

IMPORTANT POINTS FROM FORENSIC “K”

Poison	Fatal Dose	Fatal Period	Antidote
Oxalic Acid	15-20g (crystallized)	1 hour (comatose), 5 days	Calcium preparations (chalk)
Carbolic Acid (Phenol)	20-40 drops	3-4 hours(3min/60hrs)	-
Phosphorus	60-120 mg	24 hours, 6-7 days	CusO4/K-Permanganate
Iodine	2g/8-10ml tincture	Rapid death/24hrs	None
Pure HCN	50-60 mg	2-10mins	Methylene blue(Methy thionine chloride)
Potassium Cyanide (KCN)	200 mg	30 minutes	Methylene blue(Methy thionine chloride)
Medicines Containing HCN	30 drops	-	Methylene blue(Methy thionine chloride)
CuSO4 (Verdigris)	30 g	12-24 hours, 3-5 days	BAL + EDTA, Penicillamine
ZnSO4	15 g	2hrs(90g)/5days(15g)	None
ZnCl2	400 mg	Few hours to few weeks	None
Zn-Phosphide	5 g	Few hours to 24 hours	None
Thallium Acetate (Sulphate)	1 g	2 days to 2 weeks	None
Lead Acetate	20 g	2-3 days	Penicillamine/Ca-Versenate(EDTA)
Lead Carbonate	4 g	2-3 days	Penicillamine/Ca-Versenate(EDTA)
Tetraethyl Lead	1-2 drops	2-3 days	Penicillamine/Ca-Versenate(EDTA)
Arsenic (As2O3)	120-200 mg	2-3hrs(narcosis),12-48hrs (GI C/F),7-10days(subacute poisoning),few weeks(chronic)	Fresh ppt. of hydrated ferric oxide
Absorbed Lead	0.5gm	2-3days	Penicillamine/Ca-Versenate(EDTA)
(HCN)Bitter crude almond oil	60 drops	---	Methylene blue(Methy thionine chloride)
Hg (Mercuric chloride)	1-2gm	Few hrs/3-5 days	BAL/Cuprimines (Penicillamines)

VEGETABLE AND ANIMAL POISONS

Poison	Fatal Dose	Fatal Period	Antidote
Castor oil plant (Ricinous Communis)	10 seeds/6mg	few days	Is :Ricin
Jamalgota/Nepala(Croton Tiglium)	4 seeds/20 drops	4-6hours/3-6 days	Crotin (Toxalbumin) Crotonoside (less toxic)
Jequirity bean/ Crab's eye Rosary pea (<i>Abrus precatorius</i>)	1-2seeds/90-120abrin	3-5 days	Abrin
Ergot (from <i>Claviceps pupurea</i>)	1gm	24hrs/few days	Ergotoxin,Ergotamine & Ergometrine
Bitter apple/Cotocynth (<i>Citrullus Colocynthis</i>)	1-2 gm	24hrs/few days	Colocynthin
Chilli/Lal mirch (<i>Capsicum</i>)	-	-	Capsaicin,Capsicin
Marking nut/ Bhilawan (<i>Semecarpus Anacardium</i>)	5-10gm	12-24hrs	Semecarpol,Bhilawanot
Calotropis (<i>Calotropis procera</i> & <i>Gigantea</i>)	uncertain	Approx..12hours	Calactin,Calotoxin,Calotropin,Uscharin,Gigantin
Chitra & Lal chitra (<i>Plumbago Zeylanica</i> & <i>Rosea</i>)	uncertain	uncertain	Plumbagin
Spanish fly/Blister beetle (<i>Canthris Vesicatoria</i>)	1.5gm (powder),10mg cantharidin,1 ounce tincture	24hr-1 week	Cantharidin
Scorpion	-	24-48 hrs/upto 1 week	Toxalbumin

NOTE

- Procera= white
- Gigantea =purple
- All vegetable posions

Vesication and pustulations externally & GI symptoms internally

Death from exhaustion

TOXIC AGENTS

Toxic Agent	Details	C/F's
Ricinus Communis (castor oil)	Non-toxic	Salivation,painful & cupious vomiting
Citrullus Colocynthis		Yellow vomit & yellow watery stool
Croton Tiglium	Used as an "Arrow poison"	Burning pain at anus
Abrus Precatorius	"Arrow poison",used by malingers-→conjunctivitis & cattle poison(Sui)	Mimics viperine snake poisoning
Ergot	• Abortion • Convulsive ergotism • Gangrenous ergotism	
Capsicum	• Seeds like dhatura • Used in robbery attacks , extort money & to make confession of any guilt	
Calotropis	• Arrow poison • Causes artificial bruises & used as an infanticide	• Dilated pupils • Permanent vision impairment
Plumbago	• Artificial bruising • Abortifacient	Like calotropis
Spanish Fly	• Used in blister plasters • Wings-→ resist putrefaction	• Priapism • Abortion • Stragury(painful frequent hematuria) • Intense urinary & GI inflammation
Scorpion	• Tx--→specific Anti venom • Toxalbumin (Neurotoxic),Cardiotoxic (red scorpion),hemotoxic • Less toxic than snake but injects less dose than snake	• Dilated pupils • Priapism • Premature ventricular contractions
Marking Nut	• Used by washermen(Dhobi) • Abortifacient • Applied to genitals in adultery punishment • Causes artificial bruising - →false charge Used by Navy,Army or Jail intimates to avoid work-- →Conjunctivitis	•

IMPORTANT POINTS

Salivation↑	Mercury, Scorpion, Castor oil plant (Rcinus)
Arrow poison	Croton T, Abrus P, Calotropis, Cusane
Overdistention injury of stomach	Linear & follow lesser curvature #contusions/trauma
Injury to stomach	Multiple ruptures at right angles to lesser curvature
Weak/Diseased viscera	Easy to rupture even on a minor blow esp. spleen (ruptures spontaneously)
MC site of small intestinal injury	Jejunum at anti-mesenteric border → torn mesentery
MC site of liver injury	Right lobe --→ Convex surface, inferior border
Splenic rupture	Profuse bleeding MC Site= Inner concave border
Priapism is caused by	Phosphorus, Scorpion, Spanish Fly

Section 326 A & B	Punishment (5-7yr old) + Fine for vitriolage
Section 328 IPC	Concerned → poisons



TMM KP-MBBS B-26 MCQS

Discussion

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Description

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Disappearing messages

Off

IMPORTANT POISONS

Poison	Characteristics
Oxalic Acid	- Coffee ground vomit - used to erase writing in forgery attempts
Phenol / (Carbolic Acid)	No Vomiting, pinpoint pupils, mistaken for opium, forms eschars
HCN (Cyanogen/prussic Acid) (cause of Hetler's suicide)	- Cherry red-pink postmortem lividity - Used for judicial execution
Phosphorus	- Liver necrobiosis - Luminous vomit/feces, garlic odor, slow healing burns. Acidic urine and phossy jaw (osteomolitis) starts from already carious (decayed) teeth
Iodine	- Brown urine - Brown/yellow/blue vomit/feces - Strong sol. → vitriolage - Tincture → makes water potable + is chemical antidote for oxidizable poisons
Arsenic (Rigor mortis is longer, persists putrefaction)	- Slow poison, acute → Rice water stool like cholera, rainlike pigmentation (like Addison's dx) - Red velvet stomach - Mee's line on nails, combine-SH group
Organic arsenamines	- Arsenic encephalopathy + (conc. in liver) - Nitritoid crisis (anaphylaxis)
Lead (a chronic poison)	- Facial pallor (earliest sign of chronic poisoning) - Sterility - Dry belly ache (constipation) >200 punctate basophilia/cmm of RBCs - Lead line on gums - Paralysis of wrist & foot drop & 500ug/day porphyrins

TMM FORENSIC MEDICINE BLOCK K RAPID FIRE

	- in urine • Opaque liver on X-ray
Mercury	• Salivation ↑ • Grayish escharotic tongue, • Erithism • (Hatter's shake)
Copper (CuSO ₄ : Antidote of phosphorus)	• Wilson's dx • Bronzed diabetics & hemochromatosis • Green line on gums & brown liquid stool (not bloody)
Thallium	• Ideal homicide poison • Triad: a) Alopecia (head = LAT.2/3 eyebrows) & rash b) Confusion & lethargy c) Painful peripheral neuropathy • X-ray : Opaque liver • Ganglion cells → Swelling + chromatolysis + degeneration
Zinc Compounds	• Zinc chloride: corrosive • Zinc sulphate: Irritant, mistaken for Epsom salt • Zinc phosphide: gives phosphine gas & garlic odour + taste, liver necrobiosis
Metal Fume /Monday Fever	• Fever & chills • Myalgia • Salivation • Sweating • SOB • H.R ↑ & Cyanosis -- → resolves after 36hr -- → no fever at weekend -- → appear back on Monday (re-exposure) • Seen in - → Zn, Mercury, Magnesium, Manganese, Cadmium, Chromium & Cobalt

FOR WHATSAP GROUPS CONTACT ANY MEMBER OF TMM GROUP TO ADD U