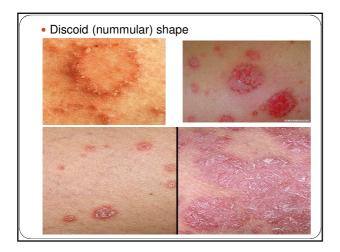
Bas	ic lesions in
De	rmatology
	Name of the Doctor :- Dr. Shivi Nijhawan

Describing skin lesions in following points-

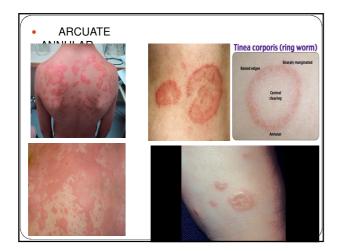
- Size
- Shape
- Symmetry
- Surface area
- Type of lesion
- Colour and pigmentation
- Distribution over body surface

Shape	hape Description Examp	
Discoid (nummular)	A filled circle	Discoid eczema, psoriasis
Petaloid	Discoid lesions which have merged together	Seborrhoeic dermatitis o trunk
Arcuate	Incomplete circles	Urticaria
Annular	Open circles with different central skin compared with rim	Tinea corporis, granuloma annulare
Polycyclic	Circles which have merged together	Psoriasis
polyarteritis nodo		Erythema ab igne, polyarteritis nodosa, microvascular occlusion disorders
Reticulate	Fine lace-like pattern	Oral lichen planus
Target	Multiple concentric rings	Erythema multiforme

Stellate	Star-shaped	Lesions of meningococcal septicaemia
Digitate	Finger-shaped	Chronic superficial dermatosis
Linear	Straight line	Koebner reaction to a scratch in lichen planus or psoriasis
Serpiginous	Snake-line	Cutaneous larva migrans
Whorled	Swiriling pattern	Epidermal naevi, late- stage incontinentia pigmenti.



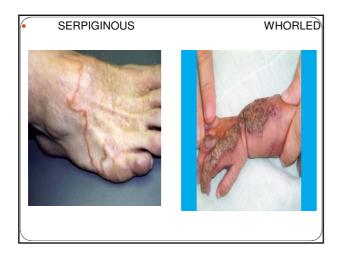


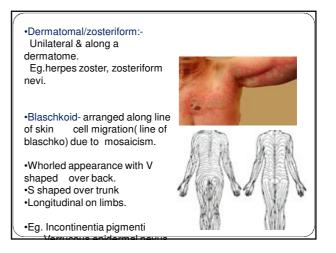












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PATTERN OF LESIONS

Useful terminology to describe patterns include :-

- AGMINATE- clustered, eg. acne agminota, agminate nevi.
- GROUPED/ CLUSTER- characteristic of some infection(Eg. Herpetic vesicles, molluscum contagiosum, plane warts), flea bites
- SATELLITE- a cluster of lesions around a larger central lesion. Eg.linear IgA diseases/ chronic bullous diseases of childhood.
- CONFLUENT- lesion merging together, locally or

• SCATTERED, DISSEMINATED & EXANTHEMATOUS- eg. Many drug eruptions, viral exanthemata.

- · SPREAD- patterns of sparing like-
- > Island of sparing...orange-red erythema of pityriasis rubra pilaris.
- Sparing within skin folds in papuloerythroderma of ofuji.

SYMMETRICAL- often endogenous eq. Psoriasi

Areas shielded by clothing/ wristwatch spared in photosenstivity.

COLOUR OF SKIN AND OF LESIONS

• Normal skin colour is due to melanin, phaeomelanin, haemoglobin, oxyhaemoglobin and carotenoids.

Melanin eg. Some naevi, melanoma.
Deeply situated blood/melanin eg.angiomas, blue naveus
Vascular lesions eg. angiomas
Lichen planus
Psoriasis
morphoea
Vitiligo, naevus anamicus
Hemosiderin eg. Lichen aureus. Inflammatory disorders eg. Pityriasis rubra pilaris

The lesions of the skin					
Raised	Depressed	Flat	Surface change	Fluid filled	Vascular
Papule	Erosion	Macule	Scale	Vesicle	Purpura
Plaque	Ulcer	Patch	Crust	Bulla	Telangiectasia
Nodule	Atrophy	Erythema	Excoriation	Pustule	Infarct
Cyst	Poikiloderm a	Erythroderma	Fissure	Furuncle	
Wheal	Sinus		Lichenification	Abscess	
Scar	Striae		kertoderma		
comedo	Burrow		Eschar		
Horn	Sclerosis				
Calcinos is					

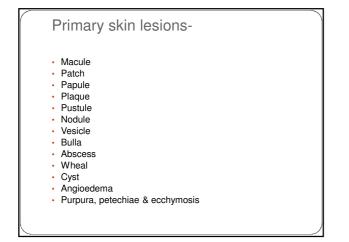
Types of skin lesions categorized as-

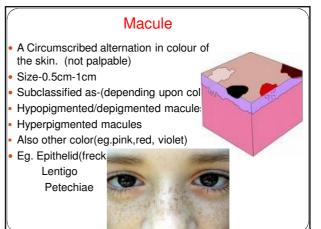
- Primary
- Secondary
- Special

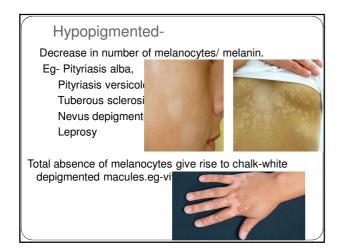
• **Primary lesions-** basic reaction patterns of skin with definite morphology or native appearance of skin lesions (such as papule)

• Secondary lesions- reflect the effects of exogenous factors or temporal changes (such as "scales" or "crusts") that evolve during the course of a skin disease.

• Special skin lesions - specific for certain disease.





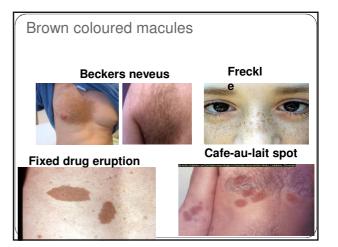


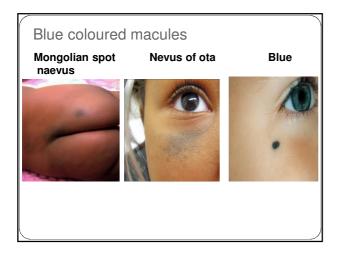


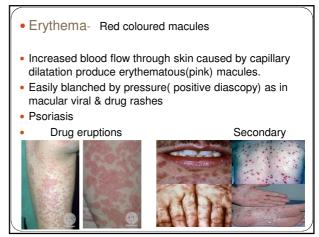
- Due to hypermelanocytosis/ hypermelanosis in skin.
- Increased melanin in epidermis (Number of melanocyte is fixed)- in freckles & melasma give brown to black color
- Increased number of melanocytes seen in- lentigo simplex & lentigo maligna.



- Melanin present in dermis produce bluish-grey tinge eg. Mongolian spot, nevus of ota, cellular blue nevus.
- Postinflammatory hyperpigmentation have both epidermal & dermal component







Patch

- A large macule is called patch (>1cm in size).
- Often hypo-or hyperpigmented.
- Also other colors(eg. Blue,violet)
- Eg :- Vitiligo, Melasma, Dermal melanocytosis(Mongolian spot)





Papule

- A circumscribed palpable elevation, less than 0.5cm in diameter.
- Elevation due to increased thickness of epidermis or cells within dermis.
- Examination includeshape,color,umblication,distribution, configuration,and tenderness.



Plaque

- An elevated area of skin, usually defined as 2cm or more in diameter.
- Formed by extension or coalescence of either papules (in psoriasis) or nodules(in granuloma annulare)
- May have secondary changes(eg.scale, crust)
- Primarily epidermal- psoriasis, lichen simplex chronicus,





• Dermal – Granuloma annulare, Sarcoidosis, Hypertrophic scar-Keloid, Morphea

Granuloma annulare







- A visible accumulation of free pus.
- Occur within pilosebaceous follicle or sweat duct.
- Pustules seen in- ACNE, Folliculitis, Scabies





Nodule

- A solid mass in the skin, observed as an elevation or can be Palpable.
- greater than 0.5 cm in diameter.
- It involve epidermis & dermis, dermis & subcutis, or subcutis alone.
- Consist of fluid, other extracellular material (eg. Amyloid), inflammatory or neoplastic
- Eg. Epidermal inclusion cyst
- o Lipoma
- Neurofibromas
- Panniculitis, eg.Erythema No
- Lymphoma cutis

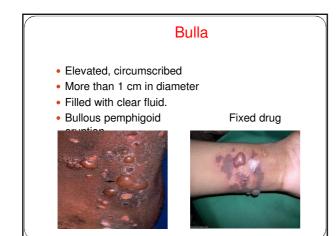


Vesicle

- Visible accumulations of clear fluid within or beneath epidermis.
- Small (less than 0.5cm in diameter) and often grouped.
- May become pustular, umbilicated or an erosion.
- Eg. Herpex simplex, varicella or zoster, dermatitis herpetiformis, dyshidrotic eczema.

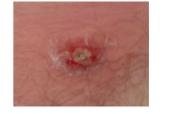






Abscess

- A localized collection of pus deep in dermis or subcutaneous tissue.
- Due to deep seated location, pus may not be visible on skin surface but show sign of Inflammation.



Whel(hives)

- A transient area of dermal and hypodermal oedema, white, compressible and usually evanescent.
- · Characteristic lesion of urticaria.
- It result from transient vascular reaction in upper dermis in which there is both vasodilation & increased permeability of capillaries give rise to edema.
- Borders are sharpe but unstable, & tends to change within hours Shapes-may vary, being round, oval, geographic, serpiginous, annular. Size-range cm

- Stroking of normal skin may produce whel in quarter of normal individuals-phenomenon k/s dermographism.
- Wheals of cholinergic urticaria are very tiny & multiple in number, induced on sweating.

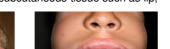


Cyst

- Any closed cavity or sac (normal or abnormal) with an epithelial, endothelial or membranous lining & containing fluid or semisolid material.
- Resembles spherical nodule MUCOUS **RETENTION CYST**
- Soft/doughy, hard or fluctua
- m/c cutaneous cysts are-
- 1.Epidermal cysts
- (keratinous cysts)
- 2.Pilar cysts (originate from hair follicle)





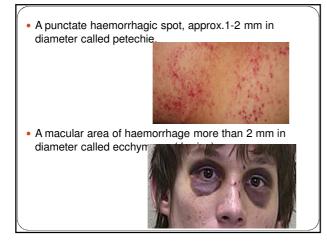


- · Persists for longer time and associated with dull aching pain.
- Laryngeal edema occur as part of anaphylactic

иιραια, ρειεςπιε α ecchymoses

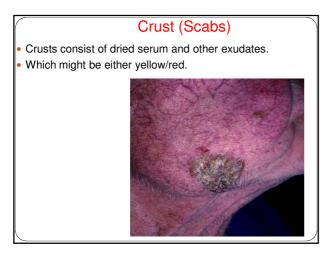
- Extravasation of red cells in dermis produce pinpoint purpuric lesions which donot blanch (negative diascopy).
- Purpuric lesions may be palpable or nonpalpable
- Eg. Senile purpura, Henoch-schonlein purpura, Thrombocytopenic purpura, Vasculitis

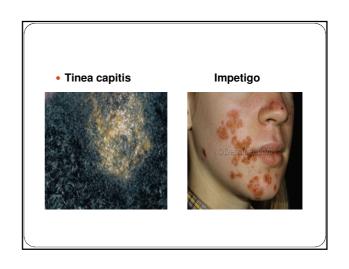




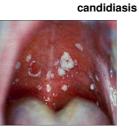
Secondary lesions

- Crust
- Erosion
- Excoriation
- Ulcer
- Scar
- Scale





EROSION • A focal loss of epidermis, which heals without scarring. It commonly follows a blister. Eg:- Tinea pedis, Candidiasis **Tinea pedis**



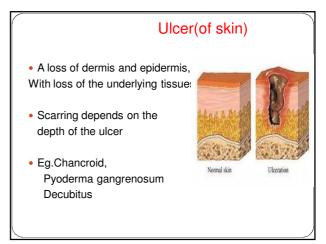
Excoriation

- · Loss of skin substance, specifically produced by scratching.
- Characteristically linear.
- Seen in pruritic disordersatopic dermatitis & scabies.



· Lichenification is a plaque of thickened skin with accentuated skin markings caused by constant rubbing, eg in area of lichen planus.





Examination of ulcer

Inspection

- Single/multiple
- Site
 Shape
- Size
- Margin: well defined
- Edge: punched-out, sloping, inverted Depth: in mm and up to what tissue plane
 Floor:

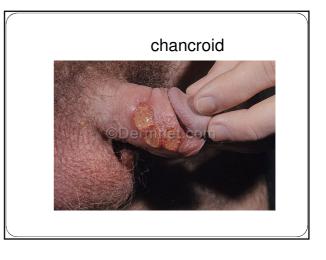
- Floor:

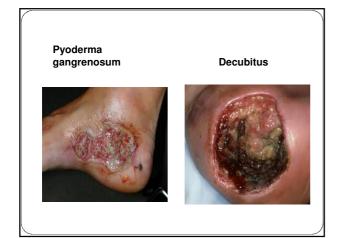
 granulation tissue, slough tissue, clean
 Pale/pink colour
 Bone, ligament, tendon
 discharge: serous, bloody, purulent
 Skin surrounding the ulcer
 Inflammatory changes: redness, swelling

Palpation :-

- Local rise of temperature & tenderness.
- Exact dimensions-
- depth
- · Induration /thickness of edge
- In chronic ulcer
- Base
- -Fixicity to undrlying structure
- · Bleeding on touch
- Malignant or chronic ulcer.

Types of edge	Description	Condition
Sloping	Shallow ulcer with healthy granulation tisssue	Venous ulcer
Punched-out	Full thickness loss of tissue from edges	Vasculitic / arterial ulcers, tertiary syphilis
Undermined	Destruction of subcutaneous tissue more than skin	Tuberculous ulcers, pressure sores
Everted / exophytic	Growth of tissue over & beyond edge.	SCC
Rolled	Slowly growing edges with rolled out appearance	Basal cell epithelioma









Scale

- A flat plate or flake of stratum corneum.
- Eg. Psoriasis, Icthyosis

Types of scales		
Types of scale	Description	Typical condition
Collarette scale	Fine ,peripherally attached & centrally detached scale at edge of inflammatory lesion.	Pityriasis rosea Miliaria Subsiding lesions of furuncle
Furfuraceous scale (branny)/ pityriasiform scales	Inconspicuous loose scales made visible by scratching (scratch sign)	Pityriasis versicolor
Ichthyosiform scale	Large and polygonal fish-like scales	Ichthyosis vulgaris
Micaceous scale	Silvery-white scale	Psoriasis
Limpet-like	Conical heaped up mound of adherent scale	Reiter's syndrome

Lamellar/plate- like scale(armor plate)	Large, polygonal,thick,rigid grey/brown firmly adherent scales	Lamellar ichthyosis
Trailing scale	Annular erythema with advancing flat/ elevated border & trailing scale at inner border with central area flattening	Erythema annularis centrifugum
Mica-like/ wafer- like scale	Thin adherent mica-like scale attached at center of lichenoid firm reddish brown papule & free at periphery	Pityriasis lichenoides chronica
Double-edged scale	Annular or polycyclic, flat patch with incomplet avancing double edge of peeling sccale.	Ichthyosis linmearis circumflexa (ILC), Netherton syndrome
Cornflake scale	Scale separates from lesions, leaving non-exudative red base	Pemphigus foliaceous, flegel's disease
Hystrix-like scale	Porcupine-like muddy brown adherent skin covering whole body	Ichthyosis hystrix
Coat of armor	Rigid, taut, yellow-brown	Harlequin ichthyosis



Special lesions

- Burrow
- Comedone
- Milium
- Telangiectasia
- Target lesion
- Calcinosis

Burrow

A small tunnel in the skin that houses a parasite.
Such as scabies acarus.
It is a serpentine tunnel made by scabies mite in Stratum corneum.

•The open end of the tunnel has a papule



Comedone

•A plug of keratin and sebum in a dialated pilosebaceous orifice.

•It is of two types: 1) Open comedone (black head)

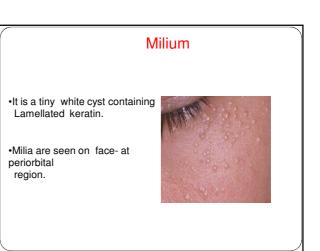
2) Closed comedone (white head)



- Open comedone(blackhead)- impaction occurs in a dilated follicular orifice, visible as a black keratinous mass.
- Resulting from oxidation of se



 Closed comedone(whitehead)- follicular opening are closed & lesions appear as tir color than surrounding skin.



Telengiectasia

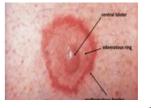
• It is visible dilataion of capillaries of skin which blanch on pressure.



 Eg:- Dermatomyositis, Systemic sclerosis

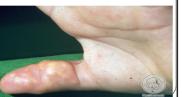
Target lesion

- These are less than 3 cm in diameter.
- Have three or more zones:- usually a central area of dusky erythema or purpura.
- A middle palar zone of oedema
- An outer ring of erythema with well-defined edge.
- Eg.erythema multiforme



Calcinosis

- Occur due deposition of calcium in dermis or subcutaneous tissue.
- Present as chalky white hard papules, plaques or nodules.
- Primary calcinosis- occurring as a part of an underlying metabolic abnormality
- Secondary calcinosisinflammation or within epidermal cysts.



Sinus

- A cavity or track with blind ending.
- Pus filled or keratin may drain out of sinus onto skin surface.
- Eg. Hidradenitis suppurativa.

