

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.



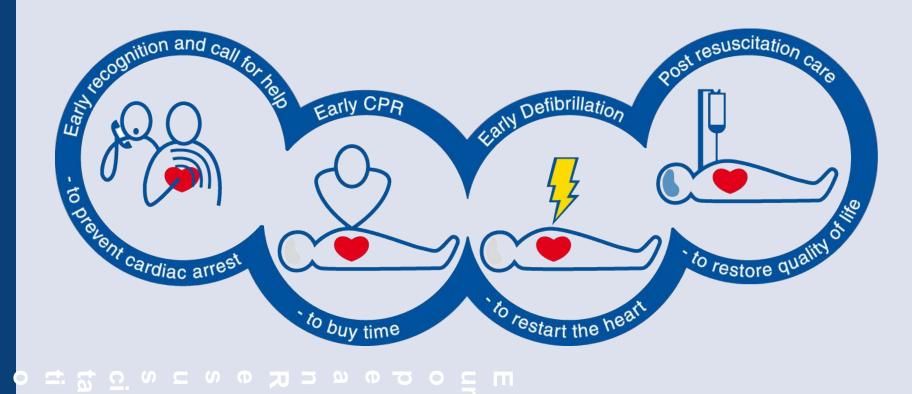
BACKGROUND

- 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





APPROACH SAFELY!

Scene

Rescuer

Victim

Bystanders

Approach safely

Check response

Shout for help

Open airway

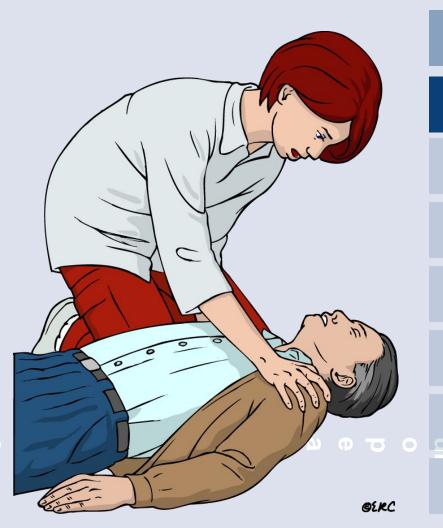
Check breathing

Call 112

30 chest compressions



CHECK RESPONSE



Approach safely

Check response

Shout for help

Open airway

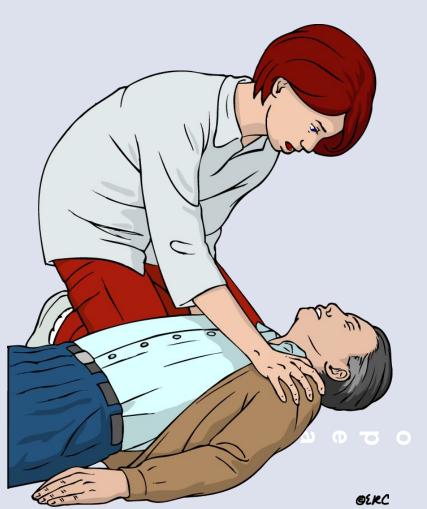
Check breathing

Call 112

30 chest compressions



CHECK RESPONSE



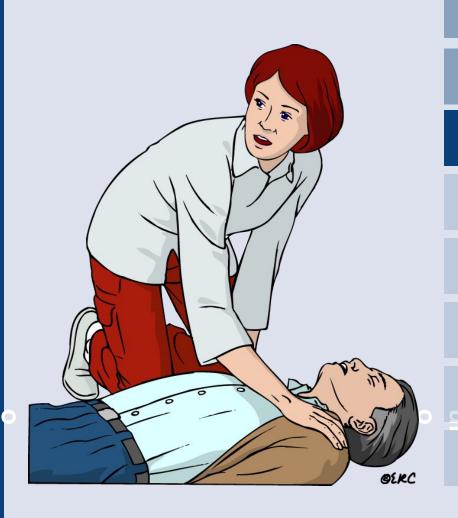
Shake shoulders gently
Ask "Are you all right?"
If he responds

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

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SHOUT FOR HELP



Approach safely

Check response

Shout for help

Open airway

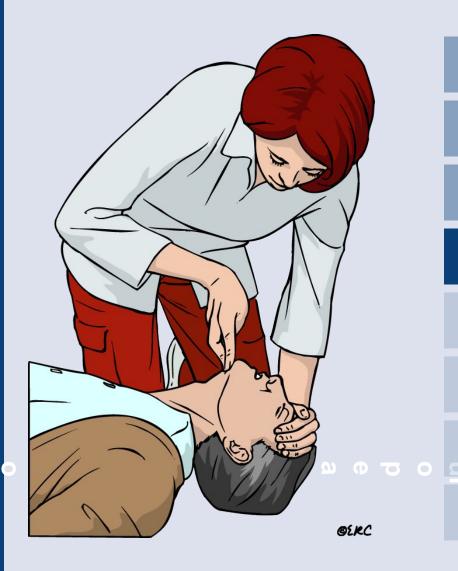
Check breathing

Call 112

30 chest compressions



OPEN AIRWAY



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions



CHECK BREATHING



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions



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

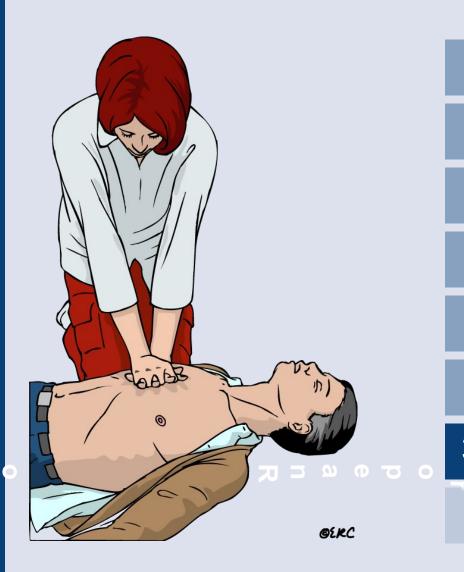
Check breathing

Call 112

30 chest compressions



30 CHEST COMPRESSIONS



Approach safely

Check response

Shout for help

Open airway

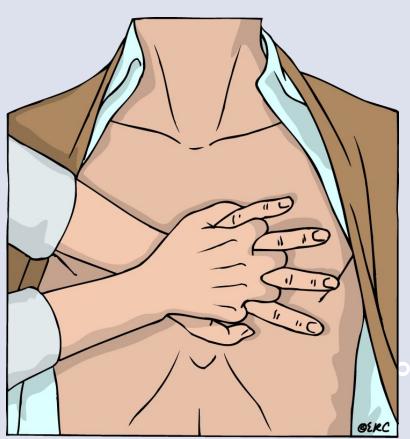
Check breathing

Call 112

30 chest compressions



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

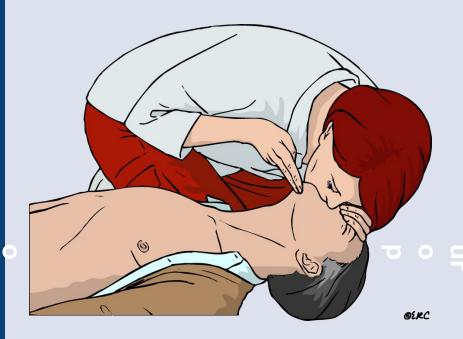
Check breathing

Call 112

30 chest compressions



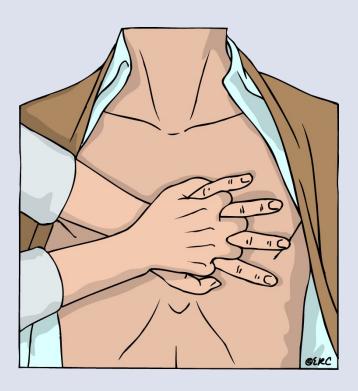
RESCUE BREATHS

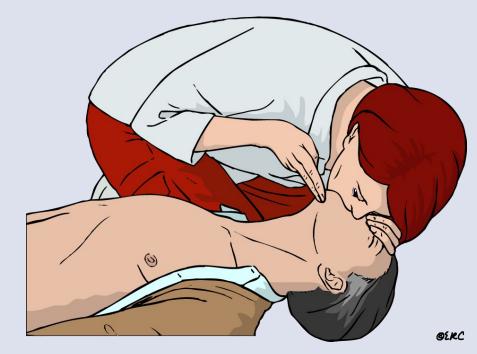


- Pinch the nose
- Take a normal breath
- Place lips over mouth
- Blow until the chest rises
- Take about 1 second
- Allow chest to fall
- Repeat



CONTINUE CPR











Approach safely

Check response

Shout for help

Open airway

Check breathing

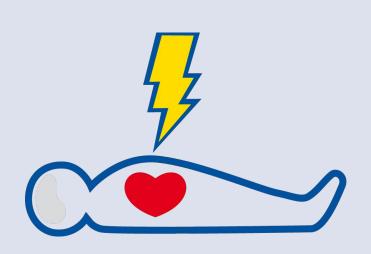
Call 112

30 chest compressions





DEFIBRILLATION









Approach safely

Check response

Shout for help

Open airway

Check breathing

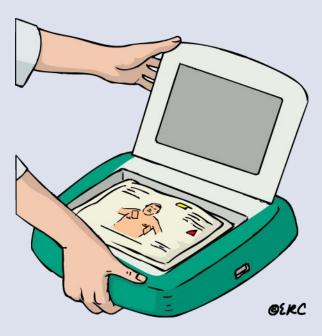
Call 112

Attach AED

Follow voice prompts



SWITCH ON AED



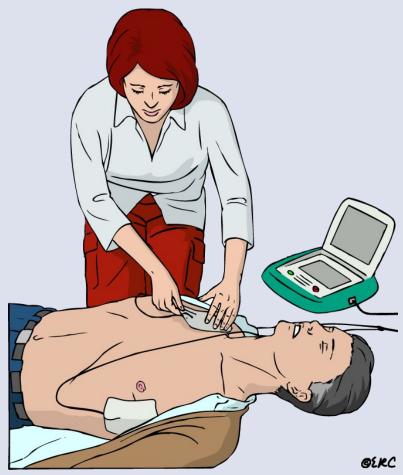
 Some AEDs will automatically switch themselves on when the lid is opened





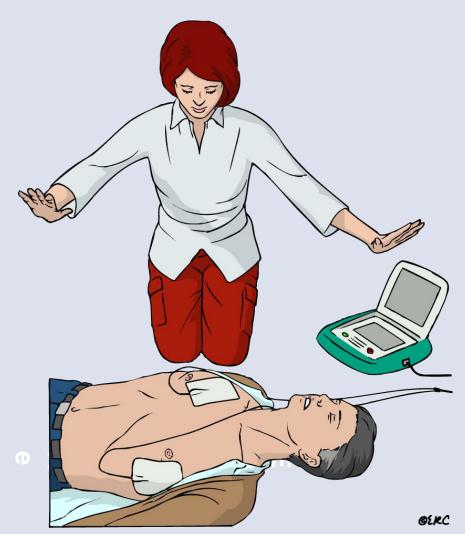
ATTACH PADS TO CASUALTY'S BARE CHEST







ANALYSING RHYTHMDO NOT TOUCH VICTIM





SHOCK INDICATED



- Stand clear
- Deliver shock

SHOCK DELIVERED FOLLOW AED INSTRUCTIONS





NO SHOCK ADVISED FOLLOW AED INSTRUCTIONS

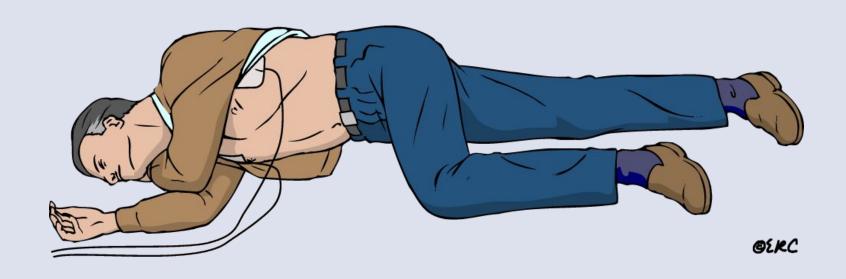




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IF VICTIM STARTS TO BREATHE NORMALLY PLACE IN RECOVERY POSITION







CPR IN CHILDREN

 Adult CPR techniques can be used on children

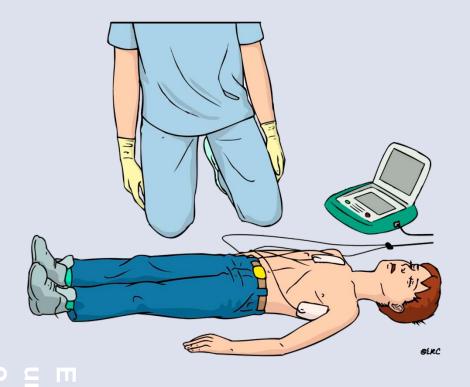
 Compressions 1/3 of the depth of the chest





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



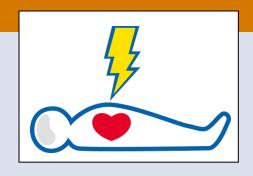


ANY QUESTIONS?









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Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions

2 rescue breaths

Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

Attach AED

Follow voice prompts

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