Acute poisoning

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Acute poisoning

It is an intoxication by venoms A poison can cause permanent or temporary damage

Man- made poisons Natural poisons

- 1. inhaled
- 2. swallowed
- 3. absorbed through the skin
- 4. injected through the skin s.c., i.m., i.v.
- 5. splashed into the eye

Signs

- Vary with the type of poison They develop quickly or over a couple of days
- **Diminished breathing**
- Arrythmia, hypotension
- **Diminished GI activity**
- Rhabdomyolysis, renal failure
- Impaired liver function
- Oedema of the brain, seizers, unconsciousness

First aid

- Stop action of the poison
- Monitor vital signs
- Ensure the poison for further examination
- **Transport to hospital**



Hypoxia

Edema of the brain

Renal failure

Liver failure

Swallowed poisons

Chemicals, drugs, corrosive substances

Signs History of ingestion Nausea, vomiting, abdominal pain Burning sensation in the face and extremities Seizures Impaired consciousness

First aid

To maintain open airways, breathing, circulation To identify the poison In a case of corrosive substances- cold milk or water Urgent removal to hospital

Medicines

- benzodiazepins, barbiturates

Signs

Fatique, difficult speech, diminished breathing Dizziness, nausea and vomiting, hypotension Hypothermia, impaired consciousness

First aid, management

Induce vomiting (fingers into the throat, salty water, ipeca) hypertonic solution of saline) Irrigation of the stomach Enema

Medicines - paracetamol

Signs Nausea, vomiting, abdominal pain Pale, sweating, redness of the skin Hypotension Haemolytic anemia, liver failure

First aid, management Induce vomiting (fingers into the throat, salty water, ipeca) hypertonic solution of saline) Irrigation of the stomach Drips with saline N- acetylcystein

Botulism

Toxins from Clostridium botulinum A, B, E in tinned meat or contaminated meal Signs After 18-36 hours weakness, head nerve palsy Feeling of dry mouth, disturbance of vision Nausea and vomiting, convulsion, diarrhoea Bulbar paralysis (dysarthria, dysphagia, diaphragma palsy)

First aid Induce vomiting, irrigation of stomach, CPR

Management Ventilation, antitoxin

Mushroom poisoning

Amanita phaloides

- amanitins: peptids causing liver failure
- phaloidins: peptids causing nausea, vomiting and diarrhoea

Signs After 6–12 hours sweating, watering from the eyes Salivation, miosis Abdominal pain, vomiting, convulsions, haemorhagic diarhoea Dizziness, oliguria, jaundice, coma

Mortality: 50 %

First aid Induce vomiting, irrigation of stomach, CPR

Inhalation of fumes

Carbon monooxiden - motor vehicles, chimney fumes, emissions from defective heaters

Carbon dioxide

- underground tanks, wells

Smoke

- fire smoke, may contain toxic fumes

Solvents and fuels

- cleaning fluids, glues, camping gas

Inhalation of fumes

Signs

Headache, confusion Nausea and vomiting, diarrhoea Caughing, difficult breathing Chest pain, cyanosis, pale or grey glue skin Tachycardia, flat and fast breathing, seizures Oedema of lungs Dizziness, desorientation Impaired consciousness Unconsciousness Carbon monooxide has higher affinity to haemoglobin than oxygen

It produces carbonylhaemoglobin CoHb

This leads to tissue hypoxia

First aid

Be careful to enter the place with fumesopen the door, open the window

Be careful not to breathe the fumes yourself

Remove the casualty from the place into fresh air

Encourage the casualty to breathe normally

Monitor vital signs

CPR

Animal bites

Sharp pointed teeth Damage of tissues, crush of tissues Bacterial infection Infection of rabies Infection of tetanus

First aid

Wash the wound thoroughly with warm water and soap Sterile dressing Send to hospital Tetanus immunisation, antirabies injections Surgical management

Insect sting

A sting from bee, wasp

Signs Pain at the site of the sting Redness and swelling In the mouth it can obstruct the airways

First aid In the mounth- ice cube to suck, cold water to sip To brush or scrape it off sideways Not to use tweezers To raise the affected part Cold compresses Risk of anaphylactic shock- adrenalin Medical advice

Tick bite

Ticks, scorpions, other spiders

Ticks suck the blood, carry diseases

First aid Use a tweezer Grasp as much as to the skin Gently pull out and rotate Remove completely

Do not use an oil or butter Allergic reaction Obstruction of airways Medical advice

Snake bite

Viper, adder, cobra In 20 % they are venomous

Signs A pair of puncture marks Sever pain, redness and swelling Nausea and vomiting Disturbed vision, colour vision Metal taste, anestesia around the mouth Sweating, weakness Bleeding from jaws, convulsions Haematuria, renal failure, disturbed breathing Shock

First aid

To prevent venom spreading Urgent removal to hospital

In a case quick transport: pressure bandage- extended up the limb immobilisation, elevation, sterile dressing Do not use tourniquet

In a case of a long journey to hospital: incision or to slash the wound with a knife or try to suck out the venom Sterile dressing