The Draft CBME Curriculum for PG Clinical is being Circulated for Comments and Suggestions. The Suggestions are to be sent to RGUHS by mail to dcd.rguhs@gmail.com and copy to be mailed to Chairman BOS PG Clinical ravikdoc@gmail.com

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES

4thT Block, Jayanagar, Bengaluru, Karnataka 560041



DRAFT

GUIDELINES FOR COMPETENCY BASED POSTGRADUATE TRAININGPROGRAMME FOR MD IN DERMATOLOGY

PREAMBLE

The purpose of PG education is to create specialists who would provide high quality health care and advance the cause of science through research & training. A postgraduate undergoing training for MD Dermatology should be trained to identify and recognize various congenital, developmental, inflammatory, infective, traumatic, metabolic, neuromuscular, degenerative and oncologic disorders of dermatology.She/he should be able to provide competent professional services to trauma patients at a primary/ secondary/tertiary healthcare centres. The purpose of this document is to provide teachers and learners illustrative guidelines to achieve defined outcomes through learning and assessment. This document was prepared by various subject-content specialists. The Reconciliation Board of Academic Committee has attempted to render uniformity without compromise to purpose and content of the document. Compromise in purity of syntax has been made in order to preserve the purpose and content. This has necessitated retention of "domains of learning" under the heading "**Competencies**".

SUBJECT SPECIFIC LEARNING OBJECTIVES

This will be dealt with under the following headings:

- □ Theoretical knowledge (Cognitive domain)
- □ Practical and clinical skills (psychomotor domain)
- □ Attitudes including communication skills (Affective domain)
- □ Writing thesis / Reviewing Research activities (Scholarly activity)
- □ Training in Research Methodology (Practice based learning, Evidence based practice)

Professionalism

□ Teaching skills

SUBJECT SPECIFIC COMPETENCIES

A. COGNITIVE DOMAIN

At the end of the M.D. Dermatology programme, the post graduate student should be able to: identify a dermatological disorder or its complication when presentig independently or a co-existence with multi-systemic disorder.

B. AFFECTIVE DOMAIN

Attitudes including communication skills and professionalism

- a. Communication skills
- b. Teamwork
- c. Counseling of relatives
- d. Leadership
- e. Advocacy
- f. Ethics

C. PSYCHOMOTOR DOMAIN

- At the end of the first year of M.D Dermatology programme, the student should have:
 - 1. communication skills
 - 2. rapport with seniors and colleagues
 - 3. perform simple bed-side tests.
- At the end of the second year of M.D Dermatology programme, the student should be able to:
 - 1. perform simple bed-side tests
 - 2. able to give differential diagnosis
 - 3. able to treat simple dermatology cases with senior postgraduates' guidance
- At the end of the final year of M.D Dermatology programme, the student should be able to:
 - 1. Diagnose and treat all dermatology cases independently.
 - 2. Manage the complications associated with the condition or its treatment.

SYLLABUS

ANATOMY AND ORGANIZATION OF HUMAN SKIN

Must know	Should know	Good to know
Components of normal	• Nerves and sense organs	Embryology
human skin	• Merkel cells	Regional variation
• Epidermis	• Basophils	of lymphatic
• Dermo-epidermal	Blood vessels	
Junctional		
• Dermis	Lymphatic systems	
• Langerhan'scells		
Mastcells		

FUNCTION OF THE SKIN

	Must know	Should know	Good to know
•	Barrier functions Temperature regulation Skin Failure Immunological function	 Mechanical function Sensory and autonomic function 	 Bioengineering and the skin Sociosexual communication

DIAGNOSIS OF SKIN DISEASE

	Must know	Should know	Good to know
•	Fundamental of	Radiological and	Oral provocation test
	diagnosis	imaging	
•	Disease definition	• Commonly used	
•	The history	laboratory tests	
•	Examination of the skin	examination	
•	Additional clinical		
	investigation (Diascopy,		
	Wood's light, F.N.A.C. of		
	lymph nodes etc.)		
•	Skin testing		

EPIDEMIOLOGY OF SKIN DISEASE

Must know	Should know	Good to know
 What is epidemiology and why is it relevant to dermatology Describing the natural history and association of specific skin disease Epidemiologic study designs. 	 How much of public health problem is skin disease What determines the frequency of skin disease 	

HISTOPATHOLOGY OF THE SKIN GENERAL PRINCIPLES

Must know		Should know	Good to
			KIIOW
• Biopsy of the skin	•	Artefacts	
 Laboratory 	•	The approach to microscopic examination of a	
methods		tissue sections	

MOLECULAR BIOLOGY

Must know	Should know	Good to know
• Basic biology of the cell	Basic Molecular	• Strategies for
• Genetics to understand	biology of the cell	identification
various hereditary geno	Molecular techniques	of disease
dermatosis	• Cancer genetics	causing genes
	- Cancer genetics	• Futures trategies
	• Complex traits	

INFLAMMATION

Must know	Should know	Good to know
 Innate immunity Adaptive immunity Complements components Wound healing Characteristics of inflammation Phases of inflammation 	 Vasculature and inflammation Mediators of inflammation 	 Coagulation pathway Sympathetic and parasympathetic nervous system
Innate defence mechanismsApoptosis		
Major histocompatibility		
• Hypersensitivity reactions complex		

Must know	Should know	Good to know
• Immune system, its	Overview of immunological	Overview of
structure and function.	disease	diagnostic testing
• Innate immunity.		for immunological
• Adaptive immunity.		and allergic disease
• Hypersensitivity		
reactions – Gell &		
Coomb classification.		
• Inflammation and its		
mediators.		
• Autoimmunity and Auto		
immune dermatological		
disorders.		

CLINICAL IMMUNOLOGY, ALLERGY AND PHOTO IMMUNOLOGY

WOUND HEALING

	Must know	Should know	Good to know
•	Clinical aspects of wound	Biological aspects of wound	
	healing	healing	

GENETICS AND GENODERMATOSES

Must know	Should know	Good to know
 Principles of Genetics and patterns of inheritance Genetics and disorders of the skin Histocompatibility antigens and disease association Chromosomal disorders – down's syndrome, trisomy 18, trisomy 13 (clinical features, diagnosis, management) Ectodermal dysplasias a) HypohidroticED – definition, etiology, clinical features, diagnosis,treatment b) EECsyndrome c) Hidrotic ED d) Rapp Hodgkin syndrome Syndromes associated with DNA instability a) Xeroderma pigmentosa–definition, etiology, clinical features, diagnosis, treatment b) Bloom's syndrome c) Cockayane's syndrome Sex chromosomal defects – turner's, klinefelter's, noonan syndrome Familial multiple tumour syndrome 1,2 – (definition, etiology, clinical features, treatment) Tuberous sclerosis complex Keratoderma 	 Nosology of genetics in skin disease Principles of medical genetics Genetic counseling Poikilodermatous syndromes: dyskeratosis congenital, rothmund Thompson syndrome Gardnersyndrome Cowdensyndrome Gene therapy 	 Miscellaneous syndromes Focal dermal Hypoplasia Nail patella syndrome Pachydermo- periostosis

PRENATAL DIAGNOSIS OF GENETIC SKIN DISEASE

Must know	Should know	Good to know
 Methods in prenatal diagnosis Complication of fetalskin biopsy Ethical aspects of prenatal diagnosis Current indications forfetal skin biopsy 	 DNAtechniques Preimplantation genetic diagnosis 	

THE NEONATE

HE	NEONATE		
	Must know	Should know	Good to know
•	Skin disorders in the neonate Collodion baby	 Disorders caused by transplacental transfer of maternal autoantibody Blueberry muffin baby 	Substances in maternal milk
•	Eczematous eruption in the newborn	 Disorders caused by transfer of toxic Acute hemorrhagic oedema of 	Neonatal purpura fulminans
•	napkin psoriasis	childhood Infections	
•	Infections- bacterial/ viral/ fungal.	 Primary immunodeficiency disorders Disorders of subcutaneous fat 	
•	Ichthyoses.		
•	Eczemas.		
•	Immune deficiency disorders		

NAEVI AND OTHER DEVELOPMENTAL DEFECTS

MUST KNOW	SHOULD KNOW	GOOD TO
		KNOW
Definitions	 Linearporokeratosis Apocrinenaevus 	1 Branchial cyst
• Etiology		2. Branchial
• Classification	• Econnenaevus	sinus
 Epidermalnaevi Keratinocytenaevi VEN ILVEN Follicular naevi Comedo naevus Nevus sebaceous Epidermal naevus syndrome 	 Dermal and subcutaneousnaevi Eruptive collagenoma Shagreen patch Knuckle pads Pseudoxanthoma elasticum Proteus syndrome Zosteriform venous malformation 	3. and fistula
• Infantilehemangioma		
• Kasabachmerrittsyndrome		
 Vascular malformations Capillary Salmonpatch Port wine stain Naevusanemicus Sturge weber syndrome Mixed vascular Klippeltrenauny Parkas weber syndrome Cutis Marmorata telangiectatica Angiokeratomas Angiokeratomaof Mibelli Solitarypopular Angiokeratomaof scrotum Preauricular cyst andsinus Anlasia cutiscongenita 		

PRURITUS

Classification	• Important miscellaneous causes	• IFSI
• Measurement	of intense itching	• Icepack sign
• Pathophysiology	Neuropathic itch	• Dermographism
• Central itch	• Uremic pruritis	• Prognosis and effect
 Factors modulating itching 	 Difference between pain and itch Role of anti histamin 	on quality of life
• Scratching		
• Itching in non- inflamed skin		
• Itching in disease		
states		
• Aquagenic pruritus		
• Psychogenic pruritus		
Postmenopausal pruritus		
 Pruritus of atopic 		
eczema		
Acquired immune		
deficiency syndrome		
• Investigation of		
generalized pruritus		
• Management of itching		

ECZEMAS

Definitions, classification, histopathology E	Aetabolic eczema Eczematous drug ruption	Papuloerythroderma of Ofujii
 Secondary dissemination : mechanism, C/F Infective dermatitis Dermatophytides Seborrheic dermatitis : definition, etiology, C/F, morphology, variants, diagnosis, treatment Seborrheic folliculitis Asteatotic eczema Discoid eczema Hand eczema Pompholyx Hyperkeratotic palmar eczema Ring eczema Wear tear dermatitis Finger tip eczema Gravitational eczema Juvenile plantar dermatosis Pityriasis alba Diagnosis and treatment of eczemas Lichen simplex Lichen chronicus Prurigo Nodular prurigo Prurigo of pregnancy Actinic prurigo Nuvenie quacipation 	Chronic uperficial caly dermatitis dequence of istological vents Photo patch test Vet trap ressing systemic herapy in czema	 Eosinophilic pustular folliculitis Xerotic eczema Venus eczema Light therapy Diet in eczema Stress management

ATOPIC DERMATITIS

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
Aetio pathogenesis	• Disease prevention and	Headlight sign
Clinical features	occupational advice	• Hertghe sign
Associated disorders	 Atopic dermatitis mimickers Systemic association with atopic 	 White dermographism Role of anti histamin
Complications	dermatitis	Probiotics
 Natural history and prognosis 	 Newer drugs in management of AD 	
• Diagnosis		
• Differential diagnosis		
• Investigation		
• Treatment		

CONTACT DERMATITIS: IRRITANT

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
• Pathogenesis, Pathology	• Common irritants. Eg:Acid,	Testing for irritant contact dermatitisComplications. Eg: sec bact infn
• Predisposing factors	alkali Risk groups Difference 	
• Clinical features	between AID,	
• Specific irritant	CID	
• Investigations		
• Management		
• Prevention		
Prognosis		

CONTACT DERMATITIS: ALLERGIC

N	IUST KNOW	SHOULD KNOW	GOOD TO
• Pa	athogenesis, Pathology	• Oral desensitization	Prevalance Contact dormatitie of
• Ph	Predisposing factors Clinical features noto allergic contact dermatitis	 Immune contact urticaria Multiple patch-test reaction 	 Contact dermatitis of vulva Sportsgear associated contact dermatitis
 N Di Ai Pa 	on-eczematous responses ifferential diagnosis llergic contact dermatitis to specific allergens (airborne contact allergens, plants, cosmetic,robber,latex,) atch testing	 Other test Auto sensitization reaction Atypical presentation 	
• Pł	 notopatch testing Prevention Management Prognosis 		

OCCUPATIONAL DERMATOSES

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
 Eczematous dermatoses Non-eczematous occupational dermatoses Medicolegal aspects of occupational dermatoses Specific occupational hazards 	 Classification Plant related dermatitis Pesticide related dermatitis Occ D. in industrial workers, Healthcare workers 	• Employer's responsibility

MECHANICAL AND THERMAL INJURY

IEC	HANICAL AND THERMA	AL INJURY	
	MUST KNOW	SHOULD KNOW GOOD TO KNOW	V
• • •	Penetrating injuries Skin lesions in drug addicts Skin hazards of swimming and diving Vibration Reactions to internal mechanical stress Mechanical trauma and skin	 Biomechanica Biomechanica consideration consideration Effects of friction Pressure ulcer Effects of ction Miscellaneous reactions mechanical trauma 	
•	neoplasia Effects of heat and infrared radiation Burns	□ Foreign bodies	

REACTIONS TO COLD

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
 Physiological reactions to cold Disease of cold exposure Frostbite Trench foot 	 Other syndromes caused by cold Neonatal cold injury Cold panniculitis Hypothermia 	
 Diseases of abnormal sensitivity to cold Perniosis 		
2. Acrocyanosis		
3. Erythrocyanosis		
4. Livedo reticularis		
5. Raynaud's phenomenon		
6. Cryoglobulinaemia		
7. Cryofibrinogenaemia		
8. Cold agglutinins		
9. Cold haemolysins		
10. Cold urticaria		
11. Cold erythema		

BACTERIAL INFECTIONS

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
 Normal flora of the skin Gram positive bacteria Staphylococcus aureus Streptococci Impetigo Ecthyma Folliculitis Furunculosis Carbuncle Sycosis Ecthyma Erysipelas Cellulitis Vulvovaginitis Perianal infection Streptococcal ulcers Blistering distal dactylitis Necrotising fasciitis Cutaneous disease due to effect of bacterial toxin Staphylococcal Scalded Skin Syndrome Toxic Shock Syndrome Non-infective Folliculitis Skin lesions due to allergic hypersensitivity to streptococcal antigens Erythema nodosum Vasculitis Coryneform bacteria Diphtheria Erythrasma Trichomycosis axillaris Pitted Keratolysis 	 Tissue damage from circulating toxins Scarlet fever Toxic-shock like syndrome Propionibacterium Anthrax Tularaemia Pasturella infection Brucellosis Rickettsial infections 	• Listeriosis

- Erysipeloid
- Gas gangrene
- Gram negative bacteria
 - Meningococcal infection
 - Gonococcal infection
 - \circ Chancroid
 - Salmonella infection
 - Pseudomonas infection
 - o Rhinoscleroma
 - Plague & Yersinia infections
 - Bacillary angiomatosis
 - o Anaerobic bacteria
 - Tropical ulcer
 - \circ Granuloma inguinale
 - o Spirochetes & spiral bacteria
 - Lyme disease
 - Leptospirosis
 - Botryomycosis
 - Necrotising subcutaneous infections
 - Mycoplasma infections
 - Lymphogranuloma venerum
 - Actinomycete infections
 - o Nocardiosis
- Dermatoses possibly attributed to bacteria
 - Chancriform pyoderma
 - Dermatitis vegetans
 - Kawasaki disease
 - Supurative hidradenitis

MYCOBACTERIAL INFECTIONS

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
 Mycobacterium tuberculosis- Microbiology Epidemiology Immunology The tuberculin test Cutaneous tuberculosis-clinical features,classification,histopathology,prog no sis, diagnosis,treatment,BCG vaccination,M.tuberculosis Co-infection with HIV 	 Non-tuberculous mycobacteria- classification,clinic al features,diagnosis and treatment 	

MYCOLOGY

	MUST KNOW	SHOULD KNOW	GOOD TO KNOW
•	Superficial and cutaneous mycoses-		
	Dermatophytosis, laboratory		
	investigations		
	(KOH,Wood'slight,culture),candidiasis,		
	pityriasis versicolor, piedra, tinea		
	nigra,onychomycosis		
•	Subcutaneous and deep fungal		
	infections-lab diagnosis and management		
•	Sporotrichosis,mycetoma,chromoblastom		
	ycosis		
•	Phaeohyphomycosis,lobomycosis,rhinosor		
	idiosis, subcutaneous		
	zygomycosis,histoplasmosis,		
	blastomycosis, coccidiomycosis,		
	paracoccidiomycosis.		
	•		

PARASITIC WORMS AND PROTOZOA

Must Know	Should Know	Good to Know
Lymphatic	Larva migrans	Cutaneous amoebiasis
filariasis,leishmaniasi		
S-		
epidemiology,clinical		
features, diagnosis and		
treatment		

ARTHROPODS AND NOXIOUS ANIMALS

Must Know	Should Know	Good to Know
• Scabies and	• Cutaneous	
pediculosis-	myiasis, insect bites	
epidemiology,clinical		
features, diagnosis and		
management		

DISORDERS OF KERATINIZATION

	Must Know		Should Know		Good to Know
٠	ICHTHYOSIS -definition,	•	Multiple sulphatase	•	Neutral lipid storage
	classification		deficiency		disorders
•	Congenital ichthyosis	•	Sjogren larrson	•	KID syndrome
	histopathology, etiology,		syndrome Refsum's disease	•	HID syndrome
	pathogenesis, clinical features, treatment	•	IBIDIS syndrome	•	CHILD syndrome
•	Ichthyosis vulgaris	•	X linked dominant	•	Ichthyosis follicularis with alopecia and
٠	X linked recessive		ichthyosis		photophobia
	ichthyosis	•	Pityriasis rotunda	•	Ichthyosis with renal
•	Colloidan baby	•	Peeling skin syndrome–		disease
٠	Non bullous		acquired, familial	•	Ichthyosis with immune
•	icthyosiform erythroderma Lamellar ichthyosis	•	Transient and persistant acantholytic dermatosis	•	defects Ichthyosis with cancer
	Lamental Tending 0010			•	Keratoderma and

•	Harlequin ichthyosis	• Acrokeratosis verruciformi	associated disorders
•	Bullous icthyosiform erythroderma Ichthyosis bullosa of Seimens Ichthyosis hystrix Netherton syndrome	 Perforating keratotic disorders 	
•	Acquired ichthyosis		
•	Ichthosis with malignancy Ichthosis with non malignant disease Drug induced ichthyosis Erythrokeratoderma		
•	Erythrokeratoderma variabilis Progressive Symmetrical erythrokeratoderma		
•	Keratosispilaris		
•	Keratosis follicularis spinulosadecalvans Pityriasis rubrapilaris		
•	Darier'sdisease		
•	porokeratosis		
•	PALMOPLANTAR KERATODERMA diffuse, transgradient, focal, striate ACANTHOSIS NIGRICANS confluent		
	and reticulate pappilomatosis		

PSORIASIS

	Must Know		Should Know	Good to Know
•	Epidemiology	•	Different scoring	
•	Aetiology and pathogenesis Histopathology		systems in psoriasis like PASI, NAPSI etc	
•	ClinicalFeatures			
•	Complications			
•	Differentialdiagnosis			
•	Prognosis			
•	Management- topical,systemic and biologictherapies Pustular psoriasisandpsoriatic arthropathy			
•	Nail psoriasis			

NON-MELANOMA SKIN CANCER AND OTHER EPIDERMAL SKIN TUMOURS

Must Know	Should Know	Good to Know
 Epidemiology and risk factors Clinical features, diagnosis and management of NMSC Basal cell carcinoma Squamous cell carcinoma Premalignant epithelial lesions- Actinickeratosis,Bowen'sdisease,Cut aneous horn Erythroplasia of Queyrat,seborrheickeratoses,dermatoses papulosanigra,skintags,keratoacanthoma ,pseudoepitheliomatoushyperplasia,milia 	 Molecular and cellular biology-role of UVR and HPV Arsenical keratoses,Disseminate d superficial actinic porokeratosis,Bowen oid papulosis steatomacystom a multiplex epidermal cyst trichlemmal cyst keratoacanthoma 	

TUMOURS OF THE SKIN APPENDAGES

Must Know	Should Know	Good to Know
 Syringoma, trichoepithelioma, pilomatricoma, Paget's disease Comedone nevus 	 Syringocystadenoma pappiliferum Cylindroma Apocrine & eccrine hidradenoma Eccrine poroma Paget disease of nipple 	 Other appendageal Tumours Epidermal cyst Milia Steatocystoma multiplex

DISORDERS OF CUTANEOUS MELANOCYTE

Must Know	Should Know	Good to Know
• Ephelids, lentiginosis and itstypes	syndromes	ABNOM
 Naevi – melanocytic, spitz, halo, congenital melanocytic Nevus of ota and ito 		(Hori's naevus)
Mongolianspot		
Malignant melanoma of theskin-		
• etiology,variants,histopathology,staging,manageme ntandprevention		

DISORDERS OF SKIN COLOR

N	lust Know	Should Know	Good to Know
•	The basics of melanocytes- EMU,distribution,embryology,finest ructure,melanogenesis	 Melanocyte culture,pathogenesis of disorders of pigmentation 	• Exogenous pigmentation
•	Hypermelanosis- Lentiginosis,ephelides,hereditarydiso rders,hypermelanosis due to systemic disorders and drugs,postinflammatoryhypermelano sis,erythemadyschromicumperstans,f acial melanoses,dermalmelanoses,treatment		
	Hypomelanosis-Vitiligo,genetic and naevoid disorders	 Acquired hypomelanosis, endogeneous and exogeneous non-melanin pigmentation Scoring systems of vitiligo severity / activity Vitiligo surgeries 	

BULLOUS ERUPTIONS

1) CONGENITAL AND INHERITEDDISEASES

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
Epidermolysis Bullosa		Molecular genetics
o Classification, diagnosis		
• EBsimplex:		
 Molecularpathology 		
○ Clinicalfeatures	Subtypes	
o Diagnosis,d∕d		
○ Management		
• JunctionalEB:		
• Molecularpathology		
• Clinicalfeatures		
 ○ Diagnosis,d/d 	Subtypes	
• Management		
• DystrophicEB:		
∘ Molecularpathology		
○ Clinicalfeatures		

o Diagnosis,d/d		
o Management	Subtypes	
• Hailey-haileydisease:		
 Etiopathogenesis 		
• Clinical features complications,		
treatment		
	Genetics	

IMMUNOLOGICAL BLISTERING DISORDERS

a) Intra-epidermalblistering

IMMUNOLOGICAL BLISTERING DISORDERS					
a) Intra-epidermalblistering					
MUST KNOW	SHOULD KNOW	GOOD TO KNOW			
 Structure and functioning of Desmosome & Hemi desmosome Dermo - epidermaljunction 	Molecular functionalanatomy				
• Pemphigus:					
oetiopathogenesis,	Molecular functionalanatomy				
oimmuno- pathology,					
ogenetics,					
oclinical features,					
odiagnosis (differential),					
oManagement,					
oprognosis					
• P. Vulgaris: asabove					
• P. Vegetans: asabove					
• P. Foliaceus: asabove					
• P. Erythematosus: asabove Paraneoplastic pemphigus: as above					

b) Sub-epidermal blistering

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
BullousPemphigoid:		
etiopathogenesis,		
immunopathology,		
genetics,		
clinical features,		
diagnosis (differential),		
Management,		
prognosis		
Cicatricial		
Pemphigoid:as above		
Pemphigoid		
(Herpes)		
gestationis: asabove		
• Linear IgA Immuno-		
bullous disease: asabove		
• EpidermolysisBullos		
a Acquisita: asabove		
• Bullous SLE: asabove		
Dermatitis Herpetiformis:		
as above		

c) Miscellaneous Blistering Disorders

Must know	Should know	Good to know
Sub-cornealPustular	• Bullae in renaldisease	
Dermatosis	• Diabeticbullae	
• Acantholyticdermatoses:		
transient & persistent		
• Approach to		
blistering disorders		

LICHEN PLANUS & LICHENOID DISORDERS

Must know	Should know	Good to know
Lichen Planus &Lichenoid		
Disorders:		
etiopathogenesis,	• LP- Psoriasis overlap	
clinical Definition,		• Nekam sdisease
features,		
variants,		
Differential diagnosis,		
histology,		
complications,		
associations,		

Treatment,	
prognosis,	
• Lichenoidreactions,	
• Drug inducedLP	
• Lichennitidus	
 Concept of Ashy dermatosis and lichen planuspigmentosus 	
• GVHD	
• Bullous LP & LP pemphigoides	
• Dermoscopic findings	

DISORDERS OF THE SEBACEOUS GLANDS

	Must know		Should know		Good to know
	Must knowSebaceousGlandStructure,FunctiondistributionFunct ⁿ ofsebumComposition &biosynthesis of sebumEndocrine control of sebaceousglandAcneVulgarisdefinitonetiologyClinical featuresFactors affecting	0 0 0 0	Should know Histochemistry &ultrastructure Development Syndromic Associations ofacne Lasers and photodynamic therapy in acne	0	Good to know Measurement of sebaceous activity & sebumproduction
0 0	(differential)diagnosis Management				

• Acnevariants	
o acneexcoriee,	
\circ acneiformeruptions,	
o cosmetic,	
o occupational,	
o chloracne,	
o acneconglobata,	
o pyodermafaciale,	
o acnefulminans,	
• G-vefolliculitis	
o Steroidacne	
o Drug inducedacne	
o Adult onsetacne	
• Seborrhea	
Ectopic sebaceous glands	Sebaceous glandtumors
Complications of	
acne.	• Classification
• Acne scars	• Sebaceouscyst
management	

DISORDERS OF SWEAT GLANDS

Must know	Should know	Good to know
 Sweat Gland(Eccrine) Anatomy &Physiology Measurement of sweat glands activity Thermore 	 Naevus sudoriferous Compensatory hyperhidrosis 	 Granulosis rubranasi Diseases associated with abnormal sweat gland
 Hermore gulations Hyperhidrosis 	• Heatstress	 bistology Benign and malignant tumors of sweat glands
 generalized PalmoPlantar &Axillary Asymmetrical 		
 Gustatory An/Hypo -hidrosis 		
 Definition, Etiopathogenesis, Classification 		
 Millaria Etio-pathogenesis, Clinicalfeatures, Variants/types, 		
 Management Apocrine sweatglands Chromhidrosis, Bromhidrosis Fox-Fordycedisease 		Fish odour syndromeHematohidrosis

DISORDERS OF CONNECTIVE TISSUE

Must know	Should know	Good to know
Cutaneous atrophy		o Achenbach's
\circ Causes / classification,		syndrome
 Generalized cutn. atrophy Striae 		
 Localized cutaneous atrophy Atrophoderma 	 local panatrophy 	 Chronic atrophic acrodermatitis
o Anetoderma		acroactiliatitis
• Facial hemiatrophy		
• Poikiloderma		
• Disorders of Elastin		
 Lax skin 		
• Elastotic striae		
 Pseudo Xanthoma Elasticum Definition 		
• Etio - pathology		
• Clinical features,		
• Diagnosis (differential)		
 Managemen t Actinic elastosis Etio- pathogenesis 		
 Clinical features, 		• Linear focal elastosis
• Diagnosis (differential)		Actinic granuloma
o Management		o Clinical features
• Marfan syndrome—		• Elastofibroma
• Etio - pathogenesis,		• Elastoderma
 Clinical features 		• Prolidase deficiency
• Ehlers – Danlos syndrome	• Plantar fibromatosis	
• Types/ Classification,	Osteogenesis imperfecta	
Dupuytren's	Pachydermoperiostosis	
contracture	Relapsing polychondritis	
Knuckle pads Keloid V/s Hypertrophic scars	Peyronie's disease	

PREMATURE AGEING SYNDROMES

Must know	Should know	Good to know
• Pangeria	• Congenital	
• Progeria	progeroid syndrome	
Acrogeria	• Diabetic thick skin	
	• Ainhum & pseudo-ainhum	• leprechaunism
 Perforating dermatoses: Types/classification, 		
• Clinical features,		
• (Etio.) pathology,		
• Management		
Colloid milium		

DISORDERS OF BLOOD VESSELS
FLUSHING & FLUSHING SYNDROMES, ROSACEA, PERIORAL DERMATITIS

Must know	Should know	Good to know
Flushing		
• Definition		
• Etio-pathogenesis,		
Flushing syndromes	Carcinoid syndrome—	
• Classification	• Etiopathogenesis,	
• Rosacea	• Management	
• Definition		
• Etio-pathology,		
• Clinical features,		
• Diagnosis (differential),		
• Management		
Perioral dermatitis—		
• Etio-pathology,		
• Clinical features,		
• Diagnosis (differential),		
• Management & prognosis		

URTICARIAS, ANGIOEDEMA and MASTOCYTOSIS

Must know	Should know	Good to know
Urticaria: Definition	Physical	
• Classification	o Classification,	Omalizumab
\circ Etio – pathogenesis	• Cholinergic urticaria	
• Provoking factors	Cold urticaria	
• Clinical features,	Contact urticaria	
Chronic urticarias	Aquagenic	
\circ Definition,	• Solar	
• Classification	• Autoimmune urticaria	
•Mastocytosis	• Hereditary angioedema	
classification	• Etiopathogenesis	
clinical features	of mastocytosis	
 histopathology 		
 investigations 		
• management		
Urticarial vasculitis		
• Definition,		
• Etiopathogenesis,		
• Clinical features,		
• Management		
• Angioedema		
 Classification 		
 Etio-pathogenesis 		
• Management & prognosis		

SYSTEMIC DISEASES AND SKIN

Must know	Should know	Good to know
Endocrine disorders		• Hyper and
 Cushings disease 		hypopituitarism
• Adrenal insufficiency		• Parathyroid
 Hyper and hypothyroidis m 		 Multiple endocrinopathies syndrome
Cutaneous markers of internal		• Autoimmune
 Paraneoplastic syndromes 		syndrome
• Migratory		Dermatosis associated with
Crohn's disease		esophagus and stomach
• Ulgerative colitie		disorders Bowel associated
• Celiac disease	Skin complications of	dermatitis arthritis
Liver diseases	stones Hemochromatosis	syndrome
		Intestinal polyposis
• Hepatitis		
 Dermatosis associated with liver diseases 	• Subcutaneous fat necrosis	
Pancreatic diseases	• Migratory thrombophlebitis	o Other pancreatic
	• Necrolytic migratory	tumours and
		glucagonoma syndrome

	erythema	
Renal disease		o Renocutaneous syndromes
o Dermatosis associated with renal failure and		Cardiac disease and respiratory
dialysi		disease
s Hematological o Anemia o DIC		Lymphoma, leukemia Skin disorders associated with bony abnormality
 Antiphospholip id syndrome 		
Annular and figurate reactive		
erythemas		

PURPURA

Must know	Should know	Good to know
Purpuras:		
 Purpuras: O Classification, diagnosis Anaphylactoid purpura (HSP)- definition, Etio-pathogenesis, Clinical features, Differential diagnoses, Management iii iii 	 Thrombocytopenic purpuras I.T. Purpura Senile purpura Toxic purpura Itching purpura 	
 Capillaritis (pigmented purpuric dermatoses) Schamberg's Pigmented purpuric lichenoid dermatosis of Gougerot & Blum Lichen aureus Gravitational purpura 	 Majocchi's ds Disseminated Intravascular Coagulation 	 Painful bruising syndrome Purpura simplex Neonatal purpura

CUTANEOUS VASCULITIS

Must know	Should know	—
• Classification of vasculitis and clinical features	Granulomafaciale	•
Single organ small vessel vasculitis	Degos`disease	
Recurrent cutaneous necrotizing eosinophilic vasculitis	• Giant cellarteritis	
• Small vessel immune complex associated vasculitis	Cryoglobulinemic vasculitis	
• IgA vasculitis	• Small vessel ANCA associated	
Granulomatosis with polyangitis	vasculitis	
Erythema elevatumdiutinum		
• Paniculitides		
Poly Arteritis Nodosa		
Hypersensitivity angiitis		
 Vascular lesions of rheumatoiddiseases Etio,path 		
• Investigations		
Leucocytoclasticangitis		
• Definition,		
• Etio-pathogenesis,		
• Clinicalfeatures,		
• Management		
Henoch SchonleinPurpura		
• Definition,		
• Etio-pathogenesis,		
• Clinicalfeatures,		
• Management		
• Pyodermagangrenosum—		
• Definition,		
• Etio-pathogenesis,		
• Clinicalfeatures,		
• Management		
Purpurafulminans—		
o Definition,		

 Etio-pathogenesis, 	
• Clinicalfeatures,	
ManagementSweet`s syndrome	
• Definition,	
o Etio-pathogenesis,	
 Clinical features, Management 	
• Erythemanodosum—	
• Definition,	
• Etio-pathogenesis,	
• Clinicalfeatures,	
• Management	
• Erythemainduratum—	
• Definition,	
• Etio-pathogenesis,	
• Clinicalfeatures,	
• Management	
Wegener'sgranulomatosis	
• Definition,	
• Etio-pathogenesis,	
• Clinicalfeatures,	
o Management	

DISEASES OF VEINS & ARTERIES: LEG ULCERS

Must know	Should know	Good to know
Vasculogenesis, Angiogenesis	• Erythromelalgia	Neurovascular disorders
and ateriogenesis	• Telangiectasias	
• Signs & symptoms of arterial	• Angiokeratoma	
diseases	circumscriptum Venous lakes	
• Investigations	venous lukes	
• Erythromelalgia		
	• Atherosclerosis	
• Physiology of venous	o Prognosis & management	T 1 · 1
	• Thromboangiitisobliterans	• Ischaemic ulcer
• Veins		
• Functionalanatomy,		
• pathology		
Atrophie-blanche		
• Thrombophlebitismigrans		
Venousthrombosis		
• Oedema		
Varicoseveins		
• Chronic venous insufficiency		
• Venous ulcer and its management		
• Mixed leg ulcer		
Hypertensive ischemic ulcerPost phlebiticsyndr		
Causes of legulcers		
• Venousulcer—management		
• Arteriovenous malformations		
Venous malformations		
• Dressings for leg ulcers		

DISORDER OF LYMPHATIC VESSELS

Must know	Should know	Good to know
Lymphangiogenesis		
Functional Anatomy of skin lymphaticsIdentification of skinlymphatics		
• Lymphtransport		
• Immunefunction		
 Immunerunction Clinical presentation of lymphatic dysfunction Oedema/Lymphoedema Epidemiology Pathophysiology Aetiology and classification Clinical features and diagnosis Complication Investigation D/d of the swollen limbs Management of lymphoedema Physicaltherapy Drugtherapy Surgery Provision ofcare 	 Primarylymphoedemas Inheritedform Other geneticform Congenital non hereditary forms oflymphoedema Clinical patterns of pri.lymphoede ma Sec.Lymphoedema Midlinelymphoedema Drug induced lymphedema 	
malformation		• lymphatic tumor
Lymphangiomacirucmscriptum		o acquired progressive
• Diffuselymphangioma		o lymphangiosarcoma
 Cystic hygroma Acquiredlymphatic malformation Acquiredlymphangioma 	 lymphangioma lymphangiomatosis 	
	rymphangiomyomatosisrecurrentacute	
• Lymphangitis	inflammatory episode	oChylous sarcoma
• Kaposisarcoma	Lymphangiothrombosis	o seroma
• lipodermatosclerosis	• Carcinomaerysipeloides	abdominal wall lymphedema

• Yellow nail syndrome	obesity associated lymphedema

HISTIOCYTOSIS

Must know	Should know	Good to know
 Ontogeny & Function of histiocytosis Classification of histiocytosis 		 Benign cephalic histiocytosis Erdheimchesterdisease
 Langerhans cellhistiocytosis Class llahistiocytosis Dermatofibroma Juvenilexanthogranuloma Multicentricreticulohistiocytosis 		 Fat storing hemartomaof dermal dendrocytes Familial sea blue histiocytosis Hereditary progressive mucinoushistiocytosis
Generalized eruptive histiocytomaPapularxanthoma		
 Progressive nodular histiocytosis Xanthomadisseminatum 		
Class llbhistiocytosisDiffuse planexanthomatosis		
 Familial haemophagocyticlymphohistiocyto sis Malakoplakia 		• Virus associated haemophagocytic syndrome
 Necrobioticxanthogranuloma Sinus histiocytosis with massive lymphadenopathy 	Malignant histiocytosisMonocyticleukaemia	
	• Truehistiocytic lymphoma	
	Histiocytic sarcoma	

SOFT TISSUE TUMOURS AND TUMOURS LIKE CONDITIONS

Must know	Should know	Good to know
• Vasculartumours:	• Fibrous and	
 Vasculartumours: Vasculartumours: Classification Pyogenic granuloma oKaposi sarcoma oAngiosarcoma Glomus tumour Peripheral neuroectodermaltumours Schwannoma Solitaryneurofibroma Dlaviformnaurofibroma 	 Fibrous and myofibroblastic tumors: Classification Nodularfasciitis Fibrohistiocytictumor Giant cell tumour of tendon sheath Fibroushistiocytoma Angiomatoid fibrous histiocytoma 	 o Pleomorphic fibroma o Fibro osseouspseudotumour o Ischemicfasciitis o Fibrous hamartoma ofinfancy o Calcifying fibroustumour o Calcifying aponeuroticfibroma o Inclusion bodyfibromatosis o Fibroma of tendonsheath o Collagenousfibroma
 Plexiformneurofibroma Diffuseneurofibroma Tumours ofmuscle Skeletal muscle tumours Tumours of uncertain histogenesis Tumours of fatcell Osteomacutis Cutaneouscalculus Leiomyoma Leiomyosarcoma Rhabdomyosarcoma 	 Plexiform fibrous histiocytoma Atypicalfibroxanthoma Malignant fibrous histiocytoma Glomeruloidhemangioma Epitheloidhemangioma Sinusoidalhemangioma Dermal nerve sheath myxoma Malignant peripheral nerve sheathtumour Congenital smooth musclehamartoma 	 Nuchalfibroma Myxofibrosarcoma oKaposiformhemangio- endothelioma

CUTANEOUS LYMPHOMAS AND LYMPHOCYTIC INFILTRATES

A) PRIMARY CUTANEOUS T CELLLYMPHOMA

Must know	Should know	Good to know
Mycosis Fungoides(MF)	EpidermotropicCD8	• CD30+cutaneous
• Follicularmucinosis	+ cytotoxiclymphoma	lymphoproliferative disorder
Pagetoidreticulosis	• Large cell CD 30-	• Regressing CD30+large
 Granulomatous slackskin 	cutaneous lymphoma	cell cutaneousltmphoma
• Sezary'ssyndrome	Pleomorphic CD30- cutaneouslymphoma	Secondary cutaneous CD30+anaplastic large
• Lymphomatoidpapulosis	en mine en sy niprior min	cell lymphoma
• Primary cutaneous		
CD30+ large		
celllymphoma		
CD30+ large cell cutaneous		
lymphoma with regional		
nodal		
involvement		

B) SECONDARY CUTANEOUSLYMPHOMA

Must know	Should know	Good to know
Subcutaneous panniculitis	• Extra nodal NKcell	Lennert's lymphoma
like T cell lymphoma	lymphoma	
 Adult T cellleukaemia lymphoma Primary cutaneous B cell lymphoma Follicle centre celllymphoma 	• BlasticNK celllymphoma	
 Leukaemiacutis Cutaneous Hodgkins disease 		

C) PRIMARY CUTANEOUS B CELLLYMPHOMAS

Must know	Should know	Good to know
	• Follicle centrecell	Marginal zonelymphoma
	lymphoma	• Large B celllymphoma
	Cutaneous plasmacytoma	

D) PSEUDOLYMPHOMAS

Must know	Should know	Good to know
Parapsoriasis		
• Actinic reticuloid		
• Lymphocytomacutis		
Jessner's lymphocytic		
infiltrate		

SUBCUTANEOUS FAT

Must know	Should know	Good to know
• Obesity	o Cellulite	
 General pathology of adiposetissue Panniculitis Septalpanniculitis 	 Frontalis associatedlipoma Hibernoma Lipomatosis 	
 Lobularpaniculitis Mixedpanniculitis		
o Panniculitis with vasculitis• Lipodystrophy• Localizedlipoatrophy		
 Partial or generalized lipoatrophy Lipoma 		
• Angiolipoma		

THE CONNECTIVE TISSUE DISEASES

Must know	Should know	Good to ki
Lupuserythematosus	Dermatological manifestation	
 Discoid lupus erythematosus 	of rheumatoid disease	
• Subacute cutaneous lupuserythematosus	• Still's disease	
• Systemic lupus erythematosus		
• Neonatal lupus erythematosus		
• The lupus anticoagulant, anti cardiolipin antibodies and the antiphospholipid		
Scleroderma		
 Localizedmorphea 		
• Gen.Morphea		
• Pseudoscleroderma		
 Occupational scleroderma 		
• Iatrogenicscleroderma		
 Graft –versus –host disease 		
 Eosinophilic fasciitis 		
 Systemicsclerosis Mixed connectivetissuedisease 		
Cold, flexedfinger		
• Lichensclerosus		
• Scleroedema		
• Dermatomyositis		
Sjogren syndrome Rheumatic fever		

NUTRITIONAL AND METABOLIC DISEASES

Must	Should know	Good to know
kno		
W		
 The cutaneousporphyrias Etiopathogenesis laboratory testing inporphyria Clinicalfeatures The individualporphyrias Porphyriaswhich cause cutaneousdisease Porphriaswhich cause cutaneous disease and acute attack Mucinoses Classification of the cutaneous mucinoses Lichenmyxoedematous Amyloid and the amyloidoses of theskin Primary localizedcutn. Amyloidosis Sec. Localizedcutn. Amyloidosis Systemicamyloidosis Primary and myeloma associated cutn.Amyloidosis Sec. Systemicamyloidosis Angiokeratoma corporis 	 Reticular erythematous mucinosis Self healing juvenile cutaneousmucinosis Cutaneous mucinosis of infancy Papulonodular mucinosis associated withS.L.E. Cutaneous focalmucinosis Acral persistantpapular mucinosis Mucinosis naevus Follicularmucinosis Secondarymucinoses Mucopolysaccharidoses Mucolipidoses Dialysis related amyloidosis Inheritedsystemic amyloidosis 	 o Cutaneous mucinosis in the toxic oil syndrome G.K o Neutral lipid storage disease o Farbersdisease e Disorders of aminoacid metabolism o Hyperphenylalaninaemiasyndrom e o Tyrosinemia o Alkaptonuria o Homocysteinurias o Hartnupdisease
diffusum		

•	Xanthomas and abnormalities of lipid metabolism andstorage Lipidmetabolism	
0 0 •	Genetic primary Hyperlipidemias Lipid storagedisease Nutrition and theskin Malabsorption	 Gaucher'sdisease Niemann Pickdisease
0	Vitamins	
•	Kwashiorkor andmarasmus	
•	Calcification and ossification of theskin Ironmetabolism	
•	Skin disorders in diabetes mellitus	
•	Granulomaannulare	
•	Necrobiosislipoidica	
•	Granulomamultiforme	

SARCOIDOSIS

Must know	Should know	Good to know
Sarcoidosis		
\circ Definition	• Unusual and atypical forms	
 Epidemiology 	Associateddisease	
 Aetiology 	 Course and prognosis 	
\circ Histopathology	• Other sarcoidalreaction	
 Immunologicalaspects 	• Infection	
• General manifestations	• Foreignmaterial	
of sarcoidosis	 Crohn'sdisease 	
• Staging of the disease	• Whipple'sdisease	
• Systemicfeatures	• Farmer'slung	
• Sarcoidosis of theskin	• Othercondition	
• Management		
 Investigation 		
o Biopsy		
o Kveimtest		
• Otherinvestigation		
o Treatment		
• Topical therapy		
Systemictherapy		

THE SKIN AND THE NERVOUS SYSTEM

Must know	Should know	Good to know
Skininnervations	Neuroimmunology	
 Sensoryinnervations 	 Neurophysiological 	
o Autonomic nervoussystem	testing for	
 Wound healing and the trophiceffects 	skininnervations	
Postherpeticneuralgia		
\circ Pathophysiology of pain		
• Prevention of P.H.N.		
○ Management of P.H.N.		
Neuropathiculcer		
• Peripheralneuropathy		
• HIVneuropathy		
• Syringomyelia		
• Tabesdorsalis		
Spinaldysraphism		
• Spinal cordinjury		
	• Disorders associated	
	abnormalities	
	Hereditary sensory	 Trigeminal trophicsyndrome
	autonomicneuropathy	Peripheralinjury
	• Hornersyndrome	Restless legsvndrome
	• Gustatoryhyperhidrosis	
	Chronic skinpain	
	Notalgiaparesthetica	
	• Brachioradialpruritus	
	• Skin achesyndrome	
	• Burning feetsyndrome	

PSYCHOCUTANEOUS DISORDERS

Must know	Should know	Good to know
Introduction	• Body image	Psychoneuroimmunology
 Introduction Emotional factorsin diseases of theskin Psychological importance of skin Disability and quality oflife Classification Delusions of parasitosis Cutaneous phobias Anorexia nervosa and bulimia Self inflicted andsimulated skindisease Lichen simplex and neurodermatitis Acneexcoriee Trichotillomania Factitious skindisease Malingering Cutaneous disease and alcoholmisuse AIDS, HIV infection and Psychologicalillnes s Suicide in dermatological patients 	 Body Image Delusions ofsmell Body dysmorphicdisorder Epidemic hysteria syndrome and occupational mass psychogenicillness Sick buildingsyndrome Psychogenicexcoriation Psychogenicpruritus Onycotillomania and onychophagia Psychogenicpurpura Dermatitissimulate Dermatitispassivata Munchausen's syndrome by proxy Self-mutilation Psychotropicdrugs 	 Psycholeuronninuhology Mind-body efferent immuneinteraction Body- Mind afferent immunereactions Habituation todressings Dermatological pathomimicry Hypnosis Misc.therapies Skin disease in patients with learningdisability
dermatological patients		

DISORDERS OF NAILS

Must know	Should know	Good to know
Anatomy and biology	• Nails in childhood	
ofnail unit	and oldage	
o Structure &	• Abnormalities	
Development	ofnail attachment	
andcomparative		
anatomy		
• Bloodsupply		
• Nail growth		
• Nail signs and		
systemic disease		
• Abnormalities of shape		
• Changes in nailsurface		
• Changes incolour	• Tumours under or adjacent	
• Developmentabnormalities	to the nail	
• Infections- nail and nailfolds	 Beingn tumours Other bone tumours 	
• Dermatoses ofnails	 Vascular tumours 	
• Nail surgery	• Myxoid cyst	
• Patterns of nailbiopsy	• Squamous cell	
• Lateralmatri	carcinoma	
x phenolization	• Epithelioma cuniculatum	
• Traumatic nail disorders	• Keratoacanthoma	
• Acutetrauma	• Melanocytic lesions	
• Chronic	• Other surgical	
repetitive trauma	modalities	
• The nail and cosmetics		

DISORDERS OF HAIR

Must know	Should know	Good to know
 Anatomy andphysiology 	• Types ofhair	• Alopecia in
• Development and	• Disturbance of	central nervous
distribution of	hair cycle/shaft	systemdisorders
hairfollicles	• Developmental	• Other abnormalities
• Anatomy of hairfollicle	defects and	of shaft
\circ Hair cycle and	hereditarydisorders	
hormonal control	• Congenital alopecia	
• Alopecia	and hypotrichosis	
 Common baldness_ 	• Hypertrichosis	
androgeneticalopecia&	• Shampoos	
Pattern Alopecia in Females	• Conditioners	
o Alopeciaareata	• Cosmetic haircolouring	
• Acquired	• Permanentwaving	
cicatricial alopecia	Hairstraightening(relaxing)	
• Infections Scalingdisorders	• Hairsetting	
• Excessive growth of hair	• Complication	
• Hirsutism	• DOAP - Hair	
• DOAP - Lasers and IPL for	Transplantation	
excessive hair growth	• PRP – in Alopecias	
• Variation inHair		
• Pigmentation		

THE SKIN AND THE EYES

Must know	Should know	Good to know
 Anatomy and physiologyof 	 Theeyebrows 	
the eye	• Theeyelids	
 Chronic blepharitis , rosacea , and seborrhoeic dermatitis Immunopathogenisis Treatment Atopy and atopic eye disease Cicatrizing conjunctivitis and the immunobullous disorders Erythema multiforme major and toxic epidermal necrolysis Systemic disease with skin and eyeinvolvement Ocular complicationsof dermatological therapy 	 The lacrimalglands The pre-cornealtear film Disorders affecting the eyebrows and eyelashes Infections Viralinfections Bacterialinfection Parasiticinfection Inheriteddisorder Tumors Benign and malignant tumors of eyelids 	

EXTERNAL EAR

Must know	Should know	Good to know
 Dermatoses and external ear Systemic disease and the externalear 	 Anatomy andphysiology Examination Developmentaldefects 	 Ageingchanges Tumors of pinna and external
	• Traumaticconditions	

THE ORAL CAVITY AND LIPS

Must know	Should know	Good to know
• Biology of themouth	• Disorders affecting the	
• Immunity in the oralcavity	teeth and skin	
 Examination of the mouth and perioralregion Disorders affecting the oral mucosa orlips Genetic and acquired disorders affecting the oral mucosa orlips White or whitishlesions Pigmentedlesions Redlesions Lumps andswellings Various orocutaneous syndromes Oral manifestations of systemic diseases Acquired liplesions 	 o Ectodermaldysplasia Disorders affecting the periodontium o Gingival disorders affecting theperiodontium o Genetic disorders affecting the periodontium o Acquired disorders affecting the periodontium 	
• Cheilitis		
• Lupuserythematosus		
• Sarcoidosis		

THE BREAST

Must know	Should know	Good to know
• Gynaecomastia	Breasthypertrophy	Supernumerary breast
• Physiological	• Gigantomastia	or nipples
• In endocrinedisorders	o Management	
• In nutritional,	of gynaecomastia	
metabolic, renal and	• Hypomastia	
hepaticdisease	Rudimentarynipples	
• Drug-induced	• Adnexal polyp of	
• Morphea	neonatal skin	
• Silicone breast implant	• Invertednipple	
and autoimmunedisease		
Cracked nipple inlactation	• Hyperkeratosis of	
• Lupuspanniculitis	nipple andareola	
Sarcodosisofbreast	• Jogger's and cyclist's	
• Sebaceous hyperplasia or areolae	f • Nipplepiercings	
Breastabscess	Artefactual	
Basal cell carcinomaof	breastdisease	
nipple	Vasculitis of	
Seborrhoeicwart	thebreast	
 Mondor'sdisease 	• Erosive	
	adenomatosis of	
	nipple	
	Breasttelangiectasia	

THE GENITAL, PERIANAL AND UMBILICAL REGIONS

Must know	Should know	Good to know
Generalapproach	• Congenitaland	
Genitocruraldermatology	developmental	Umbilicaldermatology
• Inflammatory	abnormalities of male	• Structure and function
• Infections	and remaie genitaria	• Congenital and
• Male genitaldermatology		s
• Structure and function		• Trauma andartifact
• Trauma and artifact		• Inflammator
• Inflammatorydermatoses		y dermatoses
• Non-sexually transmitted infections		
• Precancerousdermatoses		
• Squamous carcinoma	• Other	
• Female genitaldermatology	neoplasms	
• Structure and function		
• Trauma and artifact		
• Inflammatorydermatoses		
 Ulcerative and bullous disorders Non-sexually 		
transmitted infections		
 Benign tumoursandtumor- like lesions ofvulva Precancerousdermatoses 	• Vulvalmalignancy	

• Perineal and	• Benigntumours	
perianal dermatology	• Premalignant	
\circ Structure and function	dermatoses and	
• Infections	Irank mangnancies	

GENERAL ASPECTS OF TREATMENT

Must know	Should know	Good to know
 General measures in treatment like explanation, avoidance of aggravating factors, regimen, role of diet, food metabolites and toxins Topicaltherapy Cosmetic camouflag e Dressings Systemic drugtherapy Genetherapy 	 Emergency treatment of anaphylaxis Treatment for anxiety and depressive statesin dermatology Medicolegal aspectsof dermatology Counselling patients. How to avoid drug reactions Polypharmacy 	 Alternative therapieslike Physiotherapy Acupuncture Biofeedbac k techniques Behaviourtherapy Heliotherapy Actinotherapy Climatotherapy Homeopathy

DRUG REACTIONS

Must know	Should know	Good to know
Classification and mechanism	• Incidence	
• Histopathology		-
• Types of clinicalreaction	Annular erythemas	
Exanthematous,	• Acute generalized exanthematous	
purpuric, pityriasis rosea like,	 pustulosis Serum sickness 	
psoriasiform,	Eczematous	
exfoliative dermatitis,	• A canthosis nigricans	
anaphylaxis,	- Emuthnomelogie	
urticaria,	 Common drugs responsible for 	
drug hypersensitivity syndrome,	different types of reactions and side effects	
fixed drug eruptions, lichenoid eruptions,	• Differential diagnosis	
photosensitivity,		
pigmentation,	• Investigations	
acneform eruption,		
bullous eruptions,		
vasculitis,		
LE like, DM like, scleroderma like erythema nodosum,		
anticonvulsant hypersensitivity,		
hair and nail changes,		
Management of drugreactions		
Diagnosis		

ERYTHEMA MULTIFORME, STEVENS JOHNSON SYNDROME, TOXIC EPIDERMALNECROLYSIS

Must know	Should know	Good to know
 Erythemamultiforme, Stevens-Johnson syndrome and toxic epidermalnecrolysis Etiology Predisposition inHIV Pathology SCORTEN Diagnosis Treatment Prevention 	 Incidence Common drugs responsible for SJS and TEN Investigations Management in pregnancy and in children Differential diagnosis Fluid replacement Role of steroids,IVIg, & biologics Role of drug challenge Pharmacovigile nce Counselling the attendents 	

RADIOTHERAPY AND REACTIONS OF IONIZING RADIATION

Must know	Should know	Good to know
Indications	Role in benign diseases like	Role in malignant
- Acute	psoriasis,keloids	diseases
Radiodermatitis		Radiationinduced fumors

LASERS

Must know	Should know	Good to know
Basic principles	Laserablation	Skin rejuvenation
• Lasersafety	• Resurfacing	
• Targettissues	• Non-ablative	
• Main types of lasers	skin remodeling	
1. Enumeration	Counselling patients	
2. Wavelengths	patients	
3. Indications	Consent of patient	
4. Role of lasers in	• photography	
Management of scars, vascular lesions,	Record	
hair	maintenance	
removal,pigmentation		
5. Laser combined		
procedures		

RACIAL INFLUENCES ON SKIN DISEASES

Must know	Should know	Good to know
Classification ofraces and their main characteristics	 Racial variationsin pigmentation, hair and cutaneousappendages Diseases with distinct racial or ethnic predisposition 	Racial variationin common diseases

THE AGES OF MAN AND THEIR DERMATOSIS

•	Somaticgrowth		• Enumeration and
	Served development and its offect on	• Pediatric dermatology	identification of
•	sexual development and its effect on		common syndromes
	skin, especially sebaceous activity	• Counselling in adolescent	with short stature
•	Puberty associated hormonal	age group	
	eventsand cutaneouschanges		
•	Enumeration of puberty dermatosis and their clinical features	• Geriatric dermatology	
•	Cutaneous changes with menstrual cycle		
•	Physiological changes related		
	topregnancy		
•	Vascularchanges	• Premature and delayed	
	Deren er er de mer de er e	puberty - causes and	
•	Pregnancydermatoses	presentation	
	- Pruritusgravidarum	• Disorders of menopause	
	- Pemphigoidgestationis	• Agingskin	
	- Pruritiuc urticarial papules and	-Concept of Geriatric	
	plaques ofpregnancy	patients & physiological	
	- Prurigo ofpregnancy	changes in ageing skin	
	- Pruriticfolliculitis	-Polypharmacy	
		-Management of late	
		onset Vitiligo, Psoriasis.	
		- Skin disorders associated	
		with aging	
		• Autoimmune	
		progesteronedermatitis	

SYSTEMIC THERAPY

Must know	Should know	Good to know
Systemicsteroids	Hormonalpreparations	• Interleukins
• Antihistamines	NSAIDs	Chlorambucil
• Retinoids	• Cytokines	• Dacarbazine
Cyclophosphamide	• Interferons	• Hydroxyuria
• Methotrexate	• Essential fattyacids	• Melphelan
• Mycophenolatemofetil	• Bleomycin	• Gold
CyclosporinPUVA	Fumaric acidestersPhotopharesis	• Other antiviral drugslike Vidarabine, Idoxuridine
 Intravenous immunoglobulin Penicillamine 	 Plasmapheresis Other anti-retroviral Dethylcarbamazine 	Recent advances in therapeutics.Photopharesis
Antibiotics	 Sulfasalazine 	• Plasmapheresis
• Antitubecular drugs	• Sullasalazine	
Antileprosy drugs		
Antifungal drugs		
Antiviral drugs		
 Acyclovir and its congeners Anti-retroviral drugs 		
• Ivermectin		
 Drugs of peripheral circulation Pentoxyphyllin 		
 Calcium channel blockers Sildenafil citrate 		
 ACE-inhibitors and antagonists Antimalarials 		
• Thalidomide		
Colchicine		

TOPICAL THERAPY

ow Good to know
ycin - Bacitracin
- Gentamicin
n - Polymyxin B
- Tetracyclines
ne - Tolnaftate
s - Undecylenic acid
- Pencyclovir
- Idoxuridine
- Mechlorethamine
- T4 endonuclease V
- Camphor
- Menthol
- Dyes

•	Corticosteroids	
	- Mechanism	
	- Side effects	
	(local and	
	systemic)	
-	Classification	
	- Intralesionalsteroids	
	- Indications	
•	Cytotoxic and	
	antineoplastic agents	
	- Imiquimod	
	- Podophyllin	
	and	
	podophyllotoxi	
•	Depigmentingagents	
	- Hydroquinone	
	- Retinoicacid	
	- Kligmancream	
	- Azelaicacid	
	- Kojic acid	
•	Emollients	
•	Immunomodulators	
	- Tacrolimus	
	- Pimecrolimus	
•	Retinoids	
	- Retinoicacid	
	- Adapalene	
	- Tazarotene	
•	Miscellaneous	
	- Dithranol	
	- Sunscreen	
	- Tars	
	- Vit Danalogue	
	- Minoxidil	

BASIC PRINCIPLES OF DERMATOSURGERY

Must know	Should know	Good to know
• RSTL	• Types of woundhealing	oTissue glues, staples,
• Instruments usedin	• Woundmanagement	wound closure tapes,
dermatosurgery		
• Methods ofsterilization		
• Suture materials:		Newer wound healing
o Classification,		products such as topical
∘ Suture size,		Epiderinar growth factors
\circ Type and size of needle		
• Types of suturing:		
o simple interrupted,		
o mattress, vertical & horizontal		
\circ Intradermal buried,		
\circ S.C. buried,		
 Running subcuticular, 		
◦ Figure of 8		
Suture removal		
Preoperative workup:		
o medication,		
o part preparation		
o relevant investigation		
• Types of local anesthesia:		
• Topical/surface,		
\circ infiltration,		
o tumescent,		
 field blocks, 		
 nerve block 		
• Types of Anesthetic agents		
• Waste segregation & disposal		
 Patient counseling, psychological assessment and consent Emergencies and their management in 		
dermatosurgery (vasovagal reaction,		
anaphylaxis, haemorrhage)		
STANDARD DERMATOSURGICAL PROCEDURES

Must know	Should know	Good to know
• Electrosurgery:	oPhysics: basic principles	• Intralesionalsclerotherapy
oTypes (Electro-fulguration,		
-section, -cautery, etc.)		
 o Indications Curettage: Indications, Techniques: combination with E.C. Intralesional steroid therapy: Indications Dosage Chemical cautery: Use of Agents (TCA, Phenol) Indications 	 Radiofrequency surgery: Physics, circuitry, Techniques, Types, Indications Agents other than TCA, Phenol 	 Various agents of sclerotherapy Intralesionalsclerotherapy And different Techniques of sclerotherapy Styptic agents: Hemostasis
• Cryosurgery :		
 Mech. Of action, Cryogens and their properties, Techniques – dip stick, spray, probe, Indications Excision Bx Epidermal cyst excision – Indication and technique Corn enucleation 		

SPECIAL DERMATOSURGICAL PROCEDURES:

Must know	Should know	Good to know
• Dermabrasion:	 Facial cosmetic units 	• Instrumentuse,
• Preoperative workup,	 Microdermabrasion 	 procedure,
oinstruments used,	 Mechanism ofaction, 	 complication
oindications,	 Indications/Limitations 	
∘ Techniques		
∘ Post-opcare		
• Vitiligo surgery & skingrafting:		
○ Punchgraft,	 Split-thicknessgraft 	o Non cultured
 Suction blistergraft, 	o Tattooing	Melanocyte-
oideal donor sites/sites to be avoided		technique
o types of post operative dressing		
split thickness graft		
• Nail surgery :	• Chemical peel:	
◦ Intra matrix injection.	• Classification/types	Keloid: debulking
∘ Nail matrix Bx,	(AHA, BHA, others)	◦ Methodology
o Nail unit Bx	 Combination peels 	• Pre- & Post-op care
• Partial & complete nail avulsion	• Scar revision – techniques	
Hair restoration surgery		o Circumcision
• Principles	• Male genitalia –	- Tissue Augmentation:
∘ Types	o dorsal slit	Principles
◦ Indications	• Botunimum toxin:	o Materials
• Lasers	○ Pharmacology&	o Techniques
• Dermal fillers –	mechanism of	0 rechniques
- type and indications	action,	• Far nose and
Iontophoresis:	o contra indications,	body piercing
• Mechanism, indications, contra-	o available preparation	• Ear lobe repair
Indications	• Dermal fillers –	o storage.
• Procedures	- type and indications	o dilution and dosage,
• Eletroepilation:		o procedure,
o Indications		
• Contraindications,		• Linosuction
• Types - electrolysis, thermolysis		

SEXUALLY TRANSMITTED INFECTIONS

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
 Anatomy Anatomy of male and female genital tract (including blood supply and lymphatic drainage) Microbiology & Immunology Normal/abnormal genital flora 	 Role of lactobacilli Risk factors for transmission of STD 	 Mucosal immune system in males and females Bacterial adhesins Strategies for development of mucosal immune response to control STI
 Syndromic approach Etiology, clinical features, and management of the following STI syndromes: ➢ Genital ulcer disease 		
 Vaginal discharge Urethral discharge Inguinal bubo Scrotal swelling Lower abdominal pain Ophthalmia neonatorum NACO guidelines for management of various STDs Viral STDs Genital herpes virus infection 		 CDC guidelines for management of various STDs Morphology of virus

 (HPG) Life cycle including latency & reactivation Clinical presentation Primary episode Non-primary first episode Recurrent episode Lab diagnosis Specimen collection Cytology (Tzanck) 	 Epidemiology & transmission Immune response Complications like aseptic meningitis, encephalitis, radiculomyelopathy dissemination etc. Lab diagnosis Antigen detection by IF, IP, EIA etc. DNA hybridization 	
 Culture Histopathology Serological diagnosis Nucleic acid amplification tests (NAATs) 	based molecular tests	
 including PCR & LCR Treatment Drugs for HSV NACO guidelines for treatment of primary & recurrent episodes in immunocompetent & immunocompetent & immunocompromis ed host. 	 Treatment Parenteral treatment for severe infection Treatment of acyclovir- resistant herpes Treatment of HPG in pregnancy HIV & genital herpes 	 Treatment - CDC guidelines HSV Vaccines Recent advances in diagnosis and treatment
 <u>Neonatal herpes simplex</u> <u>infection</u> Modes of transmission and relation with nature of 	 Laboratory diagnosis Treatment	

 maternal infection and immunity. Clinical presentation asymptomatic, localized, disseminated disease. 		
Human papilloma virus infections (HPV) • Clinical presentation – condyloma acuminata, papular, macular, giant warts (Buschke- Lownestein) etc.	 Epidemiology & transmission Immune response 	• HPV induced carcinogenesis – high- risk serotypes, mechanism of neoplasia & screening
 Lab diagnosis Acetowhite test Histopathology Treatment Treatment options like chemical cauterization, physical modalities and other drugs. NACO guidelines 	 Lab diagnosis Antigen detection Molecular tests – DNA hybridization, PCR etc Treatment in pregnancy HPV infection with HIV 	 Treatment - CDC guidelines HPV vaccines Recent advances in diagnosis & treatment
 Genital molluscum contagiosum (MC) Clinical features Lab diagnosis – Microscopy – HP bodies Pathology (biopsy) Treatment options for localized and disseminated lesions 	Morphology of virusMC in HIV infection	• Differential diagnosis of MC-like umblicated lesions
HIV		

- Structure & biology of HIV
- Modes / risk factors for transmission
- Cutaneous manifestation of HIV (infective / non infective)
- PEP prophylaxis indications, source code, exposure code, regimen, monitoring, side effects, adherence
- Lab diagnosis of HIV
- Disease classification / staging
- HAART
 - Classification of ART drugs
 - NACO guidelines on indications, first line regimens, patient monitoring
 - Side effects of ART

drugs

- Mechanism of depletion of CD4 cells, role of cytokines etc.
- HAART
 - ART failure
 & second line
 regimens
 - Pediatric ART dose, regimens, side effects, monitoring
 - Adherence to ART

& ART drug resistance

• Sentinel surveillance	 Management of HIV in pregnancy – regimen, doses, monitoring, side effects Prevention of mother to child transmission National AIDS control programme (NACP) - phases, goals, targets and achievements 	 Management of HIV patient in tuberculosis, hepatitis, injection drug abusers Immune reconstitution inflammatory syndrome (IRIS) Indications for CPT prophylaxis & management of opportunistic infections Kaposi's sarcoma – etiology, clinical variants, treatment modalities New drugs or approaches to target HIV
 Bacterial STDs Syphilis Structure of <i>Treponema pallidum</i> Modes of transmission Natural history of disease (course of untreated syphilis) Classification of syphilis Clinical presentations of primary, secondary, tertiary syphilis Clinical features of different 	 History of syphilis – Columbian and environmental theory Pathogenesis of disease Immune response 	 Mechanism of motility Treponemal antigens

 stages – primary chancre, variants of secondary stage (chancre redux, syphilis de emblee, pseudochancre redux), tertiary syphilis (gumma, other manifestations) Lab diagnosis – DGI, serological tests (treponemal and non treponemal tests), false positive VDRL / TPHA 	 Malignant syphilis Cardiovascular syphilis Neurosyphilis- different stages Charcot joints Lab diagnosis - technique, monitoring & positivity of tests in 	 Complications of primary and secondary stages Histopathology in different stages
 Treatment – NACO guidelines 	different stages	
• Congenital syphilis – clinical manifestations	 Freatment in pregnant patient Jarisch herxheimer reaction- etiology, clinical features, management Syphilis & HIV Congenital syphilis management 	 Treatment CDC guidelines Treatment of penicillin- allergic patients & desensitization Syphilis vaccines Endemic syphilis (yaws) - clinical features, diagnosis & treatment
<u>Chancroid</u>		
 Morphology <i>of H ducreyi</i> Clinical features including variants Lab diagnosis 	Growth characteristics of H ducreyi	• Drug resistance in chancroid
 Microscopy Culture Serology Treatment – NACO guidelines 	 Lab diagnosis Histopathology Molecular techniques like PCR Chancroid & HIV 	• Treatment – CDC guidelines

 Gonococcal infections Morphology & biology of <i>N gonorrhoea</i> Clinical features & complications including acute urethritis, acute & chronic complications, anorectal, pharyngeal and disseminated infection Lab diagnosis – Specimen collection & transport Microscopy 	 Genetic characteristics and strains Lab diagnosis – Antigen detection tests Serological tests DNA hybridization based molecular tests like PACE etc. 	
 Nucleic acid amplification tests (NAATs) including PCR & LCR Treatment – 	 Gonorrhoea in pregnancy HIV & gonorroea Drug resistance in gonorrhoea 	
 NACO guidelines for uncomplicated and complicated gonococcal infections <u>Chlamydia trachomatis</u> <u>infections</u> Clinical features & complications – entire spectrum of urethritis, cervicitis, proctitis, neonatal conjunctivitis, and related complications. Lab diagnosis – Specimen collection & transport 	 Morphology & biology of <i>C trachomatis</i> Lab diagnosis – Antigen detection tests Serological tests DNA hybridization 	 Treatment – CDC guidelines Gonococcal vaccines Recent advances in diagnosis & treatment
 & transport > Microscopy > Culture > Nucleic acid amplification tests (NAATs) including PCR & LCR Treatment – NACO guidelines 	based molecular tests like PACE etc	• Treatment – CDC guidelines

 Lymphogranuloma venereum Clinical features – including different stages and complications Bubo and types of bubo Lab diagnosis – specimen collection cytology culture Treatment NACO guidelines Surgical 	 Epidemiology & transmission Pathogenesis & pathology Lab diagnosis – antigen detection serological tests molecular tests like PCR, RFLP HIV & LGV 	• Treatment – CDC guidelines
 Donovanosis Morphology of organism Clinical features including clinical variants & complications pseudobubo Lab diagnosis- specimen collection 	 Epidemiology & transmission Pathogenesis & spread of disease HIV & Donovanosis 	
 specimen collection microscopy histopathology isolation of organism Treatment NACO guidelines Surgical 		• Treatment – CDC guidelines

 Bacterial vaginosis (BV) Epidemiology & risk factors Pathogenesis including alteration of mucosal microflora and biochemical changes Clinical features Lab diagnosis – Amsel's criteria Treatment – NACO guidelines Types of vaginal discharge in different genital diseases. Pelvic inflammatory disease (PID) • Epidemiology & risk factors Microbiology of PID 	 Complications Lab diagnosis – Nugent's criteria BV in pregnancy 	 Treatment – CDC guidelines Differential diagnosis of acute pelvic pain Treatment - CDC guidelines
 Clinical features & complications Lab diagnosis Treatment - NACO guidelines Fungi, protozoa & arthropod infections 		
 Genital candidal infections (VVC & CBP) Predisposing factors Clinical features VVC in females - uncomplicated and complicated disease CBP in males Candidal hypersensitivity Lab diagnosis – microscopy 	 Epidemiology including risk factors Mycology of albicans and non-albicans candida Lab diagnosis – newer Role of candidiasis as STD and non STD 	

and culture

• Treatment

- topical and oral drugs
- NACO guidelines for uncomplicated & complicated disease (including pregnancy)

Trichomonas vaginilis infection

- Morphology of *Tvaginilis*
- Clinical features
- Lab diagnosis
 - microscopy
- Treatment NACO guidelines

Genital scabies

- Morphology & life cycle of the mite
- Epidemiology & transmission
- Clinical features typical and special variants
- Lab diagnosis by microscopy
- Treatment -
 - Principles and options
 - NACO guidelines

Phthiriasis pubis

• Morphology & life cycle of the mite

- tests like PCR
- Treatment of fluconazole resistant *C albicans* and non-albicans Candidiasis
- HIV & genital candidiasis

• Lab diagnosis – culture

methods, molecular techniques.

- Trichomonas infection in pregnancy
- Immunity in scabies

• Lab diagnosis by newer

- techniques -
- epiluminiscence
- microscopy, PCR
- HIV & Scabies

• Epidemiology &

transmission

- Clinical features
- Diagnosis
- Treatment NACO guidelines
- Epididymo-orchitis
- Dhat syndrome etiology, clinical features, treatment

- Treatment CDC guidelines
- Recent advances like newer topical and systemic anti-mycotic drugs (like voriconazole)

• Treatment – CDC guidelines

Treatment – CDC guidelines

- Treatment CDC guidelines
- Acute & chronic prostatitis
- Chronic pelvic pain syndrome

LEPROSY

MUST KNOW	SHOULD KNOW	GOOD TO KNOW
 History Epidemiology Transmission Recent Status of Leprosy in India Leprosy control programmes 	• Global scenario	• History of leprosy and treatments of historical interest
Structure of <i>M leprae</i>		
 Humoral response Cell mediated immune response Tests for assessment of CMI Classification of leprosy Immunopathological spectrum of leprosy Ridley Jopling classification 	 Important M.leprae antigens Role of macrophages in leprosy 	• Biochemical characteristics of M leprae
 Paucibacillary and multibacillary leprosy Clinical features Cutaneous Nerve involvement Ocular involvement-causes, 	• Difference Between Madrid and Ridley Jopling classification	• Other classification systems in leprosy
effects due to infiltration and inflammation and reactions Involvement of other mucosae Systemic Involvement in Leprosy-muskuloskeletal, hepatic, renal and reproductive Variants of leprosy like Neuritic, indeterminate, single skin lesion, lucio, histoid , lazarine 	• Sensory and motor dysfunction	

 Differential diagnosis of:Hypopigmental macules Erythematous skin lesions Nodules Peripheral nerve thickening Investigations Slit skin smear including bacterial index, morphological index 		
 Histopathology of skin according to Ridley Jopling classification Lepromin test Clinical tests for sensory, motor and autonomic functions 	 Histopathology of nerves Serology in leprosy esp., PGL-1 ELISA 	 Histopathology of other tissues like kidneys, liver, lymph nodes, mucosae In-vitro testing of M. leprae
 Treatment of leprosy Conventional drugs- dapsone, rifampicin and clofazamine – meachanism of action, pharmacokinetics and side effects Standard and alternative regimes Drug resistance Investigational drugs Vaccines in leprosy Reactions in Leprosy Aetiopathogenesis Clinical features-cutaneous and systemic Differentiate between relapse and reversal Histopathology Treatment - corticosteroids, thalidomide, clofazamine, antimalarials etc 	 Newer and short duration regimes Uniform MDT Tests for drug resistance Immunotherapy in leprosy Classify severity of type 2 reaction Management of nerve abscess 	
Special situations like		

• Pregnancy	
Childhood Leprosy	
• Leprosy and HIV	
Experimental models in leprosy	

• Mice		
Armadillos		
Deformities in leprosy		
 Types- anesthetic, motor and specific deformities involving hands, feet (including trophic ulcer) and face Nerve damage- clinical features and management Assessment 		Other non human primates
• Prevention		
• Management-		
 medical, surgical and physiotherapy Disability prevention & Rehabilitation 	 Disability assessment Physical – prosthesis, surgical 	 Vocational and social Quality of life issues in leprosy Dermoscopy of leprosy

Log book

- Each student must be asked to present a specified number of cases for clinical discussion, perform procedures/tests/operations/present seminars/review articles from various journals in interunit/interdepartmental teaching sessions. They should be entered in a Logbook.
- The Log books shall be checked and assessed periodically by the faculty members imparting the training.

ASSESSMENT

Assessment should be comprehensive and objective assessing the competencies stated in the course. The assessment is both formative and summate. Formative is spread over the entire duration of the programme and the summative is as per university examination pattern.

Formative assessment: During the training, Formative assessment should be continual and should assess medical knowledge, patient care, procedural & academic skills, interpersonal skills, professionalism, self-directed learning and ability to practice in the system. The formative assessment is continuous as well as end-of-term.

The formative assessment is continuous as well as end-of-term. The former is being based on the feedback from the senior residents and the consultants concerned. All the consultants of the unit in which resident is working will give marks based on performance. These marks will be summated over a period of tenure. End-of-term assessment is held at the end of each semester (up to the 5th semester). Formative assessment will not count towards pass/fail at the end of the program, but will provide feedback to the candidate.

Internal assessment: The performance of the Postgraduate student during the training period should be monitored throughout the course and duly recorded in the log books as evidence of the ability and daily work of the student. Marks should be allotted out of 100 as followed.

1. End of term theory examination can be conducted at end of every 6 months and the average calculated.

2. End of term practical/oral examinations can be conducted at the end of every year, final year to be conducted 3 months before their final exam and the average calculated.

The performance of the Postgraduate student during the training period should be monitored throughout the course and duly recorded in the log books as evidence of the ability and daily work of the student. Marks should be allotted out of 100 as follows.

Sr.	Items	Marks
No.		
1	Personal Attributes	20
2	Clinical Work	20
3	Academic activities	20
4	End of term theory examination	20
5	End of term practical examination	20

These marks allotted here can be considered in the final year practical exams under the heading viva.

1. Personal attributes

- a. **Behavior and Emotional Stability:** Dependable, disciplined, dedicated, stable in emergency situations, shows positive approach.
- b. **Motivation and Initiative:** Takes on responsibility, innovative, enterprising, does not shirk duties or leave any work pending.
- c. **Honesty and Integrity:** Truthful, admits mistakes, does not cook up information, has ethical conduct, exhibits good moral values, loyal to the institution.
- d. **Interpersonal Skills and Leadership Quality:** Has compassionate attitude towards patients and attendants, gets on well with colleagues and paramedical staff, is respectful to seniors, has good communication skills.

Clinical work

- Availability: Punctual, available continuously on duty, responds promptly on calls and takes proper permission for leave.
- Diligence: Dedicated, hardworking, does not shirk duties, leaves no work pending, does not sit idle, competent in clinical case work up and management
- Academic ability: Intelligent, shows sound knowledge and skills, participates adequately in academic activities, and performs well in oral presentation and departmental tests.

Clinical Performance: Proficient in clinical presentations and case discussion during rounds and OPD work up. Preparing Documents of the case history/examination and progress notes in the file (daily notes, round discussion, investigations and management) Skill of performing bed side procedures and handling emergencies.

2. Academic Activity

Performance during presentation at journal club/ seminar/ case discussion/inter department meeting and other academic sessions. Proficiency in skills as mentioned in job responsibilities.

3. End of term theory examination conducted at end of 1st, 2nd year and after 2 years 9 months.(three months before the final examination)

4. End of term practical/oral examinations after 2 years 9months. (three months before the final examination)

a. Marks for **personal attributes** and **clinical work** should be given annually by all the faculty under whom the resident was posted during the year. Average of the three years should be put as the final marks out of 20.

b. Marks for **academic activity** should be given by the all faculty who have attended the session presented by the resident.

c. The internal assessment should be presented to the board of examiners for due consideration at the time of final examinations.

General principles

Internal Assessment should be frequent, cover all domains of learning and used to provide feedback to improve learning; it should also cover professionalism and communication skills. The Internal Assessment should be conducted in theory and clinical examination.

Quarterly assessment during the M.D. training should be based on the following academic activities

- 1. Journal based / recent advances learning
- 2. Patient based /Laboratory or Skill based learning
- 3. Self-directed learning and teaching
- 4. Interdepartmental learning activity
- 5. External and Outreach Activities /CME

Summative assessment: At the end of the course, Post Graduate Examination, the summative examination would be carried out as per the Rules given in POSTGRADUATEMEDICAL EDUCATION REGULATIONS, 2000.

The postgraduate examination shall be in the following parts: -

1. Thesis

Every post graduate student shall carry out work on an assigned research project under the guidance of a recognized Post Graduate Teacher, the result of which shall be written up and submitted in the form of a Thesis. Work for writing the Thesis is aimed at contributing to the development of a spirit of enquiry, besides exposing the post graduate student to the techniques of research, critical analysis, acquaintance with the latest advances in medical science and the manner of identifying and consulting available literature.

Thesis shall be submitted at least six months before the Theory and Clinical / Practical examination. The thesis shall be examined by a minimum of three examiners; one internal and two external examiners, who shall not be the examiners for Theory and Clinical examination. A post graduate student shall be allowed to appear for the Theory and Practical/Clinical examination only after the acceptance of the Thesis by the examiners.

2. Theory:

The examinations shall be organized on the basis of 'Grading 'or 'Marking system' to evaluate and to certify post graduate student's level of knowledge, skill and competence at the end of the training. **Obtaining a minimum of 50% marks in 'Theory' as well as 'Practical' separately shall be mandatory for passing examination as a whole**. The examination for M.D. / MS shall be held at the end of 3rd academic year. An academic term shall mean six month's training period. There shall be four theory papers as follows:

Paper I: Paper II: Paper III: Paper IV:

3. Practical/clinical

The practical examination should consist of the following and should be spread over two days, if the number of post graduate students appearing is more than five.

- 1. **One long case**: History taking, physical examination, interpretation of clinical findings, differential diagnosis, investigations, prognosis and management.
- 2. Short cases from various sections of the specialty (three)

4.Oral/Viva-voce Examination Job responsibilities:

RECOMMENDED READING: All dermatogy text books, journals and monograms

TEACHING PROGRAM:

Teaching schedule:

- 1. Journal club Once a week
- 2. Seminar Twice a week

- 3. PG case discussion Once a week
- 4. Group discussion Once a week
- 5. Faculty lecture once a week
- 6. Dermato-Pathology and dermato-radiology Meet Once a month
- 7. Central session As per hospital schedule

8.Discussion on one important drug per month and call it as Drug of Month

9.Debates on few topics so that they can be stimulated to read and also improve their communication skills

SENT UP CRITERIA

The performance of the Postgraduate student during the training period should be monitored throughout the course and duly recorded in the log books as evidence of the ability and daily work of the student. Marks should be allotted out of 100 as followed.

Items	Marks
Personal Attributes	20
Clinical Work	20
Academic activities	20
End of term theory examination	20
End of term practical examination	20
	Items Personal Attributes Clinical Work Academic activities End of term theory examination End of term practical examination

