

Table of Common Herbs and Supplements

COMMON NAME OF HERB/ BIOLOGICAL NAME OF HERB	DESIRABLE MEDICINAL ACTIONS OF HERB	CONTRAINdications AND RISKS (Adverse Drug Reactions or ADRs) OF HERB	USUAL DOSING OF HERB
Acai (ah-sigh-EE) ♦ Berry from South and Central America	Anti-cancer Anti-oxidant Anti-inflammatory No scientific studies done on use for medical conditions	Allergic to acai or plants in palm family May affect MRI results ADRs: Hypertension GI bleeding Ulcers	Juice, capsule, powder, tablets Widely used, no specific dosing
Aloe Vera “burn plant” “lily of the desert” ♦ Leaves contain a clear gel that can be used topically ♦ Green part of leaf that surrounds gel produces juice or dried substance (latex) that can be taken orally ♦ Used back 6000 years to Egyptian times	Scientific studies show benefit for topical gel healing burns and abrasions; however, may not work for deep surgical wounds or radiation wounds Laxative affect taken orally Inactivates HSV2 virus Bacteriostatic properties Contains sterols with anti-inflammatory properties	*Toxicology study of oral whole leaf extract found risk of carcinogenicity in lab animals *Topical aloe has no known side effects ADRs with oral aloe: Lowers blood sugar by stimulating insulin Diarrhea/abd.cramps Arrhythmia from hypokalemia Contact dermatitis, stinging, soreness Acute hepatitis, renal failure, nephritis Abortifacient, may ↑ uterine bleeding Avoid in pregnancy and lactation Avoid perioperatively; has caused bleeding	Topical aloe only Use of oral aloe not recommended due to safety concerns Use of IM and IV aloe have been associated with death Avoid if hx of allergies to any member of Liliaceae family (tulips, lilies, hyacinths, onions, asparagus, and garlic)
Ashwaganda “withania somnifera”	Uses: Adaptogen Anti-arthritis Anti-aging Type 2 Diabetes Mellitus Hyperlipidemia Parkinson’s disease	* Do not use in pregnancy: has been used as abortifacient ADRs: ↓ bp ↓ bs ↑ WBC↑ platelets ↓ testosterone/FSH levels DRUG INTERACTIONS: Alcohol, sedatives, anxiolytics ↑ sedation Avoid with diuretics-↑ effects Anticoagulants ↑ bleeding Antidiabetic agents ↑ hypoglycemia Antihypertensives ↑ hypotension Thyroid hormones-alter effect	In capsules, tablets, tea Tablets are standardized Dose: 1-6 g in capsule or tea qd Or 3-12 g in combination with other herbs Pediatric dosage: (8-12 years only) 2g qd for no >60 days

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Asian Ginseng “Korean ginseng” “Chinese ginseng” Note: Siberian ginseng is not ginseng at all	Uses: adaptogen, stamina, mental and physical performance Hepatitis C Menopause Erectile dysfunction Hypertension Diabetes mellitus	*Risk allergic reactions *Not recommended in pregnancy/lactation due to hormonal and toxic effects, teratogen *↑ risk breast cancer-stimulates breast cancer cells *avoid in asthma, arrhythmia, HTN, psychiatric disorder *stop pre-operatively due to bleeding effect ADRs: H/A GI disturbance, appetite changes Sleep disturbance Arrhythmia Anemia Stevens-Johnsons Syndrome ↑estrogenic effects Menstrual changes, ↑bleeding Mastalgia, breast growth Mania in bipolar disorder DRUG INTERACTIONS: anticoagulants ↑bleeding antidiabetic agents ↑ or ↓ bs antihypertensives-alter effect antipsychotics ↑ sedation, ↑ effect estrogen ↑ effect sedatives ↑ sedation	Root is dried for tablets, capsules, extracts, teas Tablet and capsule standardized to 4 % ginsenosides (active ingredient) Short term use: up to 2 g/day Panax ginseng Long-term use: 1 g/day Panax ginseng Note: ginseng is added to many commercial beverages currently

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Panax Ginseng “American ginseng”	<p>See Asian Ginseng</p> <p>Uses: ADHD, chronic Hepatitis B, CHF, dementia, CAD, hyperlipidemia, menopausal symptoms, ITP, MRSA, diabetic renal disease</p> <p>Astragalus “milk vetch”</p> <ul style="list-style-type: none"> ◆ Traditional Chinese Medicine for immunity, cancers, and hepatitis ◆ In legume family ◆ 300 species grow in North America, some toxic to livestock <p>Under study: potential benefits for immune system, liver, heart, and adjunctive cancer therapy</p> <p>2005 Cochrane study: some immune stimulation and ↓N/V in colorectal cancer</p> <p>Antioxidant effects</p> <p>Used in CAD and DM</p> <p>Used in hepatitis, HIV, hepatoprotection</p> <p>Chemotherapy side effects</p> <p>Mental performance</p> <p>Smoking cessation</p> <p>URI, burns</p>	<p>See above</p> <p>*some astragalus species, mostly not found in dietary supplements used, might be toxic. Some species toxic levels of selenium and some contain neurotoxin swainsonine which has caused “locoweed” poisoning in animals.</p> <p>Dietary supplement astragalus is generally considered safe for most adults</p> <p>DRUG INTERACTIONS</p> <p>may interact with immune suppressants, such as cancer drug cyclophosphamide and organ transplant drugs.</p> <p>ADRs:</p> <p>↓BS, ↓HR, ↓BS</p> <p>Diarrhea</p> <p>Bleeding: interacts with anticoagulants</p> <p>Avoid in pregnancy and lactation</p> <p>Avoid in immune disorders, transplants, bleeding disorders</p>	<p>See above</p>

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<p>Bilberry “Huckleberry” “European blueberry”</p> <ul style="list-style-type: none"> ♦ Related to blueberry ♦ Berries or dried leaves are medicinal ♦ Used for 1000 years in European folk medicines, especially for scurvy and diarrhea 	<p>Contains anthocyanosides (type of flavinoid); ↑ microcirculation, antioxidant, platelet inhibitor, anti-inflammatory, ↓ capillary fragility, preserves endothelium</p> <p>Atherosclerosis</p> <p>Peripheral vascular disease</p> <p>Diabetes mellitus</p> <p>Peptic ulcer disease</p> <p>Diarrhea</p> <p>Cataracts and glaucoma</p> <p>Retinopathy</p> <p>4 studies showed no benefit for night vision</p> <p>1 study showed possible antiproliferative effects on colon cancer cells</p> <p>Not enough scientific evidence for other indications</p> <p>ADR: ↓ BP ↓ or ↑ blood sugar Diarrhea, nausea Hepatotoxicity Bleeding</p> <p>Drug interactions: anticoagulants → ↑ bleeding antidiabetic agents -↑ blood sugar antihypertensives → ↓ BP estrogen-may ↓ absorption</p> <p>Avoid in allergy to blueberries or same family of berries</p> <p>Avoid in pregnancy and lactation</p>		

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<p>Black Cohosh “black snakeroot” “bugbane” “bugwort”</p> <ul style="list-style-type: none"> ◆ Not same as blue cohosh ◆ Contains salicylic acid ◆ Member of buttercup family ◆ Used in Native American and American folk medicine for menopausal sx, induction of labor, rheumatism <p>Menopausal symptoms most traditional</p> <p>Study results mixed on this.</p> <ul style="list-style-type: none"> ◆ NCCAM study—failed to relieve night sweats and hot flashes ◆ NIH 2008—inadequate support for use ◆ German E Commission—approved for menopausal sx, not >6 months ◆ North American Menopause Society (2004) recommends ◆ Insufficient studies for safety >6 months or for rheumatism 	<p>*United States Pharmacopeia: women should discontinue use of black cohosh and consult a health care practitioner if they have a liver disorder or develop symptoms of liver trouble, such as abdominal pain, dark urine, or jaundice.</p> <p>several case reports of hepatitis and liver failure; not known if black cohosh was cause</p> <p>Avoid in pregnancy/lactation; can induce labor</p> <p>ADRs:</p> <ul style="list-style-type: none"> Stomach pain, constipation H/A, rash, dizziness Bleeding, bruising ↑risk CVA Mastalgia, uterine bleeding ↑risk hormone-associated female cancers Hepatotoxicity <p>Drug Interactions</p> <ul style="list-style-type: none"> CYP 450 2D6 drugs Anticoagulant drugs ↑ bleeding from salicylate ingredient Antihypertensives-↓BP Hepatotoxic drugs→liver failure Chemotherapeutic drugs Tamoxifen, antiestrogens, HRT, OCP→estrogenic effect thyroid→hyperthyroidism 	<p>Extract from dried rhizome and root</p> <p>In capsules, tea, tincture</p> <p>OTC: Black Cohosh as Remifemin in dosage 20mg bid</p> <p>Other brands:</p> <ul style="list-style-type: none"> Menopause Support Estroven (includes other ingredients) 	

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Butterbur “Petadolex” patented name	<p>Asthma</p> <ul style="list-style-type: none"> ◆ Allergic rhinitis ◆ Migraine prophylaxis ◆ smooth muscle relaxant leukotriene and COX-2 inhibitor anticholinergic effect possible Studies show as much effectiveness as antihistamine for allergies Some studies show effectiveness for migraine treatment Conflicting results on asthma 	<p>DANGER: NATURAL PRODUCT CONTAINS PYRROLIZIDINE ALKALOID(PAs) → CAUSE LIVER DAMAGE AND RISK CARCINOGENICITY</p> <p>* Only butterbur products that have been processed to remove PAs and are labeled or certified as PA-free should be used.</p> <p>Avoid if allergic to Asteraceae family = ragweed, marigold, daisies, chrysanthemums</p> <p>Avoid in pregnancy/lactation</p> <p>ADRs:</p> <ul style="list-style-type: none"> Belching, abd pain, N/V/D Depression Urinary retention Rash, pruritus Puritus eyes, asthma drowsiness <p>Drug Interactions</p> <ul style="list-style-type: none"> Calcium channel blockers Anticholinergics ↑ sx Vasodilators (vasodilates) Testosterone ↓ it <p>Chronotropes and isotropes → negative activity</p>	<p>Softgel, powder, tincture, extract, capsule</p> <p>Extract is standardized</p> <p>Allergic rhinitis: Perasin (Teaslin) 8mg up to QID</p> <p>Asthma: Petaforce 50-150mg bid-tid prn</p> <p>Migraine prevention: Petadolex 50-75mg bid up to 4 months</p>

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Cat's Claw <ul style="list-style-type: none"> ◆ Central and South America ◆ Dates to use by Incas 	<p>Studies show possible benefit in rheumatoid arthritis and osteoarthritis</p> <p>In vitro study: Possible use as antiviral, antitumor agent</p> <p>immunostimulant</p> <p>Anti-inflammatory effect</p> <p>Enhances DNA repair</p> <p>↑ phagocytosis</p> <p>Free radical scavenger</p> <p>Possible research on Alzheimer's disease benefit</p>	<p>*some preparations from Peru may be contaminated with fungus, other herbs, aerobes and be toxic</p> <p>ADRs:</p> <ul style="list-style-type: none"> Sedation ↓BP ↓estradiol and progesterone One report renal failure in SLE patient Avoid in pregnancy/lactation; traditional use as abortifacient Avoid with hx autoimmune disease, hypotension, renal transplant, renal disease, immunosuppression, bleeding disorders <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> CYP 3A4 ↑ levels antihypertensives ↓ BP antiarrhythmics: ↑ arrhythmias anticoagulants: ↑ bleeding risk calcium channel blockers: ↑ effect immunosuppressants: ↓ levels nephrotoxic drugs: → renal failure iron: ↓ absorption 	<p>Capsule, tablet, tincture, tea, bark/leaves/roots in dried, cut or powdered forms</p> <p>General use: 250-1000mg 1-3 x/day</p> <p>Freeze dried extract: 100mg/day</p> <p>Other forms available</p>

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Chamomile <ul style="list-style-type: none"> ◆ German chamomile is more common for supplements 	<p>Studies:</p> <ul style="list-style-type: none"> ◆ indicate some benefit for generalized anxiety disorder ◆ benefit for infant colic, children's diarrhea, GI upset ◆ benefit for mouth ulcers in radiation or chemotherapy <p>Common uses for radiation skin issues, wound healing, anxiety</p> <p>Anti-inflammatory and anti-spasmodic effects</p> <p>Sedative effects may be from binding to benzodiazepine receptors</p>	<p>* Avoid in allergies to daisy family: ragweed, chrysanthemums, marigolds, and daisies: risk of anaphylaxis or other allergic reaction</p> <p>* avoid with allergies to onions, garlic, and artemesia</p> <p>* avoid taking with alcohol</p> <p>ADRs:</p> <ul style="list-style-type: none"> Sedation ↓BP, BS, ↑heart rate Vomiting Asthma Alter menses ↑ bleeding risk <p>DRUG INTERACTIONS:</p> <p>CYP450 interactions</p> <p>CNS depressants: ↑ sedation</p> <p>Warfarin: ↑INR</p> <p>Antidiabetic agents: ↓ BS</p> <p>Anticoagulants: ↑ bleeding risk</p> <p>Antiarrhythmics: ↑ heart rate</p>	Flowers used to make tablets, extract, tea, creams, mouth rinse, bath additives Tea: up to 8g dried flowers Capsules: up to 1600 mg/day Cream: 2%-10% chamomile extract

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Dandelion <ul style="list-style-type: none"> • used in Native American and Arabic medicine 	Uses: liver or kidney tonics Diuretics GI disturbances High Vitamin A content and high potassium content in dried herb Studies: no scientific evidence for medical conditions May have diuretic and immune-modulating effects May have antioxidant effects	<p>* some allergies/anaphylaxis to dandelions * some reports of GI upset with use * do not use with gallbladder disease as ↑ bile secretion</p> <p>ADRs:</p> <ul style="list-style-type: none"> Asthma exacerbation ↓ platelets ↑ potassium V tach, V fib ↓ bs <p>Alters estrogen, progesterone, FSH</p> <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Antidiabetic agents, estrogens (↑ effect), diuretics (↑ effect), niacin (↑ effect); antiarrhythmics ↑ arrhythmia 	Leaves and roots or whole plant, used fresh or dried in teas, capsules, or extracts. Dandelion leaves used in salads or as cooked green Flowers used for wine
Dong Quai <ul style="list-style-type: none"> • from Angelica sinensis plant Dysmenorrheal 	Menopausal symptoms Menstrual H/A Possible anti-inflammatory, antioxidant effects Possible antispasmodic, GI stimulant effects Possible antiplatelet effect (coumarin derivative) Antiarrhythmic effect	<p>* avoid in pregnancy/lactation; can cause uterine contractions and congenital malformations</p> <p>* avoid in bleeding disorders, do not use with anticoagulants</p> <p>* possible carcinogenic potential</p> <p>ADRs:</p> <ul style="list-style-type: none"> Sedation ↓ bp GI symptoms Bleeding <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Anticoagulants Hormonal medications antihypertensives 	Root used for capsule or tablets Medicinal use safety is unclear

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Echinacea “purple coneflower”	<p>Immune-stimulant</p> <p>Used for URIs and other infections, including wounds</p> <p>Studies: conflicting studies on usefulness for treating URIs, some positive NCCAM studying usefulness for immunity</p> <p>German E commission approved for treatment of colds, chronic respiratory and GU tract infections</p> <p>Used for genital herpes</p> <p>May have anti-inflammatory, antifungal, and free radical scavenger effects</p> <p>May be immune suppressant or immune stimulant</p>	<p>*Potential anaphylactic or allergic reactions, asthma, especially with allergy to daisy family: marigolds, chrysanthemums, daisies, ragweed.</p> <p>*Allergies more common in those who are atopic, with eczema or asthma</p> <p>*Avoid in people needing immunosuppression</p> <p>*Avoid in pregnancy/lactation</p> <p>*Discontinue before surgery or may affect wound healing and infection rate</p> <p>*Avoid in autoimmune disease, collagen vascular disease, HIV, liver disease, MS, TB</p> <p>ADRs:</p> <ul style="list-style-type: none"> Rashes GI side effects Dizziness, nervousness, H/A Atrial fibrillation, palpitations HTN Asthma exacerbation <p>May aggravate autoimmune disease or increase immune response</p> <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Amoxicillin: rhabdomyolysis, death Anticoagulants: ↑ bleeding Corticosteroids: ↓ immunosuppressive effect Statins, acetaminophen: ↑ risk hepatotoxicity 	

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<p>Ephedra “ma huang”</p> <ul style="list-style-type: none"> • evergreen shrub that has been used 5000 years in India and China • powerful stimulant of nervous system and heart used to treat respiratory conditions, flu, asthma, fever 	<p>Uses:</p> <ul style="list-style-type: none"> Weight loss Energy supplement Athletic performance Amphetamine-like; primary component is ephedrine <p>Studies: higher rate of calls to poison control centers about severe side effects</p> <p>Studies: ↑risk stroke, HTN, cardiac problems, GI side effects</p> <p>Risks of benefit for short term weight loss is outweighed by risks</p>	<p>*US banned sale of dietary supplements with ephedra in 2004</p> <p>*reports of stroke, MI, sudden death</p> <p>*can worsen diabetes, CVD, renal disease</p> <p>*can cause seizures</p> <p>*Do not use in pregnancy/lactation</p> <p>ADRs:</p> <ul style="list-style-type: none"> Anxiety, psychosis, tremors Dry mouth, GI irritation, nausea HTN, arrhythmia, heart damage Urinary obstruction Sleep problems <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Anesthetics-alter effect, ↑bp ETOH-psychosis with caffeine Caffeine-↑ toxicity Antidiabetic agents ↓ effect anticonvulsants ↓ effect ergot alkaloids ↑hypertensive crisis phenothiazines ↑arrhythmia, death 	Dried stems and leaves make tablets, tinctures, capsules, teas Ephedra still allowed in Chinese herbal remedies and teas

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Evening Primrose Oil (EPO) Yellow flower: ◆ contains gamma-linolenic acid (GLA), essential fatty acid, required by the body and obtained from the diet.	Uses: eczema, inflammation Mastalgia, PMS Menopause symptoms Cancer Diabetes mellitus Studies: show some benefit for rheumatoid arthritis, eczema, PMS, mastalgia May have anti-inflammatory, vasodilatory, and anti-platelet effects	* Not for pregnancy/lactation: ↑ risk complications, rupture of membranes ADRs: GI upset H/A Rash Depression Seizures in pts without seizure risk DRUG INTERACTIONS: Anesthesia: ↓ seizure threshold Anticoagulants: ↑ bleeding risk Antihypertensives: ↓ bp TCAs: ↓ seizure threshold Antiseizure agents: ↑ risk seizures	Oil extracted from seeds and put in capsules Products standardized for 8% GLA and 72% linoleic acid
Fenugreek ◆ used back to Egyptian times ◆ Used to induce childbirth ◆ Used to help digestion and menopause symptoms	Used in cooking Used for diabetes mellitus Hyperlipidemia Loss of appetite Stimulates milk production	* Avoid in pregnancy ADRs: Bloating, flatulence, diarrhea Hypoglycemia Hypokalemia Miscarriage DRUG INTERACTIONS: Alcohol-↓ hepatotoxicity Analgesics-additive effects Anticoagulants-↑ bleeding risk Antidiabetic agents-↑ hypoglycemia	Seeds are ground and taken orally or put in paste for skin Dose: 25 g seed powder daily in divided doses

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Feverfew “bachelor’s buttons” “wild chamomile” ♦ Used as antipyretic by ancient Greeks	Migraine headaches Psoriasis Asthma Tinnitus N/V Studies: Suggest may help prevent (not acutely treat) migraine headaches and rheumatoid arthritis pain	* Allergic risk with ragweed, chrysanthemum allergies * Not for use in pregnancy/lactation, can cause miscarriage, premature birth * Avoid in children * Avoid prior to surgery or dental procedures ADRs: Canker sores, sore tongue Loss of appetite Nausea/GI symptoms Risk worsened depression Dizziness, fatigue, anxiety Palpitations, ↑ heart rate DRUG INTERACTIONS: Anticoagulants: ↑ bleeding risk Vasodilators: ↑ vasodilatation	Dried leaves primarily used Stems and roots sometimes used Extracts, tablets, capsules Standardized dose: up to 250mg daily Take with food
Garlic	Uses: hyperlipidemia ♦ edible herb from Lily family CAD, HTN Colon and gastric cancer URI prevention PVD Studies: on lowering cholesterol, had varying benefit	* safe for most adults * does have blood-thinning effect; stop pre-operatively * mild risk allergy, mostly raw form; cross-allergies with onions, leeks, chives ADRs: Raw: halitosis, GI upset, body odor Contact dermatitis, blisters Bleeding Asthma, rhinitis DRUG INTERACTIONS: Anticoagulants ↑ bleeding Antihypertensives ↓ bp Antidiabetic agents ↓ or ↑ bs Anesthetics prolong effect Acetaminophen alters effect Protease inhibitors ↓ effect OCP with estrogen ↓ effect	Raw, cooked, dried, powdered Dose: 600-900 mg garlic powder (in standardized 1.3% allicin active ingredient) daily in divided doses Or 3-5mg allicin daily (equivalent to 2-5 g fresh garlic)

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Ginger <ul style="list-style-type: none"> ◆ tropical plant often used in Asian medicine 	<p>Uses: post-surgical and motion nausea GI upset Chemotherapy nausea</p> <p>Pregnancy nausea (hyperemesis gravidarum) Arthritis pain, muscle pain</p> <p>Studies: short-term effectiveness in pregnancy nausea, variable effectiveness in other forms nausea</p> <p>Studies: on inflammation ongoing</p> <p>May inhibit serotonin 5-HT₃ receptors in GI tract</p> <p>May inhibit platelet aggregation</p> <p>May have lipid-lowering, antihypertensive effect</p> <p>ADRs:</p> <p>Mostly with powdered ginger: bloating, gas, heartburn, nausea</p> <p>Depression</p> <p>Arrhythmias</p> <p>↑ bleeding risk</p> <p>DRUG INTERACTIONS:</p> <p>Calcium channel blockers ↓ bp</p> <p>Antidiabetic agents ↓ bs</p> <p>Cardiac agents - may alter effect</p> <p>anticoagulants ↑ bleeding risk</p> <p>antiarrhythmics ↑ risk</p>	<ul style="list-style-type: none"> * Avoid in lactation/safety not established * Avoid peri-operatively due to bleeding risk * Avoid in CAD, arrhythmia history 	<p>Fresh, powder, tablets</p> <p>Dose: up to 4 g/day in divided doses</p>

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<p>Ginkgo “Japanese silver apricot” “Fossil tree”</p> <ul style="list-style-type: none"> ◆ seeds of Gingko tree used for thousands of years in Traditional Chinese Medicine 	<p>Uses: memory enhancement Prevention Alzheimer's disease and dementias Ischemic stroke Decrease intermittent claudication MS Tinnitus Sexual dysfunction Studies: most studies show no improvement for memory or prevention of dementia or decreasing BP Studies: minimal benefit possible for intermittent claudication and tinnitus (variable); being studied for electric shock memory loss</p> <p>*Possible severe allergic reactions *Avoid pre-operatively or before dental procedures, increased bleeding risk *No raw ginkgo seeds, contain toxin that can cause seizures and death</p> <p>ADRs: H/A, dizziness GI symptoms ↑bleeding risk</p> <p>DRUG INTERACTIONS</p> <p>Antidiabetic agents: ↑bs Anticoagulants ↑bleeding Anticonvulsants ↓effect Antihypertensives ↓bp Antipsychotics can cause priapism Estrogens may have estrogenic effect Nifedipine ↑concentrations Prilosec ↓levels SSRIs ↑ serotonin syndrome Trazadone risk coma</p>		<p>Ginkgo leaf abstracts used in tablets, capsules, teas and skin preparations Also in nutrition bars, sublingual spray Standardized extracts Dose: 80-240mg/day divided in bid-tid</p>

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Goldenseal “yellow root” <ul style="list-style-type: none"> ◆ Native American remedy ◆ Now grown commercially due to short supplies 	URI's Digestive disorders, diarrhea Some cancers Vaginitis Wounds Canker sores Chloroquine resistant malaria Hyperlipidemia Stimulates immune system Studies: show some antibacterial effect and lipid-lowering effect; Studies: possible benefit for diarrhea and eye infections	<ul style="list-style-type: none"> * Avoid in pregnancy/lactation; contains berberine which can cause jaundice * Not for infants or young children <p>ADRs:</p> <ul style="list-style-type: none"> Arrhythmias, Bradycardia H/A, ↓BP ↓blood sugar GI irritation, nausea Dry mucous membranes Seizures <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Antiplatelet agents Antilipemic agents ↑ effect Antimalarials-additive effects Beta blockers-changes effect Phenylephrine-↑ effects Warfarin-↓ effects 	Stems and roots dried for extracts and teas Mouth rinses Sometimes combined with Echinacea for URIs Tablets/capsules 0.5-1g po tid Extract: 0.3ml-1ml Also IV and ophthalmic forms
Hoodia “Kalahari cactus” <ul style="list-style-type: none"> ◆ Kalahari bushmen ate this to suppress hunger and thirst while hunting 	Appetite suppressant (weight loss) while elevating energy Studies: none published	Drug risks, interactions, adverse effects have not been studied Avoid in pregnancy	Often combined with green tea or chromium Dried extracts from stems and roots make capsules, extracts, powders, teas, chewable tablets Dose: Dried extract up to 800mg/day

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Horse Chestnut “buckeye” <ul style="list-style-type: none"> ◆ Only seed extract is safe ◆ Do not use any other parts of plant, which may be toxic 	Used for chronic venous insufficiency <ul style="list-style-type: none"> Used for ankle edema, night leg cramps Studies show it is as effective for venous insufficiency as supportive compression stockings 	<ul style="list-style-type: none"> *Contraindicated in hepatic and renal impairment; inflammatory bowel disease *Contraindicated in latex allergy Avoid in pregnancy/lactation ADRs: calf spasm GI upset Bleeding Renal/liver damage <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> anticoagulants ↑ bleeding antidiabetic agents ↑ hypoglycemia antihypertensive ↑ hypotension 	Dose: 300 mg extract bid Topical gel 3-4 x/day Use for short term only Standardized for 15-20% escin
Kava “kava kava” <ul style="list-style-type: none"> ◆ Member of pepper family ◆ Ceremonial beverage in South Pacific 	Uses: anxiety Insomnia Menopausal symptoms NCCAM studies halted due to risk of severe liver damage Earlier studies showed some benefit with anxiety, but dangers outweigh risks May impact cerebellar and GABA functions	<ul style="list-style-type: none"> *Risk of severe liver damage, including liver failure and hepatitis *Risk dystonia (abnormal muscle movements) <p>ADRs:</p> <ul style="list-style-type: none"> Drowsiness Ataxia Dizziness, dyskinesia H/A Tachycardia Contact dermatitis, kava dermatopathy (rash from long-term with yellow discoloration) GI upset, ↑ transaminases Parkinsonism <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Acetaminophen ↑ liver toxicity Psychotropics-altered mental status ETOH ↑ toxicity Anxiolytics ↑ effect Sedatives ↑ effect Opioids ↑ sedation, CNS depression 	Root and rhizome make beverages, capsules, tablets, extracts, topical solutions

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Lavender “English lavender”	<p>Uses: anxiety, depression</p> <ul style="list-style-type: none"> Insomnia GI upset Alopecia Topical antiseptic aromatherapy <p>Studies: do not confirm any benefits for certain except for alopecia used topically</p>	<p>* Avoid in pregnancy//lactation</p> <p>ADRs:</p> <ul style="list-style-type: none"> H/A, photosensitivity GI symptoms Skin pigment changes <p>DRUG INTERACTIONS</p> <ul style="list-style-type: none"> Anxiolytics ↑ side effect Sedatives ↑ side effect Antidepressants ↑ side effect 	<p>Dried lavender teas or extracts can be taken orally</p> <p>Essential oils can be made from flowers and used topically and in aromatherapy; poisonous if taken internally</p>
Licorice Root	<p>Uses: stomach ulcer, hepatitis</p> <p>Sore throat, bronchitis</p> <p>Studies: none show significant effectiveness except IV form for Hepatitis C, not available in US</p> <ul style="list-style-type: none"> ◆ Glycyrrhizin is most dangerous compound ◆ Decglycyrrhizinated form “DGL” is safer 	<p>* glycyrrhizin can → low potassium, high blood pressure, salt and water retention, all risks for CVD: AVOID</p> <p>* high levels of licorice affect cortisone</p> <p>* Not for pregnancy—can cause preterm labor</p> <p>* Not for hypertension or CAD</p> <p>ADRs:</p> <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Avoid with medications that affect potassium, diuretics, prednisone Antiarrhythmics- ↑ risk Anticoagulants ↑ bleeding Immunosuppressants ↓ effect Antidiabetics alter effect Antihypertensives ↓ effect 	<p>Use DGL form instead—much safer</p>

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Milk Thistle “holy thistle”, “silymarin” ♦ Used for thousands of years for liver assistance	Uses: chronic hepatitis Cirrhosis Liver damage from drugs and toxins; alcoholic liver disease Hyperlipidemia Decrease insulin resistance if have DM and cirrhosis Anti-breast, cervical, prostate cancer Studies: prior studies showed benefit protecting and promoting growth of liver cells; later studies conflicting results Study: benefit in Hepatitis C showed fewer, milder liver disease symptoms but no effect on amount of viral load	* Avoid in allergies in daisy family: ragweed, chrysanthemums, daisies, marigold. * Not recommended in pregnancy/lactation ADRs: ↓bs GI side effects H/A, insomnia. Exacerbates hemochromatosis arthralgia DRUG INTERACTIONS Alcohol↓alcohol-induced hepatotoxicity Statins-inhibits effects Antineoplastic drugs ↑effects Antidiabetic agents ↓bs	Silymarin, active ingredient, from seeds used to make tinctures, capsules, extracts Generally considered safe Dose: 230-800mg/day divided in 2-3 doses
Noni “Indian mulberry” ♦ History of topical use for joint pain and dermatological issues	Used in juice as health tonic Used for chronic conditions e.g. diabetes, cardiovascular disease Used for cancer, hearing loss Studies: early studies show anti-cancer effect, antioxidant, and immune-stimulating effects NCCAM study-on prostate cancer NCI study-on breast cancer prevention	* Risk of liver toxicity * High in potassium-avoid in renal disease * Not for use in pregnancy (has been traditional abortifacient) ADRs: ↓bp DRUG INTERACTIONS: Anticoagulants-contains Vitamin K in some, not all preparations ACE inhibitors ↑potassium Numerous others that affect potassium	Fruit used in fruit juices, mostly with grape Fruit and leaves can make tablets, capsules, teas Dose: up to 2 oz twice daily × 3 months

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Peppermint Oil <ul style="list-style-type: none"> ◆ Cross between spearmint and watermint 	Seasoning and medicinal Nausea, GI upset, indigestion IBS URI, H/A asthma Muscular, antispasmodic or nerve pain Halitosis Nasal congestion Studies: peppermint may help IBS Studies: peppermint with caraway might help indigestion	*Oil is safe in small doses *Not for pregnancy/lactation ADRs: <ul style="list-style-type: none"> Heartburn Abdominal pain Acute renal failure Contact dermatitis Burning mouth syndrome DRUG INTERACTIONS: <ul style="list-style-type: none"> Antacids/H2 blockers/PPIs—may prematurely dissolve enteric coating CYP450 interactions possible 	Essential oil of peppermint In small doses in capsules or liquids In teas Mixed with other ingredients in topical preparations Dosing: <ul style="list-style-type: none"> PO digestive: 0.2-0.4 ml tid (average qd is 6-12 grts) Capsules: 1-2 caps po tid ½ hour ac. Teas with dried leaves Topical preparations Flowers used in tablets, capsules, teas, extracts Dose: 40-80mg red clover isoflavones/day
Red Clover “meadow clover” <ul style="list-style-type: none"> ◆ Legume family ◆ Contains phytoestrogens which act like estrogen ◆ Past use pertussis, asthma, bronchitis, cancer 	Used for menopausal symptoms Mastalgia Osteoporosis Benign prostatic hypertrophy Hyperlipidemia Studies: not enough evidence for effectiveness or safety in menopause Studies: NCCAM studying how it affects prostate cells Study: if causes endometrial cancer risk	*Pregnancy/lactation: unsafe in medicinal amounts *may increase risk of breast cancer or other hormone-sensitive cancers ADRs: <ul style="list-style-type: none"> Mastalgia Menstrual changes Vaginal spotting H/A, rash DRUG INTERACTIONS: <ul style="list-style-type: none"> anticoagulants↑bleeding Tamoxifen-altered effect Estrogens-altered effect 	

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Rhodiola ◆ considered adaptogen	Used for energy and exercise enhancement Fatigue generalized anxiety disorder bladder cancer hypoxia	Avoid in pregnancy/lactation ADRs: Insomnia ↑BP Dermatitis Irritability Dry mouth Leukocytosis DRUG INTERACTIONS: Antidepressants—additive effects Anxiolytics—additive effects CNS depressants—additive effects Opioids—additive effects Antihypertensives—additive effects	Capsules: 100-4g daily
Sage ◆ Fertility drug in ancient Egypt ◆ Cleansed and stopped bleeding in ulcers/wounds in ancient Greece	Spice and seasoning Used for mouth inflammation and sore throats Used for indigestion Used for menopausal symptoms Used to improve mood and boost memory/performance Studies: show mental and mood improvements; memory boosting in older adults Studies: show thinking/learning improvement in Alzheimer's disease	* safe, but some varieties contain THUJONE which can affect nervous system, causing restlessness, tremor, seizures, renal toxicity Ingesting sage powder can cause asthma Inflammation with skin contact * Avoid in pregnancy-risk abortifacient and hormonal effects * Contraindicated in seizure disorders ADRs: Seizures Contact dermatitis Hypertension Sedation DRUG INTERACTION: Antidiabetic drugs ↑ hypoglycemia Anticonvulsants-altered effects Thyroid hormones-altered effects	

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<p>Saw Palmetto “dwarf palm” native to US “cabbage palm”</p> <ul style="list-style-type: none"> ◆ Seminole Native Americans used for urinary symptoms 	<p>Uses: prostate (BPH) problems prostatitis Pelvic pain Bladder problems Prostate cancer Libido issues Alopecia Increases testosterone May be anti-inflammatory and immune stimulant</p> <p>Studies: conflicting reports of benefits on BPH symptoms Does not affect PSA on studies Being studied for effect on prostate cancer German E Commission approves for BPH early stages I and II</p> <p>*Mild GI symptoms can be ↓ by taking with food *Do not use in pregnancy/lactation due to hormonal effects ADRs Abdominal pain Diarrhea N/V Fatigue Sexual dysfunction</p> <p>DRUG INTERACTIONS: Antibiotics (Cipro, Azithromycin especially)—additive effects Androgens—↓ effect Anticoagulants—↑ bleeding Anti-inflammatories—additive effects</p>	<p>Whole or ground berries or dried fruit. In liquid extracts, tablets, capsules, as infusion or tea, topical for alopecia Dose of capsule: 320mg qd Ground, whole or dried berries—1 or 2 qd</p>	

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SAME <i>S-adenosylmethionine</i> Methionine is converted to SAME with enzyme methionine adenosyl transferase (MAP)	Alcoholic liver disease → liver disease has ↓ hepatic SAME which ↓ glutathione needed for hepatic detoxification and prevention of oxidative liver damage Depression Osteoarthritis ADHD Fibromyalgia Analgesic, anti-inflammatory	<p>Avoid in pregnancy and lactation ADRs:</p> <ul style="list-style-type: none"> Dizziness, H/A, palpitations Diaphoresis, rash, itchy or hot ear Anxiety, insomnia, fatigue Anorexia, constipation, N/V/D, dry mouth <p>AVOID IN BIPOLAR DISEASE→MANIA OR HYPOMANIA</p> <p>AVOID IN CAD, THROMBOEMBOLISM, RISK HOMOCYSTEINEMIA</p> <p>MAY WORSEN PARKINSONS SX</p> <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Serotonergic/SSRI→serotonin syndrome St. John's Wort→serotonin syndrome Tricyclic antidepressants→serotonin syndrome Tramadol→serotonin syndrome MAOI→serotonin syndrome, hypertensive crisis Dextromethorphan→serotonin syndrome Mepерidine→serotonin syndrome Levodopa↓ effect <p>Can ↑ dopamine and norepinephrine</p> <p>2006 Cochrane: no evidence for or against use in alcoholic liver disease</p> <p>2008 Cochrane: review on OA use pending</p>	Tablet only in US Poor bioavailability due to first pass effect Dose: 800-1600 mg/day in 2-3 divided doses Monitor glucose, LFTs

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St. John's Wort "hypericum" “goat's-weed” ◆ Flower blooms around feast time of St. John the Baptist in late June. ◆ used for centuries to treat mental disease, nervousness, as sedative used to treat malaria, and was balm for wounds, burns, and insect bites.	<p>Used for depression, anxiety and sleep disorders</p> <p>Used for PMS, seasonal affective disorder, somatoform disorders.</p> <p>Used for ADHD, burning mouth syndrome, OCD.</p> <p>Studies show: there may not be any more effectiveness than placebo for major depression of moderate severity</p> <p>Another study NCCAM and NIMH showed neither antidepressant nor St. John's Wort treated mild depression any more effectively than placebo</p>	<p>*Avoid use with other antidepressants; can lead to serotonin syndrome. Do not use with MAOIs.</p> <p>*STOP 5–14 days pre-operatively</p> <p>*Do not use with suicidal ideation</p> <p>*Do not use in pregnancy/lactation</p> <p>ADRs:</p> <ul style="list-style-type: none"> Drowsiness GI symptoms Hypertension/hypertensive crisis (could act like MAOI) Mania Serotonin syndrome Delirium Confusion psychosis MI Palpitations ↑TSH ↑ACTH Photosensitivity Dry mouth dizziness 	<p>Flowering tops used for teas, tablets, capsule, extracts, liquids, topical agents</p> <p>Standardized extract dose: 300 mg po tid for 4–6 weeks</p> <p>Sudden discontinuation may cause adverse reaction</p>

(continues)

COMMON NAME OF HERB/ BIOLOGICAL NAME OF HERB	DESIRABLE MEDICINAL ACTIONS OF HERB	CONTRAINdicATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF HERB	USUAL DOSING OF HERB
St. John's Wort (<i>continued</i>)	<p>DRUG INTERACTIONS:</p> <p>Anesthetics SSRI antidepressants-serotonin syndrome</p> <p>Anticancer drugs anticoagulants↓ effect antihypertensives ↑ bp</p> <p>alcohol-↓ sedation\ oral contraceptives- ↓ contraception, Possibly break-through bleeding</p> <p>Cyclosporin and transplant drugs↓</p> <p>Digoxin-↓ serum level Statins-↓ level</p> <p>HIV drugs-may affect Seizure drugs-may affect</p> <p>OTC cold/flu meds--may ↑ MAO inhibition</p>	<p>Used topically, 5%-100% oil, safer in adults</p> <p>Topical use in young boy of styling gel and shampoo caused breast growth</p> <p>Is in some mouthwashes, but based on the concerns with oral use, do not recommend</p>	
Tea Tree Oil	<p>Uses: athlete's foot (tinea pedis), nail fungus (onychomycosis) wounds, and infections</p> <ul style="list-style-type: none"> ◆ Used by Australian aborigines for centuries ◆ From tea tree <p>*Can be topical irritant or cause contact dermatitis *Can be used topically in pregnancy according to Ulbright</p> <p>ADRs:</p> <ul style="list-style-type: none"> Contact dermatitis Skin dryness Ototoxicity if instilled in ear <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Topical drying agents ↑ dryness Tretinoin ↑ dryness <p>Studies: have shown some positive benefit for acne, onychomycosis, tinea pedis and dandruff</p>		

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Thunder God Vine <ul style="list-style-type: none"> • Found in China • Used in Traditional Chinese Medicine for overactivity of immune system or inflammation 	Uses include MS, SLE, rheumatoid arthritis(RA) Used for excessive menses HIV/AIDS Hyperlipidemia osteoarthritis May have immune stimulant effects, too Studies: show anti-cancer and anti-inflammatory effects Studies: show suppression of immune system effect Studies: showed benefits for RA pain as good as sulfasalazine	*HIGHLY POISONOUS LEAVES, FLOWERS AND SKIN OF ROOT *Avoid in pregnancy/lactation ADRs: GI symptoms URI symptoms Loss of bone mineral density Decrease male fertility Alopecia, rash, H/A DRUG INTERACTIONS: Antihypertensives-alter effect DMARDs (anti-inflammatories)-↑effect Immunosuppressants-↓effects	Extracts made from SKINNED root No consistent, high-quality products are made in the US yet; Chinese products may not be reliable
Turmeric “Indian saffron” <ul style="list-style-type: none"> • Related to ginger, bitter taste, gold color • Used for spice and color • Used in Traditional Chinese Medicine and Ayurvedic Medicine for liver function, digestion, menstrual regulation and arthritis pain 	Topically, used for wound healing and eczema Used orally for ulcers, cancer, GI problems, inflammation, and gallstones Studies: curcumin chemical in turmeric has anti-inflammatory, anti-cancer, and antioxidant properties in early studies NCCAM funding studies on: ARDS, osteoporosis and liver cancer	*High doses or long term use have caused: GI problems and liver issues *Do not use if have gallbladder disease; can worsen *Considered safe as spice in pregnancy, but can stimulate uterus in high doses, so unsafe there. ADRs: GI problems Hypotension Alopecia Contact dermatitis DRUG INTERACTIONS: anticoagulants↑bleeding antidiabetic agents↑hypoglycemia antihypertensives↓BP excessive	Rhizomes (underground stems) (dried and uses as oral powder, in capsules, teas, or liquid extracts. Turmeric paste used on skin. Dose: root 1.5-7g in divided daily doses Teat 1-1.5 g dried root steeped 15 minutes in 150ml water bid

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<p>Valerian “all heal”; “garden heliotrope”</p> <ul style="list-style-type: none"> ◆ Used back to ancient Greece and Rome ◆ Described by Hippocrates and Galen (for insomnia) 	<p>Used for sleep disorders</p> <ul style="list-style-type: none"> Anxiety Depression H/A Arrhythmia May be adenosine agonist May be GABA receptor modulator May have CNS neuroprotective effects NCCAM researching affect on sleep in older adults and Parkinson's patients <p>Studies: suggest helps insomnia, not enough research on anxiety and depression</p>	<p>*Studies show safe for short periods, up to 4-6 weeks use</p> <p>*Not for use in pregnancy-possible teratogenic effects</p> <p>ADRs:</p> <ul style="list-style-type: none"> Morning fatigue GI upset Dizziness H/A Hallucinations Ataxia ↓HR, ↓BP Dry mouth Muscle relaxation <p>One report of withdrawal sx</p> <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> Alcohol ↑ effect antidepressants ↑ effect benzodiazepines ↑ effect CNS depressants ↑ effect Antihypertensives ↓ BP 	<p>Roots and rhizomes (underground stems) make tablets, teas, capsules, liquid extracts</p> <p>Use ½ to 2 hours before bed if for sleep</p> <p>Monitor LFTs</p> <p>Dose:</p> <p>Anxiety: 80-300mg po qd</p> <p>Insomnia: 400-900 mg 30-60 min. before hs</p>

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Yohimbe “yohimbe bark” <ul style="list-style-type: none"> • From bark of African evergreen tree 	<p>Yohimbe hydrochloride form has been studied for erectile dysfunction</p> <p>Used for female libido, SSRI-induced libido issues</p> <p>Used for sexual dysfunction, aphrodisiac</p> <p>Used for athletic performance</p> <p>Studies: no adequate studies done</p> <p>Contains alpha-2 blocker→↑ norepinephrine</p> <p>↑ cholinergic and ↑ sympathetic tone</p>	<p>* Avoid in pregnancy: fetal toxicity, uterine relaxation</p> <p>* Do not use in lactation</p> <p>* Do not use with MAO inhibitors, caution with other antidepressants and phenothiazines</p> <p>* Do not use with psychiatric or renal disorders—can exacerbate</p> <p>* one report hypertensive crisis</p> <p>* overdose-severe effects, possibly fatal</p> <p>ADRs:</p> <ul style="list-style-type: none"> Insomnia ↑ or ↓ BP Irritability, psychosis N/V Anxiety H/A Renal failure Lupus-like syndrome <p>DRUG INTERACTIONS:</p> <ul style="list-style-type: none"> antidiabetic ↓ bs benzodiazepines ↑ sedation ETOH ↑ intoxication Naloxone/naltrexone ↑ yohimbine toxicity, alter opioid withdrawal sx CNS stimulants ↑ effect Anticoagulants ↑ bleeding Central sympathomimetics ↑ yohimbine toxicity 	Some products contain very little yohimbe Bark used in capsules, tablets, tea Standardized yohimbe available by prescription Dose: 5-50 mg in divided doses for erectile dysfunction Monitor BP, HR

NATURAL SUPPLEMENTS	DESIRABLE MEDICINAL ACTIONS OF SUPPLEMENT	CONTRAINdicATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF SUPPLEMENT	USUAL DOSING OF SUPPLEMENT
Acidophilus <ul style="list-style-type: none"> Main types: <i>lactobacillus</i> species (<i>acidophilus</i>, <i>casei</i>, <i>plantarum</i>, <i>delbrueckii</i>) <i>Bifidobacterium</i> species (<i>brevis</i>, <i>infantis</i>, <i>longum</i>) 	Maintain or restore microbial balance in GI and GU tracts; may produce bacteriocins and lactic acid which impair growth of pathogens	*may cause morbidity or mortality if patients immunocompromised or debilitated. Avoid in PREGNANCY (risk amnionitis, sepsis, endometritis) Avoid with artificial heart valves, radiation therapy, oral surgery, GI surgery, hemet+ diarrhea, immuno-compromised, debilitated Some are kept refrigerated Take 2 hours after antibiotics Do not take with immuno-suppressants	dosage varies depending on number of living organisms in product some yogurts with live cultures liquids, capsules, powders, tablets, milk, vaginal and anal suppositories
Alpha Lipoic Acid (ALA) <ul style="list-style-type: none"> Found especially in potatoes, spinach, liver and broccoli 	Diabetes mellitus, cataracts, retinopathy, peripheral neuropathy, and nephropathy from DM HIV, cirrhosis, glaucoma Lead toxicity Ischemic injury liver, brain, heart Burning mouth syndrome ACTION: IMPROVES MICROcircULATION IN PERIPHERAL NEUROPATHY IN DM	* avoid in thiamine deficiency (alcoholism especially) Avoid in pregnancy and lactation Caution with bleeding disorders Interactions with anticoagulants, antiplatelets, NSAIDs/ASA may ↑bleeding risk May ↓ effectiveness chemotherapy May ↓ blood sugar and worsens hypoglycemia Vertigo, h/a, N/V, rash	Oral IV

NATURAL SUPPLEMENTS	DESIRABLE MEDICINAL ACTIONS OF SUPPLEMENT	CONTRAINdicATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF SUPPLEMENT	USUAL DOSING OF SUPPLEMENT
Arginine <ul style="list-style-type: none"> ♦ Semi-essential amino acid ♦ Especially in corn, dairy, oats, meat, grains, brown rice, nuts, chocolate, raisins 	ACTION: PRECURSOR OF NITRIC OXIDE, A VASODILATOR ACTION: ↑ RELAXATION OF SMOOTH MUSCLE ACTION: ↓ WBC ADHESION, PLATELET AGGREGATION, FIBRIN FORMATION IMMUNE STIMULANT CAD, CHF, HTN, PVD, hyperlipidemia, breast cancer, asthma.	*ANAPHYLAXIS TO IV ARGININE IN CHILDREN; *ATROVENTRICULAR BLOCK h/a, dizziness, atypical chest pain ↑ bleeding risk ↑ or ↓ blood sugar ↓ bp Avoid in pregnancy and lactation Avoid after acute MI Avoid IV forms in acidosis or hypotension	Sufficient amounts made in body If supplemented, cream, capsule, IV, nutrient bar No established standards
Bee Pollen <ul style="list-style-type: none"> ♦ Flower pollen collected on bodies of worker bees mixed with nectar and bee saliva ♦ Commercial bee pollen may be just pollen harvested from plants ♦ NOT same as honey or royal jelly ♦ Contains: essential amino acids, essential fatty acids, hormones, minerals, vitamins B and C coenzymes, sterols, lipids, carbohydrates, and more 	Athletic performance Memory booster Multiple sclerosis Menopause and PMS Reduce cancer chemotherapy side effects Antioxidant Immune stimulant Antifungal	*Allergic reactions: anaphylaxis, edema, shortness of breath, pruritis, eosinophilia, risk asthma exacerbation ADRs: N/V/D, abdominal pain Hepatitis H/A, malaise Photosensitivity Vertigo Hayfever Decreased memory Avoid in pregnancy/lactation Contraindicated in allergy to pollens	Capsules, tablets, liquid, granules, extracts, food supplements No standardized products Often in combination products Pollen content varies depending on plant and geographic location

NATURAL SUPPLEMENTS	DESIRABLE MEDICINAL ACTIONS OF SUPPLEMENT	CONTRAINdicATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF SUPPLEMENT	USUAL DOSING OF SUPPLEMENT
Capsicum "cayenne" "chili Pepper" "paprika" "capsaicin" <ul style="list-style-type: none"> Possibly capsaicin releases substance P from neurons, which decreases pain sensation 	Uses: clotting disorders GI disorders Cluster headache Musculoskeletal pain Neuropathic pain Postoperative N/V Perennial rhinitis May be immunosuppressant, anti-inflammatory, antimicrobial	*risk allergic reactions ADRs: ↑HR, ↑BP transiently Topical burning on skin, contact dermatitis Pharyngitis, rhinorrhea (nasal) Eye burning and tearing Sweating, flushing DRUG INTERACTIONS ACE inhibitors ↑cough Antiarrhythmics ↑HR Anticoagulants ↑bleeding Antidiabetic agents ↓bs, ↑insulin Antiluler agents ↑stomach acid	Powder, topical creams, intranasal spray Zostrix cream contains 0,02% capsaicin Law enforcement uses in pepper spray
Chondroitin Sulfate	Uses: Osteoarthritis, especially of hip and knee Psoriasis May have anti-inflammatory May be protective of joint Caution with bovine type: risk bovine spongiform encephalopathy (Mad Cow Disease)	* avoid in shellfish allergy ADRs: ↑or ↓ BP Euphoria, H/A Asthma exacerbation DRUG INTERACTIONS anticoagulants ↑bleeding Iron ↑absorption	In capsules or combined with glucosamine May be able to dose intermittently 200-400mg/d in divided or one dose

NATURAL SUPPLEMENTS	DESIRABLE MEDICINAL ACTIONS OF SUPPLEMENT	CONTRAINdicATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF SUPPLEMENT	USUAL DOSING OF SUPPLEMENT
Chasteberry “vitex” • Used by monks to decrease sexual desire, thought to promote chastity	Uses: menopause symptoms Breast milk production PMS symptoms Infertility Acne Studies: possible benefit for breast pain, infertility, PMS, but needs more study	*Do not take in pregnancy /lactation secondary to hormonal effect *Do not take with dopamine medications (some antipsychotics, Parkinson's drugs) because affects dopamine *Do not take with oral contraceptives or hormone-related cancer (e.g. breast cancer) ADRs: Acne GI symptoms Dizziness Depression, fatigue DRUG INTERACTIONS Antipsychotic agents as above Dopamine agents as above	Dry commercial extract: up to 40mg/day Liquid commercial extract: 1.8ml/day Dried fruit-up to 600mg/day
Cinnamon From bark of cinnamon tree Many varieties; Ceylon and Chinese (cassia) cinnamon most common	Uses: diabetes mellitus Bronchitis GI symptoms, loss of appetite Angina, CAD Studies: lacking support	*Avoid consuming large amounts of cassia cinnamon, because it contains coumarin, of the anticoagulant family *Allergic/hypersensitivity reaction ADRs: Asthma Glossitis, gingivitis, stomatitis DRUG INTERACTIONS Antidiabetic agents ↓bs	Powders, extracts, capsules, teas Doses: Type II diabetes mellitus up to 6g/day for 40 days

NATURAL SUPPLEMENTS	DESIRABLE MEDICINAL ACTIONS OF SUPPLEMENT	CONTRAINdicATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF SUPPLEMENT	USUAL DOSING OF SUPPLEMENT
Cranberry <ul style="list-style-type: none"> ◆ No longer thought to acidify urine ◆ Instead, contains proanthocyanidins which prevent bacterial adhesion in bladder 	Uses: treat urinary tract infections Treat H.pylori stomach infections that cause ulcers Antioxidant Anticancer Prevent dental plaque Studies: dispute that cranberries can treat urinary tract infections, but they may help PREVENT them Studies: may prevent E.coli organisms from adhering in urinary tract walls and may prevent H.pylori organisms from surviving in stomach Studies: possible antioxidant properties; possibly prevents dental plaque	*excess cranberry juice can cause GI upset *use cautiously if taking concomitant anticoagulants or aspirin, or medications that affect liver ADRs: <ul style="list-style-type: none"> ◆ ↑risk bleeding ◆ Antibiotics -additive ◆ Anticoagulants ↑bleeding ◆ Aspirin ↑ bleeding DRUG INTERACTIONS <ul style="list-style-type: none"> ◆ Antibiotics -additive ◆ Anticoagulants ↑bleeding ◆ Aspirin ↑ bleeding 	Beverage, sauces and jellies Tablets, capsules Dose: capsules 200-800mg daily in divided doses Dose: juice cocktail—500ml/day
Creatine <ul style="list-style-type: none"> ◆ Produced in body from amino acids ◆ Stored in muscles 	Use: athletic performance enhancement Studies: conflicting reports about possible renal dysfunction Studies: effects only in short duration physical activity	*Avoid in bipolar, arrhythmia, DM ADRs: <ul style="list-style-type: none"> ◆ H/A, sedation, seizures ◆ Arrhythmia, edema ◆ GI symptoms ◆ Muscle cramping Aggression, irritability, mania in bipolar, depression, anxiety DRUG INTERACTIONS: <ul style="list-style-type: none"> ◆ Antiarrhythmics ↑ arrhythmia ◆ Antidiabetic agents alter bs ◆ Diuretics ↑ effect ◆ NSAIDS ↑ nephrotoxicity 	Avoid with caffeine products Dose: up to 25g/daily by mouth

NATURAL SUPPLEMENTS	DESIRABLE MEDICINAL ACTIONS OF SUPPLEMENT	CONTRAINdicATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF SUPPLEMENT	USUAL DOSING OF SUPPLEMENT
DHEA <ul style="list-style-type: none"> Produced by adrenals, liver, testes, neurons Converted to DHEAS-S, can be converted to estrogens and androgens 	Uses: adrenal insufficiency Depression Obesity Increase strength Studies: No benefit for improving memory or for diseases Banned substance: by National Collegiate Athletic Association	ADRs: Deepening voice Arrhythmia, HTN GI symptoms Agitation, confusion, depression, psychosis Insulin resistance DRUG INTERACTIONS Antihypertensives ↑bp Antipsychotics ↑mania Lithium ↑mania Antidiabetic agents ↑insulin resistance	Tablets, capsules, creams
Fish Oil “omega 3 oils” DHA/EPA <ul style="list-style-type: none"> From oily fish Contains DHA omega 3 fatty acid (docosahexaenoic acid) and EPA (eicosapentaenoic acid) 	Uses: Hypertriglyceridemia Prevention CAD May be antithrombotic Mild ↓BP ↓atherosclerotic plaque ↓triglyceridemia May be anti-arrhythmic	* avoid in fish allergy * avoid perioperatively due to bleeding risk * avoid in pregnancy/lactation due to risk of mercury contamination * avoid in bleeding disorders ADRs: ↓BP, ↑LDL ↑Alt in cystic fibrosis ↑risk mania Fisly taste, belching DRUG INTERACTIONS Anticoagulants ↑bleeding Antihypertensives ↓bp Vit A and D may cause toxicity with cod liver oil Vit E: ↑ bleeding	Dose: 2-4 g EPA+DHA daily

NATURAL SUPPLEMENTS	DESIRABLE MEDICINAL ACTIONS OF SUPPLEMENT	CONTRAINDICATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF SUPPLEMENT	USUAL DOSING OF SUPPLEMENT
Flaxseed oil/seed “lineseed oil” • Flaxseed contains lignans, or phytoestrogens • Flaxseed oil does not contain any lignans	Uses: menopause symptoms Laxative Arthritis Hyperlipidemia Cancer Studies: suggest help lower lipids if lipids are elevated Studies: suggest alpha-linoleic acid (type of omega 3 fatty acid) contained within helps heart disease Studies: mixed results on hot flashes Studies: suggest might reduce some cancers' risks, unclear	* Not for pregnancy due to risk of spontaneous delivery * Risk allergy, type I hypersensitivity ADRs: Severe diarrhea Abdominal pain, bowel obstruction ↓ platelet aggregation ↑ triglycerides May affect sex hormones DRUG INTERACTIONS: acetaminophen ↓ absorption anticoagulants ↑ bleeding antidiabetic agents ↑ or ↓ bs antihypertensives ↓ bp furosemide ↓ absorption	Flaxseed oil is in liquid or capsule form Flaxseed whole or crushed can be mixed with water or used with food; also in powder form Take both seed and oil in sufficient water to avoid intestinal obstruction and constipation Do not take same time as any other medications or supplements, as may decrease absorption Dose: oil up to 2g/daily Dose: powder/flour up to 60g/daily, divided doses with liquid up to 4 weeks
Glucosamine	Uses: osteoarthritis, rheumatoid arthritis TMJ Diabetes mellitus Chronic venous insufficiency	* Avoid in pregnancy/lactation * avoid with hx of shellfish or iodine allergy as some preparations from marine exoskeletons * caution in DM-may ↑ bs ADRs: Dizziness, H/A, somnolence ↑ bp, ↑ heart rate, palpitations GI side effects DRUG INTERACTIONS: Antihypertensives ↓ effect Anticoagulants ↑ bp leeding Antidiabetic agents ↓ insulin production or ↑ insulin resistance	Takes average 2-4 weeks for benefit Dose: 500mg tid for up to 6 months

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Grapeseed Extract ♦ Leaves and fruit of grapes have been used medicinally since ancient Greece ♦ Extract made from grape seeds leftover from wine-making	Uses: atherosclerosis, CAD Hyperlipidemia HTN Circulatory issues from diabetes, in eyes (macular degeneration and vascular disease), periphery Cancers edema Studies: show efficacy for chronic venous insufficiency and extremity edema Studies: benefit for diabetic retinopathy and antioxidant effects Studies in process are looking at breast, prostate, colon cancer prevention, Alzheimer's treatment	* Avoid in perioperative periods * Avoid in pregnancy/lactation * Avoid with bleeding disorders, iron deficiency ADRs: H/A, dizziness HTN Itchy scalp GI symptoms DRUG INTERACTIONS: Anticoagulants ↑ bleeding Antihypertensives ↑ effect Antidiabetic agents ↓ bs Iron ↓ amount	Dose: up to 300mg/d by mouth in capsules or tablets
Green Tea "Chinese Tea" "Japanese Tea" ♦ Active ingredient is EGCG	Uses: mental alertness Weight loss Hyperlipidemia Cancer treatments—gastric, breast, skin Studies: mixed results on prevention or slowing of some cancers Study: improves mental alertness, likely from caffeine	* Avoid if on anticoagulants as contains Vitamin K * Avoid if caffeine-sensitive * Avoid using concentrated green tea extracts if have or develop liver issues; some risk liver toxicity ADRs: Caffeine-related: insomnia, irritability, palpitations, GI upset, urinary frequency, ↑ psychiatric symptoms Dose: 250-950ml tea po qd up to 4 weeks for CAD benefits Dose: 400ml tid for mental alertness	Primarily used as beverage by steaming green tea leaves. Can be made into capsules or put with other products. Some topical products. Dose: 250-950ml tea po qd up to 4 weeks for CAD benefits Dose: 400ml tid for mental alertness

NATURAL SUPPLEMENTS	DESIRABLE MEDICINAL ACTIONS OF SUPPLEMENT	CONTRAINdicATIONS AND RISKS (Adverse Drug Reactions or ADRs) OF SUPPLEMENT	USUAL DOSING OF SUPPLEMENT
Guarana <ul style="list-style-type: none"> ◆ Has among highest caffeine content of all plants ◆ Guarana=2.5%-7% caffeine ◆ Coffee=1%-2% caffeine 	Uses: cognitive and mood enhancement obesity	<p>*Not to be used in pregnancy/lactation due to high percentage of caffeine and associated risks miscarriage, IUGR</p> <p>*not to be used with anticoagulants, as it decreases platelet aggregation</p> <p>ADRs:</p> <p>Related to caffeine content Agitation, anxiety, insomnia Arrhythmia, hypertension H/A, GI symptoms Tachycardia, psychosis, others ↓platelet aggregation</p> <p>DRUG INTERACTIONS:</p> <p>Alcohol ↑ effect Analgesics ↑ effect Anticoagulants ↑ bleeding antihypertensives ↓ effect antibiotics alter effect CNS depressants-antagonistic Epinephrine-additive Dopaminergic-additive Beta-blockers-antagonistic others</p>	Dry extract doses should not be >3g/day Found in Brazilian sodas, and increasingly in US energy products and energy drinks.

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Kelp “seaweed” ◆ Brown seaweed has been used for food and medicine ◆ Contains sodium alginate	Uses: anticoagulant Antiviral Wound repair goiter Weight loss Cancer Evidence antioxidant and antibacterial actions Anticoagulant effect in lab	*Iodine may cause hypersensitivity rash including angioedema, TTP, death *Not for pregnancy/lactation-abortifacient effect ADRs: ↓bp in some species Increase or decrease thyroid Laxative effect Bleeding Peripheral neuropathy from arsenic content Nephrotoxicity DRUG INTERACTIONS Laxatives ↑ effect Antidiabetic agents ↓bs Anticoagulants ↑bleeding Antihypertensives ↓bp in some Estrogens-antiestrogenic effect	Aqueous extract, powder, granules, capsules, tablets No standardization of iodine content
Melatonin Neurohormone secreted by pineal gland due to darkness Influences circadian rhythm and sleep initiation	Use: sleep disorders ADHD Alzheimer's disease May impact brain sleep center Immune stimulant Antioxidant Jet lag	*Do not use in pregnancy/lactation ADRs: confusion Depression (transient) Dizziness Dream disturbance Drowsiness Irritability Neurobehavioral alteration DRUG INTERACTIONS Anticoagulants ↓effectiveness Antihyperlipidemics ↑atherosclerosis Antiseizure drugs ↑ seizure risk Sedatives ↑ sedation	Not approved for safety over >3 months use Dose: 0.1-5 mg in evening po

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Policosanol <ul style="list-style-type: none"> Alcohols from sugar cane wax 	Use: hypercholesterolemia Inhibits cholesterol synthesis in liver LDL degradation Antioxidant Studies: many from Cuba, source of sugar cane, some conflicting data from non-Cuban studies	ADRs Antiplatelet effect H/A, dizzy, ↓ BP DRUG INTERACTIONS Antidiabetic agents ↓ bs Antihypertensives ↓ bp Antiparkinsonians ↑ dyskinésias Anticoagulants ↑ bleeding Nitrates ↓ bp	Capsules, tablets Dose: 5-80mg/day up to 3 years
Red Yeast Rice	Use: hyperlipidemia Contain sterols, fatty acids, isoflavones Anti-inflammatory potential Extract from fermenting rice with yeast FDA banned sale in US due to violation, supplement contained lovastatin (prescription statin) FDA warns not to buy on internet due to lovastatin component	* avoid in pregnancy/lactation ADRs Rash, anaphylaxis Dizziness, H/A, ↓ bp ↓ bs GI symptoms ↓ Hgb, ↓ BUN DRUG INTERACTIONS Alcohol ↑ liver toxicity CoQ10 ↓, needs supplement Antidiabetic ↓ or ↑ bs Antihyperlipidemics ↑ risk adverse effects Statins ↑ risk adverse effects ↑ risk rhabdomyolysis with azalides, cyclosporine, nefazodone, others	Gel capsules Do not take with grapefruit juice or alcohol

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Soy ◆ Soybeans contain isoflavones, similar to estrogen	Uses: menopausal symptoms HTN Hyperlipidemia Osteoporosis Breast and prostate cancer (may be now contraindicated in breast cancer) Studies: reduces LDL cholesterol Studies: reduces hot flashes	*Rare allergies *Avoid soy in hormone-related cancers or risk of cancers (breast, endometrial, ovarian) ADRs: Mild GI symptoms H/A DRUG INTERACTIONS Anticoagulants ↑ bleeding Antihypertensives ↓ bp Tamoxifen interferes with effects Estrogen interferes with effects	Soybeans, tofu, soy milk Powders, capsules, supplements and nutrition bars Dose: 10-106g po bid Dose: 25 g soy daily for CAD risk
Spirulina “blue-green algae”	Uses: diabetes, hyperlipidemia Allergic rhinitis Weight loss	*avoid in pregnancy/lactation ADRs: H/A, N/V hepatotoxicity	Dose: DM 1 g po bid with meals Dose: allergic rhinitis 1000-2000mg qdx12 weeks
Wild Yam	Uses: hyperlipidemia Menopausal symptoms	*avoid in pregnancy/lactation ADRs: GI upset, contact dermatitis DRUG INTERACTIONS Antidiabetic agents ↓ bs Hormones altered effects	Topical-vaginal creams Capsules: 250mg 1-3x/day

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