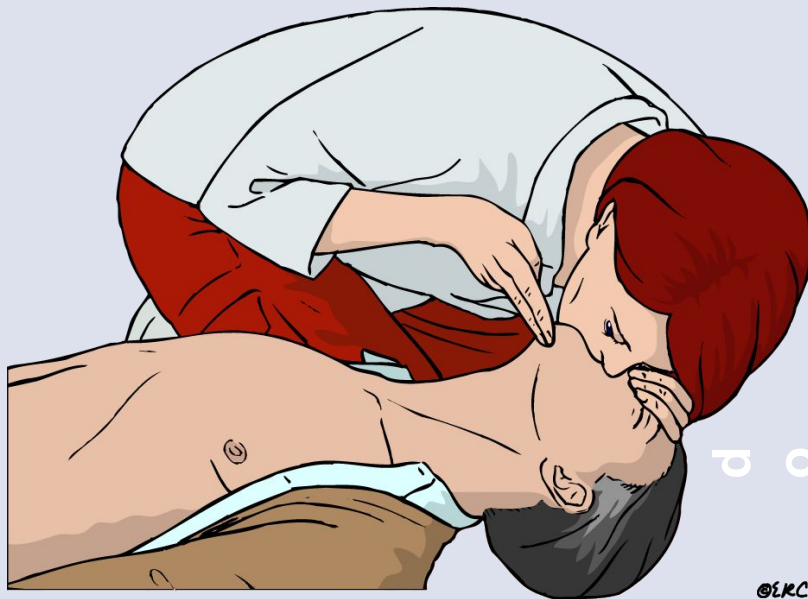
CHEST COMPRESSIONS



- Place the heel of one hand in the centre of the chest
- Place other hand on top
- Interlock fingers
- Compress the chest
 - Rate 100 min^{-1}
 - Depth 4-5 cm
 - Equal compression : relaxation
- When possible change CPR operator every 2 min



RESCUE BREATHS



Approach safely

Check response

Shout for help

Open airway

Check breathing

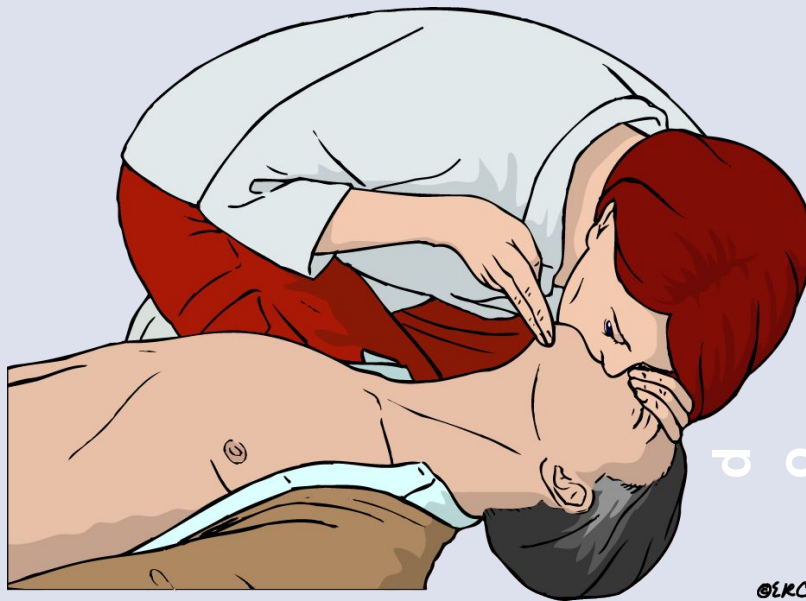
Call 112

30 chest compressions

2 rescue breaths



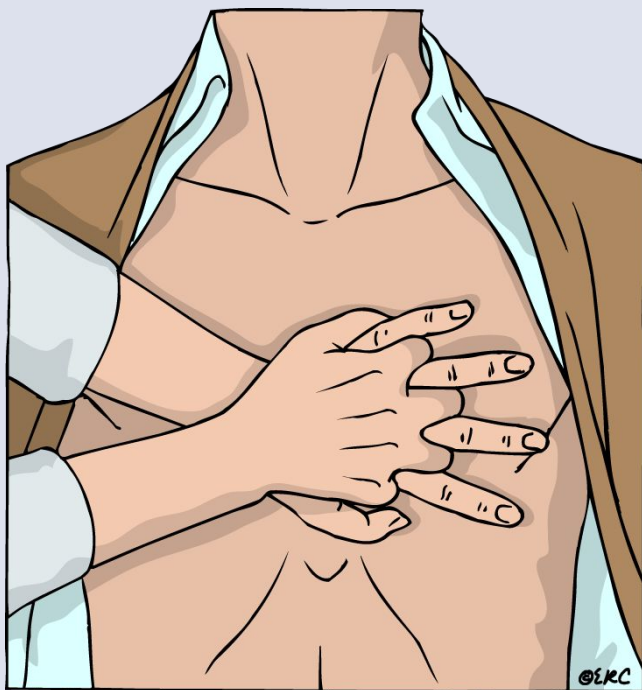
RESCUE BREATHS



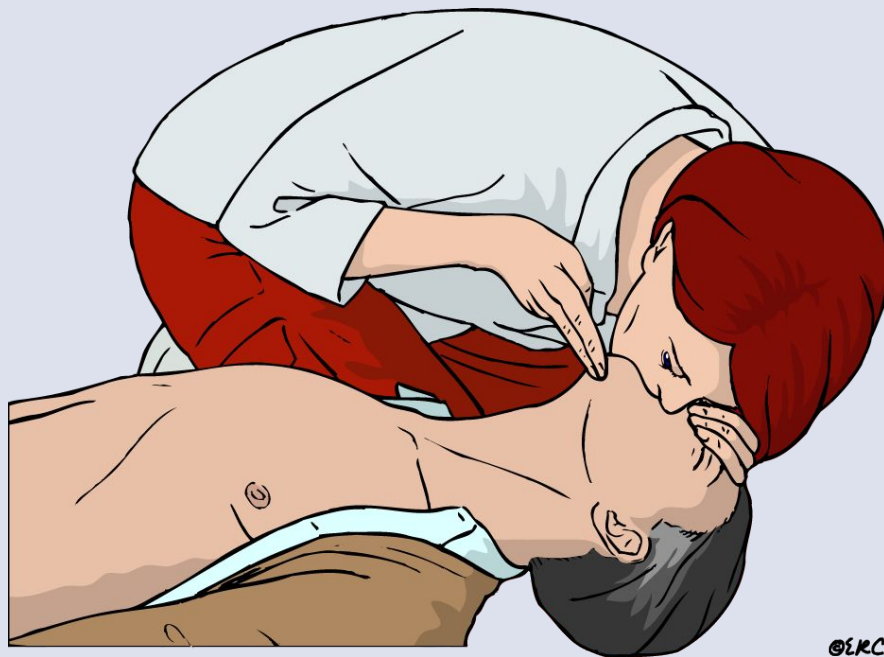
- Pinch the nose
- Take a normal breath
- Place lips over mouth
- Blow until the chest rises
- Take about 1 second
- Allow chest to fall
- Repeat



CONTINUE CPR



30



2



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

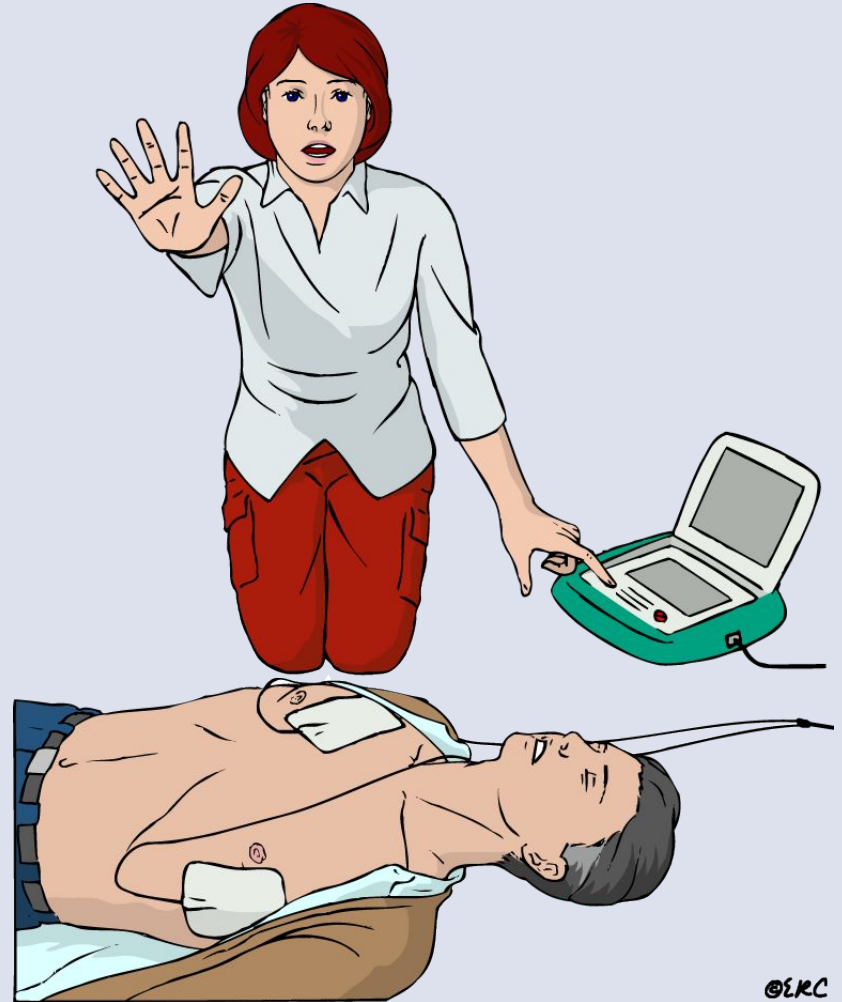
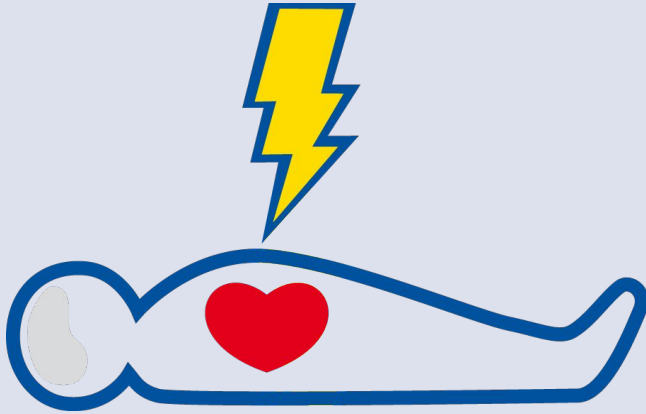
30 chest compressions

2 rescue breaths





DEFIBRILLATION



OPERATIONAL COURSE



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

Attach AED

Follow voice prompts



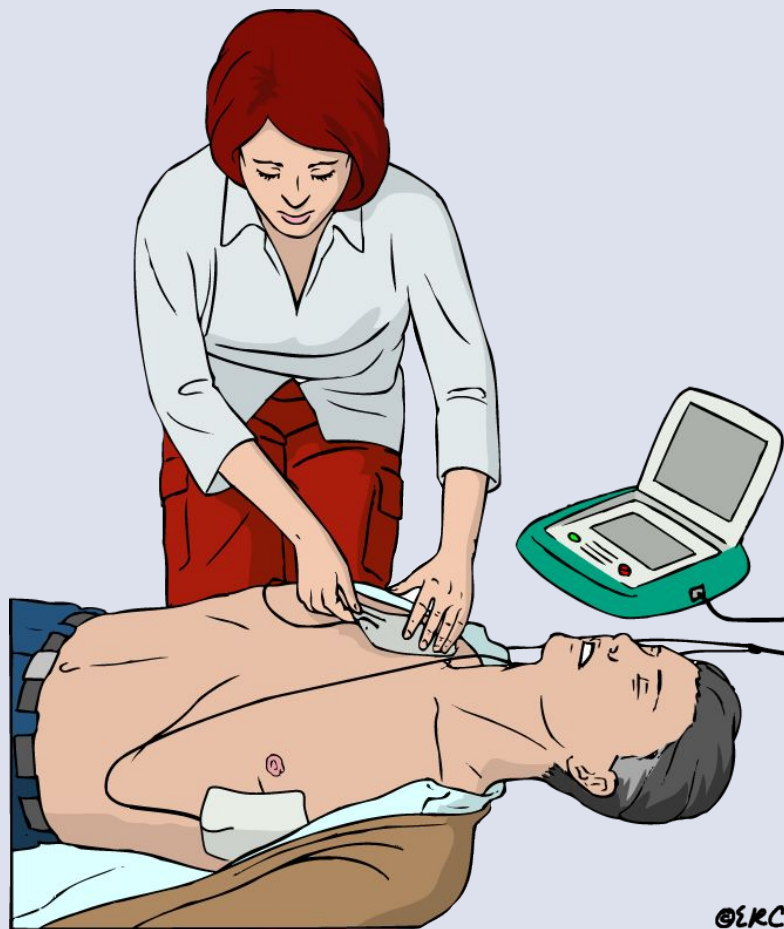
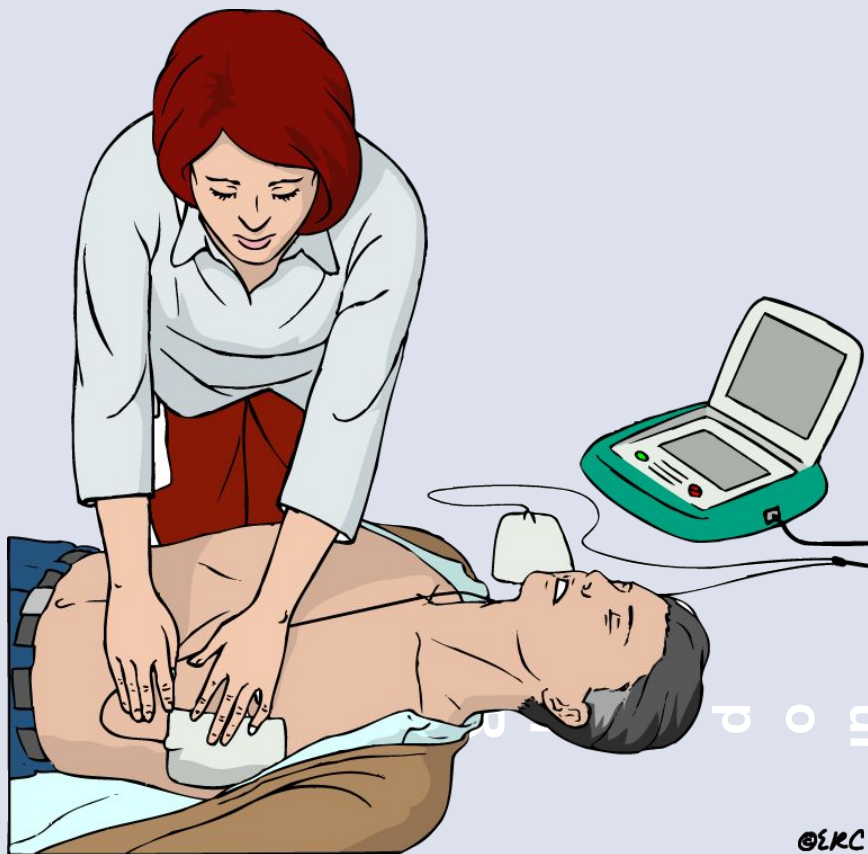
■ ■ ■ SWITCH ON AED



- Some AEDs will automatically switch themselves on when the lid is opened



ATTACH PADS TO CASUALTY'S BARE CHEST

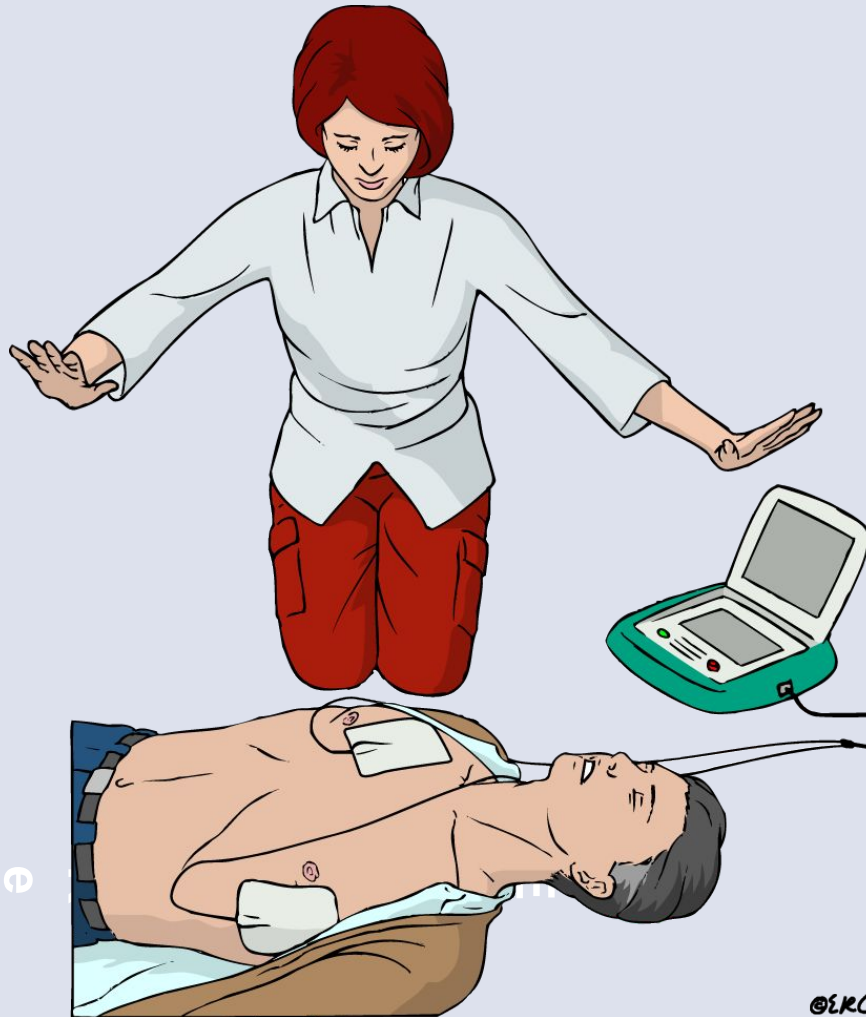


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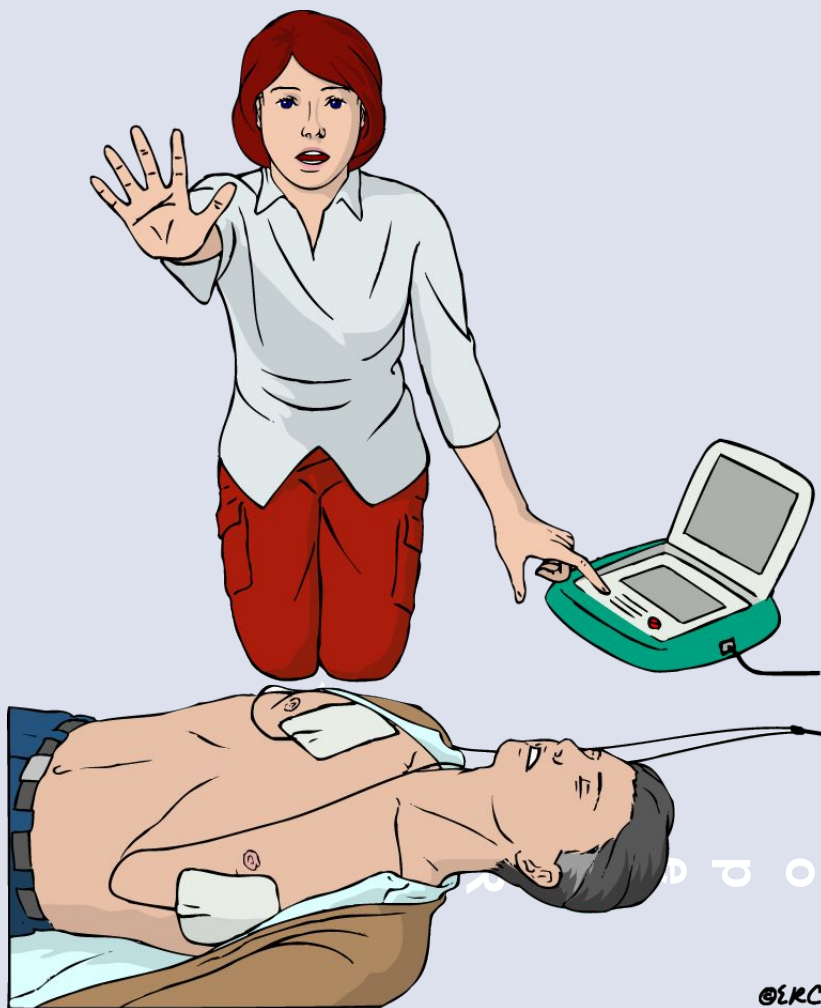
ANALYSING RHYTHM DO NOT TOUCH VICTIM



CONCISE



SHOCK INDICATED



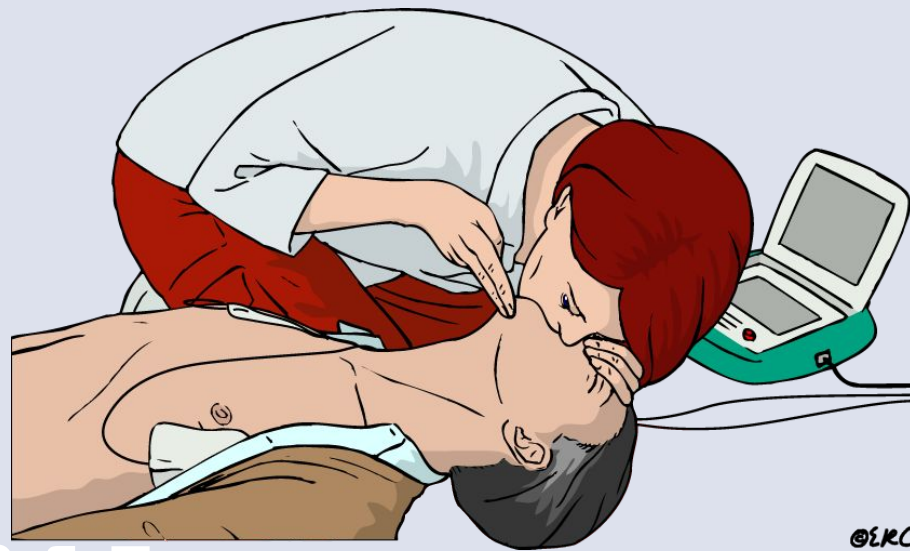
- Stand clear
- Deliver shock



SHOCK DELIVERED FOLLOW AED INSTRUCTIONS



30



2

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NO SHOCK ADVISED
FOLLOW AED INSTRUCTIONS



30



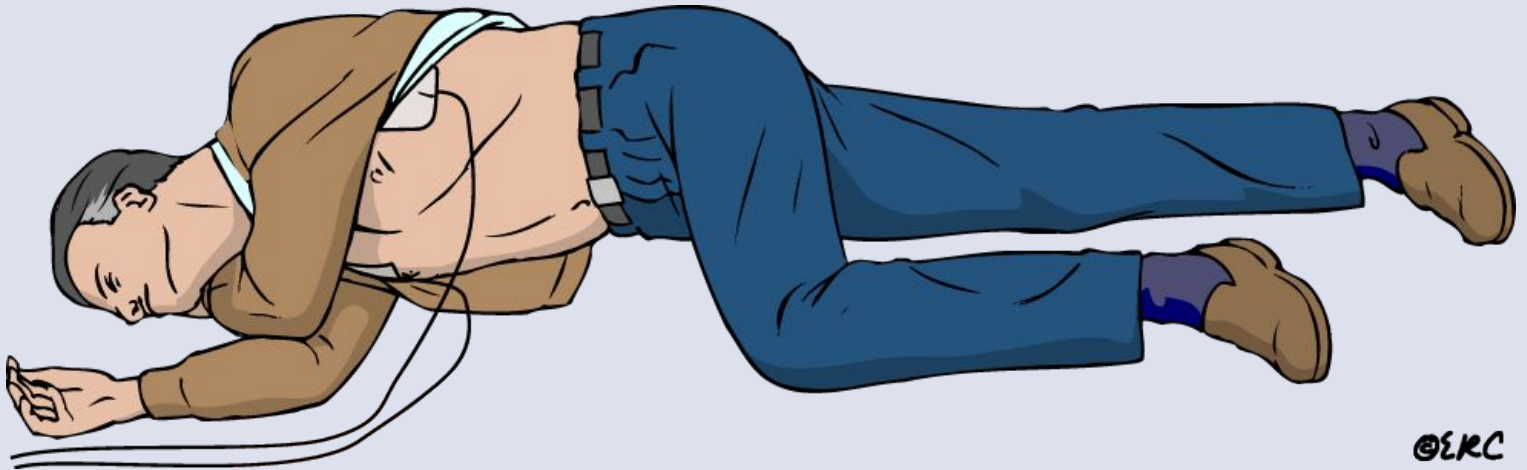
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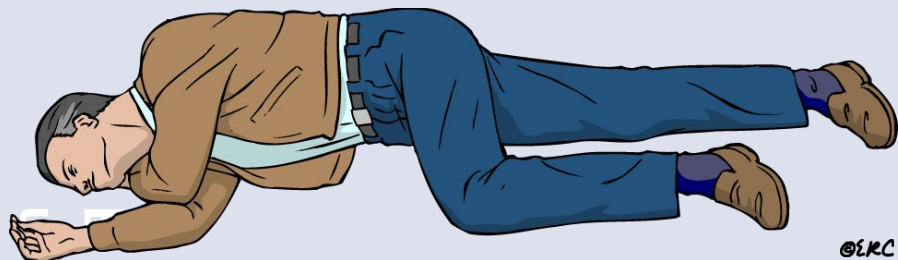
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■ ■ ■ IF VICTIM STARTS TO BREATHE NORMALLY PLACE IN RECOVERY POSITION



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■ ■ ■ CPR IN CHILDREN

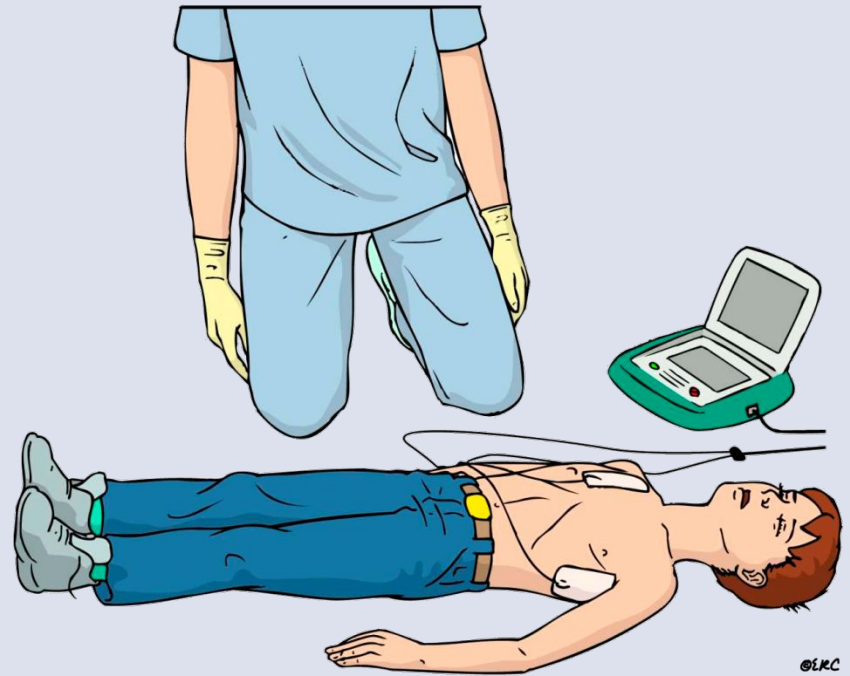
- Adult CPR techniques can be used on children
- Compressions 1/3 of the depth of the chest





AED IN CHILDREN

- Age > 8 years
 - use adult AED
- Age 1-8 years
 - use paediatric pads / settings if available (otherwise use adult mode)
- Age < 1 year
 - use only if manufacturer instructions indicate it is safe

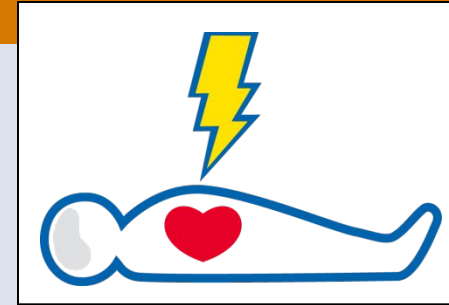


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ANY QUESTIONS?

E n d o c r i n o l o g y s e r v i c e



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