

2/4/2010

QUICK HITS FOR INSERVICE- TOXICOLOGY
Rocky Mountain Poison and Drug Center
Medical Toxicology Fellowship

Below we have listed several common clinical presentations of poisoning

Case: Bradycardia, hypotension hyperglycemia after ingestion of a heart medication

Diagnosis- calcium channel toxicity

Treatment-calcium, vasopressors, glucagon, high dose insulin

Case: Bradycardia, PVCs, ventricular tachycardia and hyperkalemia after ingestion of a heart medication or plant.

Diagnosis: Digoxin, oleander

Treatment- Digibind

Case: Severe burning with minimal skin findings after using rust remover/glass etcher OR Hypocalcaemia, cardiac arrest after ingestion of a cleaning product

Diagnosis: Hydrofluoric acid

Treatment- Topical- calcium slurry, systemic- IV calcium

Case: Vomiting, diarrhea, seizure, pulmonary edema

Diagnosis: Cholinergic toxidrome- organophosphate or chemical weapons

Treatment- Atropine, benzodiazepines, pralidoxime

Case: Delirium, tremor, hyperreflexia, dehydrated exam in a psych patient

Diagnosis: Lithium toxicity

Treatment- IVF, dialysis

Case cyanosis after a GI procedure. ABG is 7.38 PaO₂=120 torr PaCO₂ 36

Diagnosis: methemoglobinemia from topical anesthetic

Treatment- Methylene blue

Case: profound coma and acidosis after being pulled from a fire.

Carboxyhemoglobin is 8% (or 30%)

Diagnosis- Cyanide poisoning

Treatment- cyanide kit (just thiosulfate if COHb is 30%) or hydroxocobalamine

Case extremity pain/burning and temperature reversal after attending a luau.

Diagnosis- ciguatera poisoning

Treatment- mannitol (questionable data) or TCA (more long term- not really from ED)

Case flushing, vomiting after eating fish

Diagnosis Scrobroid

2/4/2010

Treatment H1 blockers

Case vomiting 12 hours after eating foraged mushrooms. ALT is 8000 IU/L

Diagnosis- Amanita phalloides poisoning

Treatment- ? NAC, penicillin, liver transplant

Case recent migrant from SE Asia presents with seizures

Diagnosis- INH ingestion

Treatment- Pyridoxine

Found down with profound acidosis, renal failure

Dx- Ethylene glycol poisoning

Found down with profound acidosis, blindness

Dx= methanol poisonings

Treatment, Fomepizole/ethanol for level >25 and dialysis for acidosis/concentration>50 mg/dl

Overdose of antidepressant drugs or just added a new antidepressant with

Presents with delirium, tachycardia, tremor, fever, rigidity of legs

Dx- serotonin syndrome

Treatment- sedation, cooling, cyproheptadine