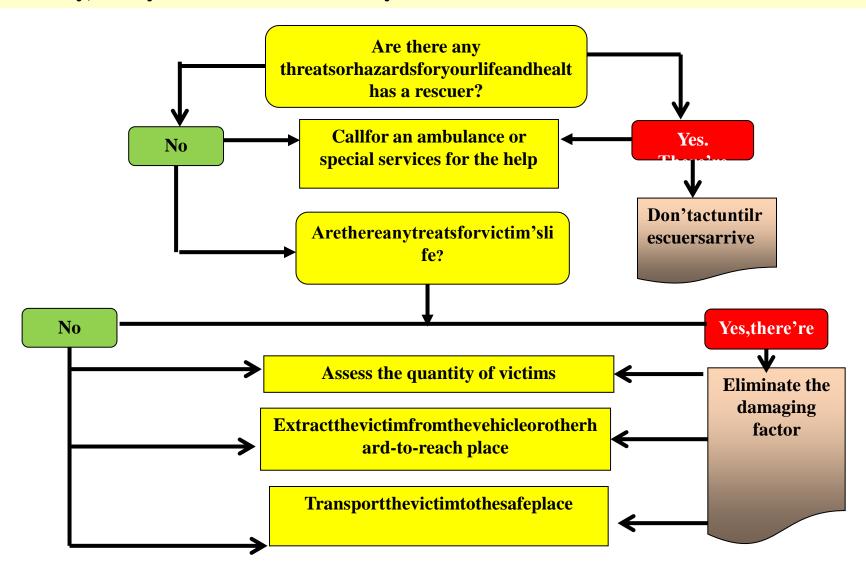
Topic 1.10 part 1. «Safety provision for the first aid»

The rescue procedure doesn't depend on the character of trauma when we speak about the first step of the first aid. The main purpose is to provide self-rescue and self-safety, safety of witnesses and safety of victims



P. 1.The order of calling emergency medical service and other special services obliged to provide first aid.

- ➤ Name the street and number of nearest building (in the city) or well-known landmarks of the scene and access ways to it (in the suburb);
- > Point out the time of the accident or the time of finding out the consequences;
- > Tell about additional hazards;
- ➤ Point out the number of victims and the presence of pregnant women and children among them;
- ➤ Give information about surname, age and sex of victims. If casualties are unknown give information about their sex and somewhere about their age;
- > Reveal yourself and your phone number;
- ➤ Meet medical emergency brigade or other special services.

P. 2 Elimination of damaging factors

A. Inthecaseofhigh voltage trauma

Turn off the source of electricity, if possible. If not, move the source away from you and the person, using a dry, nonconducting object made of cardboard, plastic or wood. Don't touch the exposed skin of the victim.

The first step to do is to disconnect the power supply. Turn off the electricals supply, unplug the machine, or switch off the fuse box, if within reach. Don't attempt to touch the victim until you're certain the power supply is turned off.

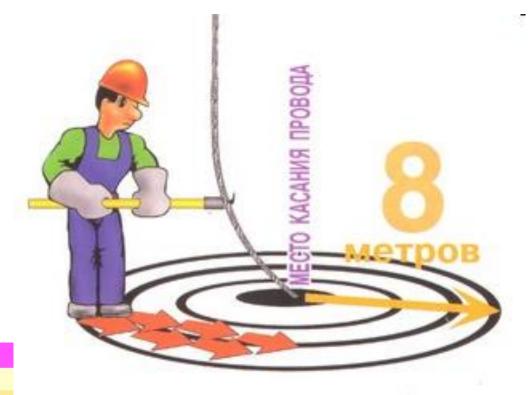
Be careful in areas that are wet such as bathrooms, pool areas, and wet grounds. Water is an electrical conductor and you may get electrocuted. If you're uncertain about wet grounds, make sure the main electricity supply of the house or building is turned off.

If turning off the power supply is not possible, use a material that does not conduct electricity to separate the person from the electrical source. You can use a wooden broom handle or any dry wooden objects.

As soon as the victim has been freed from the electrical source, call for an ambulance or medical help if you are alone with the patient.

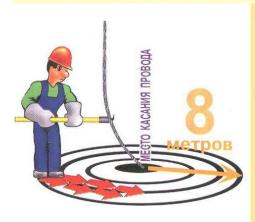
Rememberthat!

- > Electricity can spread outward through the ground in a circular shape from the point of contact.
- ➤ As you move away from the center, large differences in voltages can be created.
- > To minimize the path of electric current and avoid electrical shock, shuffle away in small steps ("goose-step") or hop along from the dissipating voltage area.
- > To approach a victim use "goose-step". Shuffle without lifting feet.
- > Do not fall or lay down on the floor.



Первая помощь в случаях поражения

Правила перемещения в зоне «шагового» напряжения



Нельзя!

Отрывать подошвы от поверхности земли и делать широкие шаги. В радиусе 8 метров от места касания земли электрическим проводом можно попасть под «шаговое» напряжение.

Передвигаться в зоне
«шагового» напряжения
следует в диэлектрических
ботах или галошах либо
«гусиным шагом» - пятка
шагающей ноги, не
отрываясь от земли,
приставляется к носку
другой ноги.

Нельзя!

Приближаться бегом к лежащему проводу.

я бегом к роводу. Shared

B. When the house collapses

 $Transport the victim to the safe place (``non-avalanche zone"). \\ Recommended distance for "non-avalanche zone" is half of the height of damaged construction plus 3 m.$





C. In the case of fire.

First of all, stop the effect of the damaging factor, try to extinguish the flame immediately.

Use special means for the extinguishment;

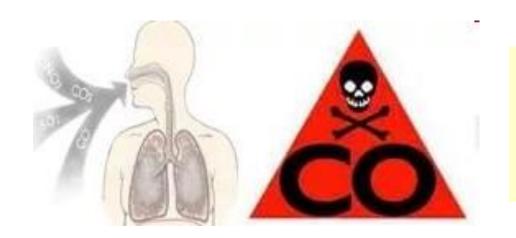
Run large amount of cool water over the burning area.Do not use small amount of water, therefore flame won't go out, water will evaporate andenhance the lesion.

Coverthevictim with heavyweight non-synthetic fabric like coat or blanket to stop oxygen supply for fire.

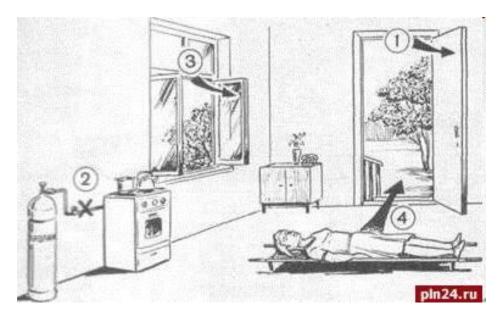
Remove clothing from the burned areas, except clothing stuck to the skin.

If patient's mouth or nose is full of soot, clean it immediately with your finger wrapped in wet napkin.

D.Inthecaseofcarbon monoxide poisoning



Snatchthevictimfromthecontaminate dareaimmediately (to the street or to the other well-ventilated zone). Unfastenthecollar, loosetheclothing, providetheaccessoffreshair.





P. 3 Extraction from vehicle or other hard-to-reach place. Themainruleistominimizeharmwhileextraction

Conditions for victim's extraction:

The presence of potential threat for victim's life;

Inabilitytodeterminetheseverityofthelesion;

The character of trauma or sever evictim's condition doesn't allow to provide the first aid for victim;

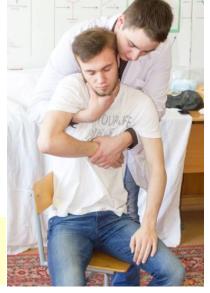
Weatherconditions do not allow abandon the victim.

If there are no conditions above and there is the risk of further traumawhile extraction, it is necessary to stop extraction.

There are several ways how to extract the victim:



If the victimis consciousitis acceptable to extract him or her without neck fixation.



If the victimisun conscious extracthimo rher with neck fixation.

Ifthevictimisconsciousitisacceptable to extract him or her without neck fixation.

- 1) turnthevictimback to you;
- 2) putyourhandsundervictim's axillary creases and grab one of his or her forearms (less traumatized);
- 3) placethevictimonyourbreast;
- 4) pulloutthevictimfromthevehicleorotherhard-to-reach place (pic. 1)

If the victimisun conscious extract him or her with neck fix at ion.

- 1) Dotheabovetechnique butsupportthechin (notneck!);
- 2) Fixvictim'sheadbypressingitdowntoyourbreast;
- 3) Pulloutthevictimfromthevehicleorotherhard-to-reach place (pic. 2);
- 4) Useyourcorpusassmoothnon-bendingsurface.

Usehardsurfaceafterextraction (hardstretcherorplank). Fixneckwithmakeshiftcollar (use some uppergarment).

P. 4 Transportation.

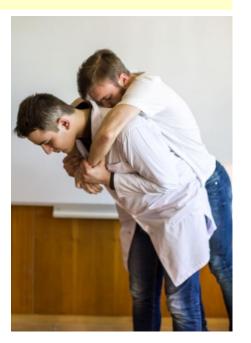
Iftherearenocontraindicationsfortransportation (severetraumas, unconsciousness), thevictimcanmoveindependentlyleaning on rescuer's arm. Ifthevictimcan'tmoveindependently, rescuersshouldtransporthimorherwith rescuer stretcher or some makeshift means.

Transferofthevictimbyone rescuer is performed on the shoulder, back or arms.

Transportation on the shoulder is acceptable for unconscious patient without other contraindications.

Transportationontheback: therescuersupportsvictim'sthighs; the victim holds for the rescuer's neck





Iftherearetworescuersitisacceptabletouse "locksfromthehands" fortransportation.

Two-handedseat.

Usetowelorpieceoffabrictomakethering.Rescuerswillgrabthering and support the victim with free hands.

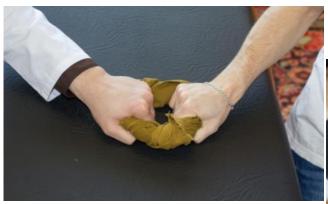
Three-handedseat.Wrist-lockgripfrom 3 hands. The

Four-handed seat. Wrist-lock grip from 4 hands. While facing each other rescuers should grasp one another's wrists in wrist-lock grip.

Transferwitharescuestretcheristhemostcomfortableandsafeway.

If there are no standard rescuest retchery ou can use makes hift means for them (e.g. use straps, belts, chairs and sheets).

Itisimportanttoputthevictimonthestretcherproperly, not to worth his or her condition with further pain or trauma. Itisdesirabletoputthevictimonthestretcherwithonepartneratleast.









Rescuersliftthevictimandputhimorheronthestretcher;

1st bearergrips the victimunder his or her armpits,

victim'sheadisonbearer'sforearmsorhands, 2^{nd} bearer puts his arms under victim's pelvis.

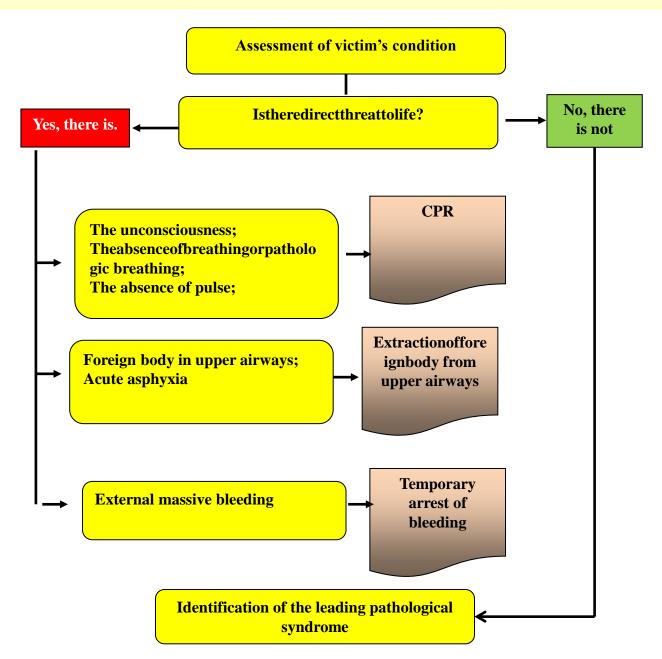
Itisnecessarytofixthepatientwithbelts.

Liftandmovementofstretcherisperformedonlyinresponsetoacommand. Use route step for moving on flat surface.

Ifyougodownstairs, the victimistransported feet-first; if you goupstairs – head first.

But victims with severe traumas of lower limbs should be transported in reverse or determined and the provided and the prov

Assessmentofvictim's condition. Common examination



The purpose of common examination is quick evaluation of main lesion that may cause further injury or even death.

Firstly, it's necessary to exclude life-threatening conditions, and in the case of their presence – provide the first aid immediately

Rules of common examination:

- Readiness to different situations
- Ability to act quickly and confident without fluster and fuss
- To treat a victim by name
- To reveal your name
- To hear out all victim's complains
- Explain your actions if it is possible
- Do all manipulations carefully and gently
- Give tasks to bystanders (to bring first aid kit, to fence round the scene of accident, to look for victim's stuff)
- Don't answer on possible rudeness or anger (that can be probably a manifestation of fear)
- Prevent disputes and quarrels between bystanders
- Try to point time of carrying-out all actions

There are two main questions to assess victim's condition:

- 1) What happened?
- 2) Wheredoesitheart?

First question will give us following information:

- \triangleright Victim doesn't answer \rightarrow he or she is unconscious
- ➤ Victim answers that he or she doesn't remember what had happened → amnesia (the possible reason is poisoning, even drug poisoning)
- ➤ Victim answers correctly, but speaks in monosyllables and slowly → patient is in clouded consciousness or stunned (shock, severe bleeding, severe trauma, craniocerebral trauma and etc.)
- ➤ Victim answers correctly, but in jerky, staccato manner → trouble with respiratory system (chest injury, pulmonary lesion)
- \triangleright Victim answers heatedly \rightarrow inceptive shock or emotional stress

Second question will help to:

- > Define the localization of pain and its possible source;
- > Draw attention to invisible injury that hurts most of all;
- > Define sensitive disturbances in injured limbs (the rate of spinal disturbance).

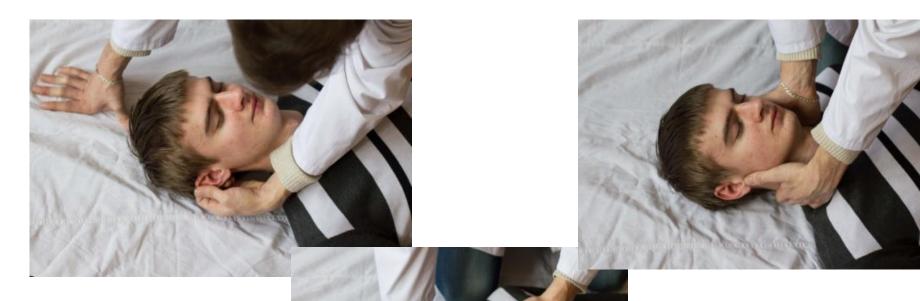




Carry out victim's careful examination and quick questioning simultaneously to detect the signs of any injuries or other life- and health threatening conditions:

Head examination: deformation, bleeding, bruise, skin disturbance etc. Examine scalp with fingers carefully to detect swelling or painful area. Stop palpation immediately if you feel bone crepitus Face/forehead examination: draw attention to face symmetry, wounds, bruises

Face/eyes examination: eyelid wounds, eye globe wounds, hemorrhage, intraocular foreign body. Assess pupillary response to light and victim's ability to fix the gaze.



Noise/ears examination: deformations, wounds, nose bleeding, blood clots in nostrils, ear tract bleeding (symptom of basal skull fracture)

Mouth/lower jaw examination: lower jaw deformation, teeth absence, wounds on oral mucosa or tongue

Neck examination: try to do this part of examination without victim's head displacement



Chest examination: ribs fractures (usually multiple), subcutaneous crepitation (this is the symptom of subcutaneous emphysema)

Abdomen examination: bruises, wounds, foreign bodies, prolapse of internal organs. Palpate abdomen carefully: soft or hard, painful or not



Pelvis examination: palpate pelvis bones, palpate iliac bones softly to detect pain irradiation to sacrum or perineum

Thighs examination: wounds, bleedings, deformations, fractures, pathologic flexibility, bone crepitation. It is strictly prohibited to change thigh's position if there is bone crepitation or strong pain because this may lead to injury aggravation and more severe hemorrhage development

Shins: wounds, bleedings, deformations, fractures, pathologic flexibility, bone crepitation. It is strictly prohibited to change shin's position if there is bone crepitation or strong pain because this may lead to injury aggravation and more severe hemorrhage development



Pes: wounds, bleedings, deformations, fractures, pathologic flexibility, bone crepitation. It is strictly prohibited to change foot's position if there is bone crepitation or strong pain.

Joints flexibility: the ability to bend and unbend the limbs, pain during this movements

Arms, forearms, hands: examine as thighs and shins. It is strictly prohibited to change limb's position if there is bone crepitation or strong pain.

Back examination: check up back and spinal column if it is possible from the outset (e.g. patient is laying sidelong or on his belly)