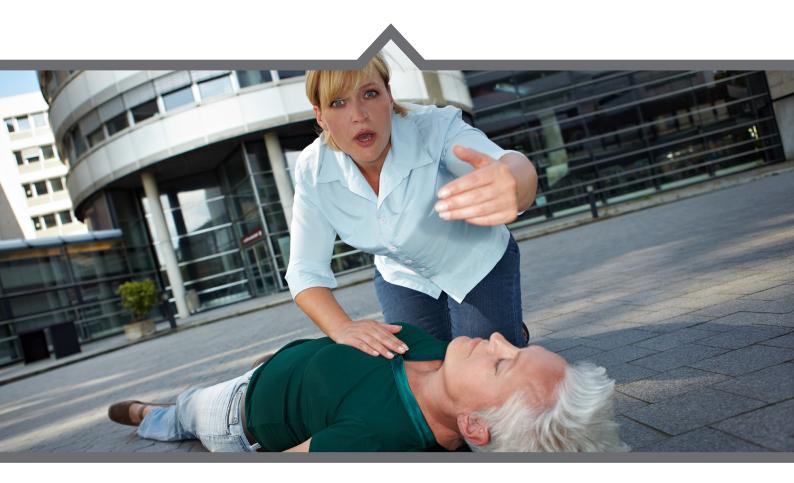




FIRST AID TRAINING



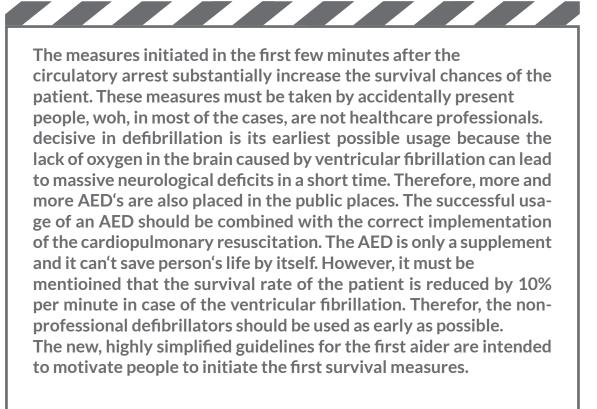
"WE TEACH HOW TO COPE WITH THE Emergency."

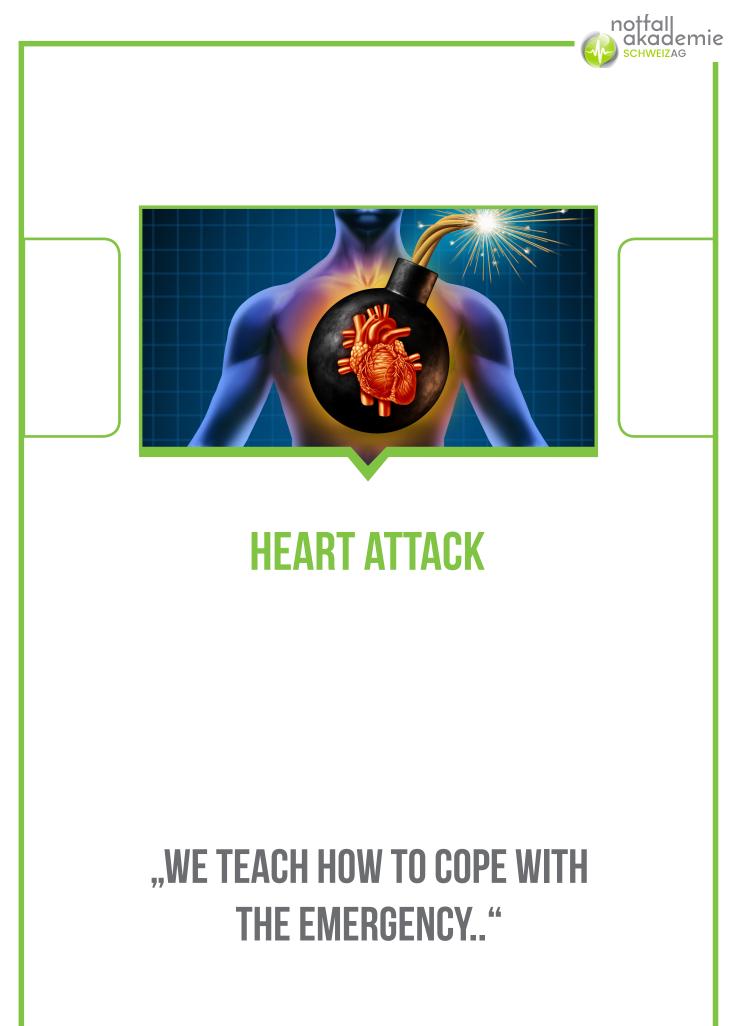
WWW.NOTFALLAKADEMIE.CH



Every year in Switzerland more than 10.000 people die because of the sudden cardiac death. In Germany, there are even more, i.e., 150.000 people. In order to substandially reduce the number of these deaths, the rescue chain must funktion. It includes rapid emergency diagnostics and alarming, the fast CPR (cardiopulmonary resuscitation), the rapid AED (automated external defibrillator) prescription and the extended help provided by professional staff.

At the same time, on October 15, 2015, the Amercan Heart Association (AHA) and the ERC (European Resuscitation Council) published new guidelines for cardiopulmonary resuscitation. These guidlines replace the previus ones dates by 2010. The aim is to take new knowledge into consideration and simplify their mediation in order to improve the survival potential of the patients.





-HEART ATTACK



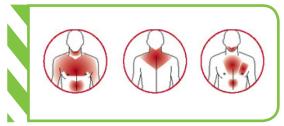
A heart attackis an acute and life-threatening situation. Because of the disturbance of the blood supply, the heart muscle is no longer supplied with the oxygen that leads to the death of cells in this part of the heart muscle.

Risk factors for the heart attack

- + High blood pressure
- + Stress
- +High level of cholesterol
- + Old age
- + Pancreatic diabetes
- + Masculine
- + Smoking
- + inherited predisposition
- +Physical inactivity
- + Overweight

Symptoms

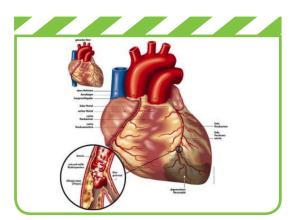
- + Acute chest pain
- + Possibly. pain radiation in the upper abdomen, left arm. lower jaw or back
- +Fear of death
- + Nausea
- + Respiratory distress



Overview of the pain centers

The basic measures include

- + Quick recognition
- + Rapid alarming (144)
- + Calm the patient
- + Place the patient in the way that the upper body is placed angle wise 30°
- + Ask if he or she has Nitro capsules or Nitrospray at the moment. If so, then put a caspsule or a myocardial spray in the mouth (professional personal only)
- + Take all possible measures agains weather and do not leave the patient alone



Myokard

- HEART ATTACK

Risk factors that cause the heart attack





- + High blood Pressure
- + Stress
- + High level of cholesterol
- + Old age
- + Pancreatic diabetes
- + Masculine
- + Smoking
- + Inherited predisposition

Cholesterin!

High Level of Cholesterol

- +Physical inactivity
- +Overweight







Smoking



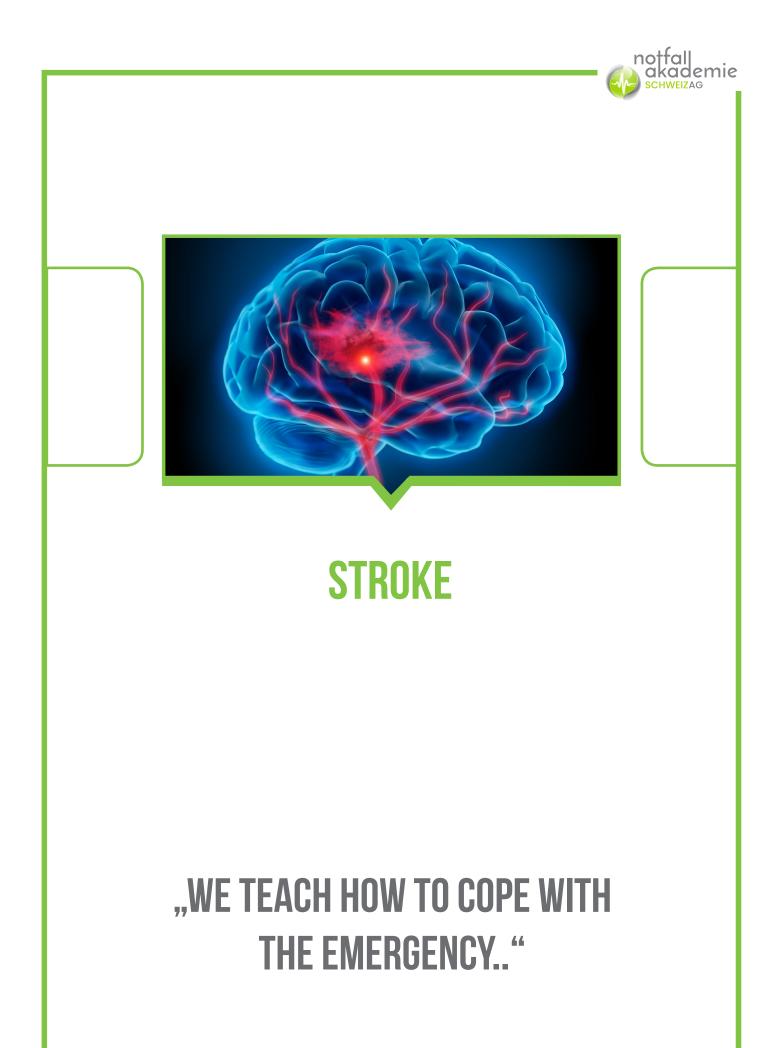
Physical inactivity

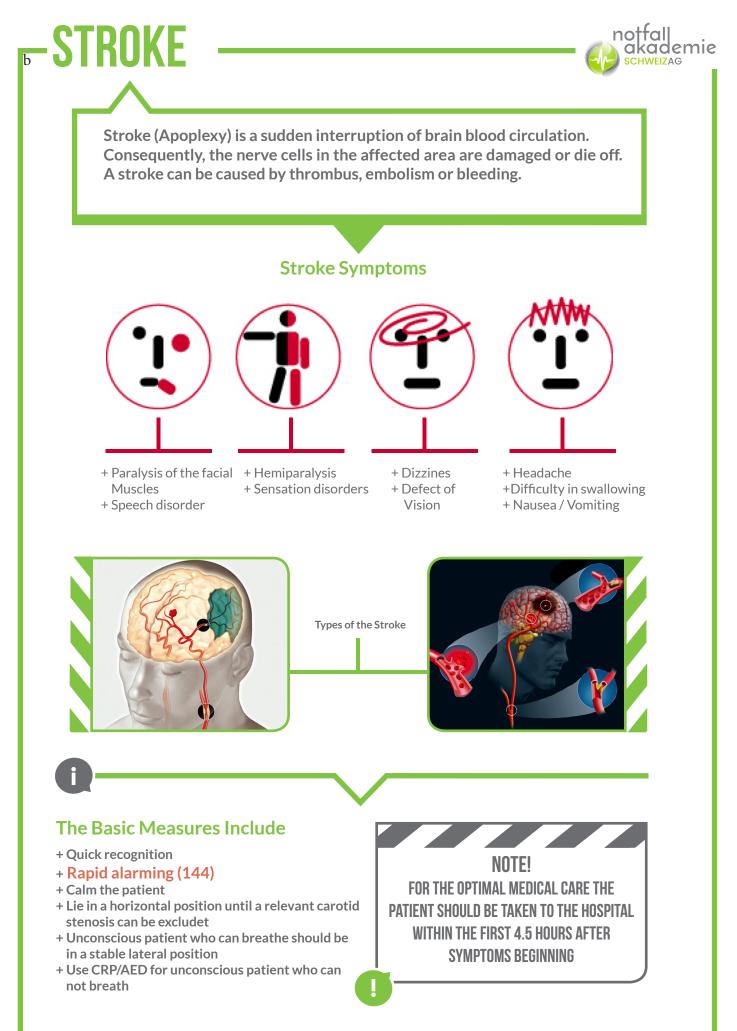


Overweight









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nottall STROKE emie EIZAG **Risk factors that cause the stroke** + Masculine + High blood pressure + Smoking + Stress + Inherited predisposition + Higt level of cholesterol + Old age + Physical inactivity + Overweight + Pancreatic diabetes Cholesterin! **Bluthochdruck** (Hypertonie) **High blood Pressure High level of cholesterol** Diabetes mellitus **Diabetes** Smoking



Physical inactivity



Overweight









CARDIOVASCULAR INSUFFICIENCY

"WE TEACH HOW TO COPE WITH THE EMERGENCY.."

-CARDIOVASCULAR INSUFFICIANCY 🍕

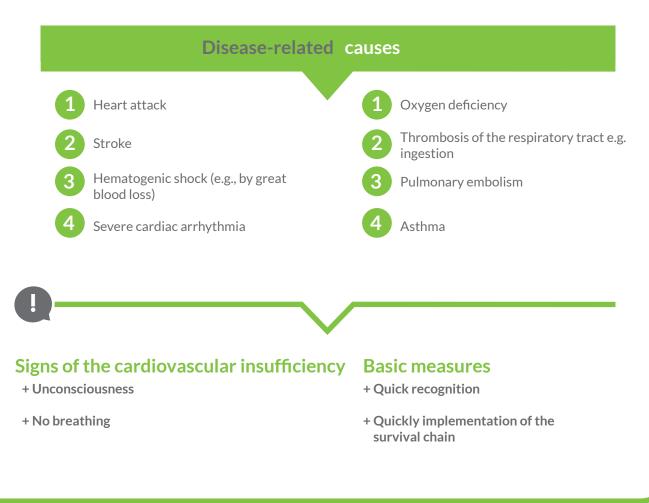


Cardiovascular insufficiency is the failure of the cardiac system. The term clinical death is often used as a synonym. This condition is potentially inversive and can be treated by the initiation of cardiopulmonary resuscitation (CRP). The CPR can provide a help only for a short time, i.e., for a few minutes.



Survival chances:

Timely medical intervention, alarming, timely CPR, defibrillation, monitoring, temperature-management



CARDIOVASCULAR INSUFFICIENCY

Causes related to the cardiovascular insufficiency



- +Traffic accidents
- + Loss of limbs, e.g. amputation
- + Poisoning

+ Drowning

+ etc.

- +Trauma caused by electricity
- + Grill accident, e.g. explosion



demie



Faint



Traffic accident





Plane crash



Accident at work



Electricity accidents



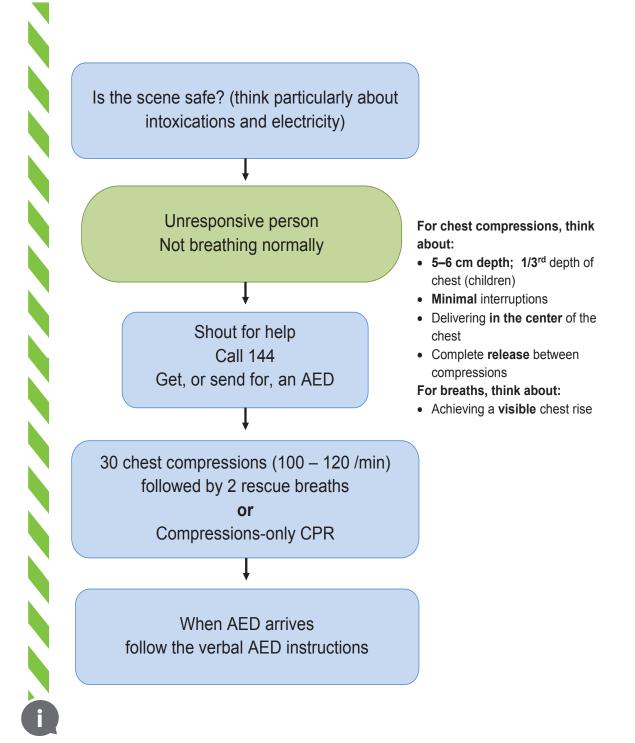
Suicide

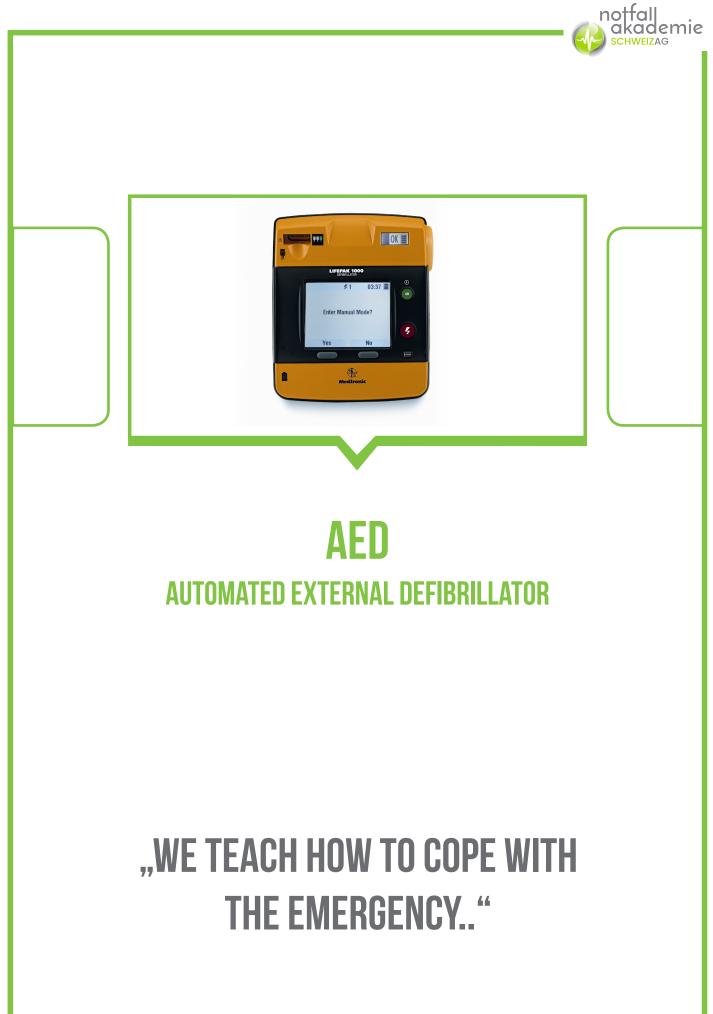












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AUTOMATED EXTERNAL DEFIBRILLATOR

There is a so-called ventricular fibrillation at the beginning of 85 percent of all sudden heart deaths. A defibrillator can interrupt this electrically circling excitation in the heart by simultaneous stimulation of at least 70 percent of all heart muscle cells. A large number of cells are simultaneously depolarized. As a result, these cells are no longer infecting for a relatively long time. The circular wave is almost cut off the path and the heart is again in a state in which the natural cardiac conducting system can provide the stimulation of the heart

Procedures

1. Try to get an AED-device as soon as possible

2. As soon as you turn on the device, follow the instructions of the device carefully

- 3. Attach the electrodes
- 4. Rhythm analysis, do not touch the affected person
- 5. Shock is recommended I'm gone, you're gone, all gone!!!
- 6. Shock is provided - Follow the instructions of the device
- 7. Shock is not recommended -Follow the instructions of the device





emie

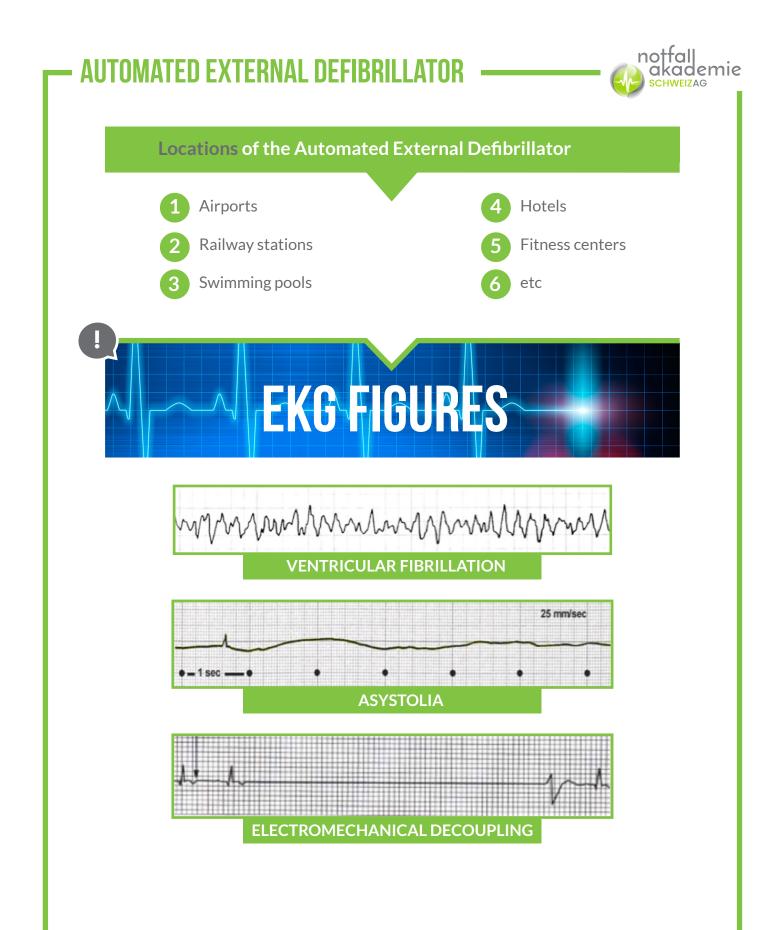


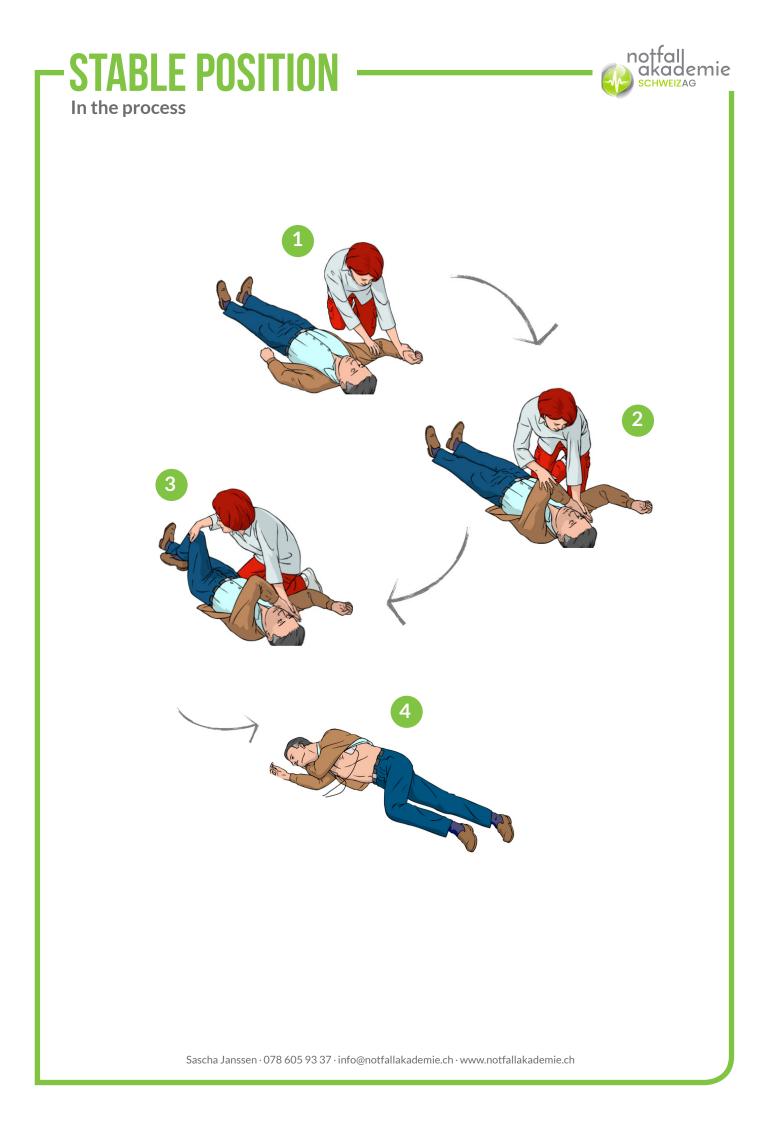












THE ABC OF CHILDREN'S RESUSCITATION-



The current guidelines of the Amercan Heart Association

Serious emergencies are not so common in children's medicine. Nevertheless, or precisely because of this, they represent a great challenge for us.

Case example: It can happen to all of us: at home, in the street, in the childrens cooksor even in the shopping center. Suddenly a turmoil can appear with excidet voices including the mother's cry: "She does not breathe, she does not breathe, help me, she is dying"!!! A six-year-old child with obvious signs of the asphyxia is in the mother`s arms and, you can hear her gasping breath. "We need the rescue service immediately", she called for help. At this moment you can notice how long 10 minutes can last. Rescue service needs this time to come to you.

There are different methods in children's resuscitation; one of them is PALS (Pediatric Advanced Life Support) of the American Heart Association that serves as a basis for us.

In 2015 the American Heart Association published the revised guidelines and algorithms. The importance of high-quality cardio-pulmonary resuscitation is particularly emphasized.

Since in most of the cases for children an oxygen deficiency is the most common cause of the cardiovascular insufficiency, first two respiratory instances should be taken into account. If this measure is not successful, chest compression must be initiated, followed by ventilation. For children, the ratio is 30:2 the same as for adults if the reanimation is initiated by one person. The exclusion from this rule can be only for newborns, where the compression-ventilation ratio 3:1 is still recommended. The compressions frequency is at least 100-120 per minute. The compressions depth is approximately 4 cm for infants and 5 cm for children. There is complete relief of the chest after each compression.

-MANAGEMENT OF THE CHILDREN'S RESPIRATORY TRACT





Nose position (Figure 1):

In case of infants and children with a large nape, it results in an additional flexion of the cervical spine and therefore, at most, in the obstruction of the respiratory tract. By placing the thorax, a neutral position can be reached.



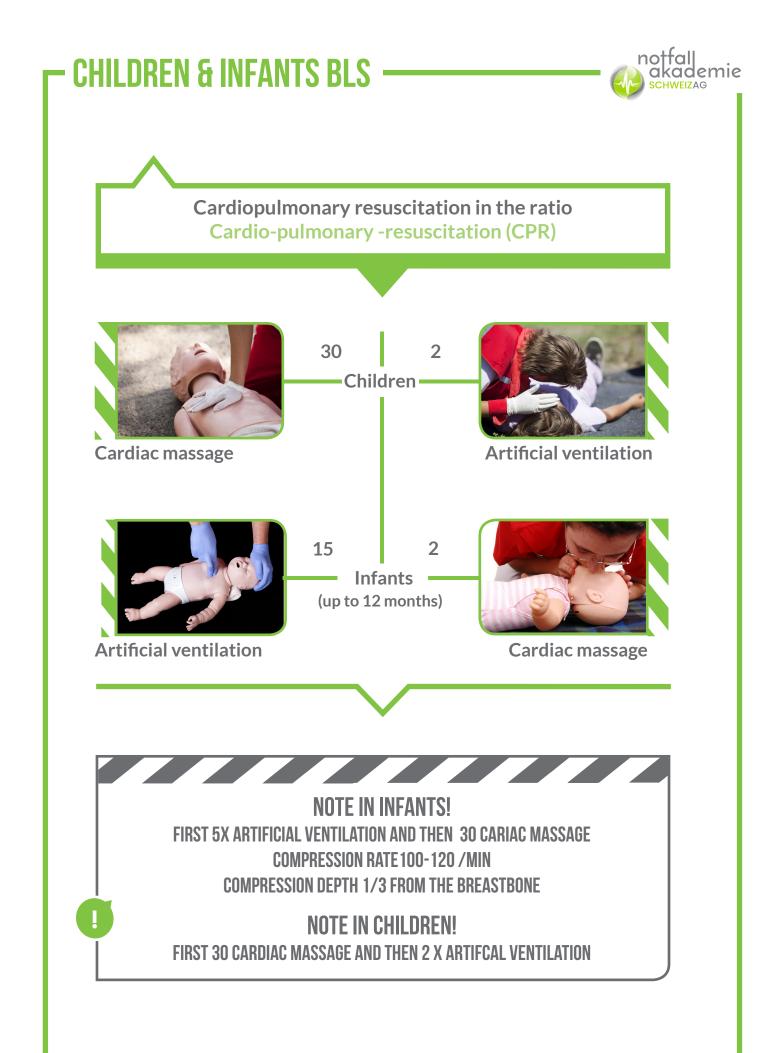
Head Tilt Chin Lift (Figure 2 & 2a): Lift the chin slightly with one hand, slightly tilt the forehead with the other hand backwards. Attention: Do not do that in case of possible injury of the cervical spine or trauma patients.



Head Tilt Chin Lift (Figure 2 & 2a): See description above.



Jaw thrust maneuver (Figure 3): Lift the lower jaaw with two or three fingers leaving the cervical spine in the neutral position..







FOREIGN BODY ASPIRATION

"WE TEACH HOW TO COPE WITH THE EMERGENCY.."

-FOREIGN BODYASPIRATION -



Blocking by some rounded mass of food or pharmaceutical preparation means that the respiratory tract is occupied by foreign body and the breathing air can not longer circulate. It means that neither breathing nor exhalation is possible. It can becom a life-threatening situation in a short time.

Causes of the aspiration

- + Dental prostheses or their parts
- + Toys e.g. Lego building blocks
- + Foodstuffs e.g. Peanuts, pieces of meat etc.

+ etc.

Symptoms

- + Possible ingestion can be seen
- + Sudden coughing with respiratory distress
- + Irritation of the throat often associated wigt gag reflex
- + Cyanosis (blue discoloration of the lips)

The basic measures include

- + Keep calm
- + During normal swallowing, drinking or eating, the body helgs itself:
 - by strong coughing, the foreign body is transported by pressure from the larynx.
- + In the case of aspiration, in which the foreign body can not be transported in the abovementioned ways, further measures must be taken.
- + Smal children:
 - Hold the legs (head down)
 - So that the foreign body can be detached and coughed by light beat on the back
- + Older children and adults:
- The upper body is in a downward position (e.g., over a chair) to achieve a similar effect
- + If these measures do not help and the affected person has a strong air shortage or blue Face colour, the rescue service should be alerted.



Lying position



Sitting position