

All India Institute of Medical Sciences (AIIMS), Kalyani

अखिल भारतीय आयुर्विज्ञान संस्थान (एम्स), कल्याणी

(A Statutory Body under the Aegis of Ministry of Health and Family Welfare, GOI)

(स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार के तत्वावधान में एक संबिधिक निकाय)

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Department of Dermatology, Venereology & Leprosy

Post Graduate Curriculum

AIMS & OBJECTIVES

AIM

To start MD course in Dermatology, Venereology & Leprosy

OBJECTIVE

At the end of the three years MD course, the postgraduate student must acquire the following skills:

- Diagnosis and management of patients suffering from dermatological illnesses.
- Diagnosis of leprosy and sexually transmitted infections
- Various dermato-surgical procedures
- Hands-on experience of using phototherapy and Laser machines.
- Emergency procedures like basic and advanced life supports, securing airways by intubation, venous catheterization, etc.
- Awareness about national program and policies.
- Attending emergency cases, identify warning signs in a patient and initiate immediate management protocol.
- Writing case records, progress report, discharge proforma, death report and death care, medico-legal reports

The student must also learn:

- Ethical practice
- Communication skills
- To respect human values.

SYLLABUS

Total duration of training: 3 years

First year

- a. Basic sciences relevant to dermatology, venereology & leprosy
- b. Basic knowledge in microbiology and general medicine
- c. Immunology
- d. Epidemiology, pathogenesis, clinical features and management of dermatological illnesses, venereal diseases and leprosy.
- e. Dermatopathology

Second year

In addition to the above,

- f. Genodermatoses and basics in genetics
- g. Pharmacotherapeutics in dermatology

Third year

In addition to the above,

- h. Dermatosurgery and Cosmetology
- i. Phototherapy and Laser therapy
- j. Recent advances in the field
- k. Radiology in relation to Dermatology

Practical learning throughout the course:

- Side laboratory procedures:
 - Tzanck smear & Giemsa stain
 - Gram stain
 - Slit skin smear & modified ZN stain
 - Hair microscopy
 - Potassium hydroxide mount preparation
 - Wet mount preparation
 - Hanging drop preparation

- Minor OT procedures:

- Skin biopsy
- Chemical cautery
- Electrosurgery & Radiofrequency cautery
- Cryotherapy
- Minor Dermatosurgery
- Vitiligo surgery

- Therapeutic procedures:

- Wood's lamp examination
- Iontophoresis
- Platelet Rich Plasma therapy
- Hands on experience in phototherapy
- Hands on experience in Fractional CO₂ & Nd-YAG Laser therapy
- Hands on experience in dermoscopy
- Chemical peeling

Text books to read to cover the syllabus: *Annexure I*

Journals to Read: *Annexure II*

TEACHING – LEARNING METHODS

A. Teaching schedule

- Subject seminar (2 / week)
- Journal clubs (1 / week)
- Bed side case presentation followed by discussion (Long & short cases) (2/ week)
- Case conferences (Spotter cases) (once / week)
- Grand rounds (once / week)
- Integrated lecture classes
(Pediatrics, Obstetrics & Gynaecology, Endocrinology, Plastic surgery)
- Dermatopathology review sessions with dermatopathologist (once / month)
- Radiology rounds (once / month)

Seminar, Journal club and Case presentation will be conducted under the guidance of a moderator (Faculty)

B. Rotational posting: 1 month

- General Medicine: 15 days
- Pathology: 7 days
- Microbiology: 7 days

C. Mortality meeting (Intradepartmental & Institutional)

D. Teaching sessions on Research Methodology and Statistics (During first 3 months following admission)

E. Dissertation

- Area of interest of the student to be identified by mutual discussion between guide and student and literature search to be initiated.
- Protocol for the dissertation to be written by the student under the supervision of the guide
- Dissertation work to be conducted on daily basis and the guide to be informed accordingly
- Progress report of the dissertation to be presented before the faculties every 3 monthly
- Final dissertation writing and submission: Six months ahead of final examination.

- Dissertation evaluation and approval:
 - A list of tentative dissertation evaluators (from other INIs) will be made
 - The soft copy of the dissertation and the evaluation sheet will be sent to the evaluator.
 - The evaluator must comment in the terms Accepted / Accepted with modification / Rejected (Suggested modification / reason for rejection to be mentioned by the evaluator).
 - Suggested modifications (if any) by the evaluator will be intimated to the student for incorporation.
 - Corrected version will be scrutinized by a departmental committee before final acceptance.
 - If rejected, the corrected version must be re-sent to the evaluator for approval.
 - Submission and acceptance of thesis is a pre-requisite for appearing in final examination.

F. Attending Conferences / workshops / Continuing medical Education

Active participation of the postgraduate students in above events organized at state and national levels.

Participation in Quiz on the subject

G. Development of teaching skills

Postgraduate students must give practical teaching to undergraduate medical students in terms of examination of patients and minor procedures.

H. Development of organizational capacity

Postgraduate students must take active part in organizing CME / conferences / workshop being conducted by the department.

Assessment

Formative:

Regular formative assessment after a teaching session will be done:

- a. By the moderator of the teaching session by filling up appraisal forms (*Annexure III a,b,c*)
- b. By the students by filling up student's feedback form (*Annexure IV*) after each teaching session
- c. Postgraduate students have to fill up their log book / work diary every week and their progress will be assessed by the faculties every week (*Annexure V a, b*)

Summative:

Internal assessment examination

Six monthly examination (theory and practical) will be organized.
During three years' course five such examination will be taken.

A student must secure 50% of the total marks to be considered as 'passed' in the examination.

Average marks secured by a postgraduate student in these examinations will be sent as internal assessment marks.

Final MD examination

To be held at the last month of the course.

Framework for final examination:

Examination board

Two external and two internal examiners will constitute the board of examiners.

A tentative list of external examiners from other INIs has to be prepared and updated at regular intervals.

Examination framework

Theory (Total marks: 400)

Practical (Total marks: 400)

Theory: 4 papers (100 X 4 = 400) (Sample question papers attached; *Annexure VI*)

Paper I: Basics in dermatology, venereology, leprosy, dermatopathology and basic drug formulations

Paper II: General dermatology

Paper III: Leprosy and Sexually transmitted infections

Paper IV: Recent advances in the subject, Dermatosurgery, Cosmetology, Laser therapy

Practical: Total marks: 400

- Long case (general dermatology): 1 (100)
- Short cases: 2 (one case each of Leprosy & STD) (50x2= 100)
- Spotter cases: 10 (5x10=50)
- OSPE stations: 5 (5x5=25); includes dermatopathology, radiology, laboratory procedures
- OSCE stations: 5 (5x5=25); include pictorial clinical scenarios
- Viva voce including pedagogy: 75
- Discussion on dissertation: 25

The student must secure 50% marks individually in each of the theory papers, in viva voce and practical to qualify for passing.

Annexure I

List of textbooks:

Serial	Title	Author / Editor	Year / ED	Publisher
1.	Fitzpatrick's Dermatology (2 volumes)	Kang S, Amagai M, Bruckner AL, et al	9 th /E, 2019	McGraw Hill
2.	Andrews' Diseases of the Skin: Clinical Dermatology	James WD, Elston DM, Treat JR, et al	13 th /E, 2019	Elsevier
3.	Dermatology (2 volumes)	Bolognia JL	4 th /E, 2018	Elsevier
4.	Pediatric Dermatology Schahner	Lawrence A. Schachner, MD and Ronald C	4 th /E, 2011	Elsevier
5	Hurwitz Clinical Pediatric Dermatology: A textbook of skin disorders of childhood and adolescence	Paller AS, Mancini AJ	6 th /E, 2020	Elsevier
6.	Harper's Textbook of Pediatric Dermatology (2 volumes)	Hoeger PH, Kinsler V, Yan AC, et al	4 th /E, 2019	Wiley-Blackwell
7.	Comprehensive Dermatologic Drug Therapy	S.E. Wolverson	4 th /E, 2021	Elsevier
8.	Textbook of Dermatotomy & Cosmetology	Satish Sawant	3 rd /E, 2018	Bhalani Publishing house
9.	Lever's Histopathology of the skin	Elder DE	11 th /E, 2019	Wolters-Kluwer
10.	Weedon's Skin Pathology	Patterson JW	5 th /E, 2019	Elsevier
12.	Sexually Transmitted Diseases	King Holmes	4 th /E, 2008	McGraw Hill education
13	McKee's Pathology of the Skin: With Clinical Correlations (2 volumes)	J. Eduardo Calonje	5 th /E, 2019	Elsevier
14	Baran and Dawber's Diseases of the Nails and their Management	Robert Baran, David A. R. de Berker et al	5 th /E, 2019	Wiley-Blackwell

15	Nail Surgery	Bertrand Richert, Nilton Di Chiacchio, Eckart Haneke	1 st /E, 2011	CRC Press
16	Fisher's Contact Dermatitis	Joseph F. Fowler and Matthew J. Zirwas	7 th /E, 2019	Mc Graw Hill Education
17	Habif's Clinical Dermatology: A Color Guide to Diagnosis and Therapy	Thomas P. Habif	7 th /E, 2019	Elsevier
18	Hair and Scalp Treatments:A Practical Guide	Tosti, Antonella, Asz-Sigall, Daniel, Pirmez, Rodrigo	1 st /E, 2019	Springer Nature
20	Fitzpatrick's Color Atlas and Synopsis of Clinical Dermatology	Klaus Wolff, Richard Allen Johnson, Arturo P. Saavedra, Ellen K. Roh.	8 th /E, 2017	Mc Graw Hill
21	Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal	Belinda Barton Jennifer Peat	1 st /E, 2014	BMJ books
22	Kelley and Firestein's Textbook of Rheumatology (2-Volume Set)	Gary S. Firestein & Ralph C. Budd & Sherine E Gabriel & Iain B McInnes	11 th /E, 2020	Elsevier
23	Dubois' Lupus Erythematosus and Related Syndromes	Daniel Wallace, BevraHannahs Hahn,	9 th /E, 2018	Elsevier
24	Patch Testing and Prick Testing A Practical Guide Official Publication of the ICDRG	Jean-Marie Lachapelle	1 st /E, 2019	Springer

Annexure II

List of Journals

- British Journal of Dermatology
- Clinical and Experimental Dermatology
- JAMA Dermatology
- Journal of European Academy of Dermatology & Venereology
- Journal of investigative Dermatology
- Journal of the American Academy of Dermatology
- Pediatric Dermatology
- Seminars In Dermatology
- International Journal of Dermatology
- International Journal of STD & AIDS
- Indian Journal of Dermatology, Venereology, and Leprology

Annexure III a

JOURNAL CLUB EVALUATION SHEET

Department of Dermatology, Venereology & Leprosy
AIIMS, Kalyani

Name of the Journal:

Title of the article:

1.

2.

Name of the moderator:

Sl.No	Observations	D Poor	C Average	B Good	A Excellent
1	Clarity of presentation				
2	Use of Audio-Visual aids				
3	Time scheduling				
4	Analysis of Study design or report				
5	Analysis of Objectives of the article				
6	Analysis of Materials and methods				
7	Analysis of presentation of Results				
8	Analysis of Discussion of Results				
9	Analysis of Conclusions drawn				
10	Cross references referred				
11	Ability to answer questions				
12	Overall performance				

Remarks

Date

(Signature of moderator)

Annexure III b

SEMINAR EVALUATION SHEET

Department of Dermatology, Venereology & Leprosy
AIIMS, Kalyani

Title of Subject seminar:

Presenter:

Moderator:

Sl.No	Observations	D Poor	C Average	B Good	A Excellent
1	Clarity of presentation				
2	Chronological order of presentation				
3	Use of A-V aids				
4	Time scheduling				
5	Completeness of seminar				
6	Quality / Adequacy of references				
7	Ability to answer questions				
8	Overall performance				

Remarks

Date

Signature of moderator

Annexure III c

CASE PRESENTATION EVALUATION SHEET

Department of Dermatology, Venereology & Leprosy
AIIMS, Kalyani

Diagnosis of case:

Presenter:

Moderator:

Sl.No	Observations	D Poor	C Average	B Good	A Excellent
1	Clarity of presentation				
2	Relevant history taking				
3	Chronological order of presentations				
4	Interpretation of historical finding				
5	General physical examination				
6	Demonstration & interpretation clinical signs & tests				
7	Systemic examination				
8	Summary of the case & diagnosis				
9	Ability to defend diagnosis				
10	Ability to exclude differential diagnosis				
11	Demonstration & interpretation of side laboratory procedures				
12	Order / Interpretation of investigations				
13	Correlation of clinical & laboratory findings				
14	Management strategy				
15	Ability to answer questions				
16	Communication & behaviour with patient				

17	Overall performance				
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Remarks

Date

Signature of moderator

Annexure IV

Postgraduate students' feedback form

Date:

Session: Seminar / Journal club / Case presentation

Seminar (topic):

Journal club (title):

Case presentation: Type of case

Comments from the student:

1. Did the session increase / modify your existing knowledge? (Yes / No. If yes, mention at which aspect it has increased)
2. Was the session up to date in the knowledge? (Yes / No. If No, mention the lacunae)
3. Was the post-session discussion effective and the moderator had involved you in the discussion? (Yes / No)
4. Was the session ended with a decision / conclusion? (Yes / No)
5. Did the session motivate you to explore this topic further? (Yes / No)
6. Any suggestion for modification of the session? (Yes / No. If yes, suggest the modifications)

Annexure Va

LOG BOOK FOR FIRST YEAR

	Patch Test																								
	Iontophoresis																								
9.	Signature by Faculty																								

Annexure Vb

LOG BOOK FOR 2ND & 3RD YEAR

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Annexure VI
Sample question papers

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POST GRADUATE DEGREE EXAMINATION
[Time: 3 hours] [Max.Marks: 100]
MD (DERMATOLOGY) – PAPER - I

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
Each answer should be written on new page only.
Write Question No. in left side of margin.

Long questions

(2x20=40 Marks)

1. Discuss structure of dermo-epidermal junction with diagram and discuss the role of each component in various immunobullous disorders. (10+10)
2. Describe various mechanisms of thermoregulatory function of human skin. (20)

Short notes

(6x10=60 Marks)

3. Structure and functions of Mast cells (5+5)
4. Spectrum of solar light with characteristics (5+5)
5. Pathogenic and non-pathogenic *Treponema* (8+2)
6. Various factors regulating percutaneous absorption of topical drugs (10)
7. Mechanism of mobile and fixed claw hand deformity (5+5)
8. Diagram of nail unit and functions of each part (4+6)

AIIMS, Kalyani
POST GRADUATE DEGREE EXAMINATION
[Time: 3 hours] [Max.Marks: 100]
MD (DERMATOLOGY) – PAPER - II

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in left side of margin.

Long questions

(2x20=40 Marks)

1. Classify pustular psoriasis. Discuss clinical features, complications and prognosis of acute generalized pustular psoriasis. (5+ 5+5+5)
2. Enumerate various causes of febrile exanthema in children. Discuss management of febrile exanthematous illness in this age group (10+10).

Short notes

(6x10=60 Marks)

3. Classify hand eczema. Discuss diagnostic workup and management (2+5+3)
4. Pathogenesis and Clinical features of lipoid proteinosis (3+7)
5. Methodology and indications of Autologous serum skin test (5+5)
6. Classification and diagnostic work up for hereditary angioedema (5+5)
7. Clinical features and management of impetigo herpetiformis (5+5)
8. Clinical features and diagnostic algorithm of paraneoplastic pemphigus (5+5)

AIIMS, Kalyani
POST GRADUATE DEGREE EXAMINATION

[Time: 3 hours]

[Max.Marks: 100]

MD (DERMATOLOGY) – PAPER - III

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in left side of margin.

Long questions

(2x20=40 Marks)

1. Discuss differential diagnosis and management of multiple genital ulcers in a young, married woman
(10+ 10)
2. Describe the therapeutic evolution in the treatment of leprosy. Enumerate newer drugs used in leprosy and various therapeutic regimens. (10+5+5)

Short notes

(6x10=60 Marks)

3. Non-gonococcal urethritis and related complications (5+5)
4. Method of preparing slit skin smear and its utility in current scenario of leprosy control program (5+5)
5. Classify human papilloma virus (HPV) and discuss currently available HPV vaccines (2+8)
6. Classify claw hand deformity and management (5+5)
7. Treatment options in patients with syphilis and penicillin allergy (5+5)
8. Pathogenesis and clinical features of severe erythema nodosum leprosum (5+5)

AIIMS, Kalyani
POST GRADUATE DEGREE EXAMINATION
[Time: 3 hours] [Max.Marks: 100]
MD (DERMATOLOGY) – PAPER - IV

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
Each answer should be written on new page only.
Write Question No. in left side of margin.

Long questions

(2x20=40 Marks)

1. Discuss medical management of infantile hemangioma including recent advances in this field (10+10)
2. Pharmacokinetics, adverse effects and dermatological uses of Azathioprine (10+5+5)

Short notes

(6x10=60 Marks)

3. Role of dermoscopy in hair disorders and dermoscopic features of alopecia areata (5+5)
4. Pros and cons of biological therapy in psoriasis (5+5)
5. Classify mosaicism discuss pigmentary mosaicism (5+5)
6. Enumerate and mention the utility of various fillers used by dermatologists (2+8)
7. Targeted phototherapy and its indications in dermatology (5+5)
8. Severity scoring of hidradenitis suppurativa and therapeutic protocol (5+5)