

Toxicology

Poisons and Their Antidotes

Poisoning	Antidotes
	Industrial Chemicals
① Lead	Dlmercaptol (BAL) ; D-Penicillamine ; Calcium Disodium Edetate
② Mercury	BAL ; D-Penicillamine ; Dimercaptosuccinic acid (DMSA)
③ Arsenic	BAL ; D-Penicillamine
④ Methyl Alcohol	Ethanol ; Folic acid / Folinic acid (Leucovorin)
⑤ Ethylene Glycol	Ethanol ; Folic acid ; Thiamine ; Pyridoxin Hydrochloride
⑥ Cyanide	<u>Amyl nitrite ; Sodium Nitrite ; Sodium thiosulfate ;</u> Cyanide Antidote kit ; Hydroxocobalamin ; Dicobalt edetate
⑦ Methemoglobinemia producing agents [Nitrites, nitrates, dapsone, copper, aniline, chlorates, Naphthalene]	Methylene blue
	Drugs
① Acetaminophen	N-Acetylcysteine
② Iron	Deferoxamine ; Deferiprone
③ Benzodiazepines	Flumazenil
④ Opioids	Naloxone
⑤ Isoniazid	Pyridoxine
⑥ Digoxin	Digoxin specific Antidote

Poisoning	Antidotes
Environmental	Toxins
① Datura	Physostigmine
② Snake bite	Antisnake venom
③ Dog bite	Anti rabies vaccine
④ Botulism	Botulism antitoxin
Agricultural	Pesticides
① Organophosphates	
→ Malathion	
→ Acephate	
→ Dichlorvos	Atropine sulfate ;
→ Dimethoate	Pralidoxime
→ Fenitrothion	
→ Monocrotophos	
→ Phorate	
→ Quinalphos	
② Carbamates	
→ Propoxur	Atropin sulfate ;
→ Aldicarb	Pralidoxime
→ Carbaryl	
→ Carbofuran	
→ Carb Methomyl	
③ Organochlorines	
→ Endosulfan	
→ Gamma BHC	cholestyramine
→ Heptachlor	
→ Chlordane	
④ Rodenticides	
→ Bromadiolone	Vitamin K ₁

Poisoning	Antidotes	
	Metal	Toxicity
① Bismuth		Dimercaprol
② Copper		Dimercaprol ; Penicillamine ; Trientine
③ Thallium		Prussian blue

Other Poisons		
① Botulism toxin		Botulism Antitoxin
② Carbon tetrachloride		N-Acetylcysteine
③ Formaldehyde		Folic acid
④ Bromates , chlorates		Sodium thiosulphate ; Methylene Blue
⑤ Carbon Monoxide		