

Nails

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age-related changes	koilonychia, lamellar dystrophy, longitudinal pigment (blacks), onychodystrophy (10-66%), onychogryphosis, onychomadesis, onychorrhexis, pitting, pressure changes, red spotted lunula, slowed growth, Terry's nails, thickened plate, thinned plate, trachyonychia
alcoholism	clubbing, koilonychia, red lunulae, Terry's nails
alopecia areata	Beau's lines, brittle nails, koilonychia, leukonychia punctata, longitudinal ridging, onycholysis, onychomadesis, pits, red nails, spotted lunulae, thickened nails
angel wing deformity	deformity of nail; lichen planus
anonychia	absent of all or portion of nail; congenital, lichen planus
AZT	melanonychia
azure lunulae	agyria, Wilson's d.
bands; longitudinal pigmented	acrodermatitis enteropathica, Addison's d., AIDS, amyloid (primary), arsenic, carcinoma of breast, carpal tunnel s., Cushing's s., fluorosis, gastrointestinal disease, hemosiderosis, hyperbilirubinemia, hyperthyroidism, hypopituitarism irradiation, Laugier-Hunziger s., malnutrition, melanoma (metastatic), ochronosis, Peutz-Jeghers s., porphyria, pregnancy, syphilis (secondary)
bands; longitudinal white	Hailey-Hailey d.
beading	rheumatoid arthritis
Beau's lines	transverse depression of nail plate; alopecia areata, β -blockers, cytotoxic drugs, dysmenorrhea, MI, nutritional deficiency, post fever, psoriasis
beta-blockers	Beau's lines, digital ischemia, leukonychia (apparent), onychomadesis
blue nails	antimalarials, AZT, 5-flouracil, hematoma, Wilson's d.
brachydactyly	pseudohypoparathyroidism
brachyonychia	AD; greater width than length of nail plate AKA racquet nail
brittle nails	dehydration, elderly, irritant contact, lichen planus, Marinesco-Sj-gren s., nail polish, onychomycosis, psoriasis, retinoids
brown/black nails	AZT (esp. blacks), antimalarials, Peutz-Jeghers s.
canal	single wide groove from matrix pressure; myxoid cyst
chevron nail	V-shaped longitudinal ridging in children
chromonychia	abnormal nail color; external contactant, methemoglobinemia, systemic chemical absorption
clubbing	cuticle (Lovibond's) angle greater than 180 degrees due to fibrovascular hyperplasia; acrocyanosis, alcohol, amyloidosis (secondary), angiectasis, arsenic, <i>Ascaris</i> infection, beryllium, biliary cirrhosis, bronchitis, bronchiectasis, cardiopulmonary disease, CHF, chilblains, chronic myelogenous leukemia, Clouston's s., collagen vascular disease, congenital dysplasia, congenital heart d., citrullinemia, cretinism, diarrhea (chronic-sprue), cyanotic heart disease, emphysema, endocarditis (subacute bacterial), familial, fibrosarcoma, GI neoplasm, Gottron's s., Graves' d., hepatic cirrhosis, hereditary sclerosing poikiloderma, Hodgkin's d., hypertrophic hypervitaminosis A, hypothyroidism (thyroid acropathy), osteoarthropathy, idiopathic, Kaposi's sarcoma, leprosy, liver disease, lung abscess, lung cyst, lymphoma, Maffucci's s., mercury, mesoendothelioma, myxedema, myxoid tumor, neutropenia (chronic familial), pachydermoperiostosis, Peutz-Jeghers s., phosphorus, pneumonia, POEMS s., post-thyroidectomy, primary polycythemia, pseudotumor, pulmonary fibrosis, pulmonary neoplasm (<5%), Raynaud's d., rheumatic fever, scleroderma, SLE, sprue, syphilis, syringomyelia, tuberculosis, ulcerative colitis
clubbing-unilateral or unidigital	arterial aneurysm, brachial arteriovenous fistula, erythromelalgia, felon, gout (tophaceous), lymphangitis, median nerve injury, Pancoast's tumor, sarcoidosis, shoulder subluxation, trauma
Darier's d. (Darier-White d.)	distal V-shaped notch, red longitudinal subungual streaks, wedge-shaped subungual hyperkeratosis, white longitudinal subungual streaks
discoloration, topical agents that cause	black: phenol sulfate hydroquinone, red wine, silver nitrate blue: cyanide, oxalic acid, silver gray-blue: ammoniated mercury, mercuric chloride (with UV)

	<p>green: chlorophyll, copper salts</p> <p>orange-brown: anthralin, Arning's tincture, burnt sugar, chromium salts, chrysarobin, dinitrotoluene, dithranol, formaldehyde, fluturaldehyde, henna, hydroquinone, iodohydroxyquinolene, iron, mepacrine, nicotine, paraquat, pecan, picric acid, potassium permanganate, pyrogallol, resorcin, rivanol, roasted coffee, thermal injury, vioform, walnuts</p> <p>purple: gentian violet</p> <p>red: carbol-fuchin</p> <p>yellow: amphotericin, dinitro-orthocresol, dinubuton, fluorescein, hydrofluoric acid</p>
drugs	AZT, β -blockers, PUVA, retinoids
dyschromia	white/red longitudinal streaks; Darier-White d., SCC in situ proximal nail bed white, absent lunula; Terry's nail double white translucent bands; Muehrcke's lines distal brown; Lindsay's nail
dysplasia, toenails	popliteal web s.
dystrophy	amyloidosis, Clouston's s., exfoliative erythroderma, glucagonoma s., KID s., Olmsted's s., Rabson-Mendenhall s., Rothmund-Thompson s., Sabinas s., trauma, Zinsser-Cole-Engman s.
dystrophy, median	habit tic, mucous cyst
dystrophy, occupational	motor oils, permanent wave solutions, solvents, trauma
eggshell nails	dull gloss, brittle, easily split nail
friable	nail enamel use, onychomycosis (superficial)
groove, longitudinal	Schopf-Schulz-Passarge s. (<i>see median canaliform dystrophy of Heller</i>)
groove, oblique	Schopf-Schulz-Passarge s.
groove, transverse	AKA Beau's line
growth, decrease rate of nail	acute infection, aging, antimitotic drugs, cold climate, congestive heart failure, decreased circulation, females, hypothyroidism, paralysis, immobilization, lactation, malnutrition, measles, mumps, nighttime, peripheral neuropathy, pneumonia, smoking, systemic disease, yellow nail s.
growth, increase rate of nail	dominant hand, hyperpituitarism, hyperthyroidism, AV shunt, local repetitive trauma, longer digits, males, onycholysis, periungual inflammation, pregnancy, premenstrual, psoriasis, regeneration, warm climate
half and half nails	white proximal & brown distal nail (melanin); chronic renal failure, uremia AKA Lindsay's nails
hard nails	pachyonychia congenita
harlequin nail	distal yellow stained nail & proximal clear nail after abrupt smoking cessation
Heller's median canaliform dystrophy	split midline nail with proximal angled ridges esp. on thumbs
hemionychia	nail-patella s.
Hippocratic nail	onychogryphosis
hook nail	bowing of nail due to lack of support of the short bony phalanx
Hutchinson's sign	pigment leaching into nail fold; melanoma
hyperkeratosis, subungual	crusted scabies, Darier-White d., lichen planus, onychomycosis, PRP, psoriasis, Reiter's s.
hyperpigmentation	acrokeratosis verruciformis of Hopf, Laugier-Hunzinger s., panhypopituitarism
hyperpigmentation, chemotherapeutic agents	aminoglutethimide, bleomycin, busulfan, cisplatin, cyclophosphamide, cytarabine, dacarbazine, dactinomycin, daunorubicin, docetaxel, doxorubicin, etoposide, fluorouracil, hydroxyurea, idarubicin, ifosfamide, melphalan, methotrexate, mitomycin, mitoxantrone, tegafur, vincristine
ingrown	retinoids
koilonychia	alkalis & acids, alopecia areata, acanthosis nigricans, acromegaly, alopecia areata, anemia (chronic), Bantis s., cachexia, chondroectodermal dysplasia (Ellis-van Creveld s.), coronary artery disease, Darier's d., ectodermal dysplasia, familial, focal dermal hypoplasia, frostbite, Gottron's s., hemochromatosis, hypothyroidism, hypovitaminosis B2 & C, idiopathic, incontinentia pigmenti, iron deficiency , LEOPARD s., lichen planus, malnutrition, monilethrix, nail-patella s., Nezelof's s., normal children, occupational, onychomycosis, palmar

	hyperkeratosis, palmoplantar keratoderma, pellagra, petroleum products, Plummer-Vinson s., polycythemia vera, porphyria cutanea tarda, post-gastrectomy, primary amyloid, psoriasis, Raynaud's d., renal transplant, scleroderma, sideropenic anemia, steatocystoma multiplex, syphilis, thyrotoxicosis, thermal burns, thioglycolate contact (hairdressers) AKA spoon nail
leukonychia	white spots on nail plate due to matrix dysfunction; β -blockers, chilblains, dysmenorrhea, Hodgkin's d., idiopathic, leprosy, metastatic carcinoma, nephritis, psoriasis, tuberculosis longitudinal ; Darier's disease punctate ; minor trauma total ; inherited transverse ; systemic disorder
lichen planus	angel wing deformity, atrophy, onycholysis, onychomadesis, onychorrhexis, pterygium, shedding, subungual hyperkeratosis, subungual hyperpigmentation, thinning
Lindsey's nails	white proximal, red/brown distal nail; chronic renal failure AKA half & half nails
liver disease	brittleness, clubbing, flat nails, striations, watch-glass deformity, white bands, white nails
Lovibond's angle	cuticle angle; greater than 180° indicates clubbing (<i>see clubbing</i>)
lunula, absent	endocrine, collagen vascular reticuloendothelial d., normal variant
lunula, dyschromia	azure; hepatolenticular degeneration (Wilson's d.) blue; agyria red; heart failure, collagen vascular d. white; ischemia yellow; tetracycline
lunula, red spotted	alopecia areata
lunula, triangular	nail-patella s.
lunula, ulceration	GVH d.
median canaliform dystrophy of Heller	split midline nail with fir tree like appearance at backward angle; myxoid cyst
Mees' lines	paired narrow white transverse nail lines; antimony poisoning, arsenic exposure, cachectic state, carbon monoxide poisoning, carcinoid, cardiac insufficiency, childbirth, chemotherapy, crush injury, cryotherapy, endemic typhus, erythema multiforme, fluorosis, fracture, glomerulonephritis, gout, herpes zoster, Hodgkin's d., hyperalbuminemia, lead poisoning, leprosy, malaria, measles, menstruation, myocardial infarction, parathyroid insufficiency, pellagra, pneumonia, protein deficiency, psoriasis, renal failure, renal transplant, shock, sickle cell anemia, syphilis, systemic disease, thallium poisoning, tuberculosis, ulcerative proctitis, vitamin B12 deficiency, warm-reacting antibody immunohemolytic anemia, zinc deficiency
melanonychia	AZT, bleomycin, cyclophosphamide, ketoconazole, melanoma, minocycline, psoralen, PUVA
melanonychia, fungal	<i>aspergillus</i> , <i>scitolytium</i> , <i>scopulariopsis</i>
melanonychia, longitudinal multiple	Addison's d., AIDS, Cushing's s., folic acid deficiency, hyperthyroidism, vitamin B12 deficiency
melanonychia, transverse	cytotoxic drugs
micronychia	nail-patella s.,
Morton's toe	2 nd toe longer than great toe, may become injured by shoes
Muehrcke's nails, lines	paired white parallel transverse bands; hypoalbuminemia (2° to chemotherapy)
nail plate thickening	chronic trauma, Darier-White d., lichen planus, onychomycosis, pachyonychia congenita, psoriasis, PRP, scabies (crusted)
nicotine sign	yellow discoloration of distal fingers & fingernails; smokers
notch, distal	Darier's d.
oil drop sign	yellow-brown lesions under nail plate; psoriasis AKA salmon patch
onychochauxis	thickening, darkening, and irregular surface; diabetes mellitus, HIV, hypogonadism
onychodystrophy	alopecia areata, psoriasis
onychogryphosis	brown, thickened spiraled nail; footwear trauma, ichthyoses, impaired circulation, onychomycosis, poor hygiene, psoriasis AKA ram's horn nails

onychoheterotopia	ectopic nails
onycholysis	distal irregular separation of nail plate from nail bed; acrylic nail cement, allergic contact dermatitis , amyloid, anemia, bacteria, Bantu porphyria, bronchiectasis, carcinoma of lung, circulatory disorders, Cronkhite-Canada s., CTCL, dermatitis, diabetes mellitus, drug reaction, eczema, erythropoietic porphyria, erythropoietic protoporphyria, formaldehyde, fungus , Graves' d., histiocytosis X, ischemia (peripheral), leprosy, lichen planus, lupus erythematosus, neuritis, panhypopituitarism, pellagra, pemphigus vulgaris, plasticizers, pleural effusion, porphyria, pregnancy, pseudoporphyria of hemodialysis, psoriasis , pustular eruption of pregnancy, Raynaud's phenomenon, Reiter's s., scleroderma, Sezary s., SCC, syphilis, thyroid d. , trauma , Vitamin C deficiency, warts, yellow nail s.
onychomadesis	shedding of nail plate; alopecia areata, β -blockers, thrombosis
onychomycosis	proximal & proximal white superficial; HIV, immunosuppression immunosuppression, hyperhidrosis, diabetes mellitus, aging
onychomycosis	proximal subungual onychomycosis (HIV); <i>Trichophyton rubrum</i> , <i>T. megninii</i> white superficial onychomycosis; <i>T. mentagrophytes</i> nondermatophytes; <i>Candida</i> , <i>Scopulariopsis brevicaulis</i> , <i>Hendersonula toruloidea</i> (<i>Scytalidium dimidiatum</i>), <i>Aspergillus sydowii</i>
onychorrhaxis	longitudinal grooves & ridges of nail plate; alopecia areata, lichen planus, normal with aging (mild)
onychoschizia	metabolic acidosis
Osler's toe	onychogryphosis
paronychia, acute	infection, manicuring, retinoids, trauma
paronychia, chronic	biting, contactants, dermatitis, infection, psoriasis, sucking
parrot-beaking	widening onychocorneal band of finger nails; Unna-Thost d.
periungual infarcts	Wegener's granulomatosis
photo-onycholysis	mercaptopurine, PUVA
pincer (trumpet) nails	footwear pressure, idiopathic, osteoarthritis, psoriasis, subungual exostoses
pitting	alopecia areata , atopy, basal cell nevus s., chronic paronychia, Darier's d., eczema , fungal infection, lichen nitidus, lichen planus, normal variant, psoriasis , Reiter's d., reticulate acropigmentation of Kimura, rheumatoid arthritis, trauma
pseudo-Hutchinson's sign	discoloration of matrix in subungual hematoma
pseudopyogenic granuloma	retinoids
psoriasis	grooves, leukonychia, oil drop sign, onychodystrophy, onycholysis, pitting, salmon patch, splinter hemorrhage, spooning, subungual hyperkeratosis
pterygium	scarring nail bed separation from matrix; familial, idiopathic, lichen planus , progressive systemic sclerosis, Raynaud's d., Stevens-Johnson s., trauma, vascular insufficiency
Quinke's pulse	aortic insufficiency
racquet nail	AD; greater width than length of nail plate AKA brachyonychia
ram's horn	onychogryphosis
rheumatoid d.	atrophy, capillary dilation, proximal erythema
ridging	CIE, Darier's d., lichen planus, normal elderly, peripheral vascular d., RA
ridging; longitudinal	acrokeratosis verruciformis of Hopf, panhypopituitarism
salmon patch	yellow-brown subungual discoloration AKA oil drop sign; psoriasis
splinter hemorrhages	damaged longitudinal vessel of nail bed which exudes blood; dermatologic: alopecia mucinosa, Darier's d., eczema, exfoliative dermatitis, keratosis lichenoides chronica, mycosis fungoides, onychomatricoma, pemphigoid, pemphigus, pen-push purpura, psoriasis, pterygium, purpura, polyarteritis nodosa, pityriasis rubra pilaris, porphyria, Raynaud's d. infectious: bacterial endocarditis, fungi, HIV, onychomycosis, psittacosis, trichinosis medications: drug reaction, methoxsalen, tetracycline miscellaneous: altitude (high), irradiation, normal variants, radial artery puncture,

	radiodermatitis, trauma, Vitamin C deficiency systemic: amyloid, anemia, antigen-antibody complex disease, antiphospholipid coagulopathy , antiphospholipid s., Behçet's s., Buerger's d., cirrhosis, cryoglobulinemia, cystic fibrosis, diabetes mellitus (10%), dialysis, emboli (arterial), histiocytosis X, Letterer-Siwe d., leukemia, Osler-Weber-Rendu d., malignancy, mitral stenosis, multiple sclerosis, glomerulonephritis, heart disease, hemochromatosis, hepatitis, hypertension, hypoparathyroidism, illness (chronic), peptic ulcer d., pulmonary d., rheumatic fever, rheumatoid arthritis, sarcoid, scurvy, septicemia, SLE, thrombocytopenia, transplant patients, trauma, thyrotoxicosis, vasculitis, Wegener's granulomatosis
spoon nails	AKA koilonychia
telangiectasia, periungual	cystic fibrosis
telangiectasia, posterior nail fold	SLE, systemic sclerosis, dermatomyositis, RA, Raynaud's s.
tennis toe	Morton's toe distally injured by sporting events or small shoes
Terry's nails	white proximal, distal pink nail (onychodermal band); CHF, diabetes mellitus, liver cirrhosis, normal elderly
thickening	alopecia areata, congenital ectodermal defects, congenital malalignment of the great toe nails, Darier's d., Fischer-Jacobsen-Clouston s., fungal infection, pachyonychia congenita, pityriasis rubra pilaris, psoriasis, trauma
thinning	alopecia areata
trachyonychia	rough, dull, brittle nails with frayed edges; alopecia areata, chemical exposure, eczema, idiopathic, lichen planus, psoriasis, twenty nail dystrophy
trumpet nail	AKA pincer nail
tumors in children	angiokeratoma, digital fibroma, enchondromas of Maffucci's s., exostoses, Koenen's (angiofibromas of tuberous sclerosis), hemangiomas of blue rubber bleb nevus or Klippel-Trenaunay-Weber s., incontinentia pigmenti, juvenile xanthogranuloma, osteochondroma, pyogenic granuloma
turtle back nail	Fabry's d.
twenty nail dystrophy	see trachyonychia
warts, nail region	HPV-1, 2, 4
washboard nails	longitudinal depression affecting one or both thumb nails; habitually pushing back cuticle
watch glass deformity	mild clubbing with slight convex surface of nail; <i>see clubbing</i>
white	cirrhosis, cryoglobulinemia, Raynaud's s., selenium deficiency, systemic sclerosis
yellow	oxalic acid, <i>Pneumocystis</i> infection in AIDS, smoking, Touraine-Solente-Gol— s.
yellow nail s.	yellow nails, absent cuticles, increased curvature, diminished lunulae, onycholysis, slowed growth; bronchiectasis, carcinoma of larynx, chronic bronchitis, chronic lymphedema, pulmonary d., rheumatoid arthritis, sinusitis, thyroid disease