

## MBBS Program Outcomes

The MBBS program outcomes aligned with vision and mission of KMU, NWSM and with the identified Pakistan Medical & Dental Council generic professional competencies for medical graduates to provide optimal health care, leading to better health outcomes for patients and societies. These competencies are divided into seven roles including Knowledgeable and Skillful Physician, Community Health Promoter (Health Advocate), Problem-solver (Collaborator), Communicator, Professional, Scholar, Leader and Role Model.

<b>LINKED PROFESSIONAL COMPETENCIES</b>	<b>PROGRAM OUTCOMES</b>
<p><b>1. Skillful Physician</b></p> <p>Collect, interpret and apply medical knowledge, clinical skills and professional behaviours required to make clinical decisions and effectively provide patient centered care.</p>	<p>Knowledge outcomes</p> <ol style="list-style-type: none"> <li>1. Perform a complete and accurate patient-centred history appropriate to the patient’s presentation.</li> <li>2. Perform a complete and accurate physical examination appropriate to the patient’s presentation.</li> <li>3. Formulate an initial plan of appropriate diagnostic and therapeutic procedures relevant to the patient’s presentation.</li> <li>4. Develop a differential diagnosis and key clinical problem list following assessment of a patient.</li> <li>5. Develop a management plan for key clinical problems following assessment of a patient.</li> <li>6. Apply knowledge of the clinical, socio-behavioural, and fundamental biomedical sciences relevant to a clinical problem.</li> </ol>
<p><b>2. Knowledgeable</b></p>	<p>Differentiate between</p> <ul style="list-style-type: none"> <li>• normal and abnormal structure and functions of the body</li> <li>• normal and abnormal molecular, cellular, biochemical, and physiological and pathophysiological mechanisms and processes</li> <li>• normal and abnormal human behavior</li> <li>• effects of growth, development and aging biological and social determinants and risk</li> </ul>

	<p>factors of disease, various etiological cause(s) and causative agents</p> <ul style="list-style-type: none"> <li>• available therapeutic options</li> <li>• other relevant biochemical, pharmacological, surgical, psychological, social interventions</li> </ul> <p><b>Relate</b></p> <ul style="list-style-type: none"> <li>• the effects and interactions of physical, emotional and social environments to health and disease of humans;</li> <li>• the natural history of acute and chronic, communicable and non-communicable diseases with respective etiologic agents and effect of appropriate interventions on the progress of disease;</li> </ul> <p><b>Apply</b></p> <ul style="list-style-type: none"> <li>• evidence-based medicine concepts to provide best possible cost-effective care;</li> </ul> <p><b>Ensure</b></p> <ul style="list-style-type: none"> <li>• compliance with the legal system as it impacts health care and the PM&amp;DC regulations;</li> <li>• patient safety guidelines.</li> </ul>
<p><b>3. Community Health Promoter</b></p> <p>Demonstrate the role of the physician in disease prevention and in protecting and promoting, through advocacy, the health of the individual patient, communities, and populations, especially in primary health care.</p>	<ol style="list-style-type: none"> <li>1. Identify the important determinants of health, risk factors for illness, interaction between the population and their physical, biological and social environment, and personal attributes.</li> <li>2. Identify public policies and trends that affect health locally, nationally, and globally, and barriers to access for populations, including persons with disabilities, the underserved and the marginalized.</li> <li>3. Assess and respond to issues in the Pakistani health care system and advocate for patients at all levels.</li> </ol>

<p><b>4. Problem Solver/critical thinker</b></p> <p>Demonstrate effective collaboration with health care professionals to provide safe, high-quality, patient-centered care incorporating critical thinking and reflective practice in his/her care provision.</p>	<ol style="list-style-type: none"> <li>1. Demonstrate effective collaboration skills within the health care system.</li> <li>2. Demonstrate effective consultation with other health care professionals to provide care for individuals, communities, and populations.</li> <li>3. Demonstrate respect for health care team members without bias (e.g., bias related to gender, ethnicity, cultural background or health care role).</li> <li>4. Demonstrate effective strategies to promote understanding, manage differences and resolve conflicts through negotiation and collaboration.</li> </ol>
<p><b>5. Communicator</b></p> <p>Demonstrate effective communication skills when interacting with patients, families and other health care professionals involved in the delivery of patient-centered care.</p>	<ol style="list-style-type: none"> <li>1. Develop and maintain appropriate ethical and therapeutic relationships, rapport and trust with patients and their families.</li> <li>2. Collect and synthesize accurate and relevant information, incorporating perspectives from patients and their families, colleagues and other health care professionals.</li> <li>3. Discuss relevant health care information and management plans with patients and their families.</li> <li>4. Develop a shared plan of care with patients, their families, and other health care professionals.</li> <li>5. Demonstrate effective oral and written communication of information associated with a medical encounter.</li> <li>6. Discuss effective strategies for communicating with third parties other than health care professionals.</li> </ol>
<p><b>6. Professional</b></p> <p>Demonstrate a commitment to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, honesty and accountability towards the profession, life-long self-directedness and maintenance of personal health.</p>	<ol style="list-style-type: none"> <li>1. Demonstrate accountability to patients by applying best practices and adhering to high ethical standards</li> <li>2. Demonstrate altruism and accountability to society by recognizing and responding to societal expectations in health care</li> <li>3. Demonstrate integrity and accountability to the profession by adhering to standards and participating in physician-led regulation</li> <li>4. Demonstrate a commitment to his/her health and well-being to foster optimal patient care</li> </ol>

<p><b>7. Researcher and Scholar</b></p> <p>Demonstrate a lifelong commitment to reflective learning, as well as the dissemination, application and translation of medical knowledge.</p>	<ol style="list-style-type: none"> <li>1. Develop a plan for personal continued education.</li> <li>2. Apply the principles of research, critical appraisal and evidence-based medicine to learning and practice.</li> <li>3. Demonstrate facilitation of learning for health care professionals, patients and society as part of the professional responsibility.</li> </ol>
<p><b>8. Leader</b></p> <p>Demonstrate leadership skills to organize and manage personal and professional practices and to contribute to the delivery of high-quality health care to gain trust of patients on healthcare in the communities they serve.</p>	<ol style="list-style-type: none"> <li>1. Identify strategies to effectively manage practice and career.</li> <li>2. Apply evidence and management processes to effectively allocate health care resources.</li> <li>3. Describe the roles and responsibilities of physicians and governing bodies in the development and support of the health care system.</li> </ol>