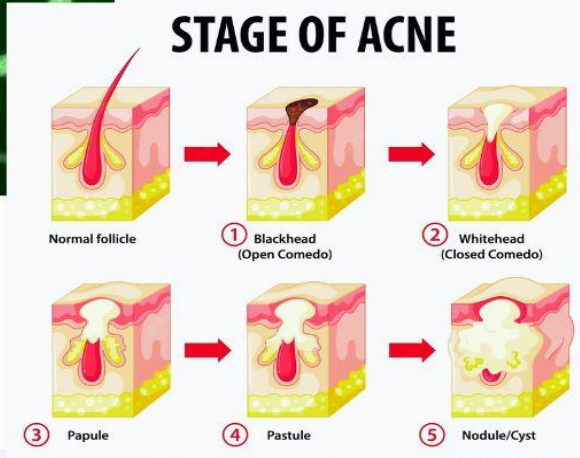
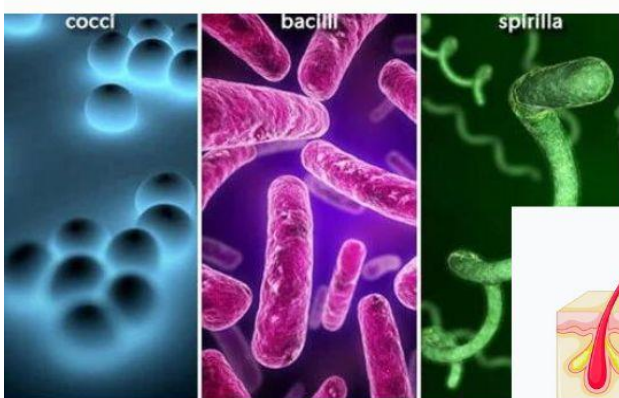


STUDY GUIDE-FOURTH YEAR MBBS

5th - 17th September 2022

Duration: 2 Weeks

DERMATOLOGY MODULE



Approved by
Liaquat National
Hospital & Medical College

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Liaquat National
Hospital & Medical College

STUDY GUIDE FOR DERMATOLOGY MODULE

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Module name: **Dermatology**Year: **Four**Duration: **2 weeks (Sep 2022)**

Timetable hours: Interactive Lectures, Case-Based Discussion (CBD), Clinical Rotations, Demonstrations, Skills, Self- Directed Learning

MODULE INTEGRATED COMMITTEE

MODULE COORDINATOR:	<ul style="list-style-type: none"> Professor Shaheen Naveed (Dermatology)
CO-COORDINATOR:	<ul style="list-style-type: none"> Dr. Afifa Tabassum (DHPE)

DEPARTMENTS' & RESOURCE PERSONS' FACILITATING LEARNING

BASIC HEALTH SCIENCES	CLINICAL AND ANCILLARY DEPARTMENTS
<i>PATHOLOGY</i> <ul style="list-style-type: none"> Professor Naveen Faridi 	<i>DERMATOLOGY</i> <ul style="list-style-type: none"> Professor Shaheen Naveed
<i>PHARMACOLOGY</i> <ul style="list-style-type: none"> Professor Tabassum Zehra 	<i>ENDOCRINOLOGY</i> <ul style="list-style-type: none"> Dr. Aqiba Sarfraz
	<i>MEDICINE</i> <ul style="list-style-type: none"> Professor Karimullah Makki
<i>DEPARTMENT of HEALTH PROFESSIONS EDUCATION</i> <ul style="list-style-type: none"> Professor Nighat Huda Professor Sobia Ali Dr. Afifa Tabassum Dr. Sana Shah 	
<i>LNH&MC MANAGEMENT</i> <ul style="list-style-type: none"> Professor Karimullah Makki, Principal, LNH&MC Dr. Shaheena Akbani, Director A.A & R.T LNH&MC 	
<i>STUDY GUIDE COMPILED BY:</i> <ul style="list-style-type: none"> Faiza Ambreen, Department of Health Professions Education 	

INTRODUCTION

WHAT IS A STUDY GUIDE?

It is an aid to:

- Inform students how student learning program of the module has been organized
- Help students organize and manage their studies throughout the module
- Guide students on assessment methods, rules and regulations

THE STUDY GUIDE:

- Communicates information on organization and management of the module. This will help the student to contact the right person in case of any difficulty.
- Defines the objectives which are expected to be achieved at the end of the module.
- Identifies the learning strategies such as lectures, small group teachings, clinical skills, demonstration, tutorial and case based learning that will be implemented to achieve the module objectives.
- Provides a list of learning resources such as books, computer assisted learning programs, web-links and journals for students to consult in order to maximize their learning.
- Highlights information on the contribution of continuous on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's achievement of objectives.
- Focuses on information pertaining to examination policy, rules and regulations.

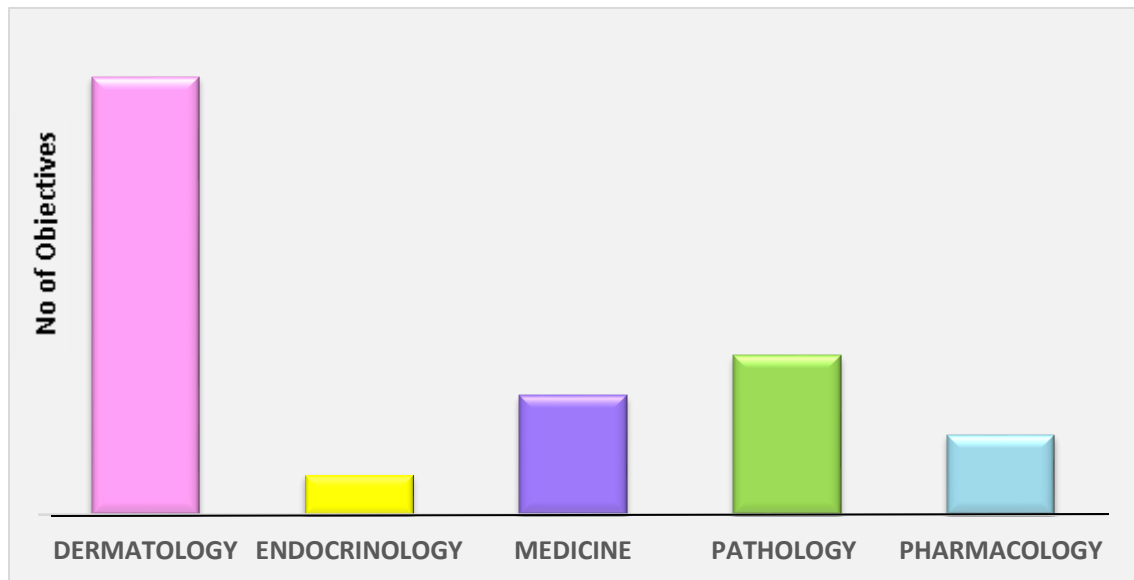
CURRICULUM FRAMEWORK

Students will experience integrated curriculum similar to previous modules.

INTEGRATED CURRICULUM: Comprises system-based modules such as Eye/ENT, dermatology, genetics, rehabilitation and neurosciences-II & psychiatry modules which link basic science knowledge to clinical problems. Integrated teaching means that subjects are presented as a meaningful whole. Students will be able to have better understanding of basic sciences when they repeatedly learn in relation to clinical examples.

LEARNING EXPERIENCES: Case based integrated discussions, Task oriented learning followed by task presentation, skills acquisition in skills lab, computer-based assignments, learning experiences in clinics, wards.

INTEGRATING DISCIPLINES OF DERMATOLOGY MODULE



LEARNING METHODOLOGIES

The following teaching / learning methods are used to promote better understanding:

- Interactive Lectures
- Small Group Discussion
- Case- Based Discussion (CBD)
- Clinical Experiences
 - Clinical Rotations
- Skills session
- Self-directed learning

INTERACTIVE LECTURES: In large group, the lecturer introduces a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients' interviews, exercises, etc. Students are actively involved in the learning process.

SMALL GROUP SESSION: This format helps students to clarify concepts, acquire skills or desired attitudes. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials and self study. The facilitator role is to ask probing questions, summarize, or rephrase to help clarify concepts.

CASE-BASED DISCUSSION (CBD): A small group discussion format where learning is focused around a series of questions based on a clinical scenario. Students' discuss and answer the questions applying relevant knowledge gained previously in clinical and basic health sciences during the module and construct new knowledge. The CBD will be provided by the concerned department.

CLINICAL LEARNING EXPERIENCES: In small groups, students observe patients with signs and symptoms in hospital wards, clinics and outreach centers. This helps students to relate knowledge of basic and clinical sciences of the module and prepare for future practice.

- **CLINICAL ROTATIONS:** In small groups, students rotate in different wards like Medicine, Pediatrics, Surgery, Obs & Gynae, ENT, Eye, Family Medicine clinics, outreach centers & Community Medicine experiences. Here students observe patients, take histories and perform supervised clinical examinations in outpatient and inpatient settings. They also get an opportunity to observe medical personnel working as a team. These rotations help students relate basic medical and clinical knowledge in diverse clinical areas.

SKILLS SESSION: Skills relevant to respective module are observed and practiced where applicable in skills laboratory.

SELF-DIRECTED LEARNING: Students' assume responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from Learning Resource Center, teachers and resource persons within and outside the college. Students can utilize the time within the college scheduled hours of self-directed learning.

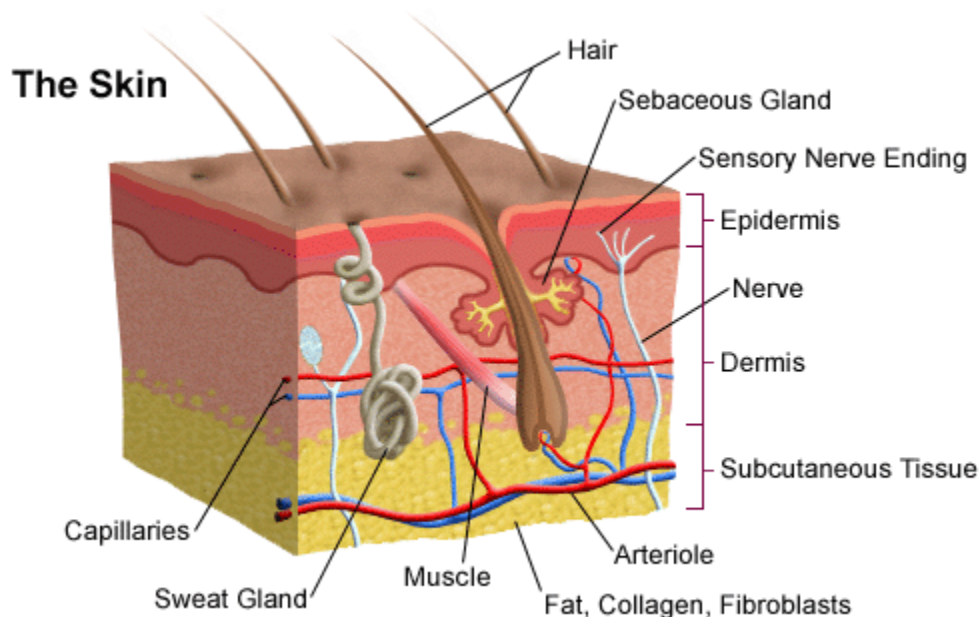
MODULE 6: DERMATOLOGY**INTRODUCTION**

Dermatology is the branch of medicine that deals with skin, mucous membranes, hair and nails. Although relatively straightforward to examine, the skin is the largest organ weighting about 16% of total body weight, and has numerous potential abnormalities.

There are about 1500 distinct skin diseases and many variants. About 15% of consultations in general practice relate to a skin problem and between 50% and 75% of individuals may have a skin problem at any time.

Most dermatological conditions are highly visible and can have profound psychosocial effects. Disfigurement can result in negative self-perception, depression, social rejection and social isolation related to unfavorable self-image. Skin conditions affecting the face may require aggressive treatment even if they are clinically relatively mild. Disturbance of body image is particularly serious if it arises during childhood or adolescence, as is the case for birthmarks, atopic eczema and acne.

This module will discuss the impact of skin diseases, outline the biology of normal skin, and describe how to examine the skin and how its diseases may be effectively treated. A range of skin infections, inflammatory skin diseases and neoplastic conditions will be briefly described as well as skin signs of systemic disease.



COURSE OBJECTIVES AND STRATEGIES

By the end of Dermatology module students should be able to:

DERMATOLOGY

OBJECTIVES	LEARNING STRATEGY
1. Basic terminologies of skin	Interactive Lecture
<ul style="list-style-type: none"> Classify skin lesions 	
<ul style="list-style-type: none"> Define common terminologies including primary and secondary dermal and epidermal lesions, and histopathological terms, Macule, patch, papule, plaque, vesicle, bullae, pustule, nodule, wheal, excoriation, exfoliation, erosion, ulcer, erythema, purpura, lichenification, Telangectasia, ecchymosis granulosis, spongiosis and hyperkeratosis 	
<ul style="list-style-type: none"> Diagnose common dermatologic conditions based on information provided in written scenarios, photographs or by simulated patients 	
2. Bacterial infections	
<ul style="list-style-type: none"> Classify Impetigo, Ecthyma, Cellulitis, Folliculitis, Furuncle, Carbuncle, Erysipelas, and Necrotising Fascitis, according to depth of skin layers and causative organisms 	
<ul style="list-style-type: none"> Discuss their clinical presentation and epidemiology 	
3. Viral infections	
<ul style="list-style-type: none"> Classify viral skin infections 	
<ul style="list-style-type: none"> Discuss Herpes Simplex and Zoster, Chicken Pox, Viral warts, and Molluscum Contagiosum 	
4. Fungal Infections	
<ul style="list-style-type: none"> Define fungal skin infections 	
<ul style="list-style-type: none"> Classify fungal infection 	
<ul style="list-style-type: none"> Discuss Dermatophyte infections, Candida Albicans, and Pityriasis Versicolor 	
5. Parasitic Infections	
<ul style="list-style-type: none"> Discuss the clinical presentation and treatment of Scabies, Pediculosis and Leishmaniasis 	
6. Acne	
<ul style="list-style-type: none"> Define Acne 	
<ul style="list-style-type: none"> Classify the types of Acne 	
<ul style="list-style-type: none"> Discuss the pathogenesis and treatment of Acne 	
7. Eczema	
<ul style="list-style-type: none"> Define eczema 	
<ul style="list-style-type: none"> Classify the different types of Eczema 	
<ul style="list-style-type: none"> Discuss their pathogenesis and treatment 	
8. Psoriasis	
<ul style="list-style-type: none"> Define Psoriasis 	
<ul style="list-style-type: none"> Classify the causative factors of psoriasis 	
<ul style="list-style-type: none"> Discuss its associated disorders, complications and treatment 	
9. Lichen Planus	
<ul style="list-style-type: none"> Define Lichenoid lesions 	
<ul style="list-style-type: none"> Discuss clinical presentation and treatment of lichen planus 	

10. Urticaria	Interactive Lecture
• Define urticaria	
• Classify urticarial diseases	
• Discuss the clinical presentation and treatment of these lesions	
11. Bullous Disorders	Interactive Lecture/ Case-Based Discussion
• Define bullous disorders	
• Classify bullous disorders	
• Discuss clinical presentation and treatment of Pemphigus Vulgaris, Bullous Pemphigoid, Dermatitis Herpetiformis and Epidermolysis Bullosa	
12. Cutaneous manifestations of systemic diseases	Interactive Lecture
• Discuss skin changes associated with SLE, Thyroid disorders, Diabetes Mellitus, Hepatic disorders, Kidney disorders, and Malignancies (e.g. Para-Neoplastic Syndrome)	
13. Cutaneous drugs reactions	
• Define Steven Johnson Syndrome, Toxic Epidermal Necrolysis and Erythema Multiformis	
• Discuss the clinical presentation and treatment of these lesions	

ENDOCRINOLOGY

OBJECTIVES	LEARNING STRATEGY
• Describe the clinical presentations of common dermatologic conditions of Diabetes Mellitus	Interactive Lecture

INFECTIOUS DISEASE

OBJECTIVES	LEARNING STRATEGY
Skin Manifestations of Sexually Transmitted Diseases (STD)	Interactive Lecture
• Define STD	
• Discuss the clinical presentation of Gonorrhoea, Chancroid, Syphilis, Lymphogranuloma Venerum (LGV) and Granuloma Inguinale	

MEDICINE

OBJECTIVES	LEARNING STRATEGY
1. Cutaneous drugs reactions	Interactive Lecture
• List the drugs that can cause drug reactions	
• Describe the skin manifestation of drug reactions	
2. Cutaneous manifestations of kidney & para-neoplastic diseases	
• Discuss the clinical presentations of common dermatologic conditions related to kidney disorders & malignancies including Para-Neoplastic Syndrome	
• List the drugs that can cause drug reactions	
• Describe the skin manifestation of drug reactions	

PATHOLOGY

OBJECTIVES	LEARNING STRATEGY
1. Infectious diseases of skin	Interactive Lecture
• Discuss common infections of skin including Verrucae (warts), Molluscum Contagiosum, Impetigo, and superficial fungal infection	
2. Acute and chronic inflammatory dermatoses	
• Explain the pathogenesis and clinical presentations of various acute & chronic inflammatory dermatoses including Urticaria, Acute Eczematous Dermatitis, Erythema Multiforme, Psoriasis, Seborrheic Dermatitis, and Lichen Planus	Interactive Lecture/ Small Group Discussion
3. Disorders of pigmentation and vesicular (Bullous) diseases	
• Discuss pigmentation disorders including Freckle, Lentigo, Nevi and Melanoma	
• Describe pathogenesis and clinical features of various blistering disorders of skin	Interactive Lecture
4. Tumors of Dermis and Epidermis	
• Classify tumors of skin and subcutis	
• Describe important types of skin tumors with pathogenesis, morphology and clinical features (Actinic Keratosis, Squamous Cell Carcinoma, Basal Cell Carcinoma, Dermato-fibroma, Dermato-fibrosarcoma protuberans)	

PHARMACOLOGY

OBJECTIVES	LEARNING STRATEGY
1. Systemic and topical antifungal drugs	Case-Based Discussion
• Discuss classification and mechanism of action of oral & topical steroids	
2. Drugs used in dermatological disorders	
• Discuss drugs used in other dermatological disorders	
• Discuss the uses, mechanism of action, contraindication, precautions and side effects of topical as well as systemic antifungal drug	

Apart from attending daily scheduled sessions, students too should engage in self-study to ensure that all the objectives are covered



LEARNING RESOURCES

SUBJECT	RESOURCES
GENERAL MEDICINE	REFERENCE BOOKS: <ol style="list-style-type: none">1. Hutchison's Clinical Methods, 23rd Edition2. MacLeod's clinical examination 13th edition3. Davidson's Principles and Practice of Medicine4. Kumar and Clark's Clinical Medicine
PATHOLOGY	TEXT BOOKS <ol style="list-style-type: none">1. Robbins & Cotran, Pathologic Basis of Disease, 9th edition.2. Rapid Review Pathology, 4th edition by Edward F. Goljan MD
	WEBSITES: <ol style="list-style-type: none">1. http://library.med.utah.edu/WebPath/webpath.html2. http://www.pathologyatlas.ro/
PHARMACOLOGY	<ol style="list-style-type: none">1. Lippincot Illustrated Pharmacology2. Basic and Clinical Pharmacology by Katzung

ASSESSMENT METHODS:

- **Best Choice Questions(BCQs)** also known as MCQs (Multiple Choice Questions)
- **Objective Structured Practical/Clinical Examination (OSPE or OSCE)**

Internal Evaluation

- Students will be assessed comprehensively through multiple methods.
- 20% marks of internal evaluation will be added to JSMU final exam. That 20% may include class tests, assignment, practicals and the internal exam which will all have specific marks allocation.

Formative Assessment

Individual department may hold quiz or short answer questions to help students assess their own learning. The marks obtained are not included in the internal evaluation

For JSMU Examination Policy, please consult JSMU website!

More than 75% attendance is needed to sit for the internal and final examinations



LNH&MC EXAMINATION RULES & REGULATIONS

- Student must report to examination hall/venue, 30 minutes before the exam.
- **Exam will begin sharp at the given time.**
- No student will be allowed to enter the examination hall after 15 minutes of scheduled examination time.
- Students must sit according to their roll numbers mentioned on the seats.
- **Cell phones are strictly not allowed in examination hall.**
- If any student is found with cell phone in any mode (silent, switched off or on) he/she will be not be allowed to continue their exam.
- No students will be allowed to sit in exam without University Admit Card, LNMC College ID Card and Lab Coat.
- Student must bring the following stationary items for the exam: Pen, Pencil, Eraser, and Sharpener.
- Indiscipline in the exam hall/venue is not acceptable. Students must not possess any written material or communicate with their fellow students.

SCHEDULE:

WEEKS	4TH YEAR	MONTH
2 WEEKS	DERMATOLOGY MODULE	September 5 th , 2022
		September 17 th , 2022
Pre Prof. Examination*		

*Final dates will be announced later