

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.

Vitamins

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- No specific treatments
- Water-soluble vitamins (B's, C and folate) are generally very safe in overdose and usually cause minimal, if any, symptoms. Any unneeded (extra) water-soluble vitamins are excreted in the urine.
- Fat-soluble vitamins (A, D, E and K) accumulate in the body and typically cause subacute/chronic symptoms from continued overuse.

Substance	Notes
Vitamin A	 Acute: red peeling rash (desquamation), headache, vomiting. Chronic: blurred vision, dry skin/pruritus/abnormal pigmentation, hair loss, bone pain, liver toxicity, pseudotumor cerebri (increased ICP)
VitaminB1 (thiamine)	No toxicity observed
Vitamin B2 (riboflavin)	No toxicity observed
Vitamin B3 (niacin)	 Acute: "niacin flush" (redness, burning, and itching of the skin) Chronic: liver dysfunction
Vitamin B6 (pyridoxine)	Subacute/chronic: peripheral neuropathy with unstable gait (ataxia), and loss of position and vibration sense
Vitamin B12 (cyanocobalamin)	 Ingestion: no toxicity observed Large IV doses: erythema of skin; rare anaphylactoid reactions
Vitamin C (ascorbate)	Chronic: kidney stones (controversial)
Vitamin D	Subacute/chronic: hypercalcemia (weakness, bone pain, abdominal pain/nausea/constipation/anorexia, confusion)
Vitamin E	Chronic: easy bruising/bleeding, nausea, headache, weakness/fatigue
Folate	No toxicity observed
Vitamin K	 Acute: anaphylactoid reactions if given rapidly in the IV form Interferes with warfarin resulting in subtherapeutic coagulation (i.e. treatment for warfarin overdose/hypercoagulable state)

REF: VITAMINS/HERBAL SUPPLEMENTS



Herbal Supplements

- Symptoms:
 - o All may cause some degree of GI irritation, especially in acute overdose
 - Many cause neurologic (weakness/fatigue, headache, dizziness, etc.) or psychogenic symptoms (often abused for this purpose)
 - o Some agents have specific liver, kidney, and cardiovascular toxicities
- No specific treatments
- <u>Generally safe</u>: Chamomile, Chondroitin, Echinacea, Feverfew, Garlic, Ginkgo, Ginseng, Glucosamine, Kava, St. John's wort and Valerian
- Some herbal preparations cause direct toxicity, but illness is **much more common from the** contamination, misuse, overuse, or misidentification of the herbal preparation.

(Some) Potential Toxic Herbals

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Substance	Notes
Black Cohosh Actaea racemosa; Cimicifuga racemosa; baneberry, black snakeroot, bugwort, rattleweed, squawroot	CNS disturbances; bradycardia
Chaparral (Creosote bush) Larrea divaricata	Hepatotoxic and nephrotoxic
Clove Oil	Hepatotoxic
Comfrey Symphytum officinale; black root, blackwort, bruisewort, knitbone, salsify, slippery root, wallwort	HepatotoxicVeno-occlusive disease
Ephedra Desert herb, herbal ecstasy, ma huang, popotillo, sea grape, yellow horse	 Sympathomimetic → hypertension, tachycardia, hyperthermia (especially with exertion)
Juniper Juniperus communis	HallucinogenicMay cause GI symptoms or renal toxicity
Nutmeg	Hallucinations; tachycardia
Wormwood Absinthe	 CNS: delirium (similar to alcohol intoxication), hallucinations, seizures, etc.