



ANTIDOTE CHART

This poster is not intended for individual patient care. If you are caring for a known or suspected poisoned patient, contact your regional poison center for patient-specific recommendations



Antidote	Indication	Stocking Recommendations (100 kg patient)		Notes
		8 hours	24 hours	
Acetylcysteine (intravenous)	Acetaminophen toxicity	22 grams	30 grams	Administer intravenously (IV) for hepatic failure
Acetylcysteine (oral)		28 grams	56 grams	
Antivenin (Latrodectus mactans)	Black widow spider envenomation	1 vial	1 vial	Production discontinued by manufacturer; some limited supply remains
Atropine sulfate	Organophosphate/carbamate pesticide and nerve agent toxicity	45 mg	165 mg	
Calcium chloride ^{a,b}	Fluoride, calcium channel blocker toxicity	10 grams	10 grams	Administer by central venous route if possible
Calcium gluconate ^{a,b}		30 grams	30 grams	May be given by IV, subcutaneous routes
Calcium disodium EDTA	Lead toxicity	0.75 grams	2.25 grams	
Calcium trisodium pentetate (calcium DTPA)	Internal contamination with plutonium, americium, or curium	1 gram	1 gram	
Crotalidae Polyvalent Immune Fab (ovine) (CroFab [®])	North American crotaline snake envenomation	12 vials	18 vials	
Cyproheptadine ^b	Serotonin toxicity	20 mg	36 mg	
Dantrolene ^b	Malignant hyperthermia	800 mg	2,000 mg	Make available where general anesthesia is performed
Deferoxamine mesylate	Iron toxicity	12 grams	36 grams	
Dextrose (D50)	Hypoglycemia	250 grams	250 grams	D50 as initial treatment, may follow with lower concentrations
Digoxin immune Fab	Cardiac glycoside toxicity	15 vials	15 vials	
Dimercaprol (BAL)	Heavy metal toxicity (arsenic, lead, mercury)	800 mg	2.4 grams	
DMSA (succimer)		1 gram	3 grams	
Ethanol (IV or PO) ^b	Methanol or ethylene glycol toxicity	180 grams	360 grams	
Fomepizole*		1.5 grams	4.5 grams	
Flumazenil	Benzodiazepine toxicity	6 mg	12 mg	
Glucagon hydrochloride ^b	B-Blocker, calcium channel blocker toxicity	90 mg	250 mg	
Glucarpidase ^a	Methotrexate toxicity	5,000 units	5,000 units	Do not administer until ≥ 2 hours after leucovorin
Hydroxocobalamin*	Cyanide toxicity	10 grams	10 grams	Safe in patients with smoke inhalation May cause laboratory test interference and technologic dysfunction of dialyzers May cause red discoloration of skin/urine
Sodium nitrite		600 mg	600 mg	Nitrites should not be used in smoke inhalation patients with carbon monoxide poisoning
Sodium thiosulfate ^a		25 mg	25 mg	
Idarucizumab	Reversal of anticoagulant effects of dabigatran	5 grams	5 grams	
Leucovorin ^a	Methotrexate or methanol toxicity	300 mg	1 gram	
Levocarnitine ^b	Valproic acid toxicity	9 grams	15 grams	Administer IV for acute toxicity
Lipid emulsion (IV) ^b	Local anesthetic systemic toxicity	1,250 mL	1,250 mL	Recommendations based on products containing an emulsion of soybean oil, egg phospholipids, and glycerin
Methylene blue	Methemoglobinemia	400 mg	600 mg	
Naloxone hydrochloride	Opioid toxicity	20 mg	40 mg	
Octreotide ^b	Sulfonylurea-induced hypoglycemia	75 µg	225 µg	
Physostigmine	Anticholinergic syndrome	4 mg	4 mg	
Phytonadione (vitamin K ₁)	Reversal of coagulopathy induced by Vitamin K antagonists	50 mg	100 mg	Initial dose should be administered IV (not to exceed 10 mg), with subsequent doses administered PO Patients presenting with elevated INR and bleeding should also be treated with prothrombin complex concentrate (PCC)
Potassium iodide	Thyroid radioiodine protection	130 mg	130 mg	
Pralidoxime chloride	Organophosphate and nerve agent toxicity	7 grams	18 grams	
Protamine sulfate	Reversal of coagulopathy induced by unfractionated or low-molecular-weight heparins	400 mg	1.2 grams	
3-factor PCC ^b or 4-factor* PCC	Reversal of acquired coagulation factor deficiency induced by vitamin K antagonists	5,000 IU	5,000 IU	Vitamin K ₁ 10 mg IV should be administered concurrently
Activated PCC ^b		N/A	N/A	
Prussian blue	Thallium or Cesium toxicity	12.5 grams	25 grams	
Pyridoxine hydrochloride	Isoniazid, hydrazine toxicity	8 grams	24 grams	
Sodium bicarbonate ^b	Tricyclic antidepressant toxicity, urine alkalization for salicylate toxicity, cocaine toxicity	63 grams	84 grams	
Thiamine	Ethylene glycol toxicity, thiamine deficiency associated with chronic alcoholism	500 mg	1.5 grams	
Uridine triacetate	Fluorouracil or capecitabine overdose regardless of symptoms, early-onset fluorouracil or capecitabine toxicity	20 grams	40 grams	

EDTA- ethylenediamine tetra-acetate, DTPA- diethylene triamine penta-acetic acid, BAL- British Anti-Lewisite, DMSA- dimercaptosuccinic acid

^aBoth agents should be stocked, ^bOff-label use of medication, * Preferred agent

Recommendations adapted from: Dart RC et al. Expert Consensus Guidelines for Stocking of Antidotes in Hospital that Provide Emergency Care. *Ann Emerg Med.* 2017
The above recommendations are based on expert consensus, hazard vulnerability assessments should be performed for each health care facility individually

