

BAQAI MEDICAL COLLEGE 4TH YEAR MBBS



STUDY GUIDE

MUSCULOSKELETAL AND DERMATOLOGY MODULE

SPIRAL II – INTEGRATED CURRICULUM STUDY GUIDE FOR THE STUDENTS OF 4th YEAR MBBS SESSION 2024- 2025



BAQAI MEDICAL COLLEGE BAQAI MEDICAL UNIVERSITY

51-Deh Tor, Gadap Road, Superhighway. P.O Box: 2407, Karachi-75340, Pakistan.

(092-21)34410-293 to 298, 34410-427 to 430

Fax: (092-21)34410-317, 34410-431

Email: info@baqai.edu.pk, Web: www.baqai.edu.pk/

INTEGRATED MODULAR COURSE STUDY GUIDE



Musculoskeletal System & Dermatology

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The landscape of medical education is evolving rapidly, embracing a shift from teacher-centered to student-centered learning approaches across undergraduate and postgraduate levels. In response to these advancements, this study guide for the integrated modular system has been meticulously crafted to align with these changes, following the SPICES model of curriculum development.

1. Student-centered Approach: The course organization, content, and activities are predominantly structured around student engagement and empowerment.

2. Problem-Oriented Learning: Case-based learning is integrated into our modules to foster problemsolving skills among students.

3. Explicit Integration: Basic sciences content is seamlessly integrated with pre-clinical and clinical subjects to provide a comprehensive understanding of medical concepts.

4. **Community Engagement:** Field visits to satellite clinics and community healthcare centers offer students firsthand exposure to community-related health issues.

5. Elective Opportunities: Students are encouraged to pursue electives within our institution and other institutes to broaden their learning experiences.

6. Structured Program: Our curriculum unfolds systematically, starting from foundational medicine concepts and encompassing all facets of medical sciences in Spiral integration.

Therefore, this study guide serves as a comprehensive resource, offering content-related information, guidance on learning strategies, curriculum management, and outlines of student activities. It is designed to support the undergraduate MBBS program in a multidimensional manner, facilitating holistic learning and development.



a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level". The mission of Baqai Medical University is to be recognized as a center of excellence in education, research, patient care, and community services by producing highly capable and knowledgeable professionals.

Baqai Medical College

Our vision is to enhance access and excellence in medical education and research, with the aim of capacity building of students and faculty through innovations, and science and technology competencies, to achieve rapid and sustainable health. The medical graduate thus produced, will be informed, and trained enough to serve the community better, and to be an advisor to the national and international health organizations. The mission of the Baqai Medical College is to produce medical graduates, who are responsible and accomplished individuals and have skills for problem-solving, clinical judgment, research, and leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.

POLICIES AND PROCEDURES

Code of Conduct and Maintenance of Discipline of Students Regulations Under section 25(e) BMU Act.1996

All University students shall be under the full disciplinary control of the University. No students shall be allowed to participate in politics. The action against the act of indiscipline shall include fines, debarring from attending class, and cancellation of admission, depending on the gravity of indiscipline.

The following shall constitute acts of indiscipline for which action may be taken against the student or students:

- (a) Breach of any rule public morals, such as:
 - Use of indecent or filthy language;
 - Use of immodest dress:
 - Use of undesirable remarks or gestures; and
 - Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolence.
- (b) Defiance of authority
- (c) Action, defamatory of and derogatory to Islam
- (d) Immorality
- (e) Being found under the effect of an intoxicant or misuse of drugs including marijuana, LSD dope and other opioids.
- (f) False personation or giving false information or willful suppression of information, cheating or deceiving.
- (g) Inciting or staging a walk-out, a strike, or an unauthorized procession.
- (h) Shouting of slogans derogatory to the prestige of the University or the reputation of its officers or teachers.
- (i) Visiting without a pass place which are not to be visited without a pass.
- (j) Visiting places declared out of bounds for students.

Every student must carry his / her Identity Card which will be open to examination and will be demanded at the time of entrance to the various University Faculties and functions.

No student will be admitted to the facilities of the library, transport, or the canteen unless he /sheis in possession of the Identity Card

INTRODUCTION TO THE INTEGRATED CURRICULUM (SPIRAL- II) FOR 4TH YEAR MBBS

Welcome to the Integrated Curriculum (SPIRAL-II), designed for 4th-year MBBS students. In this study guide, we delve into the principles and structure of our curriculum, emphasizing its unique approach to organ-system-based integration.

The integrated curriculum for 4th-year MBBS is a testament to our commitment to providing comprehensive and cohesive medical education. Rooted in the principle of organ-system-based integration, this curriculum offers a progressive and immersive learning experience.

At its core, the SPIRAL-II curriculum embodies level seven integration, as defined by Harden's 11 levels of integration, encapsulating the pinnacle of correlation. This level of integration underscores our dedication to bridging the traditional boundaries between basic sciences and clinical medicine, fostering a holistic understanding of medical concepts.

Through SPIRAL-II, students embark on a journey of exploration, where the intricacies of various organ systems are intricately woven together to get a comprehensive picture of human health and disease. By transcending the isolated subject matter, students gain a deeper appreciation for the interconnectedness of physiological processes and pathological manifestations.

Key to the success of our integrated approach is the seamless alignment of theoretical knowledge with practical application. By intertwining classroom learning with clinical experiences, SPIRAL-II empowers students to translate theoretical concepts into real-world scenarios, preparing them for the complexities of medical practice.

Furthermore, SPIRAL-II embraces a multidisciplinary approach, fostering collaboration among faculty members from diverse specialties. This collaborative effort ensures that students receive a well-rounded education, enriched by the expertise of professionals across various medical domains.

Hence, the Integrated Curriculum (SPIRAL-II) for 4th year MBBS embodies a paradigm shift in medical education, where integration, correlation, and multidisciplinary collaboration converge to cultivate competent and compassionate healthcare professionals. Join us as we embark on this transformative journey, where the boundaries of medical knowledge are transcended, and the art and science of medicine are seamlessly intertwined.



Integration is Key

OUTCOMES OF THE MBBS PROGRAM

The Baqai University graduate of the MBBS program will be able to:



BAQAI MEDICAL COLLEGE

TEACHING FACULTY FOR 4TH YEAR MBBS



DEPARTMENT OF PATHOLOGY		
Name	Qualifications	Designation
Prof. Dr. Rafiq Khanani <u>rafiq.khanani@baqai.edu.pk</u>	MBBS, M. Phil., FC Path (H),Ph.D.	Chairman & Professor
Prof. Dr. Nasima Iqbal drnasimaiqbal@baqai.edu.pk	MBBS, MPhil, CHPE	Professor
Dr. Muhammad Rizwan drmrizwan@baqai.edu.pk	MBBS, M Phil, CHPE, CHQP	Associate Professor
Dr. Maeesa Sajeel drmaeesasajeel@baqai.edu.pk	MBBS, M Phil, M.S, CHPE, CHQP	Associate Professor
Dr. Sarah Azhar drsarahazhar@baqai.edu.pk	MBBS, M Phil, CHPE	Assistant Professor
Dr. Ghazal Irfan dirfan@baqai.edu.pk	MBBS, DI LH & BT, M Phil, CHPE	Assistant Professor
Dr. Muhammad Khan drmuhammadkhan@baqai.edu.pk	MBBS, M Phil, MCPS, DCP, DIP, CHPE	Assistant Professor
Dr. Munazza Rashid dr.munazzarashid@baqai.edu.pk	MBBS, Ph. D	Assistant Professor
Dr. Nadeem Umer Baqai nadeemumerbaqai@baqai.edu.pk	MBBS, DIP	Senior Lecturer
Dr. Sana Mubarak	BDS, M. Sc., CHPE	Senior Lecturer
Muhammad Rizwan muhammadrizwan@bmu.edu.pk	M. Sc, M Phil	Senior Lecturer
Dr. Yasir Rishi yasirrishi@bmu.edu.pk	MBBS, CHPE.	Lecturer
Dr. Tooba Khan	MBBS, CHPE.	Lecturer
Dr. Rozina Khan	MBBS, CHPE.	Lecturer

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DEPARTMENT OF PHARMACOLOGY & THERAPEUTICS		
Name	Qualifications	Designation
Prof. Dr. Shaikh Nadeem Ahmed dr.nadeem_ahmed@baqai.edu.pk	MBBS, M Phil	Chairman & Professor
Prof. Dr. Asif Ahmed <u>drasifahmed@baqai.edu.pk</u>	MBBS, Ph. D	HOD & Professor
Dr. Faraz Saleem dsaleem@baqai.edu.pk	BDS, M Phil	Assistant Professor
Dr. Urooj Zafar urooj.aamir@baqai.edu.pk	MBBS	Assistant Professor
Dr. Izrum Shafi Rajput dr.izrumshafi@baqai.edu.pk	BDS, M Phil	Senior Lecturer
Dr. Syeda Javeria Ikram dr.javeriaikram@baqai.edu.pk	BDS, M Phil	Senior Lecturer
Dr. Hina Masood <u>hinamasood@baqai.edu.pk</u>	MBBS	Senior Lecturer
Dr. Sehrish Mahmood sehrishmahmood@baqai.edu.pk	MBBS	Lecturer
Dr. Humaira Arif <u>humairaarif@baqai.edu.pk</u>	BDS	Lecturer
Dr. Sumreen Mujahid sumreenfawaz@baqai.edu.pk	Pharm D, M Phil	Senior Pharmacist

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Name	Qualifications	Designation
Prof. Dr. Nazia Jameel <u>drnaziajameel@baqai.edu.pk</u>	MBBS, MPH	HOD & Professor
Prof. Dr. Imtiaz Ahmed Jafry drimtiazjafry@baqai.edu.pk	MBBS, MPH	Professor
r. Syed Muhammad HyderNaqvi <u>zulfiqarnaqvi@baqai.edu.pk</u>	MBBS, M.S.B.E.	Associate Professor
Dr. Syed Nauman Raza naumanraza@baqai.edu.pk	MBBS, MPH	Assistant Professor
Dr. Munir Ahmed Shaikh <u>munirshaikh@baqai.edu.pk</u>	MBBS, M.S.B.E.	Assistant Professor
Dr. Muneer Ahmed muneerahmed@baqai.edu.pk	MBBS	Senior Lecturer
Dr. Amara Memon dr.amaraaltaf@baqai.edu.pk	MBBS, MPH	Senior Lecturer
Muhammad Jaffar muhammadjafferbmu@gmail.com		Assistant Director Field Program

DEPARTMENT OF OPHTHALMOLOGY		
Name	Qualifications	Designation
Prof. Mir Amjad Ali	MBBS, FCPS	Professor

DEPARTMENT OF ENT		
Name	Qualifications	Designation
Prof. Dr. Muhammad Shaheen Malik	MBBS, DLO, FCPS (ENT)	HOD & Professor
Dr. Muhammad Khalid	MBBS, DLO, FCPS (ENT)	Assistant Professor
Dr. Maria Mehmood	MBBS, FCPS (ENT)	Assistant Professor
Dr. Rehana Babar	MBBS, FCPS (ENT)	Assistant Professor
Dr. Muhammad Ahsan Khan	MBBS	Senior Lecturer
DEPARTMENT OF MEDICAL EDUCATION		
Name	Qualifications	Designation
Dr. Shams Nadeem Alam	MBBS, FRCS, MHPE	Director DME, BMU
Dr. Saima Qamar Naqvi	MBBS, FCPS, MHPE	Deputy Director DME, BM

DEPARTMENT OF MEDICINE		
Name	Qualifications	Designation
Prof Jameel Ahmed jameelahmed@baqai.edu.pk		Dean & Chair Medicine
Prof Karim Kammeruddin drkarim@baqai.edu.pk		Professor
Dr. Adil Khan adilkhan@baqai.edu.pk		Associate Professor
Dr. Mussarrat Riaz mussaratriaz@baqai.edu.pk	-	Associate Professor
Dr. Masooda Fatima masoodafatima@baqai.edu.pk	(Assistant Professor
Dr. Dania Faisal daniafaisal@baqai.edu.pk	-	Assistant Professor
Dr. Saqib Ur Rehman saqiburrehman@baqai.edu.pk	B.L	Assistant Professor
Dr. Amanullah amanullah808040@gmail.com	V	Assistant Professor
Dr. Saima Askari <u>saimaaskari@baqai.edu.pk</u>	-	Assistant Professor Endocrinology
Dr. Anita Haroon <u>dr.anitaharoon@gmail.com</u>	12	Assistant Professor Nephrology
Dr. Sumayyah Liaquat sumayyahliaquat@yahoo.com	1	Assistant Professor Neurology
Dr. Adeel Ahmed adeelahmed@baqai.edu.pk	DUC AL C	Senior Registrar Gastroenterology

DEPARTMENT OF SURGERY		
Name	Qualifications	Designation
Prof. Dr Khalid Ahmed drkhalidahmed@baqai.edu.pk	MBBS, FCPS	Chairman & Professor
Prof. Dr. Ghulam Mustafa Kaimkhani ghulammustafa@baqai.edu.pk	MBBS, FCPS	Professor, Orthopedic Surgery
Dr. Muhammad Abid Owais drabidowais@baqai.edu.pk	MBBS, FCPS	Associate Professor
Dr. M. Danish Muneeb drdanishmuneeb@baqai.edu.pk	MBBS, FCPS	Associate Professor
Dr. Sidra Abbass drsidraabbass@bagai.edu.pk	MBBS, FCPS	Associate Professor
Dr. Zubia Masood zubiamasood@baqai.edu.pk	MBBS, FCPS, MHPE	Associate Professor
Dr. Bashir Ahmed drbashirahmed@baqai.edu.pk	MBBS, FCPS	Associate Professor, Pediatric Surgery
Dr. Shafatullah drshafatullah@baqai.edu.pk	MBBS, MS	Associate Professor, Plastic Surgery
Dr. Abdul Ghaffar drabdulghaffar@baqai.edu.pk	MBBS, MCPS, FCPS	Assistant Professor
Dr. Muhammad Naveed navhumhs@hotmail.com	MBBS, FCPS	Assistant Professor, Orthopedic Surgery
Dr. Tanveer Ahmed tanveerjunejo@gmail.com	MBBS, FCPS	Assistant Professor, Urology
Dr. S. M. Abdullah Bukhari smab.1986@gmail.com	MBBS, FCPS	Senior Registrar
Dr. Asad Hanif Shaikh drasadhanif@gmail.com	MBBS, FCPS	Senior Registrar, Orthopedic Surgery

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DEPARTMENT OF GYNECOLOGY & OBSTETRICS		
Name	Qualifications	Designation
Prof Dr. Farrukh Naheed drfarrukhnaheed@baqai.edu.pk	MBBS, MCPS, FCPS	HOD & Professor
Dr. Musharraf Jahan drmusharafjahan@baqai.edu.pk	MBBS, MCPS, FCPS	Associate Professor
Dr. Nikhat Ahsan nikhatahsan@baqai.edu.pk	MBBS, MCPS, FCPS	Associate Professor
Dr. Saadia Akram saadiaakram@baqai.edu.pk	MBBS, FCPS	Assistant Professor
Dr. Nazish Ali drnazishgeo@gmail.com	MBBS, FCPS	Assistant Professor
Dr. Farah Liaquat syedafarah2009@hotmail.com	MBBS, FCPS	Assistant Professor
Dr. Naila Qamar naila54@hotmail.com	MBBS, FCPS	Assistant Professor



DEPARTMENT OF PEDIATRICS		
Name	Qualifications	Designation
Dr. Arshad Hamid Khan drarshadhamid@baqai.edu.pk	MBBS, MCPS. DCH, MD	HOD & Associate Professor
Dr Tahira Saeed tahirasaeed@baqai.edu.pk	MBBS, FCPS	Assistant Professor
Dr Saba Sohrab dr.sabasohrab@baqai.edu.pk	MBBS, FCPS, MRCPCH	Assistant Professor
Dr Areeba Tanveer dr.areebatanveer@baqai.edu.pk	MBBS, FCPS	Assistant Professor
Dr Madiha Abid madhiaabid@baqai.edu.pk	MBBS, FCPS	Senior Registrar
Dr. Tabassum Sultana tabassumsultana@baqai.edu.pk	MBBS, DCH	Registrar



CURRICULUM INTEGRATION COMMITTEE (CIC)

Name	Designation	
Prof. Dr. Nazia Jameel	Head CIC Spiral II	
Dr. Sarah Azhar	Head CIC Spiral II	
Dr. Maeesa Sajeel	Member, 4 th year MBBS Class Coordinator	
Prof. Dr. M.S. Fahmi	Member, Department of Ophthalmology	
Dr. Abdul Ghaffar	Member, Department of Surgery & Allied	
Dr. Amara Altaf	Member, Department of Community Medicine	
Dr. Dania Faisal	Member, Department of Medicine & Allied	
Dr. Faraz Saleem	Member, Department of Pharmacology	
Dr. Hina Amjad	Member, Department of Pharmacology	
Dr. Nasima Iqbal	Member, Department of Pathology	
Dr. Nikhat Ahsan	Member, Department of Obstetrics & Gynecology	
Dr. Rehana Babar	Member, Department of ENT	
Dr. Saadia Akram	Member, Department of Obstetrics & Gynecology	
Dr. Tahira Saeed	Member, Department of Pediatrics	
Dr. Zulfiqar H. Naqvi	Member, Department of Community Medicine	
Ms. Maria Rahim	Member, Department of Research	





TEACHING METHODOLOGIES







Musculoskeletal System And Dermatology





INTRODUCTION TO MODULE – II



Module – II

Musculoskeletal System & Dermatology

Systems	Musculoskeletal SystemDermatology
Duration	6` Weeks (From 8 th May 2024 to 12 th July 2024) Summer Break From 3 rd to 30 th June 2024
Assessment Dates	*Monday 15 th July 2024
Assessment Pattern	MCQs, SEQs & OSPE

*The Assessment pattern and dates are tentative (Subject to change)





Торіс	Teaching Strategy	Duration	Learning Objectives
Acquired disorders of bone and cartilage	Interactive Lecture # 27	1 hour	 Classify the acquired disorders of bone and cartilage. Discuss Paget's disease based on its pathogenesis, clinical course, morphology, and complications. Describe the contributing factors, pathogenesis, and clinical manifestations of Renal Osteodystrophy. Differentiate between the pathophysiology & and clinical features of Rickets and Osteomalacia.
Fractures & Osteonecrosis	Interactive Lecture # 28	1 hour	 Define & classify fractures. Explain the sequence of events in the healing of a fracture. List the conditions associated with Osteonecrosis. Discuss the pathophysiology, morphology & clinical course of osteonecrosis.
Osteoporosis	Interactive Lecture # 29	1 hour	 Define Osteopenia and Osteoporosis. Enumerate the primary and secondary categories of generalized osteoporosis. Discuss the risk factors, pathogenesis, morphology, and clinical course of osteoporosis.
Bone Tumors	Interactive Lecture # 30	1 hour	 Classify the primary tumors of the bone. Differentiate between osteoid osteoma and osteoblastoma based on size, sites of origin, and symptoms. Describe the morphology of osteoid osteoma. Comprehend the risk factors, pathogenesis, morphology & and clinical features of osteosarcoma.





Торіс	Teaching Strategy	Duration	Learning Objectives
Cartilage forming tumors	Interactive Lecture # 31	1 hour	 Classify the primary tumors of the cartilage. Describe the pathophysiology, clinical features, and morphology of osteochondroma. Explain the pathogenesis, clinical course & and morphology of chondroma. Comprehend the pathophysiology, morphological & and clinical features of chondrosarcoma.
Infective conditions of the bone (Osteomyelitis)	Interactive Lecture # 32	1 hour	 Define and classify osteomyelitis. List the etiological factors of osteomyelitis. Comprehend the pathogenesis, morphology, and clinical course of osteomyelitis. Enumerate the common routes of spread and frequent sites involved in osteomyelitis. Differentiate between acute and chronic osteomyelitis.
Inflammatory disorders of joints (Arthritis)	Interactive Lecture # 34	1 hour	 Classify arthritis. Differentiate between osteoarthritis and rheumatoid arthritis based on their types, pathogenesis, morphological features, and clinical course. Enumerate the joints frequently involved in osteoarthritis and rheumatoid arthritis. Describe the diagnostic criteria of rheumatoid arthritis.





Торіс	Teaching Strategy	Duration	Learning Objectives
Gouty Arthritis	Interactive Lecture # 33	1 hour	 Define and classify Arthritis. Discuss the pathogenesis, clinical course, and morphology of gout. Describe the pathophysiology and morphology of pseudogout.
Joint tumors and tumor-like conditions	Interactive Lecture # 34	1 hour	 Classify joint tumors and tumor-like conditions. Define ganglion and synovial cyst. Describe the pathogenesis, morphology, and clinical features of a teno-synovial giant cell tumor.
Inherited diseases of the skeletal muscle	Interactive Lecture # 35	1 hour	 Classify Congenital myopathies. Comprehend the subtypes, causes, pathophysiology, morphology, and clinical features of Muscular dystrophy.
Inflammatory diseases of the skeletal muscles	Interactive Lecture # 36	1 hour	 Classify inflammatory myopathies. Discuss the pathogenesis, morphology, and clinical features of dermatomyositis. Describe the pathogenesis and morphology of Polymyositis, and inclusion-body myositis.
Tumors of Muscles & Soft Tissue	Interactive Lecture # 37	1 hour	 Categorize the tumors of soft tissue. Differentiate between the pathophysiology and morphology of lipoma and liposarcoma. Compare leiomyoma & and leiomyosarcoma based on their pathogenesis and morphology. Classify tumors of the skeletal muscle. Discuss the subtypes, pathogenesis, and morphology of Rhabdomyosarcoma.





Торіс	Teaching Strategy	Duration	Learning Objectives
Acute inflammatory dermatosis - I	Interactive Lecture # 39	1 hour	 Define and classify eczematous dermatitis. Describe the etiology and pathogenesis of contact dermatitis, atopic dermatitis, drug- related eczematous dermatitis, photo- eczematous eruptions, and primary irritant dermatitis. Describe the morphological and clinical features of acute eczematous dermatitis.
Acute inflammatory dermatosis – II	Interactive Lecture # 40	1 hour	 Enumerate the conditions which are associated with Erythema Multiforme. Discuss the morphology and clinical features of Erythema Multiforme. Define Urticaria. Describe the causes, pathogenesis, morphological and clinical features of urticaria.
Nomenclature of Skin lesions	Interactive Lecture # 41	1 hour	 Define common macroscopic terms e.g., Macule, Papule, Nodule, Plaque, Vesicle, Bulla, Blister, Pustule, Scale, Lichenification, and Excoriation. Define common microscopic terms e.g., Hyperkeratosis, Parakeratosis, Acanthosis, Dyskeratosis, Acantholysis, Papillomatosis, and Lentiginous Spongiosis





Торіс	Teaching Strategy	Duration	Learning Objectives
Chronic inflammatory dermatosis	Interactive Lecture # 42	1. hour	 Define and Classify Chronic Inflammatory Dermatoses Describe the etiopathogenesis, morphology, and clinical features of Psoriasis. Discuss the etiopathogenesis, morphology, and clinical features of Seborrheic Dermatitis. Define Lichen planus. Explain its etiopathogenesis, morphology, and clinical features. Comprehend the etiopathogenesis, morphology, and clinical features of Lichen planus chronicus.
Infectious dermatosis	Interactive Lecture # 43	1 hour	 List superficial & and deep bacterial infections of the skin e.g., Impetigo caused by Staphylococcus and Streptococcus spp. (superficial) and Pseudomonas aeruginosa(deep). Describe the etiopathogenesis, morphology, and clinical features of bacterial infections. List fungal infections of the skin. Describe the etiopathogenesis, morphology & and clinical features of Candida species and Aspergillus species. Define Verrucae (Warts) and describe its etiopathogenesis, morphology, and clinical features. Define Acne vulgaris. Describe its etiopathogenesis, morphology, and clinical features.





Торіс	Teaching Strategy	Duration	Learning Objectives
Blistering (Bullous) diseases of the Skin	Interactive Lecture # 44	1 hour	 Define and classify blistering (bullous) disorders of the skin (Pemphigus vulgaris, Pemphigus foliaceus, and Paraneoplastic pemphigus). Discuss the variants, pathophysiology, clinical features, and morphology of Pemphigus. Comprehend the pathogenesis, clinical features & and morphology of Bullous Pemphigoid. Define Dermatitis Herpetiformis and describe its etiopathogenesis, morphology, and clinical features.
Pre-malignant and malignant epidermal tumors	Interactive Lecture # 45	1 hour	 List premalignant and malignant epidermal tumors. Describe the etiopathogenesis, morphology, and clinical features of Actinic Keratosis. Explain the risk factors, etiology, and morphology of squamous cell carcinoma of the skin. Discuss basal cell carcinoma concerning its frequent sites of origin and clinical and morphological features.
Tumor and tumor- like lesions of the Melanocytes	Interactive Lecture # 46	1 hour	 List tumor and tumor-like lesions of the Melanocytes. Comprehend the types (Congenital nevus, blue nevus, Spitz's nevus, halo nevus, dysplastic nevus), etiopathogenesis, morphology, and clinical features of Melanocytic Nevi. Describe the pathogenesis, clinical features, and morphology of malignant melanoma.





At the end of these 2 ¹/₂ hours small group discussion sessions, the students of 4th year MBBS will be able to:

Торіс	Teaching Strategy	Duration	Learning Objectives
Developmental disorders of bone and cartilage	Small group discussion # 6 (TBL)	2 ½ hours	 List the developmental disorders of bone and cartilage. Discuss the pathophysiology, morphology, and clinical features of achondroplasia. Comprehend osteogenesis imperfecta based on its pathogenesis, morphology, types, and clinical features. Describe the pathogenesis, clinical features, and morphology of osteopetrosis.
Joint Disorders	Small group discussion # 7 (TBL)	2 ¹ / ₂ hours	 Classify the disorders of joints. Differentiate between the pathogenesis, clinical course, and morphology of Osteoarthritis and Rheumatoid Arthritis. Comprehend Crystal induced arthritis based on pathogenesis, clinical course, and morphology. Describe the pathophysiology, clinical features, and morphology of tumors and tumor-like conditions of the joint.
Musculoskeletal Disorders	Small group discussion # 8 (TBL)	2 ¹ / ₂ hours	 Classify Musculoskeletal Disorders. Summarize the causes, pathogenesis, clinical course, and morphology of the Skeletal disorders. Summarize the etiology, pathophysiology, and morphology of Muscular disorders





At the end of these 2 ¹/₂ hours small group discussion sessions, the students of 4th year MBBS will be able to:

Торіс	Teaching Strategy	Duration	Learning Objectives
Inflammatory dermatosis	Small group discussion # 9 (TBL)	2 ½ hours	 Classify the inflammatory disorders of the skin. Discuss the causes, pathogenesis, clinical course, and morphology of acute inflammatory dermatosis. Comprehend the causes, pathophysiology, clinical features, and morphology of chronic inflammatory dermatosis.
Pathologies of the Skin	Small group discussion # 10 (TBL)	2 ½ hours	 Classify Skin pathologies. Comprehend the pathogenesis, clinical course, and morphology of Skin infections. Discuss the pathophysiology and morphology of dermatological malignancies.

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At the end of these 2 ¹/₂ hours practical sessions, the students of 4th year MBBS will be able to:

Торіс	Teaching Strategy	Duration	Learning Objectives
Bone & Cartilage Tumors	Practical # 5 (Task-based learning)	2 ¹ /2 hours	 Comprehend the incidence and occurrence, pathogenesis, and morphology of Ewing's sarcoma. Identify the given photomicrographs of Ewing's sarcoma with their points of identification. Summarize the pathophysiology, morphological & clinical features of giant cell tumor. Identify the histopathological slide of a giant cell tumor with its points of identification. Summarize the pathophysiology, morphological & clinical features of clutter of the pathophysiology, morphological & clinical features of Chondroma. Identify the histopathological slide of a Chondroma with its points of identification.
Skeletal &soft tissue tumors	Practical # 6 (Task-based learning)	2 ½ hours	 Identify the histopathological slide of lipoma with its points of identification. Identify the histopathological slide of leiomyoma with its points of identification. Identify the histopathological slide of leiomyosarcoma with its points of identification. Identify the histopathological slide of Rhabdomyosarcoma with its points of identification
Skin Tumors	Practical # 7 (Task-based learning)	2 ¹ ⁄2 hours	 Identify and illustrate the histopathological slide of squamous cell carcinoma of the skin. Identify and illustrate the histopathological slide of squamous cell papilloma of the skin. Identify and illustrate the histopathological slide of Melanoma.





Торіс	Teaching Strategy	Duration	Learning Objectives
Vasoactive Peptides (Kinins, Natriuretic Peptides, Endothelin, VIP, Substance P, Urotensin Agonist and Antagonist)	Interactive Lecture # 11	1 hour	 Define Vasoactive peptides. Classify Vasoactive peptides. List the physiologic functions of major Vasoactive peptides. Explain the mechanism of action of Vasoactive peptides. List the clinical applications of Vasoactive peptides.
Drugs for Rheumatoid arthritis (DMARDs)	Interactive Lecture # 12	1 hour	 Outline the pathophysiology of rheumatoid arthritis. Classify drugs used for management of rheumatoid arthritis. Explain the mechanism of action of Methotrexate and Leflunomide. List the pharmacokinetics of Methotrexate and Leflunomide. List the common adverse effects and contraindications of Methotrexate and Leflunomide.
Drugs for Osteoarthritis	Interactive Lecture # 13	1 hour	 Outline the pathophysiology of Osteoarthritis. Classify drugs used to treat Osteoarthritis. Explain the mechanism of action of Acetaminophen, NSAIDs (Aspirin, Ibuprofen, and Naproxen), collagen- active peptides, and Hormonal Therapy. List the pharmacokinetics of Acetaminophen, NSAIDs (Aspirin, Ibuprofen, and Naproxen), collagen- active peptides, and Hormonal Therapy. List the common adverse effects and contraindications of Acetaminophen, NSAIDs (Aspirin, Ibuprofen, and Naproxen), collagen-active peptides, and Hormonal Therapy.





Торіс	Teaching Strategy	Duration	Learning Objectives
Spasmolytic drugs	Interactive Lecture # 14	1 hour	 Classify Spasmolytic drugs. Explain the mechanism of action of Diazepam, Baclofen, Tizanidine, and Dantrolene List the pharmacokinetics and pharmacodynamics of these drugs. List the clinical uses, common adverse effects, and contraindications of these drugs.
Drugs for Gout	Interactive Lecture # 15	1 hour	 Outline the pathophysiology of Gout. Classify drugs used for the management of Gout. Explain the mechanism of action of Allopurinol and Colchicine. List the pharmacokinetic properties of Allopurinol and Colchicine. List the common adverse effects and contraindications of Allopurinol and Colchicine.
Drugs for Acne	Interactive Lecture # 16	1 hour	 Classify drugs used to treat acne vulgaris. Explain the mechanism of action of Macrolide (Erythromycin), Benzoyl peroxide, and Retinoids used in acne vulgaris. List the pharmacokinetic properties of Macrolide (Erythromycin), Benzoyl peroxide, and Retinoids used in acne vulgaris. List adverse effects and contraindications of Macrolide (Erythromycin), Benzoyl peroxide, and Retinoids used in acne vulgaris. List adverse effects and contraindications of Macrolide (Erythromycin), Benzoyl peroxide, and Retinoids used in acne vulgaris.





Торіс	Teaching Strategy	Duration	Learning Objectives
Drugs used to treat fungal skin infections	Interactive Lecture # 17	1 hour	 Classify drugs used to treat Fungal Skin Infections. Explain the mechanism of action of Clotrimazole, Miconazole, Nystatin, Fluconazole, and Griseofulvin used in fungal skin infections. List the pharmacokinetics of Clotrimazole, Miconazole, Nystatin, Fluconazole, and Griseofulvin used in fungal skin infections. List adverse effects and contraindications of Clotrimazole, Miconazole, Nystatin, Fluconazole, and Griseofulvin used in fungal skin infections.
Drugs used to treat Psoriasis	Interactive Lecture # 18	1 hour	 Classify drugs used to treat psoriasis. Explain the mechanism of action of Acitretin, Tazarotene, Calcipotriene, and Apremilast used in Psoriasis. List the pharmacokinetics of Acitretin, Tazarotene, Calcipotriene, and Apremilast used in Psoriasis. List adverse effects and contraindications of Acitretin, Tazarotene, Calcipotriene, and Apremilast used in Psoriasis.





At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Торіс	Teaching Strategy	Duration	Learning Objectives
Drugs used to treat Eczema and Seborrheic Dermatitis	Interactive Lecture # 19	1 hour	 Classify drugs used to treat Eczema and Seborrheic Dermatitis. Explain the mechanism of action of Betamethasone, Coal tar, Antihistamines, cyclosporine, and methotrexate used in Eczema and Seborrheic Dermatitis. List the pharmacokinetics of Betamethasone, Coal tar, Antihistamines, cyclosporine, and methotrexate used in Eczema and Seborrheic Dermatitis. List the adverse effects & contraindications of Betamethasone, Coal tar, Antihistamines, cyclosporine, and methotrexate used in Eczema and Seborrheic Dermatitis.

Bay MES





At the end of these 2 ¹/₂ hours small group discussion sessions, the students of 4th year MBBS will be able to:

Торіс	Teaching Strategy	Duration	Learning Objectives
Prescription of Osteoarthritis and pain management	Tutorial # 7 (Task-based learning)	2 ¹ /2 hours	 List drugs used for the management of Osteoarthritis and pain management. Explain the pharmacokinetics and pharmacodynamics of Acetaminophen, Ibuprofen, and Meloxicam. Write down the pharmacological management of this case.
Prescription writing on Rheumatoid arthritis and DMARDs	Tutorial # 8 (Task-based learning)	2 ¹ /2 hours	 Classify drugs used for management of rheumatoid arthritis. Explain the pharmacokinetics and pharmacodynamics of Abatacept, Hydroxychloroquine, and Sulfasalazine. Write down the pharmacological management of this case.
Prescription writing on Gout (Acute and Chronic gout)	Tutorial # 9 (Task-based learning)	2 ½ hours	 Discuss the pharmacological management of the given case. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case. Write down the prescription of the given case.
Prescription writing on calcium and Vitamin D deficiency	Tutorial # 10 (Task-based learning)	2 ½ hours	 Discuss the pharmacological management of the given case. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case. Write down the prescription of the given case.





At the end of these 2 ¹/₂ hours small group discussion sessions, the students of 4th year MBBS will be able to:

Торіс	Teaching Strategy	Duration	Learning Objectives			
Prescription writing on Acne	Tutorial # 11 (Task-based learning)	2 ½ hours	 Discuss the pharmacological management of the given case. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case. Write down the prescription of the given case. 			
Prescription writing on Eczema (Atopic Dermatitis)	Tutorial # 12 (Task-based learning)	2 ½ hours	 Discuss the pharmacological management of the given case. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case. Write down the prescription of the given case. 			
Prescription writing on Psoriasis	Tutorial # 13 (Task-based learning)	2 ½ hours	 Discuss the pharmacological management of the given case. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case. Write down the prescription of the given case. 			





At the end of these 2 ¹/₂ hours practical sessions, the students of 4th year MBBS will be able to:

Торіс	Teaching Strategy	Duration	Learning Objectives				
Preparation and dispensing of Topical Analgesic ointment	Practical # 5 (Task-based learning)	2 ½ hours	 Define lotion. List the composition of calamine lotion. List various steps used in the preparation Calamine lotion. List the uses of calamine lotion. Draw the label of the calamine lotion. 				
Preparation and dispensing of Corticosteroid Cream for Dermatitis	Practical # 6 (Task-based learning)	2 ½ hours	 Define cream. List the composition of corticosteroid cream for dermatitis. List various steps used in the preparation of corticosteroid cream for dermatitis. List the uses of corticosteroid cream for dermatitis. Draw the label of corticosteroid cream for dermatitis. 				
Preparation and dispensing of Vitamin A Cream (Retinoic Acid)	Practical # 7 (Task-based learning)	2 ½ hours	 List the composition of Vitamin A cream for different skin diseases. List various steps used in the preparation of Vitamin A cream for different skin diseases. List the uses of Vitamin A cream for different skin diseases. Draw the label of Vitamin A cream for different skin diseases. 				
Preparation and dispensing of Topical Antibacterial creams	Practical # 8 (Task-based learning)	2 ¹ /2 hours	 List the composition of topical antibacterial creams. List various steps used in the preparation of topical antibacterial creams. List the uses of topical antibacterial creams. Draw the label of topical antibacterial creams. 				





At the end of these 2 ¹/₂ hours practical sessions, the students of 4th year MBBS will be able to:

Торіс	Teaching Strategy	Duration	Learning Objectives			
Preparation of Sunscreen	Practical # 9 (Task-based learning)	2 ½ hours	 Define Sunscreen. List the composition of Sunscreen. List various steps used in the preparation of Sunscreen. List the uses of Sunscreen. Draw the label of Sunscreen 			







Community Medicine

Торіс	Teaching Strategy	Duration	Learning Objectives				
Introduction to Occupational Health	Interactive Lecture # 16	1 hour	 Define Occupational Health and Occupational environment. Discuss the types of Occupational environments. Describe Ergonomics. 				
Occupational Hazards	Interactive Lecture # 17	1 hour	 Discuss different types of hazards, such physical, chemical, biological, psychosocial hazards. Describe the measures to control prevent occupational hazards. Explain the general measures that sho be taken for the protection of workers. 				
Occupational Diseases, Asbestosis, Silicosis, Pneumoconiosis, Farmer's Lungs	Interactive Lecture # 18	1 hour	 Discuss important occupational diseases. Describe the preventive strategies for Occupational diseases. 				
Occupational Cancers Lung, Skin, and Bladder Cancers	Interactive Lecture # 19	1 hour	 Define Occupational Cancer. Describe the causes and risk factors Occupational Cancers. Discuss the prevention strategies to Occupational cancers. 				
Topic Selection & Literature Search	Interactive Lecture # 20	1 hour	 Describe the criteria for research topic selection. Define Literature search and its significance. Explain the steps of the literature search. 				





Community Medicine

Торіс	Teaching Strategy	Duration	Learning Objectives					
Synopsis Development	Interactive Lecture # 20	1 hour	 Define Synopsis. Discuss the general structure of a synops 					
Questionnaire	Interactive Lecture # 21	1 hour	 Describe various data collection methods. Explain the development of a questionnaire. 					
School Health-1	Interactive Lecture # 22	1 hour	 Define School Health. List and discuss the components of coordinated school health program. 					
School Health - 2	Interactive Lecture # 23	1 hour	 Discuss the responsibilities of school health services team members (school medical officer, school health nurse & attendant) Describe the functions of school health services (levels of prevention) 					
Disaster Management	Interactive Lecture # 24	1 hour	 Define Disaster Management. List the types of Disasters. Describe the duties of the health team during a disaster. Discuss the steps in planning disaster management 					





Community Medicine

Торіс	Teaching Strategy	Duration	Learning Objectives					
Health Education - 1	Interactive Lecture # 25	1 hour	 Define Health education and health promotion. Describe the principles of health education. Explain the stages and strategies of health education. 					
Health Education - 2	Interactive Lecture # 26	1 hour	 Identify the communication barriers regarding health education. Discuss the components of program planning for health education. 					







Community Medicine Field Visit*

At the end of these Community Field Visits, the students of 4th year MBBS will be able to:

Family Planning Association of Pakistan	 Participants will gain insights into the diverse range of reproductive health and family planning services offered by R-FPAP. Participants will observe the integrated approach employed in the delivery of services of reproductive healthcare.
Fatmid Blood Transfusion Services	 Participants will understand the processes and protocols implemented at Fatmid Blood Transfusion Services. Participants will observe the various stages of blood collection, testing, processing, and storage, emphasizing the importance of maintaining high standards in blood transfusion services.

*List of proposed field visits of Community Medicine

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Medicine

Торіс	Teaching Strategy	Duration	Learning Objectives				
Osteoporosis	Interactive Lecture # 6	1 hour	 Identify the causes of Osteoporosis. Enumerate the signs and symptoms of Osteoporosis. Discuss and logically analyze the management plan for Osteoporosis patients. 				
Rheumatoid Arthritis	Interactive Lecture # 7	1 hour	 Identify the causes of Rheumatoid Arthritis. Enumerate the signs and symptoms of Rheumatoid Arthritis. Discuss and logically analyze the management plan for Rheumatoid Arthritis patients. 				
Systemic Lupus Erythematosus	Interactive Lecture # 8	1 hour	 Identify the causes of Systemic Lupus Erythematosus. Enumerate the signs and symptoms of SLE. Discuss and logically analyze the management plan for SLE patients. 				
Cutaneous Presentation of Diabetes	Interactive Lecture # 9	1 hour	 Identify the signs and symptoms of dermal lesions of Diabetes Mellitus. List the appropriate investigations required to confirm the lesions/ manifestations. Discuss the differential diagnosis of the cutaneous lesions. 				
Cutaneous Presentation of Thyroid	Interactive Lecture # 10	1 hour	 Identify the signs and symptoms of dermal lesions of Thyroid disorders. List the appropriate investigations required to confirm the lesions/ manifestations. 				





Surgery

Торіс	Teaching Strategy	Duration	Learning Objectives			
Bone fractures & their management	Interactive Lecture # 5	1 hour	 Define the terms: fracture, dislocation, and subluxation. Identify the general causes, signs, and symptoms of fractures. Classify different types of fracture. Describe the role of radiography in fracture management. Discuss general principles of management of fractures. Explain the process of fracture healing. State the local and general complication of fractures. 			
Bone tumors & their management	Interactive Lecture # 6	1 hour	 Define normal anatomy and physiology of bone. Explain bone tumors & enlist the risk factors. Explain TNM classification of bone tumor. Explain the types of bone tumors. Explain the clinical manifestation of bone tumors. Explain the diagnostic factors for bone tumors. Explain the management for bone tumors 			
Malignant Skin diseases	Interactive Lecture # 7	1 hour	 Describe the structure and functions of normal skin. Classify malignant skin cancers. Enumerate the risk factors for skin cancers. Describe the etiopathogenesis of various types of skin cancers. Describe the signs and symptoms of various types of skin cancers. List investigations required to reach the diagnosis. Discuss the treatment options available for malignant skin diseases. 			





SUGGESTED READING BOOKS







SUGGESTED READING BOOKS







SUGGESTED READING BOOKS



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SUGGESTED WEBSITES & SEARCH ENGINES







ASSESSMENT METHODS

1. Formative Assessment

- Assignment
- Quiz (face-to-face or online)
- Student Presentation
- Class participation in small group discussions and case-based learning sessions
- Project / Poster

 \ast 4th Year MBBS Students are directed to maintain their practical journals & and logbooks for formative assessment.

2. Summative Assessment

• <u>Modular Exam:</u>

With reference to the Assessment Policy of BMC, dated 14-06-21) (Point 5: Process; Summative assessment point a, b & d); a single modular exam will be conducted at the end of each module which will include all the subjects of basic medical sciences.

*Module exam will be assessed by any of the following assessment methods:

- MCQ
- SEQ
- OSPE.

• Annual Exam:

- Internal Evaluation = 20%
 - Final Exam= 80% Theory: MCQs, EMQs & SAQs Practical: Viva & OSPE









Baqai Medical College Baqai Medical University

51-Deh Tor, Gadap Road, Superhighway. P.O Box: 2407, Karachi-75340, Pakistan.

(092-21)34410-293 to 298, 34410-427 to 430

Fax: (092-21)34410-317, 34410-431

Email: info@baqai.edu.pk, Web: www.baqai.edu.pk/



Baqai Medical College



4th Year MBBS Session 2024 - 2025

End of GIT and Hepatobiliary Module and Commencement of Musculoskeletal Module

8th Week (From 6th May 2024 to 10th May 2024)

Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 - 2:00	Practical / Small Group Discussion 2:00– 4:00
Day 30 Monday 6-5-24	Acute Pancreatitis [Medicine] (Dr. Dania Faisal) [Lecture Hall 13]	Pancreatic enzyme supplements [Pharmacology] (Dr Faraz/ Dr Izrum) [Pathology Lecture Hall]	T E	Clinics	P R	Group A: Pathology Group B: Pharmacology (P) Group C: Pharmacology (T) Group D: SDL
Tuesday 7-5-24	1 st Integrated Module A	Assessment (Theory)		A Clinics		1 st Integrated Module Assessment (OSPE)
Day 31 Wednesday 8-5-24	Introduction to Occupational Health [Community Medicine] (Prof. Dr. Nazia Jameel/ Dr. Amara Altaf) [Com Med Lecture Hall 1]	Acquired disorders of the Bone and Cartilage [Pathology] (Dr. Muhammad Rizwan) [Pathology Lecture Hall]	R E	Clinic	E R S	Group A: Research Group B: SDL Group C: Pathology Group D: Pharmacology
Day 32	Vasoactive Peptides	Occupational Hazards [Community Medicine]	Group C: Community Field Visit			nunity Field Visit
Thursday 9-5-24	[Pharmacology] (Dr. Hina Masood/ Dr. Sehrish) [Pathology Lecture Hall]	(Prof. Dr. Nazia Jameel/ Dr. Amara Altaf) [Com Med Lecture Hall 1]	A K	Clinics	S	Group A: Pharmacology Group B: Research Group D: Pathology
	8:30 - 9:30	9:30 - 10:30	10:	30 - 1:30	1:30-2:00	2:00 - 4:00
Day 33 Friday 10-5-24	Fractures and Osteonecrosis [Pathology] (Dr. Maeesa Sajeel) [Pathology Lecture Hall]	Bone fractures & their management [Orthopedic Surgery] (Prof. Ghulam Mustafa Khaimkhani) [LRC, Deptt of Surgery]	(Clinics	Jumma Prayers	Group A: Pathology Group B: Pharmacology Group C: Research Group D: SDL

For Monday:

Pathology Practical: Chronic Cholecystitis and Pancreatitis

Pharmacology Practical: Role of Milk Thistle in the management of Liver diseases Pharmacology Tutorial: Prescription writing of Constipation For Wednesday to Friday:

Pathology SGD: Developmental Disorders of the Bone and Cartilage Pharmacology: Preparation and Dispensing of Topical Analgesic Ointment.

Facilitator: Dr. Nadeem Baqai/ Dr. M Yasir Rishi Facilitator: Dr. Hina Masood/ Dr Sumreen Facilitator: Dr. Javeria/ Dr. Humaira

Facilitator: Dr. Rozina Khan/ Dr. Tooba Khan Facilitator: Dr. Samreen/ Dr Hina Masood

Venue: Histopathology Museum Venue: Pharma Lab Venue: Hematology Lab

Venue: Pathology Lecture Hall Venue: Pharma Lab

Dr. Vice Principal (Academics) Banni Medical Callega



Baqai Medical College 4th Year MBBS Session 2024 - 2025 Musculoskeletal and Dermatology Module 9th Week (From 13th May 2024 to 17th May 2024)



Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 - 2:00	Practical / Small Group Discussion 2:00– 4:00
Day 34 Monday 13-5-24	Osteoporosis [Pathology] (Dr. Sarah Azhar) [Pathology Lecture Hall]	Osteoporosis [Medicine] (Dr. Masooda Fatima) [Lecture Hall 13]	T	Clinics	P R	Group A: SDL Group B: Pathology Group C: Pharmacology Group D: Research
Day 35 Tuesday 14-5-24	Tumors of the Bone [Pathology] (Dr. Muhammad Khan) [Pathology Lecture Hall]	Tumors of the Cartilage [Pathology] (Dr. Ghazal Irfan) [Pathology Lecture Hall]	AB	Clinics	A Y	Group A: Research Group B: SDL Group C: Pathology Group D: Pharmacology
Day 36 Wednesday 15-5-24	Occupational Health Practices [Community Medicine] (Prof. Dr. Nazia Jameel/ Dr. Amara Altaf) [Com Med Lecture Hall 1]	Bone Tumors and their Management [Orthopedic Surgery] (Prof. Ghulam Mustafa Khaimkhani) [LRC, Deptt of Surgery]	R E	Clinics	E R S	Group A: Pharmacology Group B: Research Group C: SDL Group D: Pathology
Day 37 Thursday 16-5-24	Osteomyelitis [Pathology] (Dr. Munazza Rashid) [Pathology Lecture Hall]	Occupational Cancers [Community Medicine] (Prof. Dr. Nazia Jameel/ Dr. Amara Altaf) [Com Med Lecture Hall 1]	A K	Grov Clinics	up D: Comi	munity Field Visit Group A: Pathology Group B: Pharmacology Group C: Research
	8:30 - 9:30	9:30 - 10:30	10:	30 - 1:30	1:30-2:00	2:00 - 4:00
Day 38 Friday 17-5-24	Inflammatory disorders of the joints [Pathology] (Prof. Dr. Nasima Iqbal) [Pathology Lecture Hall]	Drugs for Osteoarthritis [Pharmacology] (Dr. Nadeem/ Dr. Faraz) [Pathology Lecture Hall]	Clinics		Jumma Prayers	Group A: SDL Group B: Pathology Group C: Pharmacology Group D: Research

Facilitator: Dr. Rozina Khan/ Dr. Tooba Khan

Facilitator: Dr. Sana Mubarak/ Dr. M Yasir Rishi

Facilitator: Dr. Samreen/ Dr. Hina Masood

For Monday:

Pathology SGD: Developmental Disorders of the Bone and Cartilage **Pharmacology:** Preparation and Dispensing of Topical Analgesic Ointment. *For Tuesday Till Friday:*

Pathology Practical: Bone and Cartilage Tumors

Pharmacology Practical: Prescription writing on Calcium and Vitamin D deficiency Facilitator: Dr. Humaira/ Dr. Javeria

Venue: Pathology Lecture Hall Venue: Pharma Lab

Venue: Pathology Museum Venue: Pharma Lab





Baqai Medical College 4th Year MBBS Session 2024 - 2025 Musculoskeletal and Dermatology Module 10th Week (From 20th May 2024 to 24th May 2024)



Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 - 2:00	Practical / Small Group Discussion 2:00-4:00
Day 39 Monday 20-5-24	Drugs for Rheumatoid Arthritis [Pharmacology] (Dr. Faraz/ Dr. Izrum) [Pathology Lecture Hall]	Rheumatoid Arthritis [Medicine] (Dr Dania Faisal) [Lecture Hall 13]	T E	Clinics	P R	Group A: Pathology Group B: Pharmacology (T1) Group C: Pharmacology (T2) Group D: SDL
Day 40 Tuesday 21-5-24	Gouty Arthritis [Pathology] (Dr. Maeesa Sajeel) [Pathology Lecture Hall]	Drugs for Gout [Pharmacology] (Dr. Izrum/ Dr. Hina Masood) [Pathology Lecture Hall]	A B	Clinics	A Y	Group A: Pharmacology (T1) Group B: Pharmacology (T2) Group C: SDL Group D: Pathology
Day 41 Wednesday 22-5-24	Topic Selection & Literature Search [Community Medicine] (Dr. Munir Shaikh) [Com Med Lecture Hall 1]	Joint Tumors and Tumor-like Conditions [Pathology] (Dr. Muhammad Rizwan) [Pathology Lecture Hall]	R E	Clinics	E R S	Group A: Pharmacology (T2) Group B: SDL Group C: Pathology Group D: Pharmacology (T1)
Day 42	Inherited disorders of the Skeletal Muscles	Synopsis development	Group A: Community Field Visit			
Thursday 23-5-24	[Pathology] (Dr. Sarah Azhar) [Pathology Lecture Hall]	(Dr. Munir Shaikh) [Com Med Lecture Hall 1]	A K	Clinics		Group B: Pathology Group C: Pharmacology (T1) Group D: Pharmacology (T2)
	8:30 - 9:30	9:30 - 10:30	10:	30-1:30	1:30-2:00	2:00 - 4:00
Day 43 Friday 24-5-24	Inflammatory Disorders of the Skeletal Muscles [Pathology] (Dr. Muhammad Khan) [Pathology Lecture Hall]	Systemic Lupus Erythematosus [Medicine] (Dr. Dania Faisal) [Lecture Hall 13]	Clinics		Jumma Prayers	Group A & B: Skeletal & Smooth Muscle Tumors [Pathology] (Dr. Rozina Khan) Pathology Museum Group C & D: Prescription writing on Gout [Pharmacology] (Dr. Izrum/ Dr Hina Masood) Pharma Lecture Hall
logy SGD (St	udent Presentation): Joint Disorders	Facilitator: Dr. Na	deem Ba	igai / Dr. Toob	a Khan	Venue: Pathology Lecture Hall
				1		for a control of postule fial

Pharmacology Tutorial (1): Prescription writing on Rheumatoid Arthritis **Pharmacology Tutorial (2):** Prescription writing on Osteoarthritis Facilitator: Dr. Nadeem Baqai / Dr. Tooba Khar Facilitator: Dr. Sehrish/ Dr Humaira Facilitator: Dr. Javeria/ Dr. Izrum Venue: Pathology Lecture Ha Venue: Pharma Lecture Hall Venue: Hematology Lab Dr. Adil Khan MBBS, MCPS, FCPS Vice Principal (Academics) Baqai Medical College



Baqai Medical College 4th Year MBBS Session 2024 - 2025 Musculoskeletal and Dermatology Module 11th Week (From 27th May 2024 to 31st May 2024)



Practical / Small Group 10:30 Lecture 1 1:45 Lecture 2 Clinics Dav Discussion 8:30 - 9:309:30 - 10:3010:45 - 1:452:00 10:45 2:00-4:00 Group A & B: Prescription writing on Gout Tumors of the Muscle and Soft Τ (Dr. Izrum/ Dr Hina Masood) Spasmolytic drugs **Day 44** Tissues [Pharma] Pharma Lecture Hall Ρ [Pharmacology] Monday [Pathology] E Clinics Group C & D: (Dr. Urooj/ Dr Humaira) (Dr. Ghazal Irfan) 27-5-24 Skeletal & Smooth Muscle R [Pathology Lecture Hall] [Pathology Lecture Hall] A **Tumors** [Pathology] A (Dr. Rozina Khan) B Pathology Museum Drugs Used to Treat Eczema and Y Acute Inflammatory Dermatosis- I Group A: Pathology Day 45 Seborrheic Dermatitis R [Pathology] Group B: Pharmacology (P) Tuesday [Pharmacology] Clinics E (Prof. Dr. Nasima Igbal) Group C: Pharmacology (T) 28-5-24 (Dr. Humaira/ Dr. Urooi) E [Pathology Lecture Hall] Group D: SDL [Pathology Lecture Hall] R **Ouestionnaire** A Acute Inflammatory Dermatosis- II Day 46 Group A: SDL [Community Medicine] S [Pathology] Group B: Pathology Wednesday (Dr. Munir Shaikh/ K Clinics (Dr. Maeesa Sajeel) Group C: Pharmacology (P) 29-5-24 Dr. Syed Zulfigar Hyder) [Pathology Lecture Hall] Group D: Pharmacology (T) [Com Med Lecture Hall 1] Nomenclature of Skin lesions School Health-I Group B: Community Field Visit **Day 47** [Pathology] [Community Medicine] Thursday Group A: Pharmacology (T) (Dr Munazza Rashid) (Prof. Dr. Nazia Jameel) 30-5-24 Clinics Group C: Pathology [Pathology Lecture Hall] [Com Med Lecture Hall 1] Group D: Pharmacology (P) 1:30-8:30 - 9:309:30 - 10:3010:30 - 1:302:00 - 4:002:00 **Day 48 Chronic Inflammatory Dermatosis Drugs Used to Treat Psoriasis** Group A: Pharmacology (P) Friday [Pathology] [Pharmacology] Jumma Group B: Pharmacology (T) 31-5-24 Clinics (Dr. Muhammad Rizwan) (Dr. Asif/ Dr. Javeria) Group C: SDL Prayers [Pathology Lecture Hall] [Pathology Lecture Hall] Group D: Pathology

Pathology Practical: Leiomyoma, Leiomyosarcoma & RhabdomyosarcomaFacilitator: Dr. Sana Mubarak/ Dr. M Yasir RishiVenue: PathoPharmacology Tutorial: Prescription writing on Eczema (Atopic Dermatitis)Facilitator: Dr. Javeria/ Dr. IzrumVenue: PharmPharmacology Practical: Preparation And Dispensing of Corticosteroid Cream for Dermatitis Facilitator: Dr. Samreen /Dr. HinaVenue: Pharm

Venue: Pathology Museum Venue: Pharma Lecture Hall Venue: Pharma Lab Dr. Adil Kham MBBS, MCPS, FCPS Vice Principal (Academics) Bagai Medical College



Baqai Medical College 4th Year MBBS Session 2024 - 2025 Musculoskeletal and Dermatology Module 12th Week (From 1st July 2024 to 5th July 2024)



Day	Lecture 1	Lecture 2	10:30	Clinics	1:45	Practical / Small Group
	8:30 - 9:30	9:30 - 10:30	10:45	10:45 - 1:45	2:00	2:00-4:00
Day 49 Monday 1-7-24	Infectious Dermatosis [Pathology] (Dr. Sarah Azhar) [Pathology Lecture Hall]	Drugs for Acne [Pharmacology] (Dr. Javeria/ Dr. Sehrish) [Pathology Lecture Hall]	T E	Clinics	P R	Group A: Research Group B: SDL Group C: Pathology Group D: Pharmacology
Day 50 Tuesday 2-7-24	Drugs used to treat fungal skin infections [Pharmacology] (Dr. Sehrish/ Dr. Izrum) [Pathology Lecture Hall]	Blistering Disorders of the Skin [Pathology] (Dr. Muhammad Khan) [Pathology Lecture Hall]	A B	Clinics	A Y E	Group A: SDL Group B: Pathology Group C: Pharmacology Group D: Research
Day 51 Wednesday 3-7-24	School Health- II [Community Medicine] (Prof. Dr. Nazia Jameel) [Com Med Lecture Hall 1]	How to do an Effective Literature Search? [Evidence-based Medicine] [Pathology Lecture Hall]	R E	Clinics	R S	Group A: Pathology Group B: Pharmacology Group C: Research Group D: SDL
Day 52	Cutaneous Manifestations of Diabetes Mellitus	Disaster Management [Community Medicine]	Group C: Community Field Visit			
Thursday 4-7-24	[Medicine] (Dr Saima Askari) [Lecture Hall 13]	(Dr. Muneer Ahmed) [Com Med Lecture Hall 1]	A K	Clinics		Group A: Pharmacology Group B: Research Group D: Pathology
	8:30 - 9:30	9:30 - 10:30	10:	30 - 1:30	1:30-2:00	2:00 - 4:00
Day 53 Friday 5-7-24	Group A & B: Pharmacology Preparation And Dispensing of topical antibacterial cream Pharma Lab Dr Samreen/ Dr. Hina Masood Group C & D: Research				Jumma Prayers	Group A & B: Research Group C & D: Pharmacology Preparation And Dispensing of topical antibacterial cream Pharma Lab Dr. Samreen/ Dr Hina Masood
athology SGD St Pharmacology Tut	udents Presentation: Pathologies of the Sk torial: Prescription writing on Acne	in Facilitator: Dr. Nac Facilitator: Dr.	leem Bao Humaira	qai/ Dr.Tooba / Dr. Sehrish	Khan	Venue: Histopathology Museum Venue: Pharma Lecture Hall

Pr. Adil Khan MBBS, MCPS, FCPS Vice Principal (Academics) Baqai Medical College



Baqai Medical College 4th Year MBBS Session 2024 - 2025 Musculoskeletal and Dermatology Module 13th Week (From 8th July 2024 to 12th July 2024)



Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 	Practical / Small Group Discussion 2:00-4:00
Day 54 Monday 8-7-24	Premalignant and Malignant Skin Lesions [Pathology] (Dr. Ghazal Irfan) [Pathology Lecture Hall]	Malignant Skin Diseases and their Management [Surgery & Allied] (Dr Shafatullah) [LRC, Deptt of Surgery]	T E	Clinics	P R	Group A: SDL Group B: Pathology Group C: Pharmacology (P) Group D: Pharmacology (T)
Day 55 Tuesday 9-7-24	Tumor and Tumor like condition of the Melanocytes [Pathology] (Dr. Munazza Rashid) [Pathology Lecture Hall]	Cutaneous Manifestations of Thyroid Disorders [Medicine] (Dr. Dania Faisal) [Lecture Hall 13]	A B	Clinics	A Y E	Group A: Pharmacology (T) Group B: SDL Group C: Pathology Group D: Pharmacology (P)
Day 56 Wednesday 10-7-24	Health Education - I [Community Medicine] (Prof. Dr. Nazia Jameel/ Dr. Amara Altaf) [Com Med Lecture Hall 1]	How to search for evidence on prevention? [Evidence-based Medicine] [Pathology Lecture Hall]	R E	Clinics	R S	Group A: Pharmacology (P) Group B: Pharmacology (T) Group C: SDL Group D: Pathology
Day 57 Thursday 11-7-24	Revision class	Health Education - H [Community Medicine] (Prof. Dr. Nazia Jameel/ Dr. Amara Altaf) [Com Med Lecture Hall 1]		Group D: Community Field Visit		
	[Pathology] (Prof. Dr. Nasima Iqbal) [Pathology Lecture Hall]		A K	Clinics		Group A: Pathology Group B: Pharmacology (P) Group C: Pharmacology (T)
	8:30 - 9:30	9:30 - 10:30	10:	30-1:30	1:30-2:00	2:00 - 4:00
Day 58 Friday 12-7-24	Group A & B: Pharmacology Practical: Preparation of Sunscreen (Dr. Hina Masood / Dr. Samreen) [Pharma Lab] Group C & D: Research		Clinics		Jumma Prayers	Group C & D: Pharmacology Practical: Preparation of Sunscreen (Dr. Hina Masood / Dr. Samreen) [Pharma Lab] Group A & B: Research

 Pathology Practical: Skin Tumors
 Facilitator: Dr. Sana Mubarak/Dr. Rozina Khan
 Venue: Histopathology Museum

 Pharmacology Practical: Preparation & Dispensing of Vit A Cream (Retinoic Acid)Facilitator: Dr. Samreen/Dr. Hina Masood
 Venue: Histopathology Museum

 Pharmacology Tutorial: Prescription writing on Psoriasis
 Facilitator: Dr. Izrum / Dr. Sehrish
 Venue: Hematology Lab

 The tentative date of the 2nd Module Assessment is 15th July 2024
 Venue: Hematology Lab
 Venue: Hematology Lab

Dr. Adil Khan MBBS, MCPS, FCPS Vice Principal (Academics) Baqai Medical College