

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

FACULTY OF MEDICINE & HEALTH SCIENCES

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Curriculum & time bound programme for
Teaching and Training in MD Course in

[DERMATOLOGY]

CURICULLUM MD DERMATOLOGY VENEREOLOGY AND LEPROSY (DVL)

M D 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. The curriculum of MD Dermatology has been made designed for achieving academic excellence. 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 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, specialty 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

Afternoon weekly specialty clinics

STD Clinic – 28 months

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.

Weekly Teaching Programme

Teaching wards rounds : 1

Clinical case presentations : 1

Seminars : 1

Journal club/Dermatopathology/Thesis discussion : 1

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 will be 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 a 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.
2. Title of the paper
 - a. Paper I : Basic sciences, anatomy, physiology, biochemistry, pathology etc. in relation to the specialty .
 - b. Paper II : Principles of dermatology diagnosis and therapeutics
 - c. Paper III : Venereology and Leprology, Principals of diagnosis and therapeutics
 - d. 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
2. Semi-Long case 4 Dermatology – 2 Venereology – 1 Leprology – 1
3. Spots:10-12 Spot same for each candidate
4. Viva voice examination for General dermatology, Venereology and Leprology
5. Dermatopathology slides four to six

Syllabus

Main subjects to be covered: Dermatology, Venereology, Leprosy, Dermatopathology and 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
4. Pathophysiologic reactions of skin
5. 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 agamma globulinemias 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 disorders
14. Psychocutaneous disorders

Allergic disorders

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

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. Nongonococcal urethritis and its complications
6. Lymphogranuloma venereum
7. Chancroid
8. Granuloma inguinale (Donovanosis)
9. Herpes genitalis, venereal warts and molluscum contagiosum
10. Other disorders involving male and female genitalia
11. STIs and control
12. STI and Reproductive health
13. 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. Reactions in leprosy
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 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.

Date:

(Dr MPS Sawhney)
Prof & HOD