

airborne contact	poison ivy-oak-sumac (burning), pollen, ragweed
allergans, common	balsam of Peru, benzocaine, cosmetics, ethylenediamine hydrochloride, mercurochrome, mercaptobenzothiazole, neomycin, nickel, perfumes, poison ivy, poison oak, potassium dichromate, thimerosal
antibiotic allergy	neomycin, penicillin, streptomycin
antibiotic patch-test series	ampicillin 5% aq., bacitracin 20% in pet., chloramphenicol 5% in pet., clindamycin 1% aq., erythromycin 5% in pet., furacin 0.2% in pet., garamycin 20% in pet., lincomycin 1% aq., mafenide 5% in pet., neomycin 20% in pet. nystatin 100,000 units/mL in alcohol, penicillin 100,000 units/ml, polymxin B 3% in pet., sodium fusidate 2% in pet., streptomycin 2.5% aq. sol., sulfanilamide 5% in pet., tetracycline 5% in pet., tetracycline 5% in pet., tobramycin 20% in pet.
arsenic containing	Asiatic pills, DeValagin's solution Donovan's solution, Fowler's solution
black-rubber mix containing	boots, cane tip, eyeglass holder, gloves (black rubber), knee-high stocking rubber ring, money counters, scuba mask, shoes, squash ball, tires, truncheon, underwear elastic, wind surfing boards
carba mix containing	1,3-diphenylguanidine, diethyldithiocarbamate, dibutyldithiocarbamate (natural rubber latex in shoes)
cement dermatitis	cobalt, <b>dichromate</b> , nickel
chelitis, allergic	carrots, coffee, menthol, orange peel
<i>Compositae</i> family	see <i>sesquiterpene lactone containing plants</i>
corticosteroid classes, based on cross-reactivity	<b>Class A:</b> hydrocortisone, hydrocortisone with C17 or C21 acetate ester, methylprednisolone +/- acetate, prednisone, prednisolone +/- acetate, tixocortol pivalate <b>Class B:</b> amcinonide, budesonide, desonide, flucinonide, flucinolone acetonide, halcinonide, triamcinolone <b>Class C:</b> betamethasone (not valerate), betamethasone & disodium phosphate, desoxymethasone, dexamethasone & disodium phosphate, flucortolone <b>Class D:</b> aclomethasone dipropionate, betamethasone valerate & dipropionate, clobetasol propionate & butyrate, flucortolone hexanoate & pivalate, hydrocortisone-17 butyrate, hydrocortisone butyrate & valerate, prenicarbate
corticosteroids, paraben-free	Dermolate anti-itch cream, Dermolate scalp itch lotion, Hytone cream, Rhulicort cream & lotion
cosmetic ingredients	fragrance, lanolin, Quaternium 15
douche sensitizers	benzethonium chloride, eucalyptus oil, methyl salicylate, oxyquinoline, perfumes, phenylmercuric acetate, thymol
eczema, delayed & urticaria	see <i>urticaria &amp; delayed eczema</i>
eczematous contact dermatitis	alcohol, balsam of Peru, benzoic acid, cinnamic acid, cinnamic aldehyde, cobalt chloride, sodium benzoate, sorbic acid
elderly, common sensitizers	dichromates, nickel, paraphenylenediamine, poison ivy, poison oak, poison sumac, ragweed, rubber
eyeglass frame dermatitis	azo dyes, beeswax-turpentine mixture, butyl acrylate, cellulose acetate, cellulose propionate, epoxy resin, ethyl acetate, ethylene glycol, ethylene oxide, nickel, p-tert-butylphenol, phenyl salicylate, resorcinol monobenzoate, tricresyl phosphate, triphenyl phosphate
eyelid dermatitis	cosmetics, nail polish (toluene sulfonamide/formaldehyde resin)
formaldehyde-containing	antiperspirants <b>apparel:</b> anti-wrinkle, anti-static, chamois, chlorine resistant, mildew resistant, moth-proof finish, permanent press, screen prints, suede, wash & wear, waterproof finish cements & pastes cleaning fluids, dry cleaning <b>cosmetics:</b> bath oil, bubble bath, fingernail polish, shampoo, wave sets, fixatives embalming fluid

	<p><b>medications:</b> anhidrotics, contraceptives, denatured alcohol, methenamine, mouthwashes, orthopedic casts, renal dialysis, tanning agents, wart removers</p> <p>paints, polishes, preservatives</p> <p>phenolic resins &amp; urea plastics (buttons, jewelry, adhesives, footwear)</p> <p>photographic plates and chemicals</p> <p>smoke from burning charcoal, cigarettes, cigars, coal, wood</p> <p>toxoids &amp; vaccines</p>
fragrance	cinnamic alcohol, cinnamic aldehyde
hairdressers	<i>para</i> -phenylenediamine, nickel, glyceryl monothioglycolate, formaldehyde, hair dyes, perfumes, rubber gloves
hand dermatitis; foods	corn, fruit juice, pineapple, wet foods
histamines	beefsteak, cheese, chicken liver, eggplant, spinach, tomatoes, wine (red)
hypersensitivity reactions	<p><b>Type I (IgE-dependent);</b> IgE mast cell degranulation; pruritus, urticaria, anaphylaxis</p> <p><b>Type II (cytotoxic);</b> hapten binding to tissue proteins, drug-antibody complex formation</p> <p><b>Type III (immune complex);</b> drug-antibody conjugates enter circulation; serum sickness, immune complex vasculitis, occurs 7-10 days after exposure</p> <p><b>Type IV (cell-mediated, delayed hypersensitivity);</b> T-lymphocyte mediated with release of lymphokines; allergic contact dermatitis</p>
jewelry	nickel
leather	chromates
lemon, orange peel	limonene
leukoderma, contact	butylcatechol, <i>para</i> -tertiary butylphenol, phenolic detergents
mercaptobenzothiazole-containing	adhesives, black tires, cleansers, detergents, fungicides, greases, photographic film emulsion, rubber, rubberized fabrics (bras & girdles), shoes, veterinarian medicaments
metals	chromium, nickel
nail polish	toluene sulfonamide/formaldehyde resin
neomycin cross-reactors	butirosin, gentamicin, kanamycin, paromomycin, spectinomycin, streptomycin, tobramycin
neomycin-sensitive	use betadine, Bactroban, ilotycin
paraphenylenediamine	coloring agent to dye hair; frequent cause of contact dermatitis in hairdresser's hands
patch test (standard)	<p><b>Hermal; medications;</b> benzocaine, neomycin sulfate <b>preservatives;</b> imidazolidinyl urea, quaternium-15, formaldehyde <b>rubber compounds;</b> thiuram mix, mercaptobenzothiazole, carba mix, black rubber IPPD, mercapto mix <b>vehicle;</b> lanolin alcohol <b>metals;</b> nickel sulfate, potassium dichromate <b>fragrances;</b> cinnamic aldehyde, balsam of Peru <b>resins;</b> epoxy, <i>p-tert</i>-butylphenol formaldehyde, colophony <b>miscellaneous;</b> ethylenediamine dihydrochloride, <i>p</i>-phenylenediamine</p> <p><b>T.R.U.E.;</b> <b>medication;</b> quinoline mix, caine mix, neomycin sulfate <b>preservatives;</b> paraben mix, Cl Me isothiasolinone, thimerosal, quaternium-15, formaldehyde <b>rubber compounds;</b> thiuram mix, mercaptobenzothiazole, carba mix, black rubber PPD mix, mercapto mix <b>vehicles;</b> wood alcohol <b>metals;</b> cobalt chloride, nickel sulfate, potassium dichromate <b>fragrances;</b> fragrance mix, balsam of Peru <b>resins;</b> epoxy, <i>p-tert</i>-butylphenol formaldehyde, colophony <b>miscellaneous;</b> ethylenediamine dihydrochloride, <i>p</i>-phenylenediamine</p>
patch test grading	<p>?: doubtful reaction manifested by faint erythema</p> <p><b>+1;</b> weak positive reaction manifested by infiltrated erythema with possible papules</p> <p><b>+2;</b> strong reaction showing papules &amp; vesicles</p> <p><b>+3;</b> extreme reaction with confluent bullae</p>
photoallergic dermatitis	<p><b>antibiotic/antifungal;</b> bithionol, fenticlor, jadit, multifungin, salicylanilides (halogenated)</p> <p><b>fragrances;</b> 6-methylcoumarin, musk ambrette</p> <p><b>medications;</b> chlorpromazine, piroxicam, promethazine, sulfanilamide</p> <p><b>miscellaneous;</b> plants of the <i>Compositae</i> family, diphenhydramine, psoralen, sandalwood, stilbenes, sulfonylureas, thiazides</p> <p><b>sunscreens;</b> benzophenone, digalloyltriolate, PABA esters</p>
phototoxic	<b>coal-tar:</b> acridine, anthracene, phenanthrene

	<p><b>drugs:</b> phenothiazines, sulfonamides</p> <p><b>dyes:</b> acridine orange, acriflavine, anthraquinone, dibromofluorescein, eosin, methylene blue, neutral red, rose bengal, toluidine blue</p> <p><b>furocoumarins:</b> psoralen, 8-methoxypsoralen, 4,5,8-trimethylpsoralen</p>
phytophotodermatitis-causing	<p><i>Compositae:</i> milfoil, stinking mayweed, yarrow</p> <p><i>Moraceae:</i> figs</p> <p><i>Papilionaceae:</i> psoralen</p> <p><i>Rutaceae:</i> bergamot, bitter orange, burning bush, fraxinella, gas plant, lemon, lime, Persian lime</p> <p><i>Umbelliferae:</i> angelica, carrot, chervil (wild), cow parsley, dill, fennel, giant hogweed, lovage, masterwort, parsnip</p>
plastic	acrylic nails, resins (epoxy & formaldehyde), nail lacquer
poison ivy, oak	catechols, urushiol (Rhus plants) <i>see Toxicodendron</i>
preservatives in food	benzoic acid, calcium propionate, citric acid, monoglycerol citrate, parabens, polysorbate, quaiac gum, sodium benzoate, sodium bisulfite, sorbic acid
rhus-containing	Brazilian pepper, cashews, ginkgo tree, Indian marking nut, poison ivy, poison oak, poison sumac, Japanese lacquer tree, mango, rengas tree
rosacea (avoid)	<p><b>activity/emotions:</b> anxiety, <b>exercise</b>, <b>stress</b></p> <p><b>beverages:</b> <b>alcohol</b> (esp. beer, bourbon, champagne, gin, red wine, vodka), <b>hot drinks</b> (all kinds)</p> <p><b>foods:</b> avocados, bananas, broad leaf beans and pods (navy, lima, pea), cheese (except cottage cheese), chocolate, citrus fruits, eggplant, figs, foods high in histamine, liver, plums (red), raisins, sour cream, soy sauce, <b>spicy foods</b>, spinach, thermally hot foods, tomatoes, vanilla, vinegar, yeast extract, yogurt</p> <p><b>medications:</b> vasodilators, topical steroids</p> <p><b>medical conditions:</b> chronic cough, menopause</p> <p><b>skin care products:</b> acetone, fragrances, hydro-alcohol, witch hazel</p> <p><b>temperatures:</b> hot baths, hot tubs, overheating, saunas</p> <p><b>weather:</b> <b>cold weather</b>, <b>hot weather</b>, humidity, strong winds, <b>sun</b></p>
sensitized to: may be sensitive to/flare with	<p><b>benzocaine:</b> azo dyes, PAS, procaine, sulfa</p> <p><b>ethylenediamine:</b> tripelethylamine/pyribenzamine, pyrilamine/Triaminic, piperazine, hydroxyzine groups (aminophylline, Merthiolate, Mycolog)</p> <p><b>formaldehyde:</b> methenamine</p> <p><b>iodine:</b> contrast agents, SSKI</p> <p><b>neomycin:</b> aminoglycosides</p> <p><b>PABA:</b> azo dyes, PAS, procaine, sulfa</p> <p>poison ivy: mangoes</p> <p><b>PPD:</b> azo dyes, PAS, procaine, sulfa</p> <p><b>thiuram:</b> disulfiram</p>
sensitizers, topical that may provoke reaction upon systemic administration	balsam of Peru, caladryl, chlorobutanol, cobalt, diphenhydramine, disulfiram, ethylenediamine hydrochloride, ethyl aminobenzoate, formaldehyde, halogenated hydroxyquinolones, hydrazine hydrobromide, iodine, mercurials (organic & inorganic), metallic mercury, neomycin, paraphenylenediamine, resorcinol, thiamin, thiram
sensitizers; topical that may sensitize & related medications that may produce contact-type dermatitis	<p>alcohol: alcoholic beverages    aminophylline suppositories: ethylenediamine antihistamine</p> <p>ammoniated mercury: organic &amp; inorganic mercurials, mercury amalgam    antistine drops: ethylenediamine antihistamines    arnica (tincture): elixir terpene hydrate    balsam of Peru: benzoin inhalation    Benadryl; dramamine    benzocaine: <i>see para-amino compounds</i></p> <p>bismark brown: <i>see para-amino compounds</i>    disphenol A: diethylstilbestrol    caladryl</p> <p>cream: benadryl, dramamine    chlorobutanol: chloralhydrate    chloroquin: atabrine</p> <p>cobalt chloride: vitamin B12    epoxy amine hardener: ethylenediamine antihistamine, aminophylline    ethylenediamine hydrochloride: ethylenediamine antihistamines</p> <p>formaldehyde: urotropin, mandelamine, urised    glyceryl PABA sunscreens: <i>see para-amino compounds</i>    halogenated hydroxyquinolines: vioform, dioquin    hydralizine</p> <p>hydrochloride: isoniazid, apresoline, nardil    iodine: iodides, iodinated organic compounds</p>

	<p>mercurochrome: <i>see mercury</i> mercury:mercurial diuretics, calomel, mercury amalgam  methylene blue: phenothiazines neomycin sulfate: streptomycin, kanamycin, framycetin, paranomycin orange peel oil: elixir terpene hydrate para-amino compounds: PABA, azo dyes, Dymelor, Orinase, Diabinese, sulfonamides, Diuril, Hydrodiuril, Saluron, renesse, para-aminosalicylic acid phenothiazine: phenergan quinilor compound: vioform, dioquin  resorcin: hexylresorcinal thiram, disulfam: antabuse triethylenetetramine: ethylenediamine antihistamine, aminophylline turpentine-cardamon flavor: elixir terpene hydrate</p>
sesquiterpene lactone containing plants	arnica, artichoke, bitterweed, boneset, broomweed, burdock, burrobrush, capeweed, chamomile, champaca, chicory, chrysanthemum, cocklebur, cosmos, costus, cottonthistle, encelia, feverfew, fireweed, fleabane, guayule, hempweed, ironweed, laurel oil, leafcup, lettuce, liverwort, marguerite, marigold, marsh elder, oxeye, pyrethrum, ragweed, sagebrush, sneezeweed, sowthistle, starthistle, stinkwort, sunflower, tansy, tulip tree, whitewood, wormwood, yarrow
shoe dermatitis	mercaptobenzothiazole, tetraethylthiuram, potassium dichromate, para-tertiary butylphenol formaldehyde
spermicide sensitizers	hexylresorcinol, nonoxyl, oxyquinoline sulfate, phenylmercuric acetate, phenylmercuric borate, quinine hydrochloride
spices; eczematous dermatitis	capsicum, cayenne pepper, cinnamon, cloves, laurel, mace, nutmeg, vanilla
sunscreens	PABA
systemic dermatitis	alcohol, aminophylline, azo dyes, benzocaine, calomel, chloral hydrate, cinnamon, diphenhydramine, doxylamine, dramamine, ethylenediamine (Phenergan), formaldehyde, hydralazine, hydrazine, iodine, isoniazid, mandelamine, mercurials, methenamine, Nardil, neomycin, oral hypoglycemic agents, PABA, para-phenylenediamine, p-aminosalicylic acid, penicillin, phenothiazines, procaine, potassium iodide, procainamide, quinine, quinidine, resorcinol, saccharin, silvadene, streptomycin, sulfonamides, thiamin, thiuram, vitamin B12
textiles	azo dyes
thiuram-containing	disinfectants, fungicides, germicides, insecticides, lubricating oils, neoprene, neoprene adhesives, pesticides, polyolefin plastics, putty, repellents, latex preservative, rubber vulcanization accelerators, shampoo, soap
<i>Toxicodendron</i> plants	poison ivy ( <i>Toxicodendron radicans</i> ), poison oak ( <i>Toxicodendron quercifolium</i> ), poison oak ( <i>Toxicodendron diversiloba</i> ), poison sumac ( <i>Toxicodendron vernix</i> ) <b>relatives</b> ; black varnish tree, Brazilian pepper, cashew nut tree, el litre tree, ginko tree, Japanese lacquer tree, mango, marking nut tree (India), pepeo tree, rengas tree
ulcers, agents may cause sensitization	ethylenediamine hydrochloride, lanolin, neomycin, nitrofurazone, paraben preservatives, Vitamin E creams
urticaria	<p><b>cholinergic</b>: emotional stress, exercise, heat  <b>foods</b>: bananas, caffeine, cheese, chocolate, citrus, coffee, cow milk, eggs, fish, grapes, mushrooms, nuts, pork, shellfish, strawberries, tomatoes, vegetables, wheat, yeast fermentation (alcohol)  <b>fungus</b>: dermatophytes, <b>candidiasis</b>  <b>infection</b>; dental, sinus, tonsillar, gallbladder, GI, GU  <b>inhalants</b>: pollens, mold, feather down, smoke, volatile chemicals, animal dander, spores, aerosols, dust  <b>injectants</b>: blood, insect stings, vaccines  <b>insects</b>: bedbugs, mites, fleas  <b>medications</b>: amidopyrine, antibiotics, <b>aspirin</b>, atropine, cocaine, codeine, ibuprofen, indomethacin, mefenamic acid, morphine, <b>penicillin</b>, phenylbutazone, pilocarpine, polymyxin B, quinine, sodium benzoate, sulindac, tartrazine (FDA yellow dye, No. 5), thiamin  <b>parasites</b>: amebiasis, <i>Ancylostoma</i>, <i>Ascaris</i>, <i>Echinococcus</i>, <i>Fasciola</i>, Filariae, giardiasis, malaria, <i>Schistosoma</i>, <i>Strongyloides</i>, <i>Trichinella</i>, <i>Toxocara</i>  <b>physical</b>: cold, heat, pressure, solar, vibration, water</p>

	<b>viral:</b> hepatitis B, infectious mononucleosis, coxsackie
urticaria & delayed eczema	acrylic acid, ammonium persulfate, benzocaine, castor bean, cinnamic aldehyde, endive, epoxy resin, latex, lemon perfume, lettuce, nickel, rhodium, platinum, rubber, sorbic acid, teak, vinyl pyridine
urticaria, cold	cryoglobulinemia, cryofibrinogenemia, cold hemolysins, syphilis, connective tissue d., hematopoietic malignancy
urticaria, contact	<p><b>animals:</b> arthropods, cockroach, dander, guinea pig, hair, jellyfish, saliva (dog, rat)</p> <p><b>antibiotics:</b> bacitracin, cephalosporin, chloramphenicol, gentamicin, neomycin, penicillin, rifamycin, streptomycin</p> <p><b>chemicals:</b> acrylic monomer, aliphatic polyamine, aminophenazone, aminothiazole, ammonia, ammonium persulfate, balsam of Peru, benzaldehyde, benzoic acid, benzophenone, butyl-hydroxytoluene, camphor, CaOCl<sub>2</sub>, cassia oil, cetyl alcohol, cinnamic acid, cinnamic aldehyde, clioquinol, cobalt chloride, diethyltoluamide, dimethylsulfoxide, diphenylcyclopropanone, epoxy resin, ethyl aminobenzoate, lanolin, lindane, formaldehyde, menthol, monoamylamine, NaOCl, parabens (ethyl, methyl), polyethylene glycol 3-400, polysorbate, phenyl mercuric propionate, <i>p</i>-aminodiphenylamine, platinum salts, salicylic acid, sorbic acid, stearyl alcohol, sulfur dioxide, terpinyl acetate, vanillin, vinyl pyridine, vitamin E oil, xylene</p> <p><b>medications:</b> <i>see medication section</i></p> <p><b>cosmetics:</b> nail polish, hair spray, perfumes</p> <p><b>foods:</b> apricot pit, apple, bean, beer, buckwheat flour, caraway seed, carrot, cucumber pickle, egg, endive, fish, flour, garlic, kiwi, lettuce, litchi, maize, mango, meat (chicken, lamb, turkey, beef, liver, pork), milk, mustard, peach, peanut, potato, rice, salami casing (mold), shellfish, soybean, spices, strawberry, tomato, watermelon</p> <p><b>other:</b> serum (horse, tetanus), rhus, rubber</p> <p><b>plants:</b> cactus, marine plants, nettles</p> <p><b>textiles:</b> silk, wool</p> <p><b>wood:</b> exotic woods</p>
urticaria, immediate (foods)	<p><b>fruits:</b> apple, kiwi, peach, strawberry</p> <p><b>meats:</b> beef, calf liver, lamb, pork, turkey</p> <p><b>miscellaneous:</b> beer, cheese, egg, flour, milk, salad dressing (sorbic acid)</p> <p><b>seafood:</b> codfish, lobster, prawns, shrimp</p> <p><b>vegetables:</b> bean, carrot, lettuce, onion, parsnip, potato, rice, tomato</p>
urticaria, non-allergic contact	acetic acid, alcohol, balsam of Peru, benzoic acid, caterpillar hair, cinnamic acid, cinnamic aldehyde, cobalt chloride, dimethyl sulfoxide, insect stings, methyl nicotinate, moths, nicotinic acid ester, sodium benzoate, sorbic acid
vegetables, eczematous dermatitis	artichoke, asparagus, carrot, celery, chicory, chives, corn, cucumber, endive, garlic, horseradish, leek, lettuce, onion
vitiligo, contact	<p><b>chemicals:</b> diisopropyl fluorophosphate, hydroquinone, mercaptoamines, <i>p</i>-cresol, <i>p</i>-isopropylcatechol, <i>p</i>-methylcatechol, <i>p</i>-nonylphenol, <i>p</i>-octylphenol, <i>p</i>-<i>tert</i>-amylphenol, <i>p</i>-<i>tert</i>-butylcatechol, <i>p</i>-<i>tert</i>-butylphenol, physostigmine, thio-TEPA</p> <p><b>other:</b> adhesive tape, germicidal phenolic detergents, latex glue, rubber products, shoes, wristwatch straps</p>