

**JINNAH SINDH MEDICAL UNIVERSITY**  
**Dermatology Module Study Guide- MBBS Year-4, 2022**

	<b>Spiral II</b>
<b>MODULE TITLE</b>	<b>Dermatology</b>
<b>INTRODUCTION</b>	This module will provide the senior medical students with an initial insight into the various patterns of common skin disorders. They range from rampant infectious conditions to allergic situations to malignant metamorphoses. Medical graduates in Pakistan need to be not only aware of the common dermatological conditions, but also to manage or refer them appropriately.
<b>RATIONALE</b>	As skin diseases are encountered very commonly in general practice and there is an increasing awareness, in the Pakistani population especially the younger age group, of its appearance, graduates hence need to know how to promote healthy skin, appropriately manage common dermatological conditions, and prevent pathological situations where possible, during their professional practice.
<b>TARGET STUDENTS</b>	Fourth year M.B.B.S. 2022
<b>DURATION</b>	2 weeks
<b>MODULE OUTCOMES</b>	By the end of the module, students should be able to: <ul style="list-style-type: none"> <li>• Diagnose common dermatologic conditions based on clinical presentations provided under simulated conditions</li> <li>• Justify treatment plans for common dermatologic conditions</li> <li>• Suggest measures for preventing dermatologic conditions where applicable</li> </ul>
<b>DEPARTMENTS</b>	Dermatology, Pathology
<b>OBJECTIVES</b>	By the end of the module, students will be able to:

**DERMATOLOGY**

**(For detailed List of Topics see Appendix A)**

**1. Basic terminologies of skin**

- Classify skin lesions
- 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
- Diagnose common dermatologic conditions based on information provided in written scenarios, photographs or by simulated patients

**2. Bacterial infections**

- Classify Impetigo, Ecthyma, Cellulitis, Folliculitis, Furuncle, Carbuncle, Erysipelas, and Necrotising Fascitis, according to depth of skin layers and causative organisms
- Discuss their clinical presentation and epidemiology

**3. Viral infections**

- Classify viral skin infections
- Discuss Herpes Simplex and Zoster, Chicken Pox, Viral warts, and Molluscum Contagiosum

**4. Fungal Infections**

- Define fungal skin infections
- Classify fungal infection
- Discuss Dermatophyte infections, Candida Albicans, and Pityriasis Versicolor

**1. Parasitic Infections**

- Discuss the clinical presentation and treatment of Scabies, Pediculosis and Leishmaniasis

## **2. Sexually Transmitted Diseases (STD)**

- Define STD
- Discuss the clinical presentation of Gonorrhoea, Chancroid, Syphilis, Lymphogranuloma Venerum (LGV) and Granuloma Inguinale

## **3. Acne**

- Define Acne
- Classify the types of Acne
- Discuss the pathogenesis and treatment of Acne

## **4. Eczema**

- Define eczema
- Classify the different types of Eczema
- Discuss their pathogenesis and treatment

## **5. Psoriasis**

- Define Psoriasis
- Classify the causative factors of psoriasis
- Discuss its associated disorders, complications and treatment

## **6. Lichen Planus**

- Define Lichenoid lesions
- Discuss clinical presentation and treatment of lichen planus

## **7. Cutaneous drugs reactions**

- Define Steven Johnson Syndrome, Toxic Epidermal Necrolysis and Erythema Multiformis
- Discuss the clinical presentation and treatment of these lesions

## **8. Urticaria**

- Define urticaria

- Classify urticarial diseases
- Discuss the clinical presentation and treatment of these lesions

### **9. Bullous Disorders**

- Define bullous disorders
- Classify bullous disorders
- Discuss clinical presentation and treatment of Pemphigus Vulgaris, Bullous Pemphigoid, Dermatitis Herpetiformis and Epidermolysis Bullosa

### **10. Cutaneous manifestations of systemic diseases**

- Discuss skin changes associated with SLE, Thyroid disorders, Diabetes Mellitus, Hepatic disorders, Kidney disorders, and Malignancies (e.g. Para-Neoplastic Syndrome)

## **PATHOLOGY LECTURES**

### **1. Infectious diseases of skin**

- 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

### **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

### **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

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Carcinoma, Dermato-fibroma, Dermato-fibrosarcoma protuberans)	
<b>INTERNAL ASSESSMENT</b>	Internal assessment carries 20% weightage in the final examination.
<b>ANNUAL EXAMINATION</b>	MCQs and OSCE (observed + un observed)
<b>COURSE EVALUATION</b>	Course will be evaluated through a feedback form which will be posted on the JSMU website

**APPENDIX A**

**DERMATOLOGY TOPICS**

- I. Basic Terminologies of Skin:** 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
- II. Infections:**
  - a. Bacterial: Impetigo, Ecthyma, Cellulitis, Folliculitis, Furuncle, Carbuncle, Erysipelas, Necrotising Fascitis
  - b. Viral: Herpes Simplex and Zoster, Chicken Pox, Measles, Viral warts, Molluscum Contagiosum
  - c. Fungal: Dermatophyte infections, Candida Albicans, Pityriasis Versicolor
  - d. Parasitic: Scabies, Pediculosis, Leishmaniasis
  - e. Sexually Transmitted Diseases: Gonorrhoea, Chancroid, Syphilis, Lymphogranuloma Venerum (LGV), Granuloma Inguinale
- III. Eczema**
- IV. Psoriasis**
- V. Lichen Planus**
- VI. Cutaneous drug reactions:** Steven Johnson Syndrome, Toxic Epidermal Necrolysis, Erythema Multiformis, Urticaria
- VII. Bullous Disorders:** Pemphigus Vulgaris, Bullous Pemphigoid, Dermatitis Herpetiformis, Epidermolysis Bullosa
- VIII. Cutaneous Manifestations of Systemic Diseases:** Skin changes in SLE, Thyroid disorders, Diabetes Mellitus, Hepatic disorders, Kidney disorders, Malignancies (e.g. Paraneoplastic Syndrome)

**OBJECTIVES**

- Describe the clinical presentations of common dermatologic conditions listed in Appendix A
- Diagnose common dermatologic conditions listed in Appendix A based on information provided in written scenarios or by simulated patients
- Justify management plan for the conditions listed in Appendix A

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