

Basic Life Support & Automated External Defibrillation Course

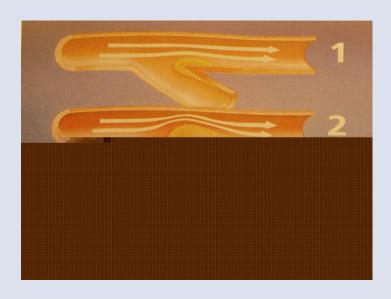


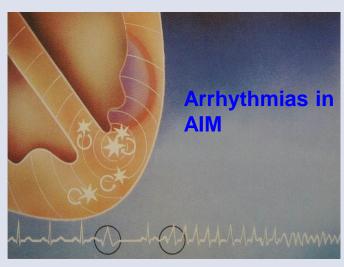
OBJECTIVES

- At the end of the winter term participants should be able to demonstrate:
 - How to assess the collapsed victim.
 - How to perform chest compression and rescue breathing.
 - How to place an unconscious breathing victim in the recovery position.



MOST FREQUENT CAUSES OF CARDIAC ARREST



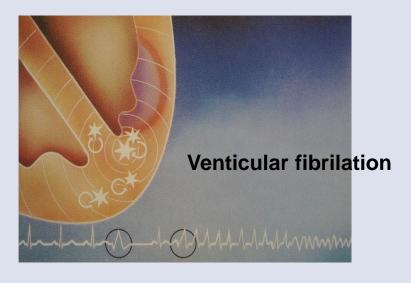


cardiac arrest

- 1. place IHD...Myocardial infarct,
- Trauma

- Poisoning
- Drowning
- Hypotermia...

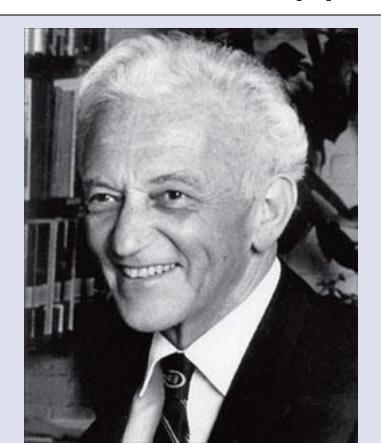








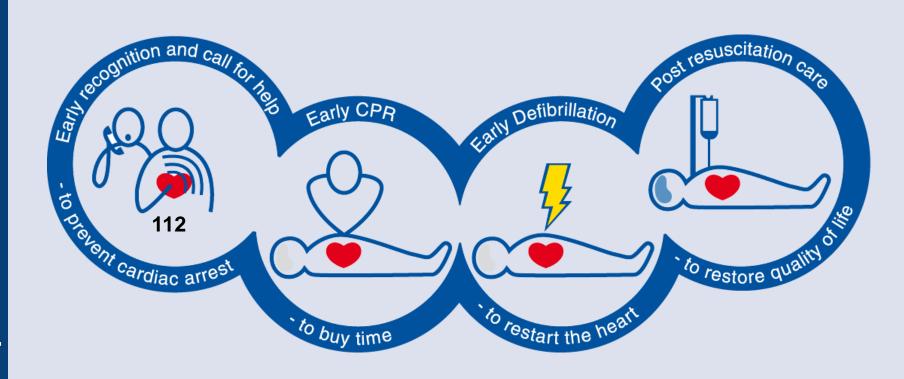
Advanced life support



1961: Peter Safar



CHAIN OF SURVIVAL





BASIC LIFE SUPPORT

Airway

Sreathing

irculation

(CAB)





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.



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

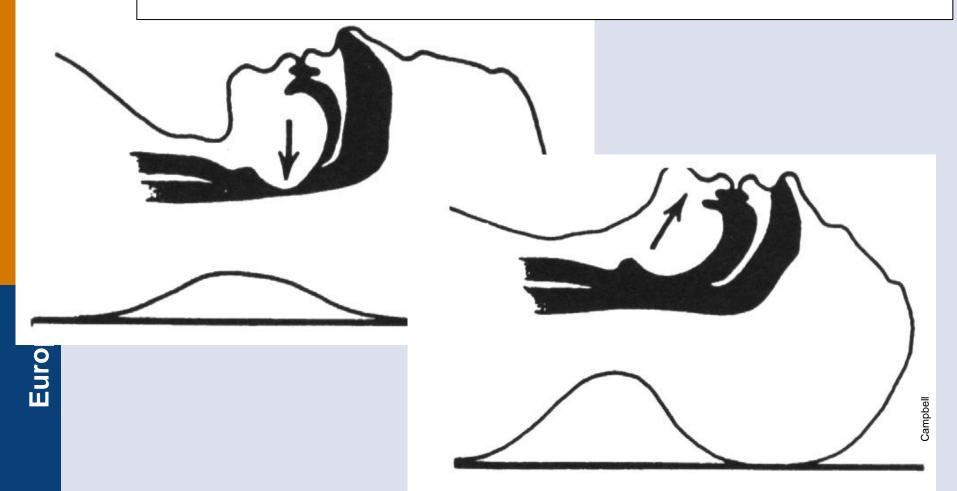
30 chest compressions





AIRWAY OPENING BY

NECK EXTENSION





CERVICAL SPINE INJURY

 Jaw thrust (no for lay rescuer) for open airway







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

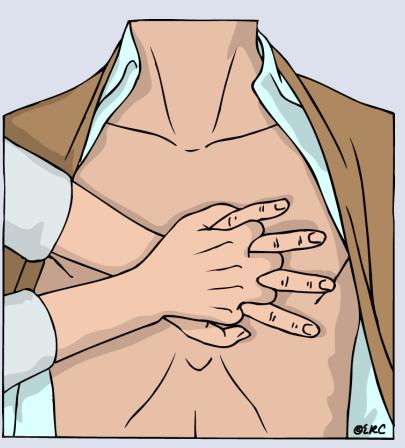
Check breathing

Call 112

30 chest compressions



CHEST COMPRESSIONS



- Place the heel of one hand in the centre of the chest (lower half of sternum)
- Place other hand on top
- Interlock fingers
- Compress the chest
 - Rate 100 -120 min⁻¹
 - Depth 5-6 cm
 - Equal compression : relaxation
- When possible change CPR operator every 2 min



30:2

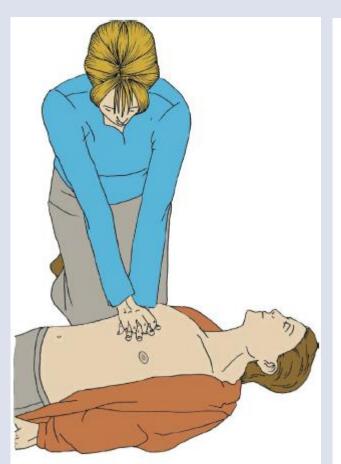


Figure 2.10 Interlock the fingers of your hands. © 2005 European Resuscitation Council.

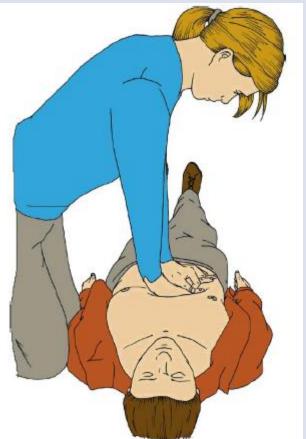


Figure 2.11 Press down on the sternum 4–5 cm. © 2005 European Resuscitation Council.

European Resuscitation Council Guidelines for Resuscitation 2005. Section 2. Handley A.J., Koster R., Monsieurs K., Perkins G.D., Davies S., Bossaert L.: Adult basic life support and use of automated external defibrillators Resuscitation (2005) 67S1, S7—S23



RESCUE BREATHS



Approach safely

Check response

Shout for help

Open airway

Check breathing

Call 112

30 chest compressions



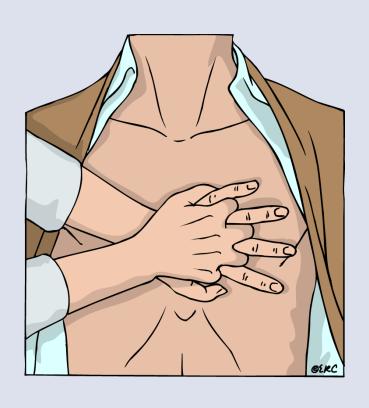
RESCUE BREATHS

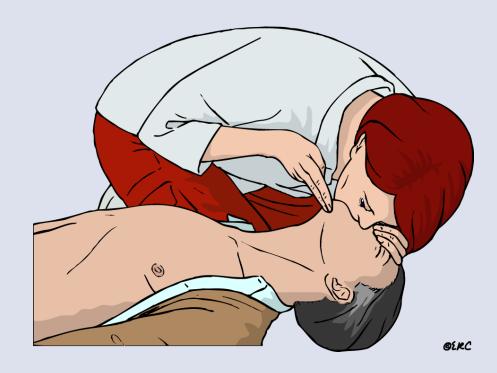


- Pinch the nose
- Take a normal breath
- Place lips over mouth
- Blow until the chest rises
- Take about 1 second
- Allow chest to fall
- Repeat



CONTINUE CPR





30



If initial rescue breath does not make the chest rise:

 Check the victim mouth and remove any visisble obstruction

Recheck that there is adequate head tilt and chin lift



Go on combining 30 chest compressions with 2 rescue breaths.

Only stop when:

- Professional help takes over
- You are exhausted
- The victim starts breathing normally



Continous chest compressions - only





The use of protective devices is recommended





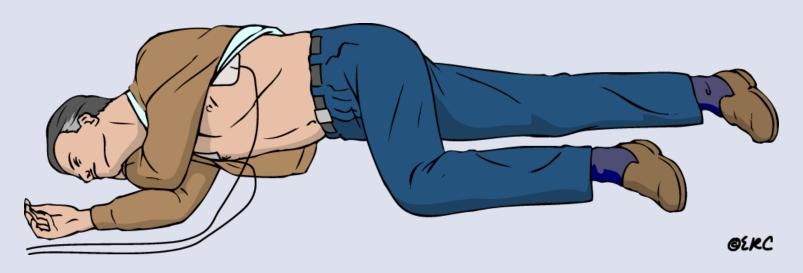


COMPRESSIONS

If you are **not able** or you are **unwilling** to give rescue breaths, give chest compressions only (rate 100-120 min⁻¹, depth 5-6 cm).



IF VICTIM STARTS TO BREATHE NORMALLY PLACE IN RECOVERY POSITION



- It ensures the tongue is held in forward position
- It reduces the chance of inhalation of any expelled gastric contents









CHOKING FOREIGN BODY AIRWAY OBSTRUCTION

 Mild airway obstruction (effective cough, breathe, conscious, speak)



Encourage continued coughing, observing for relief of the obstruction





CHOKING FOREIGN BODY AIRWAY OBSTRUCTION

Severe airway obstruction – conscious (unable to speak, to breathe, to cough)



5 back blows5 abdominal thrust



(Left) The rescuer stands behind the victim and grasps his hands firmly over the victim's abdomen just below the rib cage (top right). The position of the rescuer's hands and the direction of thrust are shown at the bottom right.



CHOKING FOREIGN BODY AIRWAY OBSTRUCTION

Severe airway obstruction – unconscious

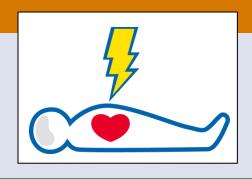


Start CPR (even if the puls is present)









Approach :	safely
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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

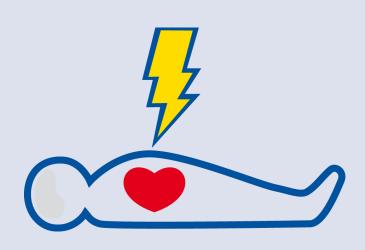
Call 112

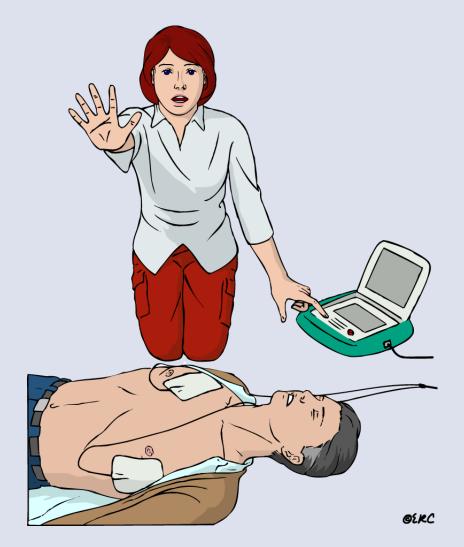
Attach AED

Follow voice prompts



DEFIBRILLATION







Approach safely

Check response

Shout for help

Open airway

Check breathing

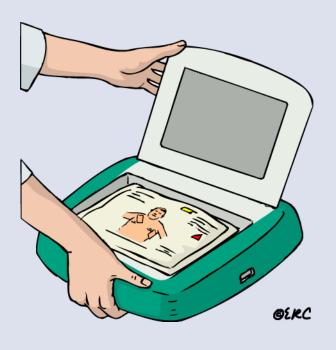
Call 112

Attach AED

Follow voice prompts



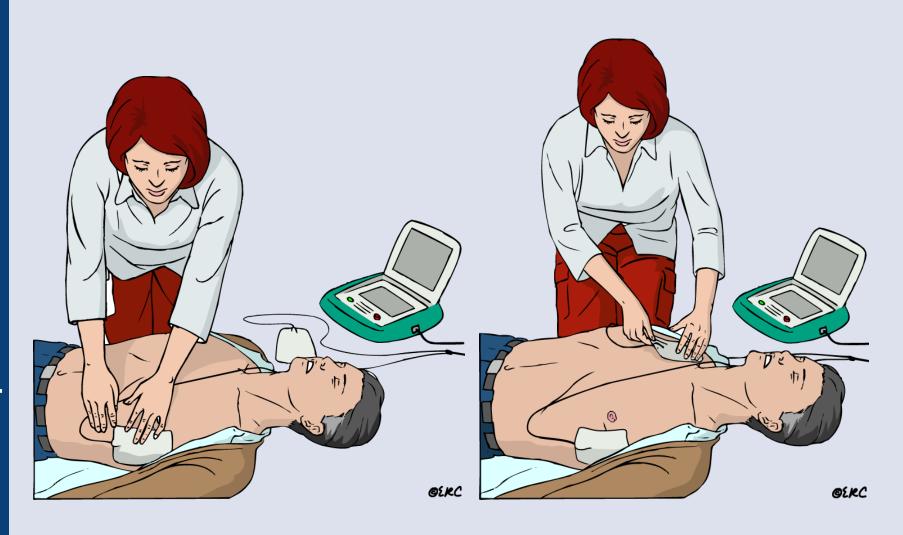
SWITCH ON AED



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

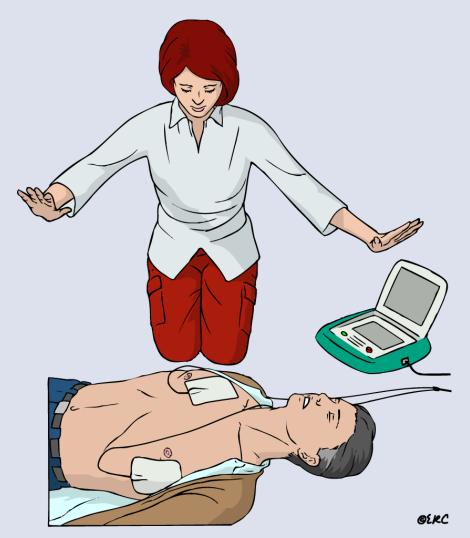


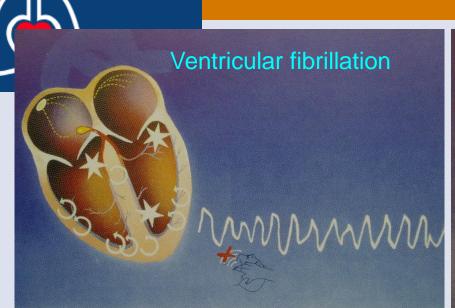
ATTACH PADS TO CASUALTY'S BARE CHEST

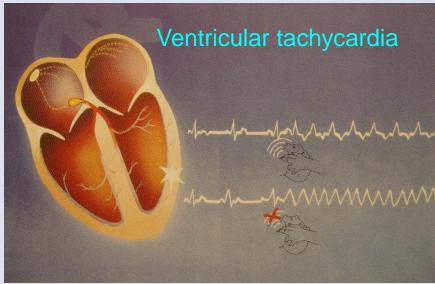




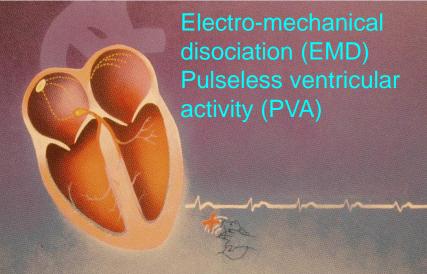
ANALYSING RHYTHM DO NOT TOUCH VICTIM





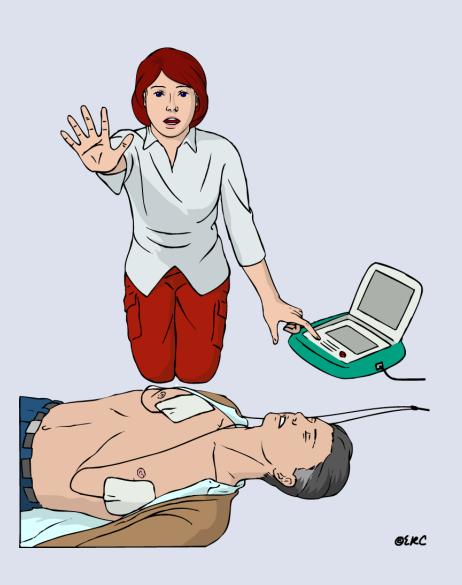








SHOCK INDICATED

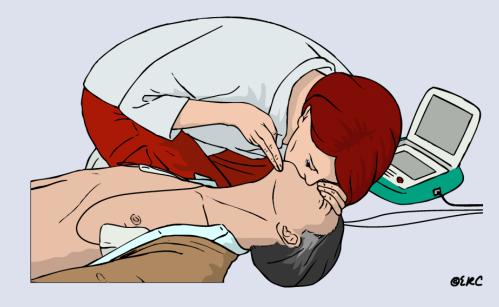


- Stand clear
- Deliver shock (press shock button)



SHOCK DELIVERED FOLLOW AED INSTRUCTIONS



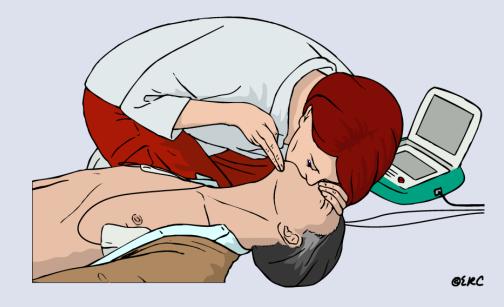


30

2

NO SHOCK ADVISED FOLLOW AED INSTRUCTIONS





30

2



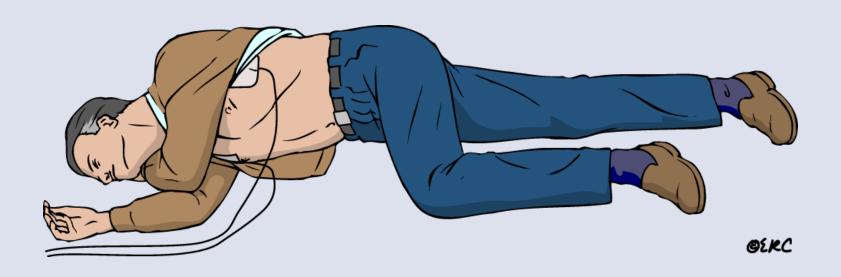
SAFETY OF RESCURER

 Do not touch the victim during analysis, charging or delivery of a shock

Use protective gloves



IF VICTIM STARTS TO BREATHE NORMALLY PLACE IN RECOVERY POSITION





www.erc.edu

- http://www.lf.upjs.sk/kaim/pregradualne_vzdelavanie.ht
 ml first aid lectures
- www.resus.org.uk
- Moule P., Albarran J., 2009: Practical resuscitation for healthcare professionals www. books.google.com



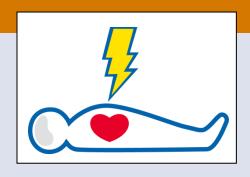
ANY QUESTIONS?



Thank you!







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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