



| STUDY GUIDE | |
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| PROGRAM | MBBS |
| MODULE TITLE | DERMATOLOGY |
| ACADEMIC YEAR | Fourth Year- 2026 |
| INTRODUCTION | 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. |
| RATIONALE | 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. |
| OUTCOMES | By the end of the module, students should be able to justify management and preventive plans for common dermatological conditions based on underlying etiological factors and pathophysiology. |
| DEPARTMENTS/ SPECIALTIES INVOLVED | <ol style="list-style-type: none">1. Community Medicine2. Dermatology3. Paediatrics4. Pathology |

| MODULE OBJECTIVES | By the end of the module, the students should be able to: |
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| LECTURES COMMUNITY MEDICINE | <p>1. Scabies</p> <ul style="list-style-type: none"> • Define Scabies. • Discuss the common risk factors for scabies transmission in the community. • Explain the management and treatment of scabies. • Discuss community-based prevention and control strategies. • Describe the public health impact of scabies. <p>2. Burns & Prevention</p> <ul style="list-style-type: none"> • Define burns • Classify burns by depth & cause • Identify risk factors for burn injuries in different age groups. • List common complications of burns and their management. • Discuss the psychosocial impact of burns on patients and their families. • Explain the importance of burn prevention strategies • Identify effective prevention measures for different settings <p>3. Personal Hygiene</p> <ul style="list-style-type: none"> • Define personal hygiene and its significance for overall health and well-being. • List common hygiene practices • Explain the connection between personal hygiene and the prevention of diseases • Explain the proper techniques for hand-washing and when it is most important • Describe policies and practices that promote good personal hygiene in public settings |

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| | <p>4. Viral Zoonotic diseases & prevention</p> <ul style="list-style-type: none"> • Define "zoonosis" with examples of viral zoonotic diseases. • Describe the different modes of transmission for viral zoonotic diseases. • Analyze the ecological factors that contribute to the emergence and spread of viral zoonosis • Discuss the public health significance of viral zoonosis • Explain the strategies for preventing and controlling viral zoonosis |
| LECTURES DERMATOLOGY | <p>1. Basic terminologies of skin</p> <ul style="list-style-type: none"> • 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, Telangiectasia, ecchymosis, granulosis, spongiosis and hyperkeratosis. • Diagnose common dermatologic conditions based on information provided in written scenarios, photographs or by simulated patients. <p>2. Bacterial infections</p> <ul style="list-style-type: none"> • Classify Impetigo, Ecthyma, Cellulitis, Folliculitis, Furuncle, Carbuncle, Erysipelas, and Necrotising Fascitis, according to the depth of skin layers and causative organisms. • Discuss their clinical presentation and epidemiology <p>3. Viral infections</p> <ul style="list-style-type: none"> • Classify viral skin infections. |

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- 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.

5. Parasitic Infections

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

6. Sexually Transmitted Diseases (STD)

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

7. Acne

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

8. Eczema

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

9. Psoriasis

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

10. Lichen Planus

- Define Lichenoid lesions.

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| | <ul style="list-style-type: none">• Discuss clinical presentation and treatment of lichen planus |
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11. Leprosy

- Discuss Leprosy.
- Classify Leprosy disease
- Discuss the clinical presentation and diagnosis

12. Cutaneous drug reactions

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

13. Urticaria

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

14. Bullous Disorders

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

15. 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)

PAEDIATRICS

1. Atopic Dermatitis

- Discuss the risk factors, etiology and management of Atopic Dermatitis

2. Bacterial, viral and fungal, protozoal infections of the skin

- Differentiate among bacterial, viral, fungal and protozoal skin infections in the Paediatric population based on clinical presentations,

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| | <p>etiologies</p> <ul style="list-style-type: none"> • Discuss management of common conditions of each type <p>3. Steven-Jonson Syndrome</p> <ul style="list-style-type: none"> • Describe the clinical presentation and management of the syndrome <p>4. Scabies, Ectodermal Dysplasia</p> <ul style="list-style-type: none"> • Describe the risk factors, etiologies, clinical presentations and management of these conditions in the Paediatric population <p>5. Urticaria</p> <ul style="list-style-type: none"> • Discuss the clinical presentation and management of Urticaria in children |
| PATHOLOGY | <p>1. Infectious diseases of skin</p> <ul style="list-style-type: none"> • Discuss common infections of skin including Verrucae (warts), Molluscum Contagiosum, Impetigo, and superficial fungal infection <p>2. Cutaneous and Subcutaneous fungi</p> <ul style="list-style-type: none"> • Classify fungi causing cutaneous and subcutaneous mycoses. • Discuss the properties, transmission, pathogenesis and lab diagnosis of fungi causing dermatophytes. <p>3. Systemic and opportunistic fungi</p> <ul style="list-style-type: none"> • Classify systemic and opportunistic fungi. • Discuss the properties, transmission, pathogenesis and lab diagnosis of Histoplasma capsulatum, Blastomycosis dermatitidis. <p>4. Acute and chronic inflammatory dermatoses</p> <ul style="list-style-type: none"> • 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 <p>5. Disorders of pigmentation and vesicular (Bullous) diseases I & II</p> <ul style="list-style-type: none"> • Discuss pigmentation disorders including Freckle, Lentigo, Nevi and Melanoma. • Describe pathogenesis and clinical features of various blistering disorders of skin. |

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| | <p>6. Tumors of Dermis and Epidermis</p> <ul style="list-style-type: none"> • 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, Dermatofibroma, Dermatofibrosarcoma protuberans) <p>7. Soft Tissue tumors</p> <ul style="list-style-type: none"> • Classify soft tissue tumors according to their tissue of origin. • Discuss the location, pathogenesis, morphology and prognosis of soft tissue tumors including lipoma, liposarcoma, Nodular Fasciitis, Superficial Fibromatosis, Rhabdomyosarcoma, Leiomyoma, Leiomyosarcoma, and Synovial Sarcoma. |
| SKILLS TO BE LEARNT DURING WARD ROTATIONS | <ul style="list-style-type: none"> • History Taking • Examination and diagnosis of Dermatologic Diseases • Treatment of Dermatologic Disorders |
| INTERNAL ASSESSMENT | <ul style="list-style-type: none"> • Internal assessment will be according to JSMU policy. The details of the internal assessment will be determined by the respective institutions. • Internal assessment carries 20% weightage in the final, end-of-year examination |
| ANNUAL EXAMINATION | <ul style="list-style-type: none"> • MCQs and OSCE (observed & unobserved) • All clinical topics of Dermatology and Paediatrics, will be included in final year MBBS examinations also (as well as in relevant modules of 4th year MBBS). |
| MODULE EVALUATION | <ul style="list-style-type: none"> • The module will be evaluated through a feedback form that is posted on the JSMU website |
| SUGGESTED READING | <p>The following books can be referred to for further reading:</p> <ul style="list-style-type: none"> • Rooks Textbook of Dermatology |

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| | <ul style="list-style-type: none">• Robbins & Cotran, Pathologic Basis of Diseases, 10th Edition• Public Health and Community Medicine 8th Edition. Author: Ilyas, Ansari |
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