

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

MD

DERMATOLOGY AND VENEREOLOGY

Dermatology including Venereology (STD) and Leprology is one of the important basic clinical specialties. Considerable advances have taken place in the understanding of dermatological disorders and their treatment. Leprosy is still a public health problem of considerable magnitude in the country.

The STDs are showing worldwide increase in incidence with new dimensions added to it. There is a dearth of trained personnel in the specialty. Very few medical colleges in the country impart sufficient knowledge about these diseases at Undergraduate level and Postgraduate courses are not available in all medical colleges.

GMCS, Surat is known for its excellence in all specialties, particularly in achieving high academic standards. The curriculum of MD Dermatology has been made designed matching the other clinical specialties at the Institute. An attempt has been made to give a comprehensive training to the postgraduates including basic subjects and recent advances.

OBJECTIVES

At the end of this training a candidate should be able to

1. Diagnose and manage independently common skin diseases, sexually transmitted diseases and leprosy.
2. Manage independently and efficiently all medical emergencies related with skin, leprosy and venereal disease.
3. Adopt preventive measures at individual and community levels against communicable skin, venereal diseases and leprosy.
4. Teach requisite knowledge and laboratory skills to other medical/paramedical team members.
5. Adopt a compassionate attitude toward towards the patients (and their families) under his/her charge.
6. Critically evaluate and initiate investigation for solving problems relating to skin, venereal diseases and leprosy.

SKILLS TO BE LEARNT

1. History taking for dermatology, venereology and leprosy.
2. Describe cutaneous findings in dermatological terms in a systematic way.
3. Evaluate and manage the common diseases in dermatology and have a broad idea how to approach an uncommon diseases.
4. Evaluate and manage STD cases.
5. Evaluate and manage HIV positive cases.
6. Systemic examination relevant for dermatologic condition.
7. Maintain basic skills like pulse, blood pressure chest and cardiac auscultation learnt in MBBS.
8. Care of dermatologic emergencies like TEN, Pemphigus, necrotic ENL, angioedema, drug reactions etc.
9. Management of pediatric cases with skin diseases.
10. To achieve adequate skills for tests done in side laboratory in day-to-day practice and be familiar with other sophisticated investigations.

POSTINGS

Teaching Schedule of M.D. and D.D.V.L. Students Department of Dermatology, Venereology and Leprosy Government Medical College, Surat.						
TIME	WEEK DAYS					
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7:30 AM 8:30 AM	WARD ROUND and CASE DISCUSSION					GRAND WARD ROUND
8:30 AM 1:00 PM	O P D with SHORT CASE DISCUSSION					
1:00 PM 2:00 PM	LUNCH BREAK					Dissertation Work Evaluation
2:00 PM 4:00 PM	Journal Reading	Long Case Presentation	PG Lecture	Seminar Presentation	Short Case Presentation	
4:00 PM 6:00 PM	Leprosy clinic	Acne Clinic	Vitiligo Clinic	STD Clinic	Psoriasis Clinic	
	OPD and Dermatosurgery Procedures					

The first year, second year and third year residents shall be posted for 36 months. The students will rotate through outdoor, side laboratory, minor OT, specialty clinics, i.e. leprosy, STD, psoriasis, pigmentation, allergy and dermatosurgery. The postings will be spread over the entire period.

During postings 2nd and 3rd year residents or senior residents will give cover to first year residents and have active involvement in the diagnosis, investigations and treatment of the admitted patients.

Every second year resident and third year resident is posted weekly on alternate Wednesday for **Subjail** visit.

Teaching Programme Weekly

Teaching wards rounds 1

Clinical case conference 1

Seminars 1

Journal club 1

Case presentation and discussion In Leprosy, STD, 10

Psoriasis, Pigmentation and allergy, Dermato-Surgery clinics

Dermatopathology conference 1 weekly

In addition all residents are required to attend afternoon sessions of clinical case rounds and clinical grand rounds on Saturdays.

COURSE CONTENT

Research activity

The candidate will be required to undertake independent research work or associate himself/herself with on-going departmental research work.

Internal assessment

This will be carried out every three months by means of practical with viva examination every six months. It would include dermatopathology and dermatosurgery.

Thesis

Each student is expected to write thesis under the guidance of one or more faculty members as per the institute rules. The work is carried out over and above routine duties. The thesis topic and its progress are discussed in departmental faculty meeting. The protocol to be submitted within 6 months of joining and thesis submission within 2 ½ years of joining the 3 year course.

Evaluation

1. Weekly by senior resident and consultant for regularity, patient care, records and library search.
2. End of ward posting by consultant/senior resident.
3. Quarterly- clinical and viva by all consultants of the department.
4. Final MD examination with 2 external examiners.

Examination pattern

The examination shall be held in the months of Mar-Apr and Sep-Oct or on such dates as may be decided by the Dean of the Institute and it shall be open to all candidates who have completed the prescribed course of study and submitted their thesis work. The examinations shall consist of

1. Theory papers 4 (each of 3 hours duration) and 100 marks each.

Title of the paper

Paper I : Basic sciences, anatomy, physiology, biochemistry, pathology etc. in relation to the specialty

Paper II : Principles of dermatology diagnosis and therapeutics

Paper III : Venereology and Leprology, Principles of diagnosis and therapeutics

Paper IV : Dermatology in internal medicine, including applied clinical aspects, therapeutics, pathology, immunopathology, bacteriology and recent advances.

All questions have to be attempted with no choice.

Board of examiners

Practical and clinical examination

External examiners – 2 – Dermatologists as per the institute guidelines

Internal examiners – 2 – Dermatologist as per the institute guidelines

1. Practical and/or clinical examination will be held on 1-2 days

Long case for Dermatology – 1

Venereology – 1

Leprology – 1

Spots:10-12 Spot same for each candidate

2. Viva voce examination for General dermatology, Venereology and Leprology.
3. Dermatopathology slides three to five.

Syllabus

Main subjects to be covered

1. Dermatology
2. Venereology
3. Leprosy
4. Dermatopathology
5. Dermatosurgery

Dermatology

1. Fundamental
 - History taking and examination of dermatological patient
 - Type of skin lesions
 - Distribution patterns
 - Aids in diagnosis of skin diseases by using magnavision, wood's lamp and dermaoscope etc.
2. Structure and development skin
3. Biochemistry and Physiology of epidermis and its appendages including
 - Melanin synthesis
 - Keratinization
 - Pathophysiologic reactions of skin
 - Basic immunology

Skin Diseases

1. Disorders of Keratinization and epidermal proliferation
2. Disorders effecting skin appendages, hair, nail, sebaceous glands, sweat glands and apocrine glands etc.
3. Neoplastic disorders of skin
4. Genodermatoses
5. Vesiculo bullous diseases, e.g. pemphigus, pemphigoid, erythema multiforme, dermatitis herpetiformis etc.
6. Dermatitis:- exogenous – contact dermatitis, patch testing, endogenous – atopic acquired endogenous nummular
7. Disorders of pigmentation
8. Disorders of collagen and connective tissue
9. Disorders of hair, nail sweat glands, sebaceous glands, apocrine glands, mastocytosis etc.
10. Disorders of mucous membranes
11. Disorders involving genitalia
12. Disorders due to physical agents, heat, cold, light, radiation etc.
13. Disorders due to chemical agents – reactions to chemicals, occupational dermatosis
14. Pyodermas
15. Fungal infections-superficial and deep
16. Viral infection
17. Parasitic infestations, insect bites etc.

Dermatology in relation to internal medicine

Nutritional diseases – protein and vitamin deficiencies

Metabolic disorders

1. Diabetes mellitus
2. Amino acid metabolism
3. Porphyrin metabolism
4. Lipoidosis
5. Dysproteinemias and agammaglobulinemias etc.
6. Carcinoid syndrome
7. Glycolipid lipoidosis
8. Calcinosis cutis
9. Histiocytosis
10. Hematological systems-reticulosis-leukemia etc.
11. Gastro – intestinal system
12. Endocrinal system
13. Neurocutaneous disorder
14. Psychocutaneous disorders

Allergic disorders

1. Anaphylaxis – urticaria / angioedema
2. Serum sickness
3. Reactions drug etc.

Venereal disorders

1. Anatomy of male and female genitalia
2. Syphilis and other treponematoses, immunology, pathology, diagnosis,
3. Treatment, control etc.
4. Gonococcal urethritis and complications
5. Lymphogranuloma venereum
6. Chancroid
7. Granuloma inguinale (Donovanosis)
8. Other disorders involving male and female genitalia
9. STIs and control
10. STI and Reproductive health
11. Epidemiology of STI'S,

AIDS

Transmission, prevention, clinical manifestations, prophylaxis of opportunistic infections, Anti-retroviral therapy, treatment in HIV+ve STD cases.

Leprosy

1. Epidemiology
2. Pathogenesis
3. Pathology
4. Diagnosis – clinical features, classifications, laboratory aids
5. Reactive phase – Ocular involvement, Bone involvement
6. Treatment of leprosy and reactions
7. Leprosy control and rehabilitation etc.

Dermatosurgery

The course would consist of lessons in basic techniques of dermatosurgery or various diseases.

For Vitiligo

- Punch grafting
- Split skin grafting
- Dermabrasion and suction blister grafting
- Tattooing
- Narrow band UVB
- Whole body and Hand foot PUVA chamber

For Acne

- Microdermabrasion
- Scar revision
- Chemical peeling
- CO2 Slush

For Melasma

- Chemical face peels with glycolic and trichloroacetic acid

For Nevi and Keloid, Warts, Skin tags, DPN, etc.

- Cryosurgery
- Excision
- Electrosurgery
- Radiofrequency
- Intralesional therapy

For Psoriasis

- Whole Body PUVA therapy
- Hand foot PUVA therapy unit

For Hyperhidrosis

- Iontophoresis

Teaching methods for Dermatotomy

Teaching methods would include at least 10 theory lectures in the form of seminars and journal club.

Practical demonstration of techniques by a faculty member of a representative case of each disease would be part of dermatotomy clinic. They would also be required to assist during the procedures.

Examination

Theory – The subject is included in paper IV of the theory examination and at least one short note would be from the dermatotomy procedures.

Practical – They would be subjected to questions on various dermatotomy procedures and instruments related to these procedures during their viva voce examination.

Teaching Methods for Dermatopathology

- 10 theory lectures in form of seminar, journal club
- Dermatopathology discussion every week.

Examination – Theory the subject is included in paper IV of theory examination and there would be at least one short note.

Practical – Dermatopathology slides to be discussed in practical examination and viva voce.

POST GRADUATE ASSIGNMENTS

1. Primary and Secondary Skin lesions - Structure and Functions of Skin.
2. Wound Healing
3. Melanocytes, Melanogenesis and its control.
4. Structure, Function and Control of Sebaceous gland.
5. Structure, Function and Control of Sweat gland.
6. Bacteriology of M. Leprae.
7. Animal models in Leprosy.
8. Bacterial infections.
9. Mycobacterial Infections of the Skin.
10. Superficial and Deep Fungal Infections of the Skin.
11. Nerves in Leprosy.
12. Lepra Reactions.
13. Eczemas.
14. Disorders of Pigmentation – I.
15. Disorders of Pigmentation – II.
16. Anatomy and Microscopic Structure of Hair.
17. Anatomy and Microscopic Structure of Nails.
18. Control of Epi-dermopoesis.
19. Anatomy of Male Genital Tract..
20. Anatomy of Female Genital Tract.
21. Bacteriology of T. Pallidum.
22. Syndromic Approach of Reproductive Tract Infections.
23. Muco-cutaneous Manifestations of HIV Infection.
24. Antihistamines.
25. Antifungal Agents.
26. Chemotherapeutic Agents - I.
27. Chemotherapeutic Agents - II.
28. Corticosteroids – I.
29. Corticosteroids – II.
30. Immuno-modulators.
31. Topical Therapy in Dermatology.
32. Sunscreens.
33. Physical & Surgical Therapy in Dermatology.
34. Cutaneous Blood Flow & its control in temperature Regulation.
35. Normal Bacterial Flora of Skin.
36. Women & HIV Infection – Vertical transmission & Prevention.
37. Histiocytosis.
38. Mastocytosis.
39. Sarcoidosis.
40. Paraneoplastic Syndrome
41. Photodermatoses.
42. Nutrition & Skin.
43. Photo-chemotherapy.
44. Retinoids in Dermatology.
45. Nail: Anatomy, Histology and Nails in Systemic Diseases.
46. Acne & Acne form lesions.
47. Psoriasis & Psoriasiform rashes.

48. Systemic Sclerosis.
49. Viral Exanthema.
50. Purpura & Cutaneous Vasculitis.
51. Animal Models in Leprosy
52. Rehabilitation in Leprosy

LIST OF LECTURES

1. Biopsy of skin and its importance and indications. Immunofluorescent techniques.
2. Genodermatoses
3. Neonatal Dermatoses, Dermatoses of Early Infancy and Childhood.
4. Epidermal Nevi and Dermal Nevi.
5. Vascular Nevi.
6. Atopic Dermatitis and its management.
7. Spectrum of Light and normal response of skin to UV Exposure.
8. Abnormal Cutaneous response to UV Exposure, Photodermatoses
9. Cutaneous vasculitis – I.
10. Cutaneous vasculitis – II.
11. Disorders of Pigmentation – I.
12. Disorders of Pigmentation – II.
13. Viral Infections.
14. Disorders of Keratinisation – I.
15. Disorders of Keratinisation – II.
16. Palmo –Plantar keratinisation.
17. Autoimmune Vesiculobullous Disorders.
18. Autoimmune Vesiculobullous Disorders.
19. Autoimmune Mechanobullous Disorders.
20. Connective Tissue Diseases. [Elastin]
21. Connective Tissue Diseases. [Collagen and Miscellaneous]
22. Connective Tissue Diseases. – [Lupus Erythematosus]
23. Connective Tissue Diseases. [Dermatomyositis and ACA]
24. Cutaneous Lymphocytic Infiltration and Pseudolymphoma.
25. Lichen Planus and Lichenoid Disorders.
26. Congenital Metabolic Diseases.
27. Urticaria and its management.
28. Purpuras.
29. Leprosy – I.
30. Leprosy – II.
31. Leprosy – III.
32. Nails in Systemic Diseases.
33. Hirsutism – Etiology, Pathology, Investigations and Management.
34. Hairshaft Abnormality.
35. Syphilis – I.
36. Syphilis – II.
37. Newer Diagnostic Techniques in Diagnosis of Syphilis.
38. Syndromic Approach of Reproductive Tract Infections and its Advantages and Disadvantages.

39. Human Immunodeficiency Virus.
40. Cutaneous and Mucocutaneous Infections of HIV.
41. Antiretroviral Therapy.
42. Reiter's Disease and Non-venereal Genital Diseases.
43. Disorders of dermal Deposits.
44. Oral Lesions in Systemic Diseases.
45. Cutaneous Manifestations of Systemic Diseases – I.
46. Cutaneous Manifestations of Systemic Diseases – II.
47. Cutaneous Manifestations of Systemic Diseases – III.
48. Cutaneous Manifestations of Systemic Diseases – IV.
49. Cutaneous Manifestations of Systemic Diseases – V.
50. Epidermal tumors.
51. Dermal tumors.
52. Physical and Surgical Therapies in Dermatology.
53. Invisible Dermatoses.
54. Disorders of Sebaceous Glands.
55. Disorders of Sweat Glands.
56. Radiotherapy and Reactions to Ionizing Radiation.
57. Psychocutaneous Dermatoses.
58. Geriatric Dermatoses.
59. Newer Investigative Technologies in Dermatology
60. Important Drugs In Dermatology