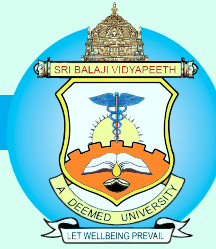


SRI BALAJI

ACCREDITED BY NAAC
WITH 'A' GRADE



VIDYAPEETH

DEEMED TO BE UNIVERSITY
DECLARED U/S 3 OF THE UGC ACT, 1956

NIRF - INDIA RANKINGS 2019 : 72 among Universities in India

FELLOWSHIP PROGRAM ON DERMATOPATHOLOGY

Department of Pathology and Dermatology

SYLLABUS & REGULATIONS



2019-2020 ONWARDS

(As Approved in the Academic Council at the Meeting held on 22.05.2019)

Sri Balaji Vidyapeeth University
Mahatma Gandhi Medical College & Research Institute

DEPARTMENT OF PATHOLOGY AND DERMATOLOGY

FELLOWSHIP PROGRAM ON DERMATOPATHOLOGY



DEPARTMENT OF Pathology and Dermatology

Fellowship Program on Dermatopathology

2019-2020 Onwards

Sri Balaji Vidyapeeth
Mahatma Gandhi Medical College & Research Institute

Fellowship Program on Dermatopathology

Eligibility Criteria: Post MD / DNB (Pathology and Dermatology), DDVL

Course Duration: Twelve months

S no	Specific Learning Objectives
1.	At the end of the courses, the candidates will be able to This course will enable the participants to develop skills in doing basic histopathology procedures, microscopic examination, interpret special stains pertaining to skin lesions and basic clinical examination which pursue their carrier as competent dermatopathologist
2.	This course will give adequate exposure in both clinical, research and histopathological knowledge in field of dermatopathology
3.	This course will provide adequate exposure for the participants with basic dermatological procedure as well as in molecular diagnosis in dermatological lesions
4.	The fellow will provide dermatopathological teaching to medical students, fellow residents, and residents from other departments

S no	Theory Syllabus	TL strategy	Number of hours	Credits
1.	<p><u>COURSE MATERIAL FOR</u> <u>DERMATOPATHOLOGY</u></p> <p>Part I <u>Basics of Dermatopathology</u></p> <p>:</p> <p>1. Skin biopsy - basic histopathological techniques</p>	Practical's	2 hrs	
2.	Commonly used terms in dermatopathology, Histology of Skin, Epidermal and dermal reactions	SDL / theory	2 hrs	
3.	Special stains	Practical's /theory/SDL	10	
4.	<p>IHC markers:</p> <ul style="list-style-type: none"> ➤ Basic procedures ➤ Basic Panel of markers for dermatopathological lesion 	Practical's/theory/SDL	20	

5.	<p>Immunofluorescence in skin Biopsies</p> <ul style="list-style-type: none"> ➤ Basic IF techniques (Both direct and indirect procedures) ➤ Interpretation of IF pertaining to diagnosis ➤ IF in vesiculobullous lesions and connective tissue autoimmune disorders. 	Practical's/theory/SDL	20	
----	---	------------------------	----	--

6.	Application of EM in various skin disorders	Theory/ SDL	2	
7.	Basic clinical skills - history taking, clinical examination and differential diagnosis.	Theory/ SDL / assignment	2	
8.	Various biopsy techniques, their indications and contraindications Techniques like KOH preparation, Tzanck smears, Salt split examination	Practical's / theory/ SDL / Tutorials	20	
9.	Surgical assessment and procedures for cutaneous and adnexal neoplasms Pre operative, Post operative and Emergency identification and management	Practical's / theory/ SDL	20	
10.	Record maintenance Participate in Quality assurance and internal audit programmes Ethical standards	Practical's / theory/ SDL	2	
11.	Noninfectious Erythematous, papular and	Practical's / theory/	1	

	squamous diseases	SDL		
12.	Vascular Disorders	Practical's / theory/ SDL	1	
13.	Noninfectious Vesiculobullous and Vesiculopustular Diseases	Practical's / theory/ SDL	6	
14.	Connective Tissue Diseases	Practical's / theory/ SDL	2	
15.	Cutaneous Toxicities of Drugs	Theory/ SDL	1	
16.	The Photosensitivity Disorders	Practical's / theory/ SDL	1	
17.	Disorders associated with physical agents: Heat, Cold, Radiation and Trauma	Theory/ SDL / Tutorials	1	
18.	Non infectious Granulomas	Practical's / theory/ SDL	1	
19.	Degenerative Diseases and Perforating Disorders	Practical's / theory/ SDL	1	
20.	Cutaneous manifestations of nutritional deficiency states and Gastrointestinal Disease	Theory/ SDL / Assignment	1	
21.	Metabolic Diseases of the Skin	Practical's / theory/ SDL	1	
22.	Inflammatory Diseases of Hair follicles, Sweat	Practical's / theory/	3	

	Glands and Cartilage	SDL		
23.	Inflammatory Diseases of the Nail and Subcutaneous Fat	Practical's / theory/ SDL	2	
24.	Infections including Bacterial, Viral, Fungal Protozoan and Parasitic Infestations, including (STD and HIV)	Practical's / theory/ SDL	5	
25.	Congenital Diseases (Genodermatoses)	Practical's / theory/ SDL	2	
26.	The Histiocytoses	Practical's / theory/ SDL	2	
27.	Pigmentary Disorders of the Skin	Practical's / theory/ SDL	2	
28.	Benign Pigmented Lesions and Malignant Melanoma	Practical's / theory/ SDL	4	
29.	Tumors and Cysts of the Epidermis	Practical's / theory/ SDL	4	
30.	Tumors of the Epidermal Appendages	Practical's / theory/ SDL	4	
31.	Cutaneous Lymphomas and Leukemias	Practical's / theory/ SDL	4	
32.	Tumors of Fibrous Tissue Involving the Skin	Practical's / theory/ SDL	2	

33.	Vascular Tumors: Tumors and Tumor-like conditions of Blood vessels and Lymphatic's	Practical's / theory/ SDL	4	
34.	Tumors with Fatty, Muscular, Osseous and Cartilaginous Differentiation	Practical's / theory/ SDL	1	
35.	Tumors of Neural Tissue	Practical's / theory/ SDL	2	
36.	Metastatic Carcinoma of the Skin	Practical's / theory/ SDL	2	
	Total		160	10

S no	Practical Syllabus	Number of hours	Credits
1.	All the components mentioned in the syllabus will be addressed during slide reporting and performing procedures and special stains	320	10

S no	Clinical Syllabus	Number of hours	Credits
1.	Dermatology OPD session	100	3
2.	Minor OT Procedures	60	2

3.	Major Surgical skills	80	2.5
4.	Emergency, Pre and Post operative management	80	2.5
	Total	320	10

S no	Assignments/ Projects/ Self-Study	Number of hours	Credits
1.	Self study	100	3
2.	Short term projects (3 months)	140	4.5

S no	Assessment method (FORMATIVE)	Mark allotment	Eligibility requirement
1.	Assignment marks	20	50% in each category
2.	Portfolio	20	
3.	Project	20	
4.	Test marks	40	
	Total	100	50% in each category
3.	Assignments	80	2.5

S no	Assessment method (SUMMATIVE)	Maximum marks	Eligibility requirement
1.	Final Theory exam	100	50% in
2.	Practical & clinical	80	Both
3.	Viva	20	Theory

Total	100	and Practic als
-------	-----	-----------------------

S no	Reference Books/ Journals
1.	Lever histopathology of skin, 10 th edition, David E.Elder
2.	Weedon's Skin Pathology, MD Dr. Patterson James W. 4 th edition
3.	Rook's Textbook of Dermatology, 9 th edition, Wiley Blackwell
4.	Fitzpatrick's Dermatology, 9 th Edition by Sewon Kang
5.	Handbook of Leprosy 5 th edition by W.H.Jopling & A.C.Mcdougall
6.	Dermatopathology : Foundations in Diagnostic Pathology, 2 nd edition by Klaus J. Busan
7.	Dermatological Diseases: A Practical Approach, 2 nd edition, Mysore Venkaaram
8.	The Washington Manual of Dermatology Diagnosis , by M. Laurin Council
9.	IADVL Color Atlas Of Dermatopathology by Mahajan Pradeep
10.	Comprehensive Dermatologic Drug Therapy: Expert Consult - 3 rd edition by <u>Stephen E Wolverton</u>
11.	Differential diagnosis in dermatology y Ackerman Fourth edition\

Pattern of Assessment:

Formative Evaluation		Summative Evaluation	
Component	Weight	Component	Weight
Assignment marks	20	Final Theory exam	100

Portfolio	20	Practical & clinical	80
Project	20		
Test marks	40	Viva	20
Total	100	Total	200

Pass Requirements: Minimum 50 % in each category

***Suggested that formative assessment sufficient awaiting approval of academic council to enable uniformity in all fellowship course of university**

Course Requirements and Eligibility criteria for Examination:

- 80 % of attendance
- Completion of all competencies including histopathological ,surgical skill and clinical exposure in mentioned hours
- Completion of short term projects
- Publishing one original article / one case report in indexed journal
- Extramural postings whenever required
- Other molecular training postings
- Forum presentation (one poster and one oral presentation in CME / conferences)
- E-Portfolio
- Monthly Theory/Clinical/Practical tastes satisfactorily performed.

Goals&Objectives :

Training in Dermatopathology will impart complete clinical and diagnostic acumen, which will enable them to handle both facets of the specialty and will thereby ensure comprehensive patient management.

Specific Learning Objectives:

Patient Care:

- Attend daily Dermatology opd in the morning (9:00 - 12:00) over the entire year.
- Each fellow is responsible for previewing and generating specific diagnosis or an appropriate differential diagnosis on all slides that are available the day before.
- Review Histopathology, special stain and immunohistochemistry slides daily in the afternoon session over the entire year
- Review immunofluorescence cases with the dermatopathology faculty weekly.
- Become knowledgeable in the morphologic features of inflammatory and neoplastic changes in skin and soft tissue specimens and develop diagnostic proficiency and generate appropriate differential diagnoses when morphologic changes are not etiologically specific.
- Undergraduate theory and practical teaching for relevant topics and peer teaching for post graduates of both departments.
- Understand the importance of turn-around time and the need to provide patients and clinicians with timely reports.
- Attend all tumor boards of dermatopathology to integrate pathology findings into the management of patients with these tumors.

- Attend all Diagnostic Conferences in the Department of Dermatology to learn the importance of Clinicopathologic correlation in improving patient care.

Medical knowledge, Interpersonal and Communication Skills & Professionalism

- The fellow will understand normal anatomy and function of structures in the skin and soft tissue.
- The fellow will become knowledgeable in the morphologic features of inflammatory and neoplastic changes in skin and soft tissue specimens and develop diagnostic proficiency and generate appropriate differential diagnoses when morphologic changes are not etiologically specific.
- Over the course of the year, fellow should be familiar with common concepts of Lever's Histopathology of the Skin textbook.
- During the initial 6 months of the program, the dermatopathology fellows are expected to read the Atlas of Immunofluorescence in Dermatology . This will reinforce the principles of immunofluorescence .
- The fellow will understand the appropriate use of histochemical and immunohistochemical stains.
- The fellow will understand the appropriate use of molecular diagnostic techniques in diagnostic dermatopathology.
- The fellow is expected to participate in the teaching of dermatopathology to residents
- The fellow will develop excellent communication skills so that diagnostic and prognostic information can be conveyed clearly to patients and their attenders.

- The fellow will discuss the findings of patient biopsies with the pathology residents on service prior to sign-out.
- The fellow will provide clinical teaching to medical students, fellow residents, and residents from other departments
- The fellow will use information technology to perform his/her duties and access medical information online to support his/her own education.
- The fellow will participate in a minimum of two journal club presentations, in a month which will reinforce the principles of self-directed learning and evidence-based practice.
- The fellow will use feedback from faculty to improve his/her practice.
- The fellow will understand the appropriate settings for biopsies and excisions of skin lesions and the most appropriate site to biopsy for a given lesion and clinical differential diagnosis.
- The fellow will also attend other cutaneous surgery clinics and have the opportunity to perform biopsies and/or excisions, which is highly encouraged.
- Exposure to frozen sections and other procedures like KOH preparation, Tzanck smear and salt split examination
- Understand the significance of the research project and how it impacts patient care
- Short term projects will be given and compulsory for the course completion

Model Theory Exam Paper

Duration: 3 hrs

Answer all questions

Total

Marks 10x10 = 100

1. Describe various types of skin biopsies and their indications in various disease processes.
2. Describe the role of direct and indirect immunofluorescence in intra epidermal bullous lesions of the skin
3. Explain clinicopathological spectrum of leprosy
4. Mention various granulomatous conditions of the skin and Explain about tuberculoid granulomas in skin
5. Describe dermatopathology of cutaneous auto inflammatory syndromes
6. Describe the differential diagnoses of cutaneous clear cell neoplasms and explain different modalities to establish the diagnosis
7. Describe the utility of FISH in diagnosis of cutaneous mesenchymal tumours
8. Describe the clinicopathological spectrum of Syphilis
9. Explain the role of stem cell markers and their potential application in diagnostic dermatopathology
10. Role of CD markers in cutaneous neoplasm

Components of Model Practical Examination :

1. Clinical cases (10x3 = 30 marks)
2. Case scenario and interpretation (2x5= 10)
3. Histotechniques - section cutting, H&E staining, special stain (10 marks)
4. Pathology slides (10 dermatopathology) (10x2 = 20 marks)
5. IF/IHC/special stain interpretation - two (2x5= 10 marks)