DISORDER	TYPES	CAUSES		
	Life-long Disorders: Childhood to A			
Greasy, scaly patches on the scalp or				
Seborrheic	skin in babies as "Cradle cap". Flare	Caused by a fungi Malassezia on		
dermatitis	up as swollen greasy white, reddish or	skin due to excess oil or a		
	yellow crust on skin surface in adults.	problematic immune system. The		
	May persist lifelong or disappear	exact cause is unclear.		
	later.			
	Thick bumpy itchy rashes on scalp,			
Eczema	face, neck, elbows, wrists to legs in			
	childhood or adults. Either atopic or	Causes unknown.		
	contact dermatitis. More noticeable in			
	lighter skin as it causes discoloration.			
	Red circular patches or ring on skin,	Complex autoimmune disorder		
	sunburn-type painful swollen rashes	with pain and inflammation.		
Lupus	on cheeks to nose with fever, fatigue,	African American are more		
Lupus	headaches and stiff swollen joints.	susceptible.		
	Mostly in women, and darker skin.	susception		
	Common moles are harmless, maybe			
	present throughout the body, on	Growth from bunch point on skin		
Moles	average, 40 in a person. Change in	cells with nearby tissue.		
	appearance, size, or color may lead to			
	cancer.			
	Itchy red to pink patches of variable			
	size and severity, with white to violet			
	scale. Colour grey to dark brown,			
Psoriasis	have 5 types: <i>Plaque</i> : thick patches			
	on skin; <i>Pustular</i> : red patch covered	Autoimmune disorder.		
	by skin; <i>Erythrodermic</i> : severely			
	burned areas; Inverse: shiny rash in			
	armpits around genitals; Guttate: tiny			
	spots on scalp, limb and face.			
	Red to dark face with warm skin, have			
	4 subtypes: <i>erythematotelan giectatic</i>			
	rosacea: reddish, flushing with	Exact cause is unknown, but may		
Rosacea	visible blood vessels; Ocular	be due to overactive immunity,		
	rosacea: red irritating eye with	heredity or environmental		
	swollen eyelids; Papulopustular	factors.		
	rosacea: Swelled irregular, breakout			
	acne; Phymatous rosacea: thick skin			
	with a bumpy texture.			
	Loss of pigmentation, appear as white	Look of aufficient surlinger (		
Vitiligo	patches in sunlight exposed areas.	Lack of sufficient melanocytes		
-	May discolour hair. No cure, but	that produce the skin pigment		
	treatment by light, topical or	melanin.		
	alternative therapy.			
Γ	<b>Temporary disorder</b> s, resolved with Time or Treatment			
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## Table S1. Common skin disorders of human with their types and causes.

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Acne	Widespread conditions with pustules or pimples pus-filled at tips. Papules appear as raised bumps, painful nodules/lumps below the skin surface	Infection in hair follicles. Dark skin people develop inflamed hyperpigmented dark spots.
Cold Sore	Reddish fluid-filled blister on upper part of the body around face and mouth. Painful, delicate, itchiness or burning sensation. Lasts for 15 days or may return periodically. Treatment can reduce outbreaks.	Cold sores are caused by the Herpes Simplex virus, usually HSV-1.
Candidiasis	Overgrowth of a fungus on skin called cutaneous Candidiasis or Moniliasis. Irritated lesions or pustules on skin- folds, armpit, groin or face. Increased skin hygiene and avoid antibiotic overuse help to prevent candidiasis.	Caused by the yeast <i>Candida</i> albicans.
Hives	Itchy, raised welts in clusters or in one part, pinkish or reddish.	Allergic condition due to stress, illness, friction of tight clothes.
Warts	Contagious colour/darker bumps on the skin of hands, feet, and joints.	Human Papillomavirus or HPV. Subside or remove.
Fungal Nail Infection	Affects toenails, nails with crumbled edges and surfaces, have whitish- yellow scaling and flaking.	Fungus overgrowth around nails.
Atopic dermatitis	Thick bumpy itchy rashes, atopic more noticeable in lighter skin, similar to Eczema	Environmental and other factors including allergens, dry-cold weather, damp, house dust, mites, fur of pets, pollen, moulds, cow-milk, eggs, peanuts, soya, wheat, wool, synthetic fabrics.
Athlete`s foot	Itchy, dry, peeling skin, with blisters and bleeding, pale skin under the foot or between the toes, soggy, cracked, or scaly.	Fungal infection from warm, damp weather, including sneakers.
Skin cancer	Uncontrolled life-threatening growth of the darker skin cells having excess melanin triggered by harmful sun rays. Types includes: <i>Basal cell</i> : On the neck, arms or head. Round pink patch or bump in lighter skin; or black to brown mole in dark skin; <i>Squamous cell</i> : 2 <sup>nd</sup> common, scaly-dry patches or actinic keratoses. <i>Melanoma</i> : Most serious, spread easily to other parts, may develop from a mole or pigmented area, toenails, or fingernails.	May occur after prolonged repeated sun exposure.
	<b>Disorders of the deeper layer</b> of	of Skin
Carbuncle	Irritated swelled red lump with white or yellow center under the skin. Filled with pus, crust over lump or ooze-out, with fever, tiredness and itchiness.	<i>Staphylococcus aureus</i> infected hair follicles.

~	Develops quickly, and spread rapidly	
Cellulitis	all over the body. Painful swollen red,	Bacterial infection in the deeper
	hot areas in legs, but occur in any part.	layers of the skin
~	Severe form may be life-threatening	
Condi	tions develop during specific time of L	Life: Children/Adults
	Bump or small scratches on head,	
Haemangiomas	neck, or face of infants; bulge out.	Harmless tumors.
	May disappear with age.	
D	Most common in children (5-15) and	Rare inflammatory disorder
Dermatomyositis	adults of 40-60 years. Red-to-purple	African Americans are three
	colour rash on face, chest, elbows,	times more vulnerable than
	muscle, nails; swelling and weakness.	white.
	Commonest contagious bacterial	Caused by the Stankylosessur
Impotio	infection in young children with itchy sores and blisters around face and	Caused by the <i>Staphylococcus</i> <i>aureus</i> and Group A
Impetigo		1
	mouth. Burst sores may leave a crust,	Streptococcus Sp.
	that dries into a red mark. Young babies are vulnerable. Brown	
	to red rash all over body, watery eyes,	Highly infectious, airborne virus
Measles	running nose, cough, fever, reddish	disease caused by a single-
Wiedsies	spots in mouth. Preventable by	stranded, enveloped RNA virus:
	vaccination to susceptible babies, and	Measles or Morbilli virus of
	pregnant ladies via Measles, Mumps,	Paramyxoviridae. Humans are
	Rubella (MMR) vaccine.	the only natural hosts.
	Infected in childhood, virus carried in	
	nerves or muco-cutaneous body parts.	Caused by the Varicella-zoster
Shingles or Herpes	Reactivate in older people to cause	virus, that causes chickenpox.
zoster	shingles. Initiate by pain and develop	
	blister like reddish rash within 48h.	
	Harmless bumps develop with age,	
Seborrheic	black to dark brown or yellow bumpy	
keratosis	patch on skin. Indistinguishable with	Benign proliferation of immature
	skin cancer. Removable using	keratinocytes.
	cryotherapy or electrosurgery.	-
	Flat over-pigmented spots develop	
	from long sun exposure. Dark skin	
Age Spot	people develop age spots due to	Caused by overactive pigment cells.
inge oper	production of excess melanin	
	triggered by environmental factors,	
	pimple, wound, hormonal changes, or	
	skin care product.	
	Rare Disorders	
	A collection of 20 disorders: -	Hereditary disorder, develop due
Ichthyosis	<i>Ichthyosis vulgaris</i> (1 in 250): white	to moisture sealing or some
	grey, brown scales in children; X-	proteins altered by genetic
	linked recessive ichthyosis (1 in	change, and acquired in adults
	1,000).	<i>C</i> ,
TT. I	Genetic mutation. Extremely thick,	Inherited via autosomal recessive
Harlequin	rigid deep cracked skin, restricted in	genes, with 25% probability of a
Ichthyosis	arm and leg movements in new-born.	

	Babies may suffer breathing problem or respiratory failure (1 in 5000000).	child to acquire if both parents are carriers.
Scaled skin syndrome	Staphylococcal scalded skin syndrome (SSSS), with blistered outer layers and peel, due to exfoliative toxin or Ritter's illness (56 per 100,000).	Caused by <i>S. aureus.</i> Asymptomatic in 40% adults (on skin or mucous membranes).