

H-R4 OTHER COMMON SUBSTANCES		
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NOTE: Poison Control may be contacted [1-800-222-1222] for **INFORMATION ONLY**. Treatment modalities must utilize these guidelines, or may be received through online Medical Control.

Other Common Substances		
Substance	Notes	Treatment (beyond typical supportive care)
Acetaminophen (Tylenol) <i>N</i> -acetyl- <i>p</i> -aminophenol Paracetamol	<ul style="list-style-type: none"> Acute overdose = <u>asymptomatic</u> to minimal GI effects Days 2 to 3 (stage 2) = may have clinical signs of hepatotoxicity (RUQ pain and worsening GI sx's) May progress over several days to fulminant hepatic failure 	ED Treatment: N-Acetylcysteine (NAC)
Alcohols <i>Ethanol</i> <i>Ethylene Glycol</i> <i>Isopropyl Alcohol</i> <i>Methanol</i>	<ul style="list-style-type: none"> Symptoms: all alcohols primarily cause CNS Depression (inebriation) Isopropyl Alcohol (rubbing alcohol) <ul style="list-style-type: none"> Twice as potent & duration of action is 2-4 times that of ethanol Gastric irritation/GI bleeding more common (hemorrhagic gastritis) No significant metabolic acidosis Methanol & Ethylene Glycol <ul style="list-style-type: none"> Liver metabolizes to substances (formic acid & glycolic acid/oxalic acid, respectively) that cause serious metabolic acidosis and end-organ damage <i>Methanol</i>: windshield wiper fluid, solid fuel for stoves/chafing dishes, model airplane fuel, carburetor cleaner, solvents, etc. <i>Ethylene glycol</i>: many uses as a glycerin substitute, antifreeze, brake fluid, etc. 	ED treatment: Fomepizole <ul style="list-style-type: none"> Used to inhibit the metabolism of ethylene glycol and methanol to their toxic metabolites
Anticholinergics <u>Antihistamines</u> <i>Cetirizine (Zyrtec)</i>	<ul style="list-style-type: none"> Present in over 600 compounds, including prescription drugs, over-the-counter medications, and plants Antihistamine (particularly 	

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<p><i>Chlorpheniramine (Chlor-Trimeton)</i> <i>Cyproheptadine (Periactin)</i> <i>Desloratadine (Clarinex)</i> <i>Diphenhydramine (Benadryl)</i> <i>Dimenhydrinate (Dramamine)</i> <i>Disodium Cromoglycate (Intal)</i> <i>Fexofenadine (Allegra)</i> <i>Hydroxyzine (Atarax)</i> <i>Levocetirizine (Xyzal)</i> <i>Loratadine (Claritin)</i> <i>Promethazine (Phenergan)</i> <i>Tripelennamine</i></p> <p><u>Other Medications</u> <i>Atropine</i> <i>Benztropine (Cogentin)</i> <i>Cyclobenzaprine (Flexeril)</i> <i>Glycopyrrolate</i> <i>Hyoscyamine (Levsin)</i> <i>Ipratropium (Atrovent)</i> <i>Scopolamine</i> <i>...and many other Antidepressants, Antipsychotics, Anti-Parkinsonian or similar neurologic medications</i></p> <p><i>Also see "Poisonous Plants" [H-RXXXX] for more</i></p>	<p>diphenhydramine/Benadryl) overdose is the most common overdose that produces anticholinergic toxicity</p> <ul style="list-style-type: none"> ● Symptoms (<u>Anticholinergic toxidrome</u>): <ul style="list-style-type: none"> ○ "Dry as a bone" (anhidrosis/no sweating and dry mouth/mucous membranes) ○ "Red as a beet" (flushed) ○ "Hot as a hare" (hyperthermia) ○ "Blind as a bat" (mydriasis/blurry vision) ○ "Mad as a hatter" (delirium/hallucinations) ○ "Stuffed as a pipe" (urinary/fecal retention) ○ "Tacky as an ugly sweater" (tachycardia) 	
<p>Antimicrobials <i>Various Antibiotics</i> <i>Various Antifungals</i> <i>Various Antivirals</i></p>	<ul style="list-style-type: none"> ● Symptoms: <ul style="list-style-type: none"> ○ Generally mild to moderate GI upset ○ Seizures/CNS effects possible in high doses 	
<p>Methylxanthines</p>	<ul style="list-style-type: none"> ● Mechanism = induces the release of 	<p>Switch to Decaf</p>

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<p><i>Caffeine</i> <i>Doxofylline</i> <i>Pentoxifylline</i> <i>Theobromine (chocolate)</i> <i>Theophylline</i></p>	<p>endogenous catecholamines → CNS stimulation</p> <ul style="list-style-type: none"> ● Sympathomimetic toxidrome: seizures, tachycardia, vasodilation, diaphoresis, etc. <ul style="list-style-type: none"> ○ Mild sx's = GI (nausea and vomiting) ○ Severe sx's = CNS excitation (seizures) ● Theophylline and its water-soluble salt, aminophylline, were used in the past for asthma and COPD 	
<p>Nicotine & Nicotine-like toxins <i>Tobacco</i> See "Poisonous Plants" [H-RXXXX] for more</p>	<ul style="list-style-type: none"> ● Children who ingest ≥1 intact cigarettes, or ≥3 cigarette butts will generally become symptomatic within 30 minutes ● Mechanism: overstimulation of nicotinic cholinergic receptors <ul style="list-style-type: none"> ○ Mild = nervousness and tremor ○ Severe = paralysis/respiratory failure ● Mild sx's = GI (most common), tremor, dizziness, tachycardia, and bronchorrhea ● Severe ingestions can result in seizures, respiratory failure, hypotension, dysrhythmias, and death <ul style="list-style-type: none"> ○ Generally seen with ingestion of nicotine-containing pesticides, nicotine-containing E-cigarette liquid, or abuse of dermal patches/gum 	
<p>Nonsteroidal anti-inflammatory drugs (NSAIDs) <i>Celecoxib (Celebrex)</i> <i>Diclofenac (Voltaren)</i> <i>Etorolac</i> <i>Fenoprofen</i> <i>Flurbiprofen</i> <i>Ibuprofen (Indocin)</i> <i>Indomethacin (Motrin)</i></p>	<ul style="list-style-type: none"> ● Rarely produces serious complications ● Symptoms = gastric irritation (nausea, vomiting, potential GI bleeding, etc.) ● In <i>massive</i> NSAID ingestions, metabolic acidosis with altered mental status and cardiovascular dysfunction (shock) may occur 	

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<p><i>Ketoprofen</i> <i>Ketorolac (Toradol)</i> <i>Meclofenamate</i> <i>Meloxicam (Mobic)</i> <i>Mefenamic acid</i> <i>Nabumetone</i> <i>Naproxen (Aleve)</i> <i>Oxaprozin</i> <i>Piroxicam</i> <i>Sulindac</i> <i>Tolmetin</i></p>		
<p>Salicylates <i>Aspirin (acetylsalicylic acid)</i> <i>Wintergreen Oil (methyl salicylate)</i></p>	<ul style="list-style-type: none"> • Numerous forms of salicylate are available as karyolytic agents, liniments, and combination products. All are rapidly converted to salicylate once ingested. • Causes a metabolic acidosis with a respiratory alkalosis • Mild symptoms = GI irritation (nausea/vomiting) • Serious toxicity → worsening acidosis & CNS dysfunction (altered mental status, seizures, coma, etc.) • Hearing loss or tinnitus are relatively pathognomonic 	<p>Sodium Bicarbonate 1-2 mEq/kg</p> <ul style="list-style-type: none"> • Systemic and urinary alkalization are beneficial, although the precise mechanism is debated