

FIRST AID AND TREATMENT OF INTOXICATIONS

EFFECTS OF CHEMICALS

- LOCAL

- corrosive effect

- GIT irritation - highly concentrated detergents – laundry liquitabs - repeated vomiting

- **SYSTEMIC** – functional (hypotensives, sedatives) or organic changes (liver, kidney necrosis)

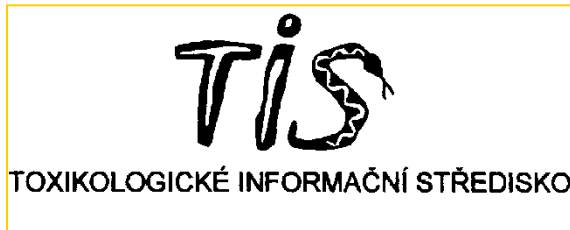
- BOTH CORROSIVE AND SYSTEMIC

- oxalic acid with hypocalcaemia,



Diagnosis:

- History
- Clinical signs and symptoms
- Toxicological analysis – as soon as possible
- qualitative – from gastric content, urine
- quantitative – plasma



- Toxicological Information Centre
- tel. +420 224 919293,
- +420 224915402

Severity depends

- on the characteristic of the **chemical**:
- **toxicity** of the chemical, natural toxin
- **dose**
- **time interval** of effect since entering the body

Previous **clinical status**:

- extent of organic changes
- extent of alteration of vital function

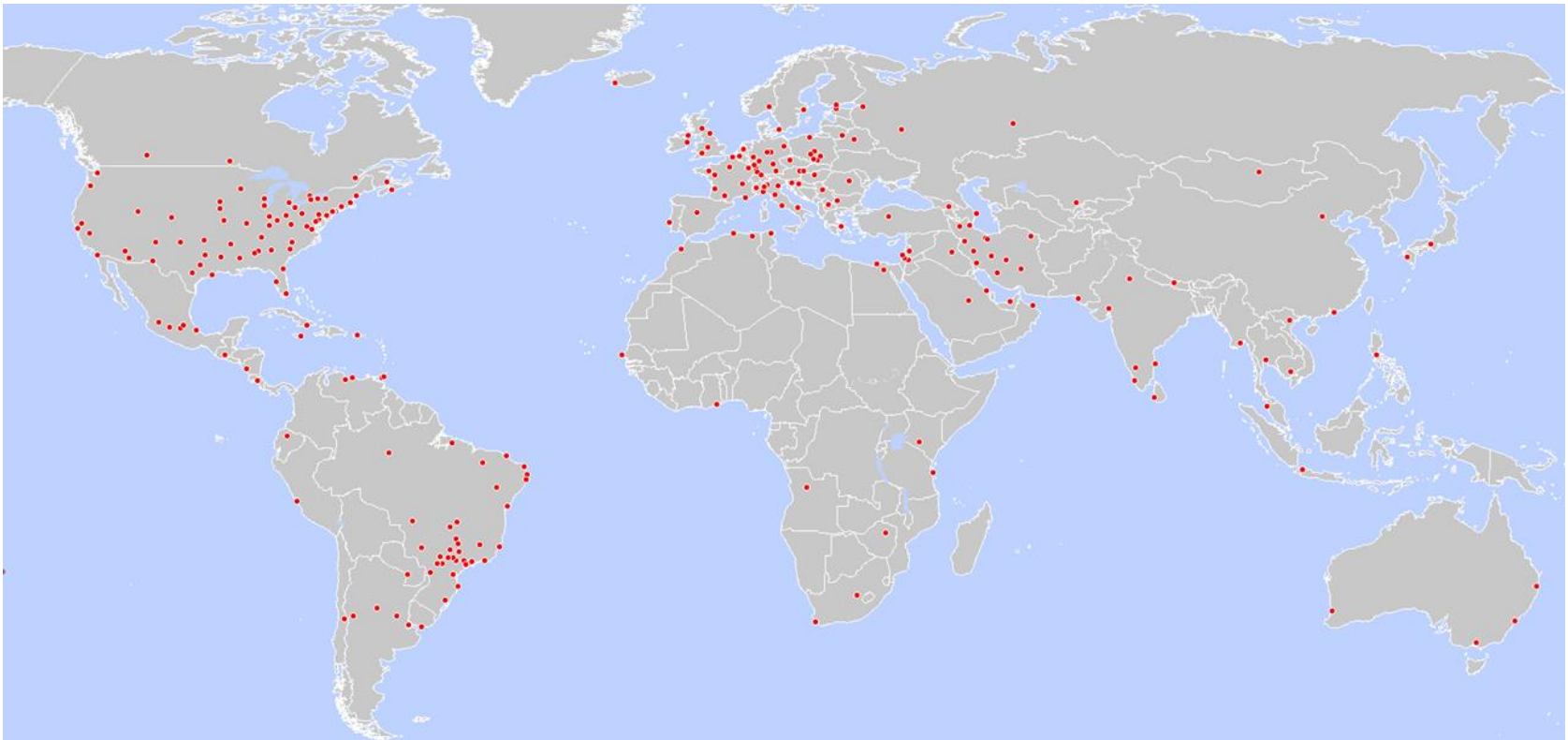


- **EAPCCT** www.eapcct.org
- **European Association of Poisons Centres and Clinical Toxicologists**
- The European Association of Poisons Centres and Clinical Toxicologists (EAPCCT)
- Founded in 1964 - goal - advancing knowledge and understanding of the diagnosis and treatment of all forms of poisoning.

WORLD DIRECTORY OF POISONS CENTRES

<http://apps.who.int/poisoncentres/>

- Click on your location in the **map below** to find information on poison centres in your area.



- information on chemicals, poisonings, and treatment
- internationally peer-reviewed guidelines concerning the prevention and clinical management of poisoning.

PRIMARY ELIMINATION- 1

- = removal of the chemical, not yet absorbed in blood

FROM THE BODY SURFACE – skin, mucosa

- with copious water or saline solution, in case of very toxic chemicals (organophosphates) or corrosives
with protective gloves, coat

FROM THE STOMACH and GIT UNTIL 1 HOUR usually

- Stomach emptying by
 - a. vomiting (mechanically induced, mild soap solution)
 - useful esp. in case of mushrooms, big tablets
 - b. gastric lavage

GASTRIC LAVAGE



Repeated gavage of 100-200 ml of water/saline and removal by gravitation or by syringe

PRIMARY ELIMINATION- 2

- First dose of universal antidote - activated charcoal –
- 1 g/kg body weight is given at the end of gastric lavage.
- **CONTRAINDICATION OF VOMITING AND GASTRIC LAVAGE:**
 - **ingestion of corrosives** (repeated damage of oesophagus), damage by gastric tube!
 - **petroleum distillates** (aspiration)
 - **detergents** (very low toxicity, aspiration of the foam)
 - **CNS depression** with impaired swallowing and coughing reflex, generalised seizures (possible with intubation)

Eye decontamination and corneal damage

With water or saline, asap! for 10-more minutes!

Then ophthalmological examination – usually with yellow dye **fluorescein** to detect defects in the cornea.

