boards' fodder

Herbal supplements in Dermatology

Josh Weingartner, MD and Anne Miller, MD

Substance	Source	Uses	Side Effects
Aloe Vera	Aloe vera	Used topically for wounds and burns. Reduces burning, itching, and scarring in radiation dermatitis. Useful in psoriasis and seborrheic dermatitis	Allergic contact dermatitis. Can lead to hypoglycemia if ingested orally by diabetics on oral hypoglycemic drugs
Arnica	Arnica montana (contains sesquiterpene lactones)	Used for treatment of myalgia, arthralgia, bruises, insect bites, furuncles, acne, gingivitis, hemor- rhoids, seborrehic dermatitis, and psoriasis	Allergic contact dermatitis; toxic if ingested
Bearberry	Arctostaphylos uva-ursi	Used for melasma, postinflammatory hyperpigmentation, suppressing UV-induced tanning	If ingested, can cause nausea, vomiting, green urine, and tinnitus
Capsaicin	Capsicum	Mixture of vanillyl amides of isode- ceconic acid and works by deplet- ing substance P. Is used for multiple neurologically mediated pruritic and neuropathic disorders.	Temporary burning
Chamomile	Matricaria recuctita, Chamomilla recutita	Used for dermatitis	Theoretical risk of increased bleeding, contact dermatitis, anaphylaxis
Chitin	Insect and crustacean shell component	Used for treatment of hyperpigmentation	
Chrysanthemums	Asteraceae (Compositae) family	Active components include pyrethrins which are used for scabies treatment	Allergic contact dermatitis, photosensitivity
Escharotics	Zinc chloride, bloodroot, gold- enseal	Historically used topically to treat skin cancers	Necrotic crusts, pain, scarring
Evening Primrose Oil	Oenothera biennis	Contacts linolenic acid and gamma- linolenic acid and is used for atopic dermatitis and pruritus	None topically; may cause nausea, diarrhea, headache, thrombosis and immunosuppres- sion with prolonged use if taken systemically
Feverfew	Tanacetum (Chrysanthemum)	Anti-inflammatory	Contraindicated during pregnancy
Garlic	Allium sativum	Used topically for verrucae, tinea pedis and has antibacterial, antiviral, and antifungal properties	Contact dermatitis topically; anticoagulation systemically
Gingko Biloba	Gingko biloba	Used for photoaging and vitiligo topically	Can decrease clearance of MAO inhbitors and SSRIs if used systemically
Ginseng	Panax ginseng, Panax quinquefolius	Used for anti-aging topically	Headache, insomnia, Gl upset, and hypoglycemia if used systemically
Honey		Enhances healing of first-degree and superficial second-degree burns. May be useful for acute wounds, post-op wounds, and pressure ulcers	Contact dermatitis
Horse Chestnut Seed Extract	Aesculus hippocastanum	Used topically for treatment of varicose veins, phlebitis, and hemorrhoids	Irritant contact dermatitis; oral use can cause interactions with oral hypoglycemics, insulin, anticoagulants, aspirin, NSAIDs
Licorice Root	Glycyrrhiza	Contains anioxidants used for its anti- inflammatory properties in rosacea and	Hypertension, edema, congestive heart failure, hypokalemia (syn-

eczema. Also affective for melasma.

drome of mineralcorticoid excess)



Josh Weingartner, MD, is a PGY-4 at University of Oklahoma Department of Dermatology.



Anne Miller, MD, is a PGY-4 at University of Oklahoma Department of Dermatology.

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Substance	Source	Uses	Side Effects
Marigold	Calendula	Used as antisepctic for diaper der- matitis. Used for anti-inflammatory properties for wounds, ulcers, burns, HSV, eczema	Contact dermatitis
Olive Oil	Olea	Used for hydration, wound healing, and to stimulate blood flow. If applied after UVB exposure, decreases DNA damage.	None
Pansy Flower	Viola tricolor	Contains alicylic acid and is used for seborrheic dermatitis in infants.	Theoretical risk of salicylate toxicity
Paper Mulberry	Broussonetia papyrifera	Root extract inhibits tyrosinase and is used for melasma	Unknown
Propolis		Resinous substance contains flavo- noids and is used for apthous ulcers and HSV.	Hypersensitivity reactions. Contraindicated if allergic to honey or other bee products.
Resveratrol-containing plants	Resveratrol	Grapes and other berries used topically to decrease UVB-induced damage	Inhibits cytochrome P450. Slows wound healing and inhibits platelet aggregation.
Rosemary	Rosmarinus officinalis	Used to prevent baldness and treat toothaches	Contraindicated during pregnancy
Silymarin (milk thistle)	Silybum marianum	Used topically for anti-aging	Contact dermatitis; part of Compositae family
Soy	Glycine	Used to treat hyperpigmentation, reducing unwanted body hair, reducing photodamage	Has estrogenic effects and therefore carries a theoretical risk for breast cancer
St. John's Wort	Hypericum perforatum	Used topically for acne, wounds, insect bites	Induces cytochrome p450. Can cause photosensitivity.
Turmeric	Curcuma longa	Used to treat wounds, ulcers, tinea, and pruritis	None
Vitamin C	Ascorbic Acid	Used for photoprotection, photoaging, melasma, acne. Promotes collagen synthesis	Stinging, erythema, xerosis
Vitamin E	Tocopherol	Antioxidant used for atopic dermatitis and anti-aging	May inhibit clotting
Witch Hazel	Hamamelis virginiana	Used for acne, eczema, oral ulcers, bruises. Acts as a vasoconstrictor and antioxidant.	None

- Bolognia JL, Jorizzo JL, Schaffer JV, editors. Bolognia Textbook of Dermatology, 3rd ed. Spain: Mosby Elsevier publishing; 2012: chapter 133. Wolverton SE. Comprehensive Dermatologic Drug Therapy. 3rd ed. China: Mosby Elsevier publishing; 2013: chapter 55.

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