

DERMATOLOGY AND VENEREOLOGY — M D

Dermatology including Venereology (STD) and Leprology is one of the important basic clinical speciality. 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 speciality. Very few medical college in the country impart sufficient knowledge about these diseases at Undergraduate level and Postgraduate courses are not available in all medical colleges.

AIIMS, New Delhi is known for its excellence in all specialities, particularly in achieving high academic standards. The curriculum of MD Dermatology has been made designed matching the other clinical specialities 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

The first year junior residents shall be posted indoor for 8 months exclusively. For the remaining 28 months the students will rotate through outdoor, side laboratory, minor OT, speciality clinics, i.e. leprosy, STD, psoriasis, pigmentation, allergy and dermatosurgery.

Dermatology Ward	– 8 months	
General Skin OPD	– 16 months	
Minor OT	– 4 months	
Side Laboratory	– 4 months	
STD Clinic	– 4 months	Afternoon weekly speciality clinics
Psoriasis clinic	– 28 months	
Pigmentation clinic	– 28 months	
Leprosy clinic	– 28 months	
Allergy clinic	– 28 months	
Dermatosurgery clinics	– 28 months	

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.

Teaching Programme	Weekly
Teaching wards rounds	1
Clinical case conference	1
Seminars	1
Journal club	1
Case presentation and discussion In Leprosy, STD, Psoriasis, Pigmentation and allergy, Dermato-Surgery clinics	10
Dermatopathology conference	1 weekly

In addition all residents are required to attend Tuesday afternoon sessions of clinical case rounds and clinical grand rounds (a combined activity of the AIIMS).

COURSE CONTENT-ANNEXURE II

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 written test and 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 is 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- with theory, clinical and viva by all consultants of the department. Ten percent total weightage will be given to internal assessment in the final.
4. Final MD examination with 2 external examiners

Examination pattern

The examination shall be held in the months of May and December 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 speciality

Paper II : Principles of dermatology diagnosis and therapeutics

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

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

All papers would have following format

Essay – One long question of 30 marks and 6-7 short notes on covering the prescribed course (10-12 marks each)

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

Semi-Long case	4	Dermatology	–	2
		Venereology	–	1
		Leprology	–	1

Spots: 10-12 Spot same for each candidate

2. Viva voice examination for General dermatology, Venereology and Leprology

3. Dermatopathology slides four to six

Syllabus

Main subjects to be covered

1. Dermatology
2. Venereology
3. Leprosy
4. Dermatopathology
5. Dermatosurgery (including lasers)

Dermatology

1. Fundamental
 - History taking and examination of dermatological patient
 - Type of skin lesions
 - Distribution patterns
 - Aids in diagnosis of skin diseases 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. Gendodermatosis
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, stomatological disorders
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 STIs,

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 lesions in basic techniques of dermatosurgery or various diseases and laser.

For Vitiligo

- Punch grafting
- Split skin grafting
- Dermabrasion and suction blister grafting
- Tattooing

For Acne

- Dermabrasion

- Scar revision
- Chemical peeling

For Melasma

- Chemical face peels with glycolic and trichloroacetic acid

For Nevi and Keloid etc.

- Cryosurgery
- Excision
- Electrosurgery
- Use of CO2 laser

Teaching methods for Dermatosurgery

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 their Minor OT posting, dermatosurgery clinic (3 months). 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 dermatosurgical procedures.

Practical – They would be subjected to questions on various dermatosurgical 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.