



Instructions obtained a positive opinion of:

Przemysław Paciorek PhD
The Regional Consultant for Emergency Medicine
Dorota Klimaszyk PhD
The Regional Consultant for Clinical Toxicology

ASSESSMENT OF THE ACCIDENT SCENE PRELIMINARY ASSESSMENT OF THE INJURED. CPR CARDIO – PUI MONARY RESUSCITATION **AUTOMATED EXTERNAL DEFIBRILLATOR** TRAUMA FXAMINATION SAMPLE SCHEME INTERVIEW HAEMORRHAGES - WOUNDS FRACTURES, SPRAINS, LUXATIONS 10 SAFF POSITION 11 **CHEST PAIN** 12 CHOKING 13 **STROKE** 14 CONVULSIONS SWOONS (SYNCOPE)

16 **HYPOTHERMIA** 17 DIABETES 18 BURNS 19 HEATSTROKE 20 DEHYDRATION STRONG ALL FRGIC REACTION 22 ENHANCERS (designer drugs) AND DRUGS 23 POISONING AND CHEMICAL CONTAMINATION 24 THE ADR TABLE 25 **ACTIVE SHOOTER**

26

28 THE CORRECT CALL FOR HELP
28 EMERGENCY NUMBERS

FDITORIAL OFFICE

TRIAGE SEGREGATION OF THE INJURED IN AN ACCIDENT

THE ASSESSMENT OF THE ACCIDENT SCENE



Before approaching the casualty:

1 Secure the place of an accident



- Ensure the safety of yourself and the person(s)
- Assess what happened, how many casualties there are, what help may be needed





PRELIMINARY ASSESSMENT OF THE INJURED

ASSESS CONSCIOUSNESS – AVPU scale

- A **ALERT** patient conscious
- VERBAL patient responds to voice stimulus
- PAIN patient responds to pain stimulus
- UNRESPONSIVE unconscious patient does not respond to stimuli

CHECK THE ORAL CAVITY (foreign body)

ABC scheme

- A AIRWAY open airways
- **BREATHING** check breathing using three senses (I hear, see, feel) for 10 seconds
- **CIRCULATION** if the patient is not breathing or not breathing normally and there are no signs of circulation start CPR using AED





CPR Cardio – Pulmonary Resuscitation





30

Chest compressions to a depth of 5-6 cm with frequency of 100 – 120 per minute

2

Rescue breaths forcing air into the airways (for 1 seconds) until the casualty's chest rises

00

Repeat the cycle until the arrival of emergency medical team

In case of lack of breathing in a child or a person partially drowned start CPR from 5 rescue breaths, then maintain the CPR algorithm 30:2





AED - Automated External Defibrillator







The AED location information

phone number in Poland: 987 the Duty Officer of the Provincial Crisis Management Center



The minimal first aid kit content

A thermal insulation blanket, CPR mask, protective gloves, gauze dressing codofix No. 6, sterile gauze, elastic bandage, triangular bandana, adhesive tape with and without dressing, rescue scissors

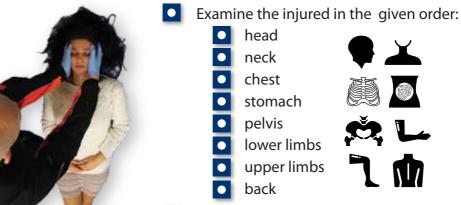


TRAUMA EXAMINATION



- Stop visible bleeding and secure a permanent stabilization of the cervical spine
- Assess the injured according to the ABC scheme









SAMPLE scheme interview

Gather information from the patient, families or bystanders (Use SAMPLE scheme)

- Signs/Symptoms
 What happeend to you? Where does it hurt?
- Allergies
 Are you allergic? What allergy do you suffer from?
- Medicines
 Are you taking any medication? When did you take your medications last?
- Past medical history
 Do you suffer from any diseases?
- Last meal intake
 What did you last eat? When did you last eat or drink?
- Events leading to incident

 Do you remember what happened before the accident?





HEMORRHAGES - WOUNDS









- Esure the safety of yourself and the injured person, and others around you (wear gloves, goggles, Individual Protect Equipment)
- Compress the bleeding site with a finger, hand or fist
- Apply the pressure dressing
- If direct pressure doesn't stop the hemorrhage, apply a tourniquet
- If the bleeding is located in a place where it is not possible to apply a tourniquet, use haemostatic agent

For the use of haemostatic dressings and a tourniquet proper training is needed

Do not disinfect the wound and do not remove any foreign matter from it



FRACTURES, SPRAINS, LUXATIONS

- The symptoms
- Pain
- Swelling and a hematoma within the injured area
- Distortion of the limb outline
- Unnatural arrangement
- In open wound fractures, visible bone parts
- The principle of immobilizing limb injuries by Pott:
- In case of injury of a long bone, use fixation involving the broken bone and two adjacent joints
- In the case of injury to the joint, use immobilization including the damaged joint and two adjacent bones

RECOVERY POSITION





- If the person is unconscious, breathing normally, and you do not suspect spinal injury, put the person in the recovery position on their side
- Check life functions and provide thermal comfort
- Place pregnant women on their left side





Training videos in providing first aid are available on the Internet website of the Regional Police Headquarters (Bydgoszcz)



SUSPICION OF MYOCARDIAL INFARCTION (HEART ATTACK)

Place the injured in a sitting position

If there are no contraindicating allergies, consider administration of aspirin at a dose of 300 mg (to crack)

If the injured person has their own drugs, they can take them/

Do not let the injured person perform any physical activity

 Loosen the injured person's clothing to make it easier to breathe

 Ensure psychological support for the injured





EFFECTIVE COUGH

 Encourage the injured to cough and watch him, assess the effectiveness of coughing and the state of consciousness

INEFFECTIVE COUGH - injured conscious

- Up to 5 hits in the upper part of the back
- Up to 5 compressions in the upper abdomen
- Adults, children > over one year of age up to 5 chest compressions

INJURED UNCONSCIOUS

- Check and open airways
- Do 5 rescue breaths
- If there is no return of spontaneous breathing, start CPR according to 30:2 algorithm



Stroke is the result of the interruption of blood supply to a particular brain area, or extravasation of blood from a damaged cerebral vessel.

Stroke identification scheme

- Altered speech
- Facial asymmetry on one side
- Droopy corner of the mouth
- Droopy eyelid
- If you recognize a stroke call for help immediately 112/999.

- Weaker upper and lower limb on one side of the body
- Visual disturbances
- Blurred vision
- Double vision



- ! What is important is the real, accurate time from the onset of symptoms to the arival of a patient at the hospital specialist stroke unit

 The crucial period is the first 4 4.5 hours after the first symptoms
- It is important that the hospital requires the presence of the family, who certifies the real time of the onset of symptoms and sign the required agreement on behalf of the patient for the purpose of diagnosis and treatment

BURNS



Tissue injury due to contact with an energy source: high temperature, electric current, radiation or corrosive chemicals

- 🚹 FIRST AID
- Ensure the safety of yourself and the injured person
- Secure the place of the accident
- Cool the injured area with water for at least ten minutes
- Remove jewelry from hands of the injured person before an oedema develops
- After cooling, use loose sterile wound dressings or hydro / aqua gel
- Remember! Do not lubricate the burnt skin with ointments, creams and fats.







SWOONS (SYNCOPE)

Syncope is a short-term transient loss of consciousness

- PRECEDING SYMPTOMS:
- Weakness
- Scotomata (blurred vision)
- Humming in ears
 - Pale sweaty skin

- FIRST AID
- Assess the injured person according to the ABC scheme
- Use anti-shock position
 raise lower limbs at about 30°
- Place pregnant women on their left side after a syncope
- Ensure access to fresh air
- Do not straighten the patient too fast in order to prevent re-syncope
- Do not give any medication



SEIZURES



FIRST AID

Ease the person on the floor

Protect the head from any injuries

After seizures have stopped, evaluate life functions (ABC)

If the person's breathing is returning to normal and there are signs of circulation, put the person into the recovery position

Secure thermal comfort for the person (blanket, coat)

 When the person regains full consciousness, provide psychological support

Warning! Do not insert hard objects between the teeth during seizures! This may cause choking and damage teeth!

Seizures are uncoordinated contractions of groups of muscles, or of all the muscles in the body, triggered by pathological electrical impulses in the brain - epilepsy, brain tumor, fever, head injury, poisoning.



DIABETES



Hypoglycemia is a condition in diabetic patients, with decrease of glucose level in blood.

SYMPTOMS

- Muscle twitching
- Blurred vision (scotoma)
- Cold, sticky sweat
- Agitation, anxiety or apathy
- Unconsciousness (diabetic coma)
- Feeling of hunger

FIRST AID

- If the person is conscious, give sweet fluids to drink – water with sugar, cola
 If the person is unconscious evaluate
- ABC and put into the recovery position
- Provide thermal comfort (blanket)



HYPOTHERMIA



Hypothermia is the result of exposure to low ambient temperature, contact with snow or water.

SYMPTOMS

The body of the person is cool, muscle tremor can be observed, as hypothermia develops: cessation of muscle tremors, slower and shallower breathing, consciousness disorders up to unconsciousness.

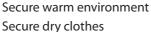
FIRST AID

Assess patient's awareness and breathing > 60 seconds



If conscious:



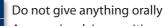


Give warm sweetened drink

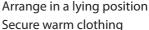
Physical activity is allowed

If unconscious:











Gently warm the person up externally

If not breathing:



Start CPR,



Secure thermal comfort if possible

HEAT STROKE



Heat stroke can be caused by heightened temperature due to physical effort during hot and humid weather. The body is not able to dissipate the excess of accumulated heat

SYMPTOMS

Heightened body temperature, red, hot and dry skin, muscle spasms, headache,

dizziness, impaired consciousness, fainting, seizures

- FIRST AID
- Move the person to a cool place and remove excessive of clothing
- Start cooling:
 - Sprinkle profusely with water best is lukewarm water (Allows evaporation and does not cause vasoconstriction of skin which restricts heat elimination)
 - Fan vigorously to increase air movement or, if possible turn on the electric fan
 - Apply cold compresses over large, superficially lying vessels (armpits, groin, neck)

DEHYDRATION



The deficiency of water and electrolytes in the body.

The reason is insufficient water intake, loss of fluids trough gastrointestinal tract (vomiting, diarrhea), lungs, kidneys, skin (sweating)
Especially dangerous and life-threatening for children and the elderly!

SYMPTOMS

Strong thirst, less frequent urination, dryness of mucous membranes and skin, Tachycardia – accelerated pulse, headache, dizziness, muscle spasms, disorders of consciousness, fainting, seizures

- 🚹 FIRST AID
- Give fluids (orally):
 water, carbohydrate-electrolyte
 fluids, tea
- Lay the person down



STRONG ALLERGIC REACTION

Anaphylaxis is a severe, life-threatening systemic reaction to substances such as: drugs, food, insect stings, latex, etc

SYMPTOMS
Redness and itching of skin, hives, swelling, strong shortness of breath, difficulty in breathing, rapid pulse, coughing, wheezing, diarrhea, vomiting, runny nose, watery eyes

FIRST AID

- Eliminate the allergen (if possible)
- If the person is conscious, give calcium to drink
- Make cold compresses for example in place of the sting
- Provide ice cubes to suck
- If they loses their consciousness, rate them according to the ABC scheme
- Start CPR if necessary
- If the condition of the injured is getting worse, do not hesitate to call for help!



ENHANCERS AND DRUGS



Enhancers (designer drugs) - is the common name of the substance, designed so that their psychoactive impact resembles the old type of drugs, while being a lot stronger. Enhancers (designer drugs) pose a threat to life and health. It specifically refers to people in adolescence and children.

SYMPTOMS

- The most common reaction is extreme anxiety, up to extreme aggression (to the surroundings, and autoaggression)
- Confusion, disorientation in time and apace, hallucinations
- Intoxication, disorders of pain perception, less likely: slow reactions
- In the most severe cases, convulsions, coma

FIRST AID

- Secure the safety of yourself and the injured person in justified cases, use physical force
- Rate the state of the injured person ABC
- Determine the circumstances of poisoning
 - Gather information (SAMPLE), perform trauma examination
- Look for and secure the packaging of enhancers (designer drugs, drugs)

Toxicology centers in Poland

Rescue phone numbers or 24/7 - toxicological information:

GDAŃSK	+48 58 682 04 04
KRAKÓW	+48 12 423 11 22
	+48 12 646 85 50
LUBLIN	+48 81 740 89 83
ŁÓDŹ	+48 42 657 99 00
POZNAŃ	+48 61 847 69 46
RZESZÓW	+48 17 866 40 25
SOSNOWIEC	+48 32 266 11 45
TARNÓW	+48 14 629 95 88
WARSZAWA	+48 22 619 66 54
WROCŁAW	+48 71 343 30 08

POISONING AND CHEMICAL CONTAMINATION

EYES

Decontamination must be carried out with ensuring safety of the rescuer (protective gloves, protective clothing, IPE)

Rinse each eye separately for 10 minutes with a steady stream of water

SKIN

Remove contaminated clothing, then wash the body with lukewarm water for several minutes

DIGESTIVE TRACT

- In case caustic substances are ingested, call for Toxicology immediately requesting the correct procedure
- Do not provoke vomiting, especially in young children and people with impaired consciousness
- Do not give fluids to drink to people who are semi-conscious
- Do not use poison neutralizing method: acid alkali, alkali acid

AIR WAYS

- Do not provide assistance using the mouth mouth method to people with facial contamination and in the case of cyanide poisoning, cyanides, after ingestion of organophosphates or corrosive substances
 - In case of suspected exposure of the injured persons to toxic gases, entrance not permitted without adequate protection (especially the respiratory tract) to the site or premises where the injured are.

 It is urgent to call the fire brigade!

Text edition: Dorota Klimaszyk PhD - Regional Consultant for Clinical Toxicology

The ADR table - dangerous cargo



Danger recognition number - meaning

- Emission of gas due to pressure or chemical reaction
- Inflammability of liquids and gases
- Inflammability of solid materials
- Oxidizing action, supporting burning
- 6 Toxic effect
- Radioactivity
- 8 Caustic effect
- 9 As the first digit

(The threat for the environment, various hazardous substances)

As a 2 or 3 digit number (threat of spontaneous violent reaction)

No additional risk

The information table placed on vehicles carrying dangerous substances

Danger recognition number



33

Material identification numer



1203

Example ADR table to mark the transport of petrol (flammable liquid, ignition temperature lower than 23 degrees)

A total ban on contact of the material with water (sodium, potassium)

Double digit indicates an intensification of the threat described by it



ACTIVE SHOOTER / TERRORIST ATTACK

PROCEDURE FOR CIVILIANS

Active shooter - an assassin or a group of assassins, whose aim is to kill as many people as possible using firearms, other dangerous tools (knife, machete) or explosive devices



RUN

Escape from the area of danger, help others escape



HIDE

If you cannot escape, search for safe haven, hide, barricade the room, mute the phone and turn off vibration mode, stay calm do not panic



CONTROL HEMORRHAGE

Assess life functions on the injured person ABC



WATCH

If you can, remember how many attackers there are, how they are armed, how many are injured



PASS ON THE INFORMATION Call or text police



FIGHT

Where your life or the lives of others are at risk, you may make a personal decision to try to attack and incapacitate the shooter to survive



In case of a raid by the anti-terrorist unit do not run in the direction of the officers, do not run away, do not make violent gestures and sudden movements, follow their instructions.

TRIAGE segregation of injured in an accident



The injured can move independently

YES 🔁

GREEN COLOR

NO

The injured speaks without difficulty, performs simple commands

YES 🔁

YELLOW COLOR

NO

The injured is breathing

YES (+)

RED

COLOR



No signs of circulation in the injured person

YES (+)

BLACK COLOR

CONTROL HEMORRHAGE FIRST



EDITORIAL OFFICE

Regional Police Headquarters (Bydgoszcz) Regional Emergency Ambulance Service (Bydgoszcz)



Krajewski Tomasz MAJ M.A.

Regional Police Headquarters (Bydgoszcz)

Police medical emergency coordinator (Kuyavian – Pomeranian region), paramedic, shooting instructor, self defence instructor, university lecturer at Kazimierz Wielki University. Bydgoszcz



Wiśniewski Krzysztof M.A.

Regional Emergency Ambulance Service (Bydgoszcz), Head of Medical Services and Training in Regional Emergency Ambulance Service (Bydgoszcz), paramedic, nurse, lecturer at Copernicus University (Torun) and Bydgoszcz Medical College, instructor, Polish Society of Emergency Services (Bydgoszcz).



Tworowski Szymon PFC M.A.

Regional Police Headquarters (Bydgoszcz), police officer for multimedia projects, visual layer project.

Dorota Klimaszyk PhD - Regional Consultant for Clinical Toxicology text edition: poisining and chemical contamination, enhancers and drugs

MAREK MOCNY - translation into English, Holborn Language School

We would like to extend our gratitude to Burki Affan Khan, Joanna Napiórkowska, Irena Biskup, Renata Kolczyńska, Wiesław Donarski, Markek Kolinski, Icons designed by Freepik.



HOME SITE













EMERGENCY NUMBERS



112 European emergency number

999	Emergency medical Services	991	Energy Emergency
998	Fire brigade	994	Water – Sewage Emergency
997	Police	(22) 585 7910	The Internal Security Agency
986	Municipal Guards	(22) 236 5900	The Government Centre for Security
981	Road Emergency	987	The AED location information phone number
992	Gas Emergency		The Duty Officer of the Provincial Crisis Management Center

A CORRECT CALL FOR HELP



Basic information we should pass while calling the emergency number is:

- The exact address of the place, what happened
- the type of event, the number of persons injured
- the condition of the injured person, your name and phone number
- Never hang up first. The dispatcher may ask you additional questions and instruct you in first aid until the arrival of emergency medical team