			Iron		
Pathophysiology		Direct caustic effect on GI mucosa → hemorrhagic necrosis; multisystem toxicity 2/2 mitochondrial poison; iron absorbed at duodenum/jejunum			
Symptoms	<u>lf</u>	If no significant GI symptoms w/i first 6 hrs after overdose, very low likelihood of significant toxic			
		Phase I (30min – 6h)	GI sx: vomiting, diarrhea, GI bleeding		
		Phase II (6h - 24h)	Latent period: apparent improvement		
		Phase III (4h-4days)	<b>Hepatotoxicity</b> : hepatocellular injury, AG metabolic acidosis (↑ lactic acid), coma, seizures, multi-organ failure, shock		
			<b>Labs</b> : ↑ bili, ↑ LFTs, ↑ glucose, ↑ PT/INR, ↑ BUN		
		Phase IV (2-8 wks)	Late effects: possible bowel obstruction		
Evaluation	K	KUB (radio-opaque pills), Fe level, VBG/ABG, lytes, BUN/Cr, glucose, LFTs, PT/INR, CB			
Management	Support ABC's, replace fluid/blood losses, GI decontamination, IV deferoxamine (severe sx, iron level > 500 mcg/d w/ clinical symptoms, sig AG met acidosis)				

Lead*			
Toxic Dose	No safe lead level exists		
Pathophysiology	Interferes w/ interactions of divalent cations and sulfhydryl groups leading to widespread physiologic effects and clinical toxicity.		
Symptoms	Lower levels: Abdominal pain, constipation, anorexia, vomiting, dev delays, aggression, hyperactivity     Higher levels: drowsiness, clumsiness, ataxia     Severe levels: decreased consciousness, coma, seizures, death (usually 2/2 cerebral edema)		
Evaluation	Lead levels, CBC (microcytic anemia + basophilic stippling of RBC), FEP (free erythrocyte protoporphyrin), BUN/Cr, AST/ALT, x-ray (radio-opaque flecks)		
Management	Prevention is key: screening and lead levels at WCC (9-12 mo, 2 years) Gastric decontamination: whole bowel irrigation Chelation therapy (depending on lead levels) See: <a href="https://www.cdc.gov/nceh/lead/acclpp/actions">https://www.cdc.gov/nceh/lead/acclpp/actions</a> blls.html Seminal Article: CDC. Managing elevated blood lead levels among young children: Recommendations from the Advisory Committee on Childhood Lead Poisoning Prevention, Atlanta: CDC; 2002 BCH has a separate Environmental Health clinic and service that can assist w/ management		

Drugs of Abuse			
Ethanol			
Hx/PE	Euphoria, loss of coordination, ataxia, slurred speech, nystagmus, nausea, vomiting, hypoglycemia (especially in young children), seizures, coma, respiratory depression		
Dx	Blood ethanol level, D-stick		
Management	Supportive; secure airway if unresponsive, no gag reflex		

Drugs of Abuse continued on next page  $\,\rightarrow\,$