First Aid 2011

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How to survive?

Do not kill the patient.

- Reason of lectures
 - to pass the exam
 - to know important information for life

How to survive

- D
- R
- A
- B
- C

Danger







- to you
- to other
- to the casualty
- make sure that no one elso gets hurt. You will not be able to help if you are also a casualty
- only proceed if it is safe to do so.



Danger

- look & listen & feel
 - vehicle on the street
 - gas in the house
 - fire
 - poison, infection
 - electricity

Position the patient on their back.

Basic Vital signs:

- RESPOND = consciousness
- A+B breathing
- C circulation

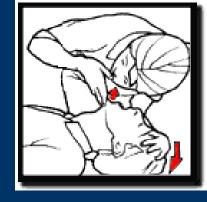
Primary Survey = 20s

Resposiveness

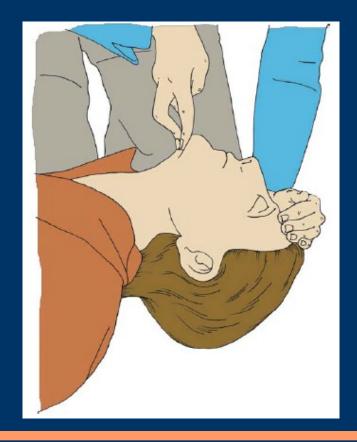


- Shout ,Are You O.K.?', Can you hear me?', 'What is your name?
- Shake Shoulder
- opening eyes
- movement
- words
- unconsciousness

Airway + B



- open it and keep it open
- Tilt the head back



Clear airway if necessary

- with the casualty supported on the side, tilt the head backwards and slightly down.
- Open the mouth and clear any foreign object.
 Only remove dentures if loose or broken.

Breathing?

- Normal = look & listen & feel
 - movement of chest wall [reg., 10-20/min]
 - air flow

- abnormal breathing "agonal respiration" and is the result of the brain's breathing center sending out signals even though circulation has ceased.
 The key point sound like grunting, gasping or snoring. It disappears in 2-3 minutes.
- No breathing

Circulation?

Signs:

- normal consciousness
- normal breathing
- movement
- coughing
- {PULSATIONS a.carotis}
- Any doubt = NO circulation



ABC and what next?

- managing life-threatening problems ABC, bleeding
- (turn the casualty to a stable side position)

... Secondary Survey

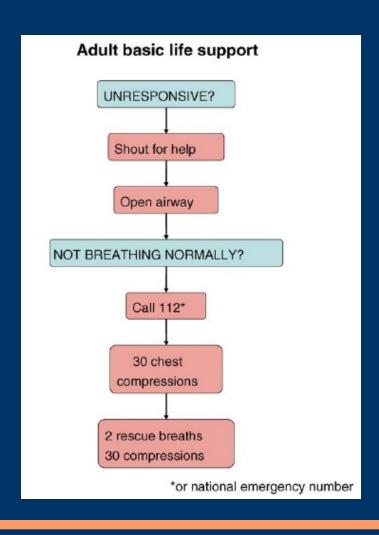
- look for
 - bleeding
 - burns
 - fractures. Note any tenderness, swelling,
 wounds or deformity

Examine the casualty

... Secondary Survey

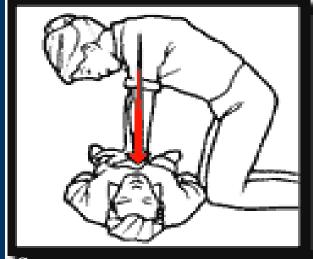
- in the following order:
 - head and neck
 - chest (including shoulders)
 - abdomen (including hip bone)
 - upper limbs
 - lower limbs
 - back
- call medical aid as soon as possible

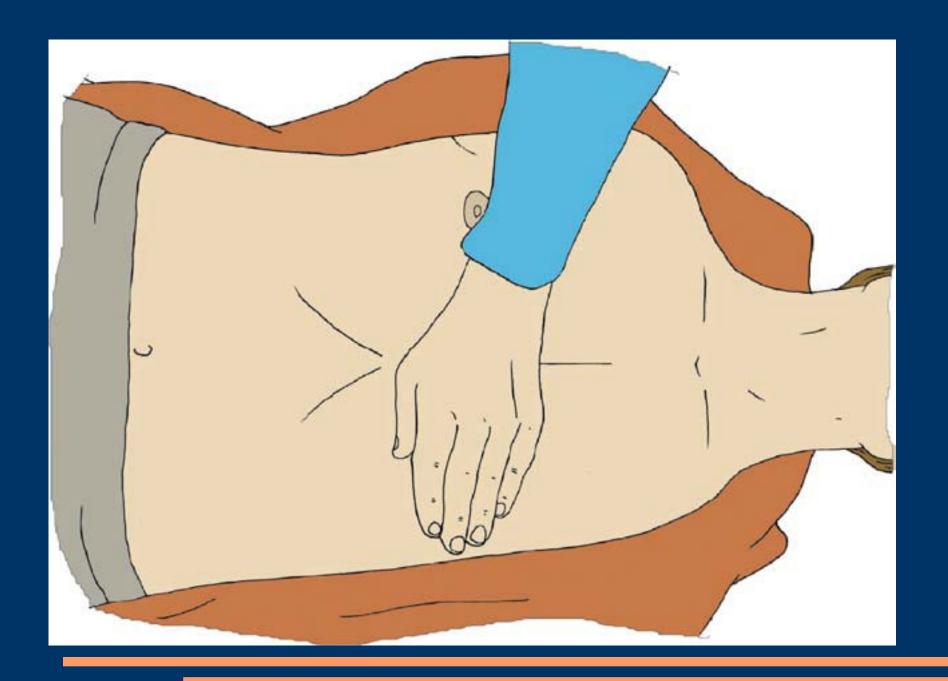
Adult basic life support

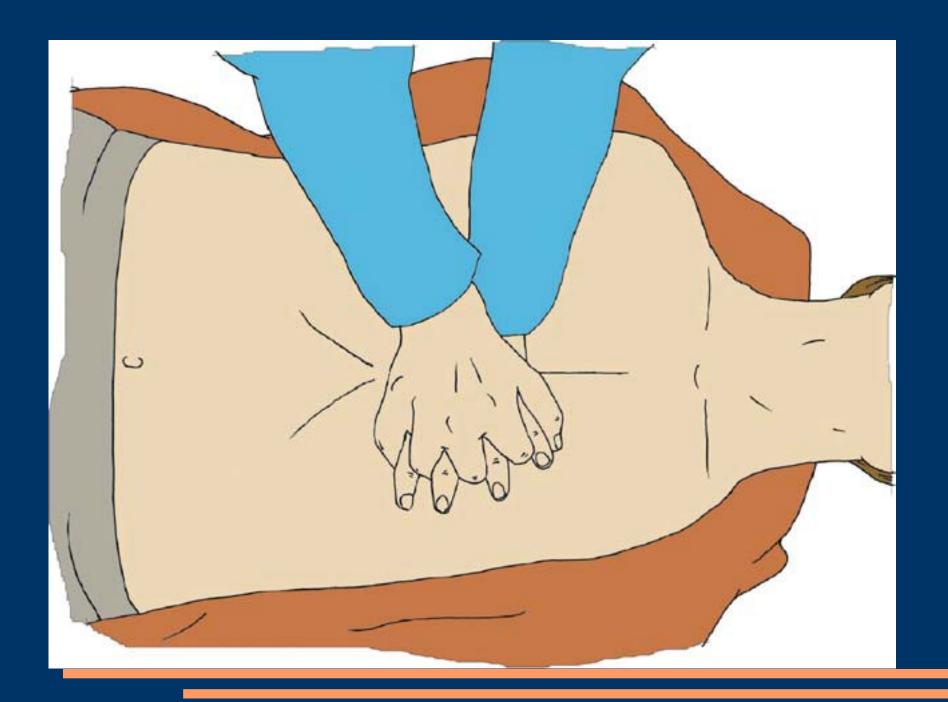


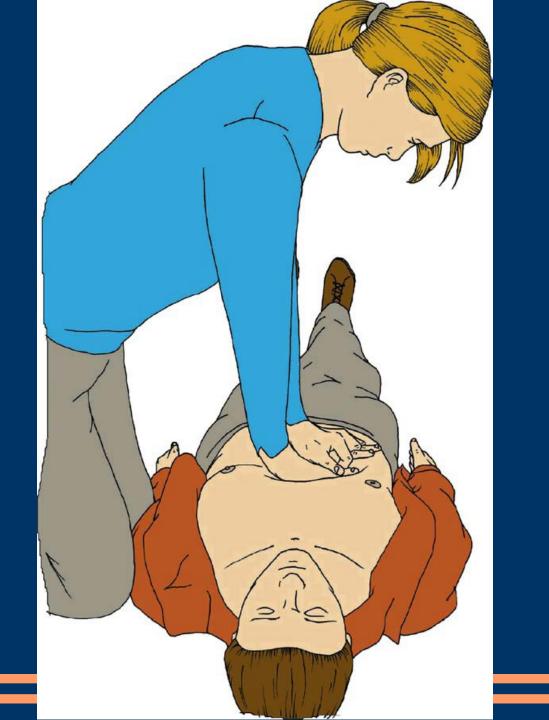
Chest compressions

- Place the heel of one hand on the breastbone -- right between the nipples.
- In the centre of the chest
- Place the heel of your other hand on top of the first hand.
- Position your body directly over your hands. Your shoulders should be in line with your hands. DO NOT lean back or forward.
- Give 30 chest compressions. at least 100/minute (not more than 120/min)
- Press down on the sternum at leats 5 cm, not more than 6cm

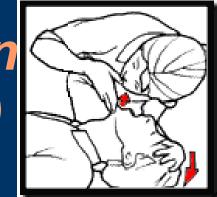






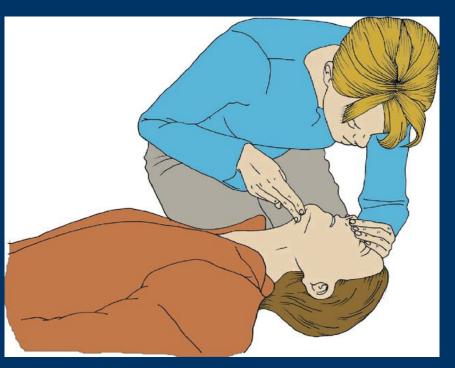


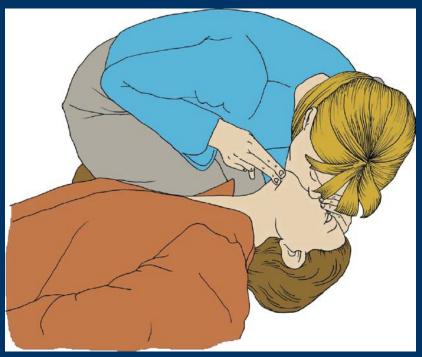
EAR expired air resuscitation (mouth-to-mouth ventilation)



= 02

- 1. Knee beside the head of casualty.
- 2. Keep the casualty's head tilted back.
- 3. Pinch the casualty's nostrils with your fingers
- 4. Lift the jaw forward with your other hand.
- 5. Take a normal breath and open your mouth wide.
- 6. Place your mouth firmly over the casualty's mouth making an airtight seal.
- 7. Breathe into the casualty's mouth.
- 8. Remove your mouth and turn your head to observe the chest fall and listen or feel for exhaled air.
- 9. If the chest does not rise and fall, check head tilt position first, then check for and clear foreign objects in the airway.
- 10. Give 2 breaths, then go back to 30 compressions





Mouth to nose

- the victim's mouth is seriously injured
- cannot be opened,
- the rescuer is assisting a victim in the water,
- a mouth-to-mouth seal is difficult to achieve.

There is no published evidence on the safety, effectiveness or feasibility of mouth to-tracheostomy ventilation, but it may be used for a victim with a tracheostomy tube or tracheal stoma

3 thinks are the most important:

- Compressions
- Compressions
- Compressions

BLS

When to start BLS:

always when victim is unconsciousness, no breath, no circulation

When not to start:

- end stage disease, no prognosis
- trauma with no hope for life (decapitation)
- signs (indication) of death (patch)
- time factor (15 30 minutes from stop of circulation)

Adult basic life support



When ...

STOP

When to stop CPR:

- restoring vital functions (normal breathing, movement)
- ER takes care of victim
- no power to continue with CPR
- new danger

Risk to the rescuer

The safety of both rescuer and victim are paramount during a resuscitation attempt. There have been few incidents:

- tuberculosis
- severe acute respiratory distress syndrome (SARS)

Transmission of HIV has never been reported. Barrier devices with one-way valves, prevent oral bacterial transmission from the victim to the rescuer during mouth-to-mouth

Top-less

- Chest-compression-only CPR may be used as follows:
- If you are not able or are unwilling to give rescue breaths, give chest compressions only continuous,

at a rate of 100 min⁻¹

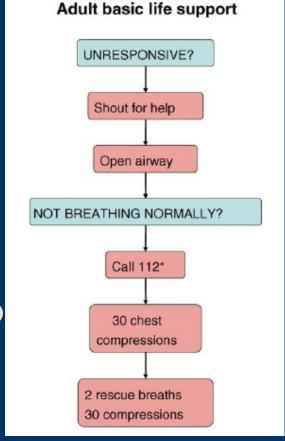
• Stop to recheck the victim only if he starts breathing normally; otherwise do not interrupt resuscitation.

Precordial thump

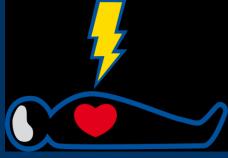
Not part of BLS reserved:

 witnessed cardiac arrest when no defibrillator is immediately available

• if done in first 20s 25% regain cardiac function



Defibrilation

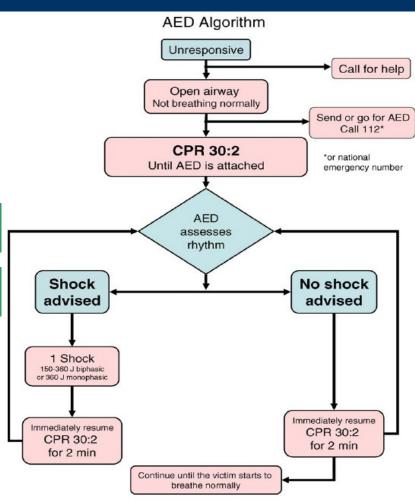


in Czech provided by ER

• continue with CPR

Attach AED

Follow voice prompts



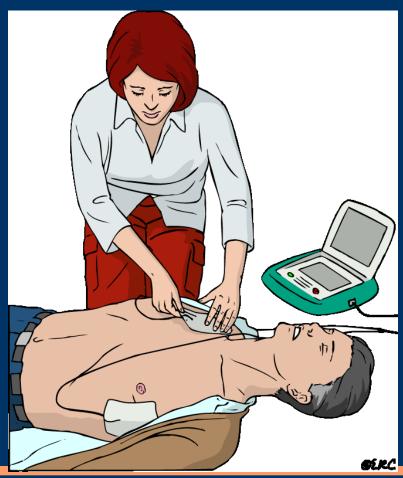
Start of AED

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

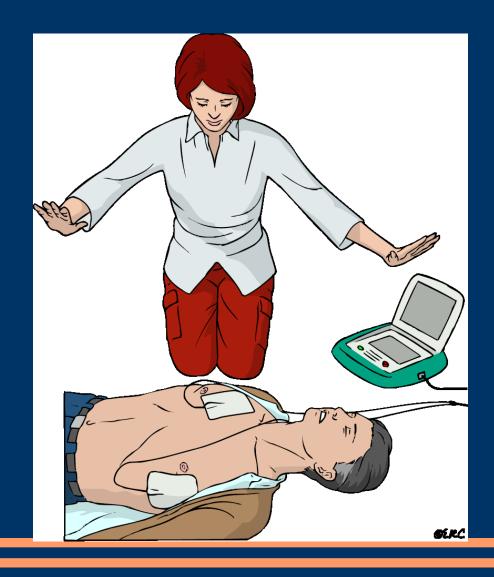


ATTACH PADS TO CASUALTY'S BARE CHEST

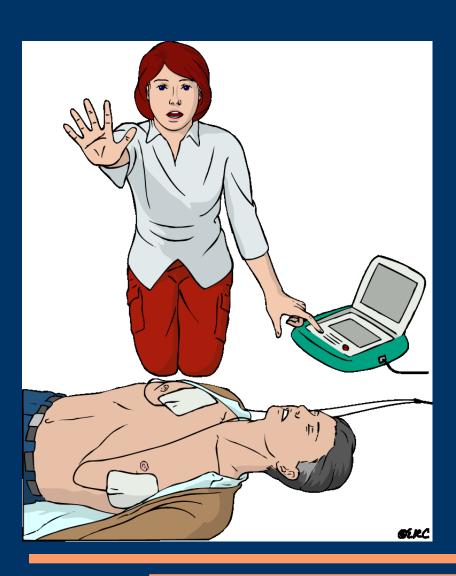




ANALYSING RHYTHM DO NOT TOUCH VICTIM

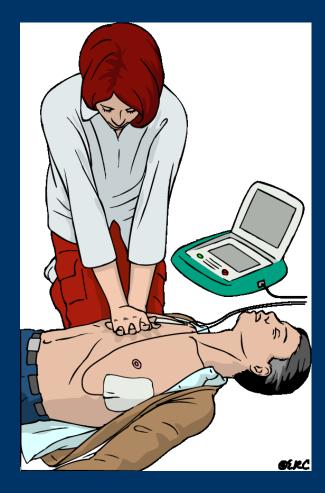


SHOCK INDICATED



- Stand clear
- Deliver shock

SHOCK DELIVERED FOLLOW AED INSTRUCTIONS





30 : 2

NO SHOCK ADVISED FOLLOW AED INSTRUCTIONS

