



# Allergies and Poisoning For CHO/SN

































# ANAPHYLAXIS AND ACUTE SKIN RASH





















## INTRODUCTION

Condition where our body reacts to a foreign substance in the bodyinhaled/ ingested.

Symptoms :

- Serious allergic reaction- rapid in onset, death.
- Symptoms: minutes to hours
- An itchy rash
- Throat or tongue swelling
- Shortness of breath
- Vomiting, light-headedness
- Low blood pressure























### Some food (especially peanut, eggs, nuts & shell fish)

- Medication, such as antibiotics (especially penicillin & sulpha), aspirin & ibuprofen
- Insect stings or bites
- Physical stimuli, such as pressure, cold, heat, exercise or sun exposure.
- Blood transfusion
- Latex
- Bacterial infection, including UTI & streptococcal infection
- Viral infection, including common cold, infectious mononucleosis & hepatitis.
- Pet dander
- Pollen
- Some plants, such as poison oak & poison ivy

## TRIGGERS











## ANAPHYLAXIS













### **Signs and Symptoms-**

- Anaphylaxis- many different symptoms over minutes or hours with an average onset of 5 to 30 minutes if exposure is intravenous and 2 hours if from eating food.
- The most common areas affected include: skin (80–90%), respiratory (70%), gastrointestinal (30–45%), heart and vasculature (10–45%), and central nervous system (10–15%) with usually two or more being involved.



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### **Typical Symptoms**

- Generalized hives
- Itchiness
- Flushing
- Swelling (Angioedema)























## MANAGEMENT

### **First-Aid Treatment-**

- Administration of epinephrine (injection adrenaline (epinephrine) 1:1000 dilution intra muscular mid anterolateral thigh).
- Antihistamines and steroids (for example, dexamethasone) often used as adjuncts.
- Don't give intravenous because it needs further dilution of drug
- Anaphylaxis is a medical emergency





























## URTICARIA

- A skin rash triggered by a reaction to food, medicine or other irritants.
- Usually self-treatable, self-diagnosable, lab tests or early imaging required.
- Short term resolves within days to week
- Two types of urticaria:
  - Short lived acute
  - Long term chronic























## **CLINICAL FEATURES**

- Raised itchy bumps (red or skin-coloured)
- Blanching (when pressed, the center of a red hive turns white)
- Symptoms can last anywhere from minutes to months or even years.
- Hives can appear or any area of the body, may change shapes, move around, disappear & reappear over short period of time.
- The bump red or skin coloured 'Wheels' with clear edge usually appear suddenly and go away just as quickly.
- Blanching





















## **FIRST-AID TREATMENT**

- Avoid known trigger.
- Use antihistamines, steroids (injection Avil {Chlorpheniramine maleate} 25mg IV stat, injection Hydrocort 100mg IV stat).
- Oral antihistamines (Levocetrizine).
- Cold compresses or anti itch solutions to ease the symptoms.
- If breathless then in adrenaline (epinephrine) 1:1000 dilution IM
- If symptoms do not improve immediately shift to emergency higher centre.
- History taking























## POISONING











































## INTRODUCTION

- Harmful substances found either in natural environment chemicals
- When ingested/ inhaled in sufficient dosages, either accidentally or for suicidal purposes 📥 fatal
- Cause of death- loss of airway protective reflexes either caused by aspiration of gastric contents, respiratory distress or flaccid tongue
- All cases of poisoning presented before 
   should be assumed to
  have compromised airway



- Role of CHOs
  - Identification of poisoning
  - Provision of anti-dote
  - Stabilizing the victim
  - Facilitating referral



### or



















## **TYPES AND FIRST AID TREATMENT**





















## **ACID POISONING**

- Suicidal or homicidal or accidental
- Nitric, sulphuric, hydrochloric, carbolic, oxalic and acetic acid commonly seen in households as phenyl, floor cleaners etc.

### **Clinical Features:**

- Burns on or around the lips
- Burning in the mouth, throat and stomach often followed by heavy vomiting.
- Absence of ulcers or injuries in mouth or throat does not rule out corrosive poisoning
- Diarrhoea and intense thirst
- In severe cases, patient may be unconscious and have signs and symptoms of asphyxia, shock or seizure





















### TREATMENT

- General- Supportive
- Do Not use NG tube or try to remove contents from

stomach, as it may further cause more corrosive injury

Shift the casualty immediately to hospital



## emove contents from nore corrosive injury nospital



















## **ALKALI POISONING**

- Suicidal or accidental
- Ammonia, potassium hydroxide and sodium hydroxide, bleachers, detergents, washing soda.

### **Clinical Features:**

- Similar to acid poisoning
- Membrane of the mouth may be white and swollen
- Soapy appearance in the mouth
- Absence of ulcers or injuries in mouth or throat does not rule out corrosive poisoning.
- Abdominal pain, Vomiting may contain blood and mucous





















### TREATMENT

• **GENERAL:** SUPPORTIVE

### • SPECIFIC:

- 1. Do not induce vomiting.
- 2. Do not put nasogastric tube or try to remove contents from stomach, as it may further cause more corrosive injury.
- 3. Shift the patient immediately to hospital





















## DHATURA (SAFED DHATURA AND KALA DHATURA)

### **Clinical Features:**

- Bitter taste, dry mouth and throat
- Burning pain in the stomach
- Difficulty in swallowing and talking
- Giddiness, Ataxia, intoxication
- Dry hot skin, rise in body temperature
- Delirium- tries to run away from bed, picks up bed clothes, tries to pull imaginary threads from the tips at his fingers and develops dreadful hallucinations of sight and hearing, convulsions & coma.

**Treatment:** Same as above



















## ACONITE (MITHA ZAHAR, DUDHIA VISH)

### **Clinical Features:**

- Severe burning and tingling of lips, mouth, tongue and throat
- Dysphagia
- Salivation
- Vomiting
- Abdominal colic
- Vertigo
- Muscle spasm and twitching
- Impairment of vision

**Treatment:** Same as above























## **MUSHROOM**

### **Clinical Features:**

- Burning of throat and stomach.
- Pain in abdomen
- Vomiting and diarrhoea
- Urine may contain blood
- Cyanosis, rapid pulse, convulsions
- Headache, giddiness, cramps
- Visual disturbances
- Coma

**Treatment:** Same as above























## **METAL POISONING**

### LEAD

- Metallic taste in mouth
- Nausea and abdominal pain
- Vomiting
- Stools may be bloody dark in colour
- Headache, drowsiness, cramps, convulsions, numbress
- In chronic poisoning a blue line is seen on gums **Treatment :** Same as above

























## **METAL POISONING**

### MERCURY

- Metallic taste in mouth
- Burning pain in mouth and stomach
- Tongue and throat is corroded with grey white coating
- Nausea and vomiting
- Stools may be bloody dark in colour
- Headache, convulsions, numbress

**Treatment :** Same as above























## **ORGANIC CHEMICAL POISONING**

### DDT

- Nausea, vomiting, vertigo, tremors
- Convulsions
- Coma
- Respiratory failure



### **INSECTICIDES**

- Pain in abdomen
- Vomiting
- Tremors
- Ataxia
- Convulsions

















## **ORGANOPHOSPHORUS** COMPOUNDS

- Used as pesticides and insecticides in agriculture and homes • Very lethal, used in suicidal and homicidal purpose
- Characteristic smell
- Nausea and vomiting, pain in abdomen, diarrhoea
- Lacrimation, sweating and bronchial secretions
- Difficulty in breathing
- Blurring of vision
- Pin-pointed pupil
- Cramps
- Convulsions, coma







## CYANIDE











- Very lethal
- Used as inhalation or ingestion
- Headache, dizziness
- Nausea, hypotension
- Dyspnoea, drowsiness
- Convulsions, cyanosis
- Unconsciousness

- Foam in the mouth
- Respiratory failure
- Assess
- - immediately



• Characteristic smell of bitter almonds hemodynamic stability, resuscitation as indicated • **Treatment:** Shift the patient to hospital



















## ALCOHOL POISONING

- Smell of alcohol
  Rapie
- Vomiting, Convulsions
- Slurred speech and Incoordination
- Double vision and Visual impairment
   Tre
- Flushing of face

- Rapid pulseDilated pupils
- Shallow breathing
- Treatment: Shift the patient to hospital



















## MANAGEMENT

- OP poisoning, however common, is also extremely fatal and the principles of treatment include:
- Decontamination

### **Reversing the effect of OP**

- Any patient with significant Hypoxia (reduction in oxygen availability to body tissues), Bradycardia (resting heartbeat of below 60 Beats per Minute (BPM)) and/or Hypotension (Low blood pressure).
- Repeat Atropine every 5 minutes until secretions are minimal (Clear) lungs, heart rate > 80BPM, adequate Blood Pressure)
- Observe the victim. Refer if the victim's condition does not improve









सत्यमेव जयते

# **Thank You**















