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Derma Clinical Notes Schootes

Page | 1

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DERMA CLINICAL NOTES SDNOTES

Page | 2

S. No	Торіс
0	BASIC TERMINOLOGIES
1	Acne Vulgaris
2	Vitiligo
3	Eczema
4	Psoriasis
5	Leprosy
6	Syphilis
7 B .	Non – syphilis A S B B B B B B B B B B B B B B B B B B
8	Vesiculobullous
9	Cutaneous Manifestations of HIV
10	EOP – ORAL VIVA EXAM

BASIC DERMATOLOGICAL TERMINOLOGIES

1. MACULE

Page | 3

- A flat, circumscribed area of skin discoloration.
- No elevation or depression felt on palpation.
- Size usually <1 cm.
- Caused by change in melanin, hemoglobin, or pigment deposition.
- **Examples:** Freckles, vitiligo patch, lentigo.

2. PATCH

- Similar to macule but larger than 1 cm.
- Flat lesion with color change but **no surface change**.
- Examples: Vitiligo, café-au-lait spots.

3. PAPULE

- Small, solid, raised lesion.
- Osuany < 1 cm in diameter.
 May arise from epidermis, dermis, or both.
 Examples: Light 1
- Examples: Lichen planus, acne papule, wart.

4. NODULE

- Solid, palpable, deep-seated lesion extending into the dermis or subcutis.
- Usually >1 cm.
- Has **depth and volume** compared to papule.
- Examples: Nodular acne, dermatofibroma.

5. TUBERCLE

- Firm, circumscribed, palpable lesion in dermis.
- Size between 0.5 1 cm.
- Often leads to **scarring** on healing.
- **Example:** Lupus vulgaris (tuberculous skin lesion).

Page | 4

6. PLAQUE

- Flat-topped, elevated lesion.
- Formed by coalescence of papules.
- Diameter usually >1 cm.
- Examples: Psoriasis, lichen planus (large lesions).

7. PUSTULE

- Superficial, raised, pus-filled lesion.
- Indicates infection or inflammation.
- May arise from hair follicle (follicular pustule).
- Examples: Acne pustule, impetigo.

TES

8. VESICLE

- Small, fluid-filled, translucent blister.
- Contains clear serous fluid.
- Size < 0.5 cm.
- **Examples:** Chickenpox, herpes simplex.

9. BULLA (BLISTER)

- Large vesicle with diameter >0.5 cm.
- May contain serous or hemorrhagic fluid.
- Roof may be thin and rupture easily.
- Examples: Pemphigus vulgaris, bullous pemphigoid.

10. COMEDONE

- **Primary lesion in acne** due to follicular blockage by keratin and sebum.
- **Open comedone:** "Blackhead" dark due to oxidized keratin.
- Closed comedone: "Whitehead" covered by thin epithelium.
- Non-inflammatory lesion.

Page | 5

11. CYST

- Closed sac-like structure with epithelial lining.
- Contains fluid, semi-fluid, or keratinous material.
- Located in dermis or subcutaneous tissue.
- Examples: Epidermoid cyst, sebaceous cyst.

12. WHEAL

- Transient, edematous, raised lesion.
- Caused by **dermal edema** due to histamine release.
- Lesions are itchy, evanescent, and migrate.
- Example: Urticaria.



13. SCALE

- Flakes of keratin that separate from the surface.
- Indicates abnormal keratinization or desquamation.

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• Examples: Psoriasis (silvery scales), pityriasis rosea.

14. CRUST

- **Dried exudate** (serum, pus, or blood) on the surface.
- May form after vesicle or pustule ruptures.
- **Examples:** Impetigo (honey-colored crusts).

15. EROSION

- Superficial loss of epidermis only.
- Heals without scarring.
- Occurs after rupture of vesicle or pustule.
- Example: Herpes simplex after vesicle rupture.

Page | 6

16. ULCER

- Loss of epidermis and part of dermis.
- Heals with scar formation.
- May have discharge or slough.
- Examples: Syphilitic chancre, venous ulcer.

17. FISSURE

- Linear crack in skin extending into dermis.
- Caused by dryness or thickened skin.
- Examples: Angular cheilitis, heel fissures.

TES

18. SCAR (CICATRIX) BAMS MBBS

- **Fibrous tissue** replacing damaged dermis after healing.
- Types:
 - o **Atrophic:** Depressed (e.g., acne scar)
 - o **Hypertrophic:** Raised but within boundary
 - o **Keloid:** Extends beyond wound margin

19. LICHENIFICATION

- Thickened skin with accentuated skin markings.
- Due to chronic scratching or rubbing.
- Example: Lichen simplex chronicus.

20. EXCORIATION

- Linear abrasion caused by scratching.
- May lead to secondary infection.
- Examples: Pruritic dermatoses.

Page | 7

21. ATROPHY

- Thinning of epidermis, dermis, or subcutaneous tissue.
- Skin appears thin, wrinkled, shiny.
- Examples: Senile atrophy, long-term steroid use.

22. HYPERKERATOSIS

- Thickening of stratum corneum (outermost epidermal layer).
- Seen in chronic friction or keratinization disorders.
- Examples: Callus, psoriasis.

23. TELANGIECTASIA

- Visible dilated superficial blood vessels.
- Seen in rosacea, chronic sun exposure, corticosteroid use.

24. SINUS

- **Abnormal tract** from deeper tissue to skin surface.
- Lined by granulation tissue, may discharge pus.
- Example: Acne conglobata, pilonidal sinus.

25. FISTULA

- Abnormal communication between two epithelial-lined surfaces.
- Example: Orocutaneous fistula, anal fistula.

ACNE VULGARIS

Definition

Page | 8

Acne vulgaris is a **chronic inflammatory disease of the pilosebaceous unit** (hair follicle and sebaceous gland) characterized by comedones, papules, pustules, nodules, and sometimes cysts.

Epidemiology

- Common in adolescents and young adults.
- Affects both sexes; males often have more severe disease.
- Peak incidence: 13–18 years.
- Can persist into adulthood (especially in females).

Etiopathogenesis

Factor	Description
1. Increased Sebum Production	Due to androgen stimulation during puberty.
	Increased keratinocyte proliferation and abnormal desquamation lead to comedone formation.
3. Cutibacterium acnes (formerly Propionibacterium acnes)	Bacterial colonization in blocked follicles causes inflammation.
4. Inflammation	Triggered by bacterial lipases, cytokines, and immune response.

Types of Acne Lesions

Type	Description	Example
Non-inflammatory	Comedones	Open (blackhead), Closed (whitehead)
Inflammatory	Papules, pustules, nodules, cysts	Red, tender lesions
Severe/Complicated	Acne conglobata, acne fulminans	Nodulocystic or ulcerative forms

Grading of Acne

Grade	Lesions	Description
I	Comedonal	Blackheads and whiteheads only
II	Papulopustular	Inflammatory papules and pustules
III	Nodulocystic	Deep, painful nodules and cysts
IV	Confluent/Nodular	Severe scarring and sinus formation

Page | 9

Risk Factors

Category	Examples	
Hormonal	Puberty, menstrual irregularities, PCOS, androgens	
Genetic	Family history of acne	
Lifestyle	High-glycemic diet, dairy intake, stress, cosmetics ("pomade acne")	
Drugs	Steroids, lithium, isoniazid, phenytoin	
Occupational	Exposure to oils, tar, chlorinated hydrocarbons	

Clinical Features

- Sites: Face, chest, shoulders, back.
- Lesions: Comedones (open/closed), papules, pustules, nodules, cysts.
- Post-acne sequelae: Pigmentation, scarring (atrophic, hypertrophic, keloidal).

Investigations

Usually not required.

If indicated:

- Hormonal profile: For adult female acne or resistant cases.
- Culture: For recurrent/infective lesions.

Management

1. General Measures

- Gentle cleansing with mild soap or pH-balanced face wash.
- Avoid picking/squeezing lesions.
- Non-comedogenic moisturizers and sunscreens.
- Balanced diet (avoid high sugar/dairy).

Page | 1

2. Topical Therapy

Drug/Class	Examples	Mechanism / Use
Retinoids	Tretinoin, adapalene, tazarotene	Normalize keratinization, comedolytic
Antibiotics	Clindamycin, erythromycin	Reduce bacterial load and inflammation
Benzoyl Peroxide		Antibacterial, prevents resistance
Azelaic Acid	_	Comedolytic and anti-inflammatory

Combination therapy (e.g., retinoid + antibiotic or benzoyl peroxide) is preferred.

3. Systemic Therapy

B C B A M C M B B C			
Drug/Class	Indication	Notes	
Antibiotics		Doxycycline, minocycline (limit to 3–6 months)	
Hormonal Therapy	Hemalec With normonal ache	OCPs (cyproterone acetate), spironolactone	
Isotretinoin	Severe nodulocystic acne	Teratogenic, monitor LFTs & lipids	
Corticosteroids	Acne fulminans	Short course only	

4. Procedural Treatments

- Comedone extraction
- Chemical peels (salicylic/glycolic acid)
- Laser or light therapy
- Scar management: Microneedling, subcision, laser resurfacing

Complications

- Post-inflammatory hyperpigmentation
- Scarring (atrophic, hypertrophic, keloidal)
- Psychosocial distress

Page | 1

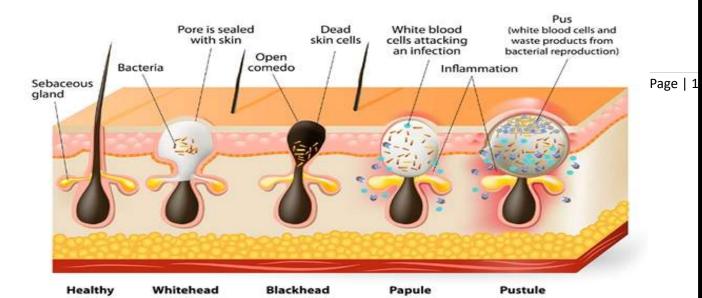
Prognosis

- Generally good with early treatment.
- May relapse; maintenance therapy needed.

Key Points for Clinics

- Identify lesion types and grades.
- Assess for scarring and pigmentation.
- Choose appropriate therapy according to grade.
- Educate patient on adherence and skincare.







a. Pustules



b. Nodules



c. Cysts



Page | 1















FOR NOTES -

Page | 1

SDNOTES B.Sc BAMS MBBS

VITILIGO

Definition Page | 1

Vitiligo is an **acquired**, **idiopathic depigmentary disorder** of the skin and mucous membranes, characterized by **well-defined milky white macules and patches** due to loss of functional melanocytes.

Epidemiology

- Affects about **0.5–2%** of the population worldwide.
- No sex predilection.
- Commonly starts before 20 years of age.
- Often associated with autoimmune diseases.

Etiopathogenesis

Vitiligo results from **destruction or functional loss of melanocytes** in the epidermis. Multiple theories explain its cause:

Theory	Description	
Autoimmune theory	Most accepted; autoantibodies and cytotoxic T-cells destroy melanocytes.	
Neurogenic theory	Nerve endings release toxic substances affecting melanocytes.	
III	Defective melanin synthesis leads to accumulation of toxic intermediates that destroy melanocytes.	
Genetic factors	20–30% cases show family history; polygenic inheritance pattern.	

Risk Factors / Associations

Category	Examples	
Genetic	Family history of vitiligo	
	Thyroid disorders, diabetes mellitus type 1, alopecia areata, pernicious anemia, Addison's disease	
	Sunburn, emotional stress, trauma (Koebner phenomenon), chemicals (phenols, catechols)	
III ITNAYS	Oxidative stress, infections, nutritional deficiencies (B12, folate, copper, zinc)	

Page | 1

Clinical Features

- Depigmented macules and patches: well-defined, chalky-white, often symmetrical.
- **Sites commonly affected**: face, hands, feet, elbows, knees, around body orifices, and genitals.
- Hair over lesions may turn white (leukotrichia).
- Koebner phenomenon: new lesions appear over sites of trauma.
- Course: Progressive, stable, or rarely spontaneous repigmentation.

Classification / Types BAMS MBBS

Type	Description / Distribution	Examples
(generalized)	common type	Vulgaris, Acrofacial, Universal
Segmental	Unilateral, follows dermatomal pattern; early onset; stable course	One side of face or limb
VIIXEA	Both segmental and non-segmental lesions present	Combination type
Localized	Few patches in one area	Focal or mucosal vitiligo

Investigations

- Clinical diagnosis (based on appearance).
- Wood's lamp examination: lesions show bright blue-white fluorescence.
- Thyroid function tests: to rule out autoimmune thyroiditis.
- Autoantibody screening: ANA, anti-thyroid antibodies if indicated.
- Skin biopsy (rare): shows absence of melanocytes.

Page | 1

Differential Diagnosis

Condition	Differentiating Features
Pityriasis alba	Hypopigmented (not depigmented), fine scaling
Nevus depigmentosus	Present from birth, non-progressive
Tinea versicolor	Fine scaling, positive for fungal elements on KOH
Chemical leukoderma	History of exposure to chemicals

Management

1. General Measures

- Patient counseling and reassurance (chronic but benign condition).
- Avoid trauma, sunburn, and harsh chemicals.
- Use **sunscreens** to prevent tanning of surrounding skin.
- Cosmetic camouflage if desired.

2. Medical Therapy

Drug / Treatment	Mechanism / Use	
Topical corticosteroids	First-line for localized disease; anti-inflammatory; stimulate repigmentation	
Topical calcineurin inhibitors (Tacrolimus / Pimecrolimus)	Especially for face and intertriginous areas	
Phototherapy (NB-UVB)	Most effective for generalized vitiligo; induces melanocyte proliferation	
PUVA therapy (Psoralen + UVA)	For widespread lesions; more side effects	
Systemic corticosteroids	Used in rapidly progressive vitiligo (short course)	
Antioxidants (Vit C, E, alpha-lipoic acid)	Adjunctive therapy	

3. Surgical Therapy

Indicated for **stable vitiligo** (>1 **year stability**) not responding to medical therapy.

Procedure	Description
Punch grafting	Small grafts transplanted to depigmented area
Split-thickness skin grafting	Thin skin grafts placed over lesions
Suction blister grafting	Blisters created by suction used for grafting
Melanocyte-keratinocyte transplantation	Advanced technique for stable cases

Page | 1

4. Depigmentation Therapy

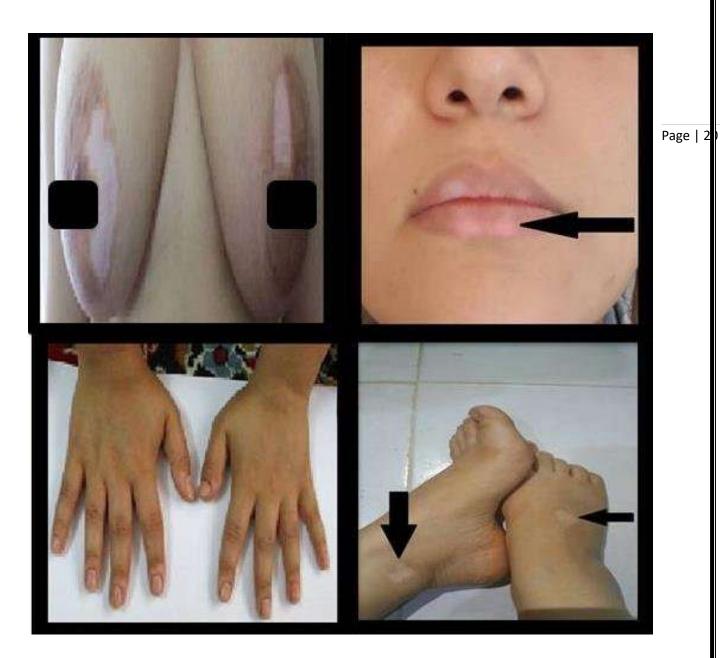
- For extensive vitiligo (>50% body surface).
- **Monobenzyl ether of hydroquinone** used to depigment remaining normal skin for uniformity.

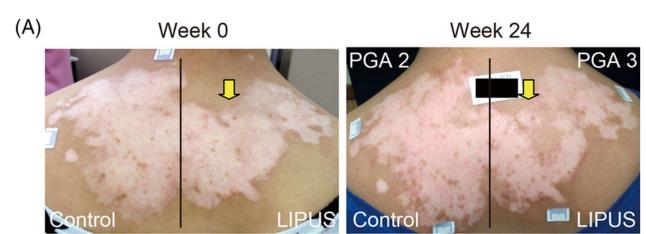
5. Psychological Support

- Address anxiety, depression, and social stigma.
- Support groups and counseling can help coping.

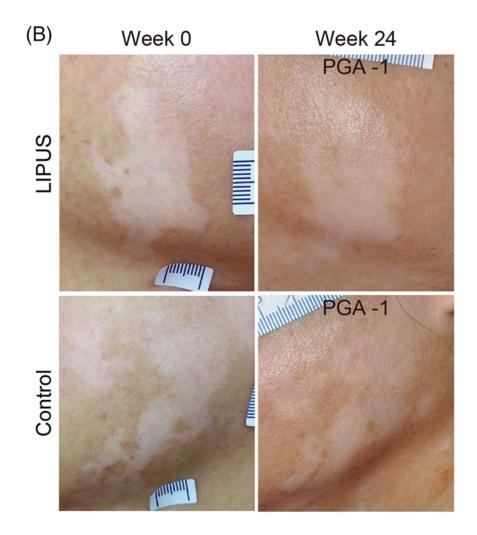
Prognosis

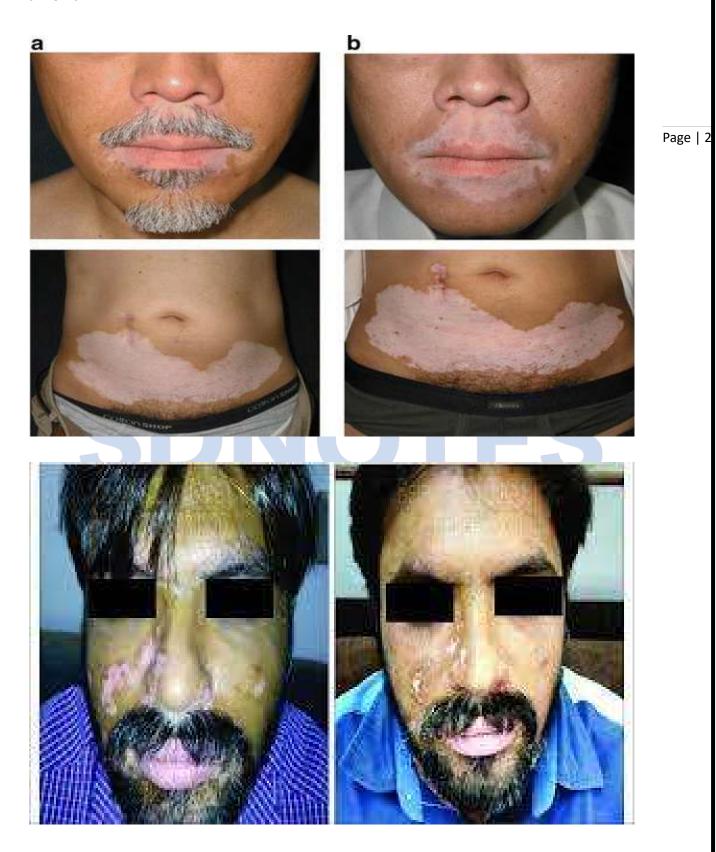
- Chronic course; variable response to treatment.
- Better prognosis in: recent onset, face/trunk lesions, dark skin.
- Poor prognosis in: acral areas, mucosal involvement, leukotrichia.





Page | 2





FOR NOTES -

Page | 2

SDNOTES B.Sc BAMS MBBS

Eczema (Dermatitis)

Definition

Eczema is a chronic, relapsing, inflammatory skin disease characterized by itching, redness, vesiculation, and scaling.

Page | 2

It represents a pattern of skin inflammation caused by a variety of external and internal factors.

Classification / Types

Type	Description / Key Features	
1. Atopic dermatitis	Common in children; associated with personal/family history of atopy (asthma, allergic rhinitis). Common sites: flexures, face, neck.	
2. Contact dermatitis	Due to contact with irritants or allergens. • Irritant contact dermatitis – chemical, detergents • Allergic contact dermatitis – nickel, cosmetics, plants.	
3. Seborrheic dermatitis	In sebaceous areas (scalp, face, chest). Greasy scales and erythema. Linked to <i>Malassezia</i> .	
4. Nummular eczema	Coin-shaped lesions, usually on limbs, very itchy.	
5. Dyshidrotic (Pompholyx)	Deep-seated vesicles on palms, soles, sides of fingers; aggravated by stress, sweating.	
6. Stasis dermatitis	Seen in lower legs with venous insufficiency. Pigmentation, scaling, ulceration.	
7. Asteatotic eczema	Due to excessive dryness; common in elderly, cold weather. Cracked skin ("eczema craquelé").	

Etiopathogenesis

- **Genetic factors:** Filaggrin gene mutation → impaired skin barrier.
- Immune dysregulation: \uparrow Th2 cytokines \rightarrow inflammation.
- Environmental triggers: soaps, detergents, allergens, microbes, climate.
- Psychological stress: exacerbates itching and flare-ups.

Risk Factors

Intrinsic	Extrinsic
Family history of atopy	Contact with irritants/allergens
Dry skin (xerosis)	Climate – cold, low humidity
Genetic predisposition	Stress, infection, sweating
Immune dysfunction	Excessive washing, harsh soaps

Page | 2

Clinical Features

- **Pruritus** hallmark symptom
- Erythema, papules, vesicles, oozing, crusting, and scaling
- Lichenification in chronic cases
- Distribution:
 - Infants face, scalp, extensor surfaces
 - o Children flexural areas
 - Adults hands, eyelids, neck, flexures



- Mostly clinical diagnosis
- Patch test → to identify allergens (contact dermatitis)
- Skin biopsy → rarely needed to rule out other dermatoses
- Serum $IgE \rightarrow often$ elevated in atopic dermatitis

Management

General Measures

- Avoid triggering factors (irritants, allergens, stress).
- Use lukewarm water, mild fragrance-free soaps.
- Apply emollients frequently (restores barrier).
- Avoid scratching keep nails short.
- Wear cotton clothing.

Topical Therapy

Medication	Use / Notes	
Topical corticosteroids	Mainstay of treatment; reduces inflammation. Use mile to moderate potency depending on site.	
Topical calcineurin inhibitors (Tacrolimus, Pimecrolimus)	For sensitive areas (face, eyelids, flexures).	
Emollients / moisturizers	Regular use to prevent dryness.	
Antibiotic creams	If secondary infection present.	

Page | 2

Systemic Therapy

Drug	Indication
Antihistamines	Relieve itching.
Oral corticosteroids	For acute severe flares (short course).
Immunosuppressants (Cyclosporine, Methotrexate, Azathioprine)	For refractory or chronic cases.
Antibiotics	If secondary bacterial infection.
Phototherapy (NB-UVB)	For chronic, extensive eczema.

Complications SC BAMS MBBS

- Secondary infection (Staphylococcus aureus)
- Lichenification (thickened skin)
- Sleep disturbance due to itching
- Psychological stress, low self-esteem

Prognosis

- Chronic, relapsing course.
- Many childhood cases improve with age.
- Proper skin care and trigger avoidance \rightarrow good control.

Summary -

Aspect	Key Points	
Main symptom	Itching	
Common sites	Flexures, hands, face	
Key finding	Erythema, scaling, vesicles	
Treatment	Emollients + topical steroids	
Prevention	Avoid irritants, maintain hydration	

Page | 2

SDNOTES B.Sc BAMS MBBS



Page | 2



ES BBS



Page | 2



FOR NOTES -

Page | 3

SDNOTES B.Sc BAMS MBBS

Psoriasis

Definition Page | 3

Psoriasis is a chronic, immune-mediated inflammatory skin disorder characterized by well-defined, erythematous plaques with silvery-white scales.

It shows remission and relapse and involves genetic, immunologic, and environmental factors.

Epidemiology

- Common worldwide (affects $\sim 2-3\%$ of population)
- Bimodal onset:
 - o Type I: Early onset (<40 years), familial, severe
 - o Type II: Late onset (>40 years), sporadic, mild
- No sex predilection

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Etiopathogenesis BAMS MBBS

Factor	Description	
Genetic	Strong family history (HLA-Cw6, HLA-B13, HLA-B17 association)	
IIImmiinalaala	T-cell mediated autoimmune response \rightarrow cytokine release (TNF- α , IL-17, IL-23) \rightarrow keratinocyte proliferation	
	Trauma (Koebner phenomenon), infections (Streptococcal), stress, drugs, cold climate, alcohol, smoking	

Types of Psoriasis

Туре	Features	
1. Chronic Plaque Psoriasis (Psoriasis vulgaris)	Most common; symmetrical plaques with silvery scales on extensor surfaces (elbows, knees, scalp, lumbosacral area)	
2. Guttate Psoriasis	Small, drop-like lesions; often after streptococcal throat infection; seen in children/young adults	
3. Erythrodermic Psoriasis	Generalized erythema and scaling involving >90% BSA; may lead to systemic symptoms	
4. Pustular Psoriasis	Sterile pustules over erythematous skin; generalized (Von Zumbusch type) or localized (palmo-plantar)	
5. Inverse (Flexural) Psoriasis Smooth, shiny plaques in flexures (axilla, groin, inframammary); less scaling		
6. Nail Psoriasis	Pitting, onycholysis, subungual hyperkeratosis, oil drop sign	
7. Psoriatic Arthritis	Joint involvement; can resemble rheumatoid arthritis; DIP joints often affected	

Page | 3

Clinical Features

- Lesions: Well-demarcated erythematous plaques with silvery-white scales
- **Distribution:** Extensor surfaces, scalp, lumbosacral area
- Auspitz sign: Pinpoint bleeding spots on removing scales
- **Koebner phenomenon:** New lesions on sites of trauma
- Systemic features: Arthropathy, nail changes, metabolic syndrome association

Risk Factors

Category	Examples	
Genetic	Family history of psoriasis	
Immunologic	Autoimmune T-cell activation	
Environmental	Cold climate, dry weather	
Infectious	Streptococcal throat infections (especially guttate type)	
Drugs	β-blockers, lithium, antimalarials, NSAIDs, ACE inhibitors	
Lifestyle	Smoking, alcohol intake, obesity	
Stress	Psychological stress can precipitate/exacerbate disease	

Complications

- Psoriatic arthritis
- Secondary infection
- Erythroderma
- Metabolic syndrome
- Psychological impact (depression, anxiety)

Page | 3

Management

1. General Measures

- Avoid triggers (trauma, stress, alcohol, smoking)
- Moisturizers to reduce dryness
- Gentle skin care
- Patient education and reassurance (chronic but controllable disease)

2. Topical Therapy

Agent	Examples	Indication	
Emollients	Petroleum jelly, paraffin	All cases (base therapy)	
Keratolytics	Salicylic acid	Remove scales	
Topical corticosteroids	Betamethasone, clobetasol	Anti-inflammatory	
Vitamin D analogues	Calcipotriol	Regulates keratinocyte proliferation	
Coal tar / Dithranol	Traditional agents	Chronic stable plaques	
Topical calcineurin inhibitors	Tacrolimus, pimecrolimus	Sensitive areas (face, flexures)	

3. Phototherapy

- UVB narrowband or PUVA (Psoralen + UVA)
- Indicated for extensive or refractory cases
- Avoid in photosensitive patients

4. Systemic Therapy

Drug	Use / Notes	
Methotrexate	Severe, extensive psoriasis; monitor liver and blood counts	
Cyclosporine	Rapid control; nephrotoxicity risk	
Acitretin	Pustular / erythrodermic types; teratogenic	
Apremilast	PDE4 inhibitor; moderate disease	
Biologics	Anti-TNF (Etanercept, Infliximab), IL-17/23 inhibitors (Secukinumab, Ustekinumab)	

Page | 3

5. Management of Psoriatic Arthritis

- NSAIDs for pain relief
- DMARDs (Methotrexate, Leflunomide)
- Biologic agents if refractory

Prognosis

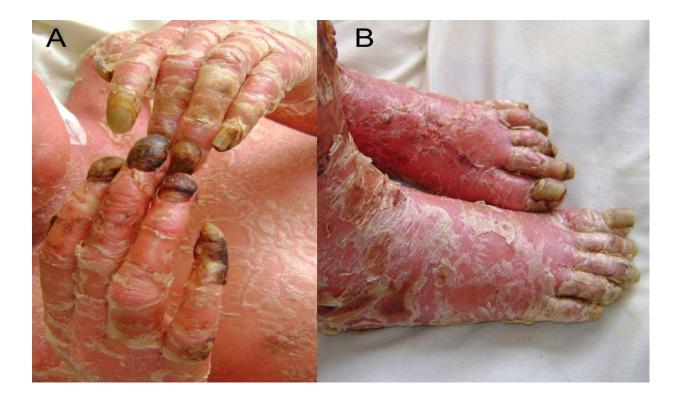
- Chronic course with remissions and exacerbations
- May improve in summer, worsen in winter
- Good prognosis with adherence to treatment and lifestyle modification

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Chronic Plaque Psoriasis



Page | 3





Page | 3





FOR NOTES -

Page | 3

SDNOTES B.Sc BAMS MBBS

Leprosy (Hansen's Disease)

Definition Page | 3

Leprosy is a **chronic infectious disease** caused by *Mycobacterium leprae*, an **acid-fast bacillus** that primarily affects the **skin**, **peripheral nerves**, **mucosa of the upper respiratory tract**, and **eyes**.

Causative Agent

- Mycobacterium leprae
- Acid-fast, rod-shaped, obligate intracellular parasite
- Grows best at cooler temperatures (27–33°C) → hence affects peripheral areas (e.g., face, hands, feet)

Mode of Transmission

Route	Description Description	
Droplet infection Prolonged close contact with untreated lepromatous cases through droplets		
Skin contact	Rare; only if there are breaks in the skin	
Vertical transmission	Very rare	
Incubation period	Long – usually 3–10 years (average 5 years)	

Risk Factors

Category	Examples	
Host factors	Genetic susceptibility (HLA associations), poor immunity	
Environmental	Overcrowding, poor sanitation, endemic areas	
Socioeconomic Poverty, malnutrition, limited access to healthcare		
Contact factors	Close contact with untreated multibacillary cases	

Pathogenesis

- 1. M. leprae enters the body \rightarrow multiplies slowly in macrophages and Schwann cells.
- 2. Immune response determines the clinical spectrum:
 - o Strong cell-mediated immunity (CMI) → tuberculoid form
 - \circ **Poor CMI** \rightarrow lepromatous form
- 3. Nerve involvement leads to anesthesia, deformities, and disability.

Page | 3

Classification (Ridley-Jopling Spectrum)

Туре	Immunity	Skin Lesions	Nerve Involvement	Lepromin Test	Bacilli (AFB)
TT (Tuberculoid)	High CMI	Few, well-defined, hypopigmented patches	Marked, asymmetrical	Positive	Negative
BT (Borderline Tuberculoid)	Moderate	Few to several lesions	Asymmetrical	Weakly positive	Few
BB (Borderline Borderline)	Intermediate	Many lesions, irregular	Symmetrical or asymmetrical	Negative	Moderate
BL (Borderline Lepromatous)	Poor	Numerous, ill- defined	Symmetrical	Negative	Many
LL (Lepromatous)	Absent	Diffuse infiltration, shiny skin, nodules	Symmetrical	Negative	Numerous

Clinical Features

A. Skin Lesions

- Hypopigmented or erythematous macules/plaques/nodules
- Loss of sensation (touch, pain, temperature) over lesions
- Dryness, loss of sweating, and hair loss over affected area

B. Nerve Involvement

- Peripheral nerve thickening (e.g., ulnar, common peroneal, posterior auricular)
- Sensory loss → burns and ulcers
- Motor weakness \rightarrow claw hand, foot drop

C. Systemic Features (in lepromatous type)

- Nasal stuffiness, epistaxis
- Loss of eyebrows (madarosis)
- Gynecomastia, infertility (testicular atrophy)
- Ocular involvement → lagophthalmos, keratitis

Investigations

Test	G D A V Findings V D D	
Slit-skin smear	Demonstrates acid-fast bacilli (Ziehl-Neelsen or Fite sta	
Skin biopsy	Histopathological confirmation	
Lepromin test	Assesses host immunity; positive in TT, negative in LL	
Nerve biopsy (if needed)	d) In indeterminate cases	

Page | 4

Reactions

Type	Mechanism	Clinical Features	Management
Type 1 (Reversal Reaction)	• 1	Acute inflammation of existing lesions, neuritis	Prednisolone
IIINAAAASIIM I ANKASIIM —	1	l ender nodules, fever,	Thalidomide (if available) or corticosteroids

Page | 4

Management

Multidrug Therapy (MDT) – WHO Regimen

Type	Drugs	Duration
	Rifampicin 600 mg monthly (supervised) + Dapsone 100 mg daily (self-administered)	6 months
lesions or smear positive)	Rifampicin 600 mg monthly + Clofazimine 300 mg monthly + Dapsone 100 mg daily + Clofazimine 50 mg daily	12 months

Supportive Management A MS MBBS

- Physiotherapy: Prevent deformities
- Protective footwear
- Reconstructive surgery for deformities
- Health education: Avoid stigma, early diagnosis, adherence to MDT

Complications

- Neuritis and deformities (claw hand, foot drop)
- Chronic ulcers
- Blindness (ocular involvement)
- Secondary infections

Prevention and Control

- Early detection and MDT of all cases
- Contact tracing and surveillance
- BCG vaccination offers partial protection
- Health education and anti-stigma campaigns

Page | 4

Prognosis

- Good with early diagnosis and complete MDT
- **Poor** if untreated leads to irreversible nerve damage and deformities

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FOR NOTES -

Page | 4

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SYPHILIS

Definition

Page | 4

Syphilis is a **chronic**, **systemic**, **sexually transmitted infection (STI)** caused by the **spirochete** *Treponema pallidum*.

It can affect skin, mucous membranes, cardiovascular, neurological, and other organs if untreated.

Causative Organism

- Treponema pallidum (subspecies pallidum)
- A thin, motile, spiral-shaped spirochete visible by dark-field microscopy.

Mode of Transmission

- 1. Sexual contact (most common)
- 2. **Vertical transmission** (mother to fetus \rightarrow congenital syphilis)
- 3. **Blood transfusion** (rare, due to screening)
- 4. **Direct inoculation** (accidental exposure in healthcare settings)

Incubation Period

• 10 to 90 days (average 21 days)

Classification / Stages

Stage	Clinical Features	Infectivity	Comments
Primary Syphilis	Single painless ulcer (chancre) at site of inoculation, firm base, clean edge, nontender inguinal lymphadenopathy	Highly infectious	Heals spontaneously in 3–6 weeks
Secondary Syphilis	Systemic spread → maculopapular rash (esp. palms and soles), mucous patches, condyloma lata, generalized lymphadenopathy	Highly infectious	Occurs 6–8 weeks after chancre
Latent Syphilis	No symptoms, positive serology	Early latent: potentially infectious; Late latent: non- infectious	May last for years
Tertiary Syphilis	Gummatous lesions, cardiovascular (aortitis, aneurysm), neurosyphilis (tabes dorsalis, general paresis)	Non-infectious	Occurs after years of latency

Page | 4

Congenital Syphilis

Type	Features	
Early (≤2 yrs)	Rhinitis ("snuffles"), rash, hepatosplenomegaly, bone changes	
	Hutchinson's triad – interstitial keratitis, notched incisors, 8th nerve deafness	

Risk Factors

Category	Examples	
#Kenaviorai	Multiple sexual partners, unprotected intercourse, MSM (men who have sex with men)	
Medical	Presence of other STIs (esp. HIV)	
Socioeconomic	Low education, poor access to healthcare	
Perinatal	Infected mother → congenital syphilis	

Investigations

Test Type	Examples	Remarks
III DIPACT I DATACTIAN	Dark-field microscopy, Direct fluorescent antibody test	For early lesions
Non-treponemal tests	IVDRI, RPR	Used for screening and monitoring treatment response
Treponemal tests		Confirmatory; remains positive for life

Page | 4

Management

Stage	Drug of Choice	Regimen	
Primary, Secondary, Early latent	Benzathine Penicillin G	2.4 million units IM single dose	
Late latent or Tertiary (without neurosyphilis)	Benzathine Penicillin G	2.4 million units IM weekly × 3 weeks	
Neurosyphilis	Aqueous crystalline Penicillin G	18–24 million units/day IV × 10–14 days	
Penicillin allergy (non- pregnant)	Doxycycline 100 mg orally twice daily × 14 days	Alternative regimen	

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Follow-up

- Repeat VDRL titers at 3, 6, 12 months after treatment.
- Fourfold fall in titer = adequate response.
- HIV testing recommended for all patients.

Complications

- 1. Cardiovascular syphilis aortitis, aneurysm
- 2. Neurosyphilis meningitis, tabes dorsalis, general paresis
- 3. Gummatous lesions (skin, bone, liver)
- 4. Congenital syphilis in neonates

Prevention

- Safe sexual practices (condom use)
- Routine antenatal screening
- Early detection and treatment of contacts
- Health education programs

Page | 4

Summary

Stage	Lesion	Infectivity	Treatment
Primary	Chancre	High	Benzathine Penicillin G 2.4 MU IM single dose
Secondary	Rash, mucous patches	High	Same regimen
Latent	No lesion	Variable	2.4 MU weekly × 3
Tertiary	Gummas, neuro, cardio	None	Based on involvement

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Page | 5

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Page | 5



SDNOTES TEAM APTA

FOR NOTES -

Page | 5

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Vesiculobullous Disorders

Definition Page | 5

Vesiculobullous disorders are a group of skin diseases characterized by **vesicles** (≤0.5 cm) and **bullae** (>0.5 cm) — fluid-filled blisters resulting from separation within or beneath the epidermis.

Classification

Level of Blister Formation	Examples	
Intraepidermal (within epidermis)	Pemphigus vulgaris, Pemphigus foliaceus, Hailey-Hailey disease	
	Bullous pemphigoid, Dermatitis herpetiformis, Epidermolysis bullosa, Linear IgA disease	

Important Types

1. Pemphigus Vulgaris C BAMS MBBS

- Autoimmune blistering disease with IgG autoantibodies against desmoglein-3 (and sometimes desmoglein-1).
- Blisters form intraepidermally, leading to easy rupture.

Clinical features:

- Flaccid blisters that rupture easily → erosions and crusts
- Common sites: **oral mucosa**, trunk, scalp
- Nikolsky's sign: Positive (skin shears on gentle pressure)
- **Asboe-Hansen sign**: Positive (extension of blister on pressure)

Investigations:

- Tzanck smear → Acantholytic cells
- **Direct Immunofluorescence (DIF)** → IgG and C3 in a "fish-net" pattern

Treatment:

Stage	Drugs
Initial control	Systemic corticosteroids (prednisolone)
Maintenance	Immunosuppressants – Azathioprine, Mycophenolate mofetil
Refractory cases	Rituximab, IVIG, Plasmapheresis

Page | 5

2. Bullous Pemphigoid

- Autoimmune, with antibodies against BP180 and BP230 (hemidesmosomal proteins).
- Subepidermal blister \rightarrow tense, non-rupturing bullae.

Clinical features:

- Elderly patients
- Tense bullae on normal or erythematous base
- Oral lesions less common
- Nikolsky's sign negative

Investigations:

DIF: Linear deposition of IgG and C3 along basement membrane

Treatment:

- BAMS MBBS Systemic or topical steroids
- Tetracycline + Nicotinamide (for mild cases)
- Immunosuppressants (Azathioprine, Methotrexate)

3. Dermatitis Herpetiformis

- Autoimmune, associated with gluten-sensitive enteropathy (celiac disease)
- **IgA** deposits at dermal papillae

Clinical features:

- Grouped vesicles and papules with intense **itching**
- Sites: Elbows, knees, buttocks, scalp
- Excoriations due to scratching

Investigations:

• **DIF:** Granular IgA at dermal papillae

Treatment:

• **Dapsone** – drug of choice

• Gluten-free diet

4. Linear IgA Bullous Dermatosis

- Autoantibodies of **IgA** type against basement membrane zone antigens
- Subepidermal blister

Clinical features:

- "String of pearls" arrangement of vesicles
- Can affect both children (chronic bullous disease of childhood) and adults

Treatment:

- Dapsone
- Sulfapyridine
- Mild cases topical steroids

5. Epidermolysis Bullosa (EB)

• Genetic blistering disorder due to mutations in keratin, laminin, or collagen genes.

Type	Level of split	Notes
EB Simplex	Intraepidermal	Mild, blisters on trauma
Junctional EB	Within lamina lucida	Severe, may be fatal in infancy
Dystrophic EB	Below lamina densa	Scarring, milia formation

Management:

- Supportive: wound care, infection prevention
- Genetic counseling
- Avoid trauma

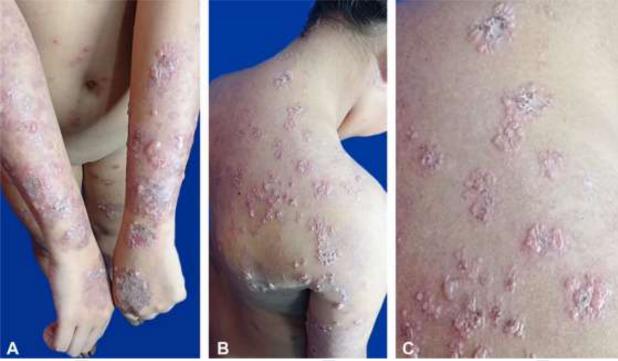
Page | 5

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Disease	Level of Blister	Antibody Target	Nikolsky Sign	Main Treatment
Pemphigus vulgaris	Intraepidermal	Desmoglein-3 (±1)	Positive	Steroids + Immunosuppressants
Bullous pemphigoid	Subepidermal	BP180, BP230	Negative	Steroids ± Immunosuppressants
Dermatitis herpetiformis	Niineninermai	IgA at dermal papillae	Negative	Dapsone + Gluten-free diet
Linear IgA disease	Subenidermal	Basement membrane IgA	Negative	Dapsone
Epidermolysis bullosa	Genetic (varies)	Structural proteins		Supportive

Page | 5

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Page | 5

SDNOTES





Page | 5



CUTANEOUS MANIFESTATIONS OF HIV

Definition

Cutaneous manifestations are skin, hair, nail, or mucous membrane changes occurring due to the direct effect of HIV infection, secondary infections, or drug reactions.

They often provide early clues to HIV infection and correlate with the degree of immunosuppression (CD4 count).

Page | 5

Types / Classification

Category	Examples	Comments	
1. Infectious Dermatoses	Bacterial: Impetigo, folliculitis, abscesses (often by Staph.) Viral: Herpes simplex, Herpes zoster, Molluscum contagiosum, HPV warts Fungal: Oral candidiasis, Tinea infections, Seborrheic dermatitis, Cryptococcosis	Common in all stages, severity increases as CD4 falls	
2. Non-infectious (Inflammatory) Dermatoses	Seborrheic dermatitis, Psoriasis, Xerosis, Atopic dermatitis, Pruritic papular eruption (PPE)	PPE is very common; associated with CD4 <200	
3. Neoplastic Lesions	Kaposi's sarcoma, Non-Hodgkin lymphoma, Squamous cell carcinoma	Opportunistic tumors due to immunosuppression	
4. Drug Reactions	Maculopapular rash, Stevens-Johnson syndrome, Toxic epidermal necrolysis (TEN), Fixed drug eruption	Due to ART drugs, cotrimoxazole, anti-TB drugs	
5. Other Manifestations	Nail changes, Oral hairy leukoplakia, Hair loss (diffuse or patchy), Pigmentation	May reflect nutritional or metabolic effects of HIV	

Common Lesions and Their Features

Lesion	Typical Presentation	CD4 Count Correlation	Remarks
Seborrheic dermatitis	Greasy scales on scalp, face, chest	Any stage (more severe with low CD4)	Common early sign
Pruritic papular eruption (PPE)	Intensely itchy papules on trunk and limbs	<200 cells/mm³	Most frequent HIV- related dermatosis
Oral candidiasis	White curd-like plaques on tongue, buccal mucosa	<400 cells/mm³	Marker of progression
Herpes zoster	Painful vesicular eruption along dermatome	Any stage	Often early manifestation
Kaposi's sarcoma	Violaceous macules, papules, nodules	<200 cells/mm³	AIDS-defining illness
Molluscum contagiosum	Multiple, large, atypical lesions	<100 cells/mm³	Recalcitrant lesions common
Drug eruptions	Maculopapular rash or severe reactions	Any stage (esp. early ART)	Often due to NNRTIs, sulfa drugs

Page | 6

Risk Factors

- Low **CD4 count (<200/mm³)**
- Poor ART adherence
- Malnutrition and poor hygiene
- Co-infection with tuberculosis or hepatitis viruses
- Use of **multiple drugs** (polypharmacy)
- Unprotected sexual exposure and repeated infections

Diagnosis

- Clinical examination type, distribution, morphology of lesions
- **CD4 count** estimation
- Microbiological tests: KOH mount, Gram stain, culture
- **Histopathology** for neoplastic lesions (e.g., Kaposi's sarcoma)
- **Drug history** to rule out adverse drug reactions

Management

Aspect	Approach
General	Start or optimize ART (most skin lesions improve with immune reconstitution)
Infectious lesions	Treat specific infection: antibiotics, antifungals, antivirals as per etiology
Inflammatory conditions	Topical corticosteroids, emollients, antihistamines for itch
Neoplastic lesions	Chemotherapy, radiotherapy, or HAART-induced regression (Kaposi's sarcoma)
Drug reactions	Stop offending drug, give systemic steroids if severe, supportive care
Counseling & Prevention	Patient education on hygiene, early reporting, ART adherence

Page | 6

Prognostic Importance

- Skin lesions often reflect immune status
- Reappearance or persistence may suggest ART failure or non-adherence
- Resolution indicates immune reconstitution

Summary Points . SC BAMS MBBS

- Cutaneous manifestations are early and common in HIV infection.
- Most common: Seborrheic dermatitis, PPE, oral candidiasis.
- Severity correlates with **CD4 count**.
- ART initiation and adherence are crucial for control.

Seborrheic dermatitis



Page | 6





Page | 6

Pruritic papular eruption (PPE)







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Molluscum contagiosum



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Page | 6

Shiny umbilicated papules

Typical umbilicated papules



Associated with eczema

DERMA CLINICAL POSTING VIVA – SHORT NOTES

1. Acne Vulgaris

Page | 6

- 1. Cause: Increased sebum + P. acnes infection
- 2. Lesions: Comedones, papules, pustules
- 3. Common site: Face, chest, back
- 4. Aggravating factor: Hormonal, oily cosmetics
- 5. Treatment: Topical retinoids, benzoyl peroxide
- 6. **Complication:** Scarring, post-inflammatory pigmentation
- 7. **Grading:** Mild / Moderate / Severe

2. Vitiligo

- 1. **Definition:** Acquired depigmentary disorder
- 2. Cause: Autoimmune destruction of melanocytes
- 3. **Lesions:** Milky white macules
- 4. Sites: Face, hands, genitalia
- 5. Type: Focal, segmental, generalized
- 6. **Test:** Wood's lamp chalky white fluorescence
- 7. **Treatment:** Topical steroids, phototherapy (NB-UVB)

3. Eczema (Dermatitis)

- 1. **Definition:** Inflammatory skin reaction with itching
- 2. Types: Acute, subacute, chronic
- 3. Lesions: Erythema, vesicles, oozing, crusting
- 4. Example: Atopic dermatitis, contact dermatitis
- 5. **Itch:** Hallmark feature
- 6. **Treatment:** Emollients, topical steroids, antihistamines
- 7. Complication: Secondary infection

4. Psoriasis

- 1. **Definition:** Chronic inflammatory papulosquamous disorder
- 2. Lesions: Silvery scales on erythematous plaques
- 3. Sites: Elbows, knees, scalp, lumbosacral area
- 4. Auspitz sign: Pinpoint bleeding on scale removal
- 5. Koebner phenomenon: Lesions at trauma site
- 6. **Treatment:** Topical steroids, calcipotriol, phototherapy
- 7. **Type:** Plaque, guttate, pustular, erythrodermic

5. Leprosy

- 1. Cause: Mycobacterium leprae
- 2. Transmission: Prolonged close contact
- 3. Lesions: Hypopigmented patch with loss of sensation
- 4. Nerve involved: Ulnar, posterior auricular, peroneal
- 5. **Type:** Tuberculoid to Lepromatous spectrum
- 6. **Test:** Slit-skin smear (AFB +)
- 7. **Treatment:** MDT (Rifampicin, Clofazimine, Dapsone)

6. Syphilis

- 1. Causative agent: Treponema pallidum
- 2. Primary lesion: Painless indurated chancre
- 3. **Secondary:** Rash on palms & soles
- 4. Tertiary: Gummatous, cardiovascular, neuro
- 5. **Test:** VDRL / RPR (screening)
- 6. Confirmatory: TPHA / FTA-ABS
- 7. **Treatment:** Benzathine Penicillin G

7. Non-Syphilitic STDs

- 1. **Examples:** Gonorrhea, Chancroid, LGV, Granuloma inguinale, Genital warts, Herpes
- 2. Gonorrhea: Purulent urethral discharge
- 3. Chancroid: Painful ulcer with ragged edges
- 4. LGV: Painless ulcer \rightarrow buboes
- 5. **Genital warts:** HPV 6, 11 cauliflower growth
- 6. **Treatment:** Antibiotics or antivirals per etiology
- 7. **Prevention:** Safe sex, partner treatment

Page | 6

8. Vesiculobullous Disorders

Page | 6

- 1. **Definition:** Group of blistering skin diseases
- 2. Examples: Pemphigus vulgaris, Bullous pemphigoid
- 3. **Pemphigus vulgaris:** Flaccid bullae, oral erosions
- 4. Tzanck smear: Acantholytic cells
- 5. Nikolsky sign: Positive in pemphigus
- 6. **Bullous pemphigoid:** Tense bullae, elderly, subepidermal
- 7. **Treatment:** Systemic steroids, immunosuppressants

9. Cutaneous Manifestations of HIV

- 1. Cause: Immunosuppression due to HIV
- 2. **Infectious lesions:** Candidiasis, herpes, tinea
- 3. Non-infectious: Seborrheic dermatitis, PPE, psoriasis
- 4. Neoplastic: Kaposi's sarcoma
- 5. **Drug reaction:** Common due to ART
- 6. **Indicator:** Correlates with CD4 count
- 7. **Treatment:** ART + specific management

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