

## Alignment of PLOs of NQF with the SaudiMEDS Objectives

PLO	NQF Learning Domains and Learning Outcomes	CLO	SaudiMEDS Objectives
<b>1.0</b>	<b>Knowledge:</b>		
1.1	Describe the normal structure and function of all body systems including the human life cycle, the biochemical, molecular and cellular mechanisms that are essential for maintaining body homeostasis and the role and impact of nutrition in health and disease. (SaudiMEDS-1.1, 1.2, 1.3, 1.7)	<b>1.1</b>	Explain the normal structure and function of the body in relation to its organ systems
		<b>1.2</b>	Demonstrate knowledge of the human life cycle and its' effect on a human body's normal structure and function (such as pregnancy, birth, growth and development, and aging)
		<b>1.3</b>	Explain the biochemical, molecular and cellular mechanisms that are essential for maintaining body homeostasis
		<b>1.7</b>	Discuss the role and impact of nutrition in health and disease
1.2	Discuss the etiology, epidemiology, pathophysiology and pathogenesis of different body disorders with emphasis on the symptoms and signs and investigations, management, complications and prognosis (SaudiMEDS-1.4, 1.5, 1.8, 1.9).	<b>1.4</b>	Explain the pathogenesis of various diseases such as genetic, developmental, behavioural, ischaemic, metabolic, toxic, infectious, autoimmune, neoplastic, degenerative, and traumatic factors, and the ways in which they affect the body
		<b>1.5</b>	Explain the principles of essential clinical investigations
		<b>1.8</b>	Describe and explain the basic aspects of common clinical presentations
		<b>1.9</b>	Explain the facts and concepts relevant to common clinical conditions including their epidemiology, etiology, pathophysiology, symptoms and signs, complications, investigations, management and prognosis
1.3	Discuss the basic knowledge of the pharmacological principles of drugs relevant to clinical practice. (SaudiMEDS-1.6).	<b>1.6</b>	Demonstrate the basic knowledge of the pharmacology of drugs relevant to clinical practice
1.4	Recognize the basic principles of evidence-based health care and the principles and roles of complementary and alternative medicine (SaudiMEDS-1.11, 2.1).	<b>1.11</b>	Recognize the principles and roles of complementary and alternative medicine
		<b>2.1</b>	Explain the basic principles of evidence-based health care.
1.5	Recognize the national health care systems including their organization, policies, procedures and the roles and services that are provided by societies and agencies and cooperate with them, where applicable. (SaudiMEDS-8.1, 8.2)	<b>8.1</b>	Describe national health care systems including its organization, policies, and procedures
		<b>8.2</b>	Identify roles and services that are provided by societies and agencies and cooperate with them, where applicable

1.6	Describe the principles of epidemiology of common diseases within a defined population and a systematic approach to screening to reduce the incidence and prevalence of those diseases. (SaudiMEDS-9.1).	<b>9.1</b>	Describe the principles of epidemiology of common diseases within a defined population and a systematic approach to screening to reduce the incidence and prevalence of those diseases.
1.7	Recognize the importance of psychosocial, spiritual, religious, the principles of spiritual & Prophetic Medicine and cultural factors in patient management. (SaudiMEDS-6.1, 1.10).	<b>6.1</b>	Explain the importance of psychosocial, spiritual, religious, and cultural factors in patient management
		<b>1.10</b>	Acknowledge the principles of spiritual and Prophetic Medicine

<b>2.0 Cognitive Skills:</b>			
2.1	Formulate and prioritize a differential diagnosis and the need for multiple therapeutic modalities to address patient conditions (SaudiMEDS-4.1, 6.4, 6.6).	<b>4.1</b>	Formulate and prioritize a differential diagnosis using reasoning skills
		<b>6.4</b>	Recognize the need for multiple therapeutic modalities to address patient conditions.
		<b>6.6</b>	Implement the principles of the amelioration of suffering and disability, rehabilitation and palliative care, including appropriate pain management
2.2	Analyze critically clinical data obtained through history, physical examination, diagnostic investigations and constructing appropriate evidence-based management strategies. (SaudiMEDS2.2, 3.4, 6.2,7.4)	<b>2.2</b>	Formulate appropriate evidence-based patient's centred management strategies
		<b>3.4</b>	Critically analyze clinical data obtained through history, physical examination, and investigation
		<b>6.2</b>	Select and apply the most appropriate and cost effective diagnostic procedures
		<b>7.4</b>	Identify and manage clinical risks
2.3	Apply principles of research methodology including appropriate statistical techniques, critical appraisal and demonstrate the ability to write a manuscript according to publication standards. (SaudiMEDS- 16.1, 16.2, 16.3, 16.4)	<b>16.1</b>	Demonstrate ethical and governance issues related to medical research
		<b>16.2</b>	Apply the principles of research methodology including appropriate statistical techniques
		<b>16.3</b>	Appraise critically the available research evidence to address issues related to medical practice
		<b>16.4</b>	Demonstrate the ability to write a manuscript according to publication standards
2.4	Identify global health issues with particular attention to Hajj and Umrah. and the role of international health organizations (including guidelines on management of pandemics) (SaudiMEDS-9.6)	<b>9.6</b>	Identify global health issues and the role of international health organizations (including guidelines on management of pandemics) with particular attention to Hajj and Umrah.
<b>3.0 Interpersonal Skills &amp; Responsibility</b>			
3.1	Recognize the roles of various healthcare professionals involved in patient care and collaborate with them, advocate the rationale and importance of teamwork, and reflection & learning from errors. (SaudiMEDS-7.3, 11.1, 11.3)	<b>7.3</b>	Demonstrate reflection and learning from errors
		<b>11.1</b>	Collaborate and identify the roles of various healthcare professionals involved in patient's care and collaborate with them
		<b>11.3</b>	Recognize and stress the rationale and importance of teamwork.
3.2	Demonstrate appropriate leadership and management skills and the ability to prevent and resolve inter-professional team conflicts. (SaudiMEDS- 11.4, 15.3)	<b>11.4</b>	Demonstrate the ability to prevent and resolve inter-professional team conflicts
		<b>15.3</b>	Demonstrate appropriate leadership and management skills
3.3	Make decisions in partnership with the patients, placing the patient's interests the priority, upholding honesty, respect and	<b>10.1</b>	Communicate effectively with patients and their families regardless of their age, gender, social, cultural, religious, or ethnic backgrounds in various situations

	integrity in all interactions with patients, families and colleagues and respecting patient decisions and confidentiality. (SaudiMEDS-10.1, 10.2, 11.2, 13.1, 13.3 )	<b>10.2</b>	Demonstrate the ability to deal with patients in difficult circumstances
		<b>11.2</b>	Make clinical judgments and decisions, in partnership with other colleagues as appropriate for a graduate's level of training and experience
		<b>13.1</b>	Place the patient's interests above one's own
		<b>13.3</b>	Demonstrate respect for patient and physician confidentiality, and awareness of the legal, ethical and medical issues surrounding a patient's documentation
3.4	Demonstrate self-regulation, adherence to medical professionalism, commitment to lifelong learning, time management, responsibility and recognizing ethical and governance issues involved in medical research. (SaudiMEDS- 13.4, 14.2, 15.1, 15.2, 15.4, 16.1)	<b>13.4</b>	Be accountable for one's own limitations and self-evaluation
		<b>14.2</b>	Practice Islamic professionalism and ethical principles of clinical practice
		<b>15.1</b>	Recognize self-roles of being medical professional as practitioner, educator, and scientist
		<b>15.2</b>	Demonstrate a commitment to lifelong learning
		<b>15.4</b>	Demonstrate the ability to manage one's own time and balance between professional and personal responsibilities
		<b>16.1</b>	Demonstrate ethical and governance issues related to medical research
<b>4.0</b>	<b>Communication, Information Technology, Numerical</b>		
4.1	Demonstrate effective counseling skills including the ability to break bad news sensitively and effectively and apply the principles governing ethical decision making to the major ethical dilemmas in medicine. (SaudiMEDS- 6.8, 10.2,10.3. 14.1).	<b>6.8</b>	Demonstrate effective counselling skills
		<b>10.3</b>	Demonstrate the ability to break bad news sensitively and effectively
		<b>14.1</b>	Apply the theories and principles that govern ethical decision making to the major ethical dilemmas in medicine (beneficence, non-maleficence, autonomy, probity, justice).
4.2	Communicate effectively and professionally with their peers and with the patients and their families regardless of their age, gender, social, cultural, religious, or ethnic backgrounds including obtaining an informed consent when applicable. (SaudiMEDS- 10.1, 14.4).	<b>10.1</b>	Communicate effectively with patients and their families regardless of their age, gender, social, cultural, religious, or ethnic backgrounds in various situations
		<b>14.4</b>	Obtain informed consent when applicable
4.3	Perform written communications, including core writing skills (patient records, referrals, medical reports..etc) (SaudiMEDS- 10.4).	<b>10.4</b>	Communicate medical information appropriately, using verbal and writing skills (e.g. patient records, referrals, medical reports).
4.4	Use of technology and other information systems effectively, including storing and retrieving information and use the information appropriately and ethically in relation to patient care and health promotion. (SaudiMEDS- 12.1,12.2)	<b>12.1</b>	Use technology and information systems effectively, including storing and retrieving of information
		<b>12.2</b>	Use the information retrieved from relevant sources appropriately and ethically in relation to patient care and health promotion
<b>5.0</b>	<b>Psychomotor</b>		

5.1	Perform a comprehensive medical interview, history taking, a complete physical examination and essential clinical procedures competently. (SaudiMEDS- 3.1, 3.2, 3.3)	<b>3.1</b>	Obtain an accurate and comprehensive medical history
		<b>3.2</b>	Perform a complete systematic physical examination
		<b>3.3</b>	Perform competently the essential clinical procedures
5.2	Manage appropriately patients with medical emergencies, acute and chronic medical conditions. (SaudiMEDS- 5.2, 6.3)	<b>5.2</b>	Manage common medical emergencies
		<b>6.3</b>	Manage appropriately patients with acute and chronic physical and mental problems
5.3	Use measures of patient safety including safe prescription, safe surgical and procedural interventions, and the applications of the essential principles of infection prevention and control. (SaudiMEDS- 6.5, 7.1, 7.5)	<b>6.5</b>	Demonstrate the skills of writing an appropriate prescription
		<b>7.1</b>	Demonstrate appropriate knowledge and skills in the areas related to patient safety e.g. root-cause analyses, safe prescription and procedures
		<b>7.5</b>	Apply the essential principles of infection prevention and control in health care settings
5.4	Apply the principles & strategies of prevention for societal problems e.g. tobacco, alcohol, road traffic accidents illicit drugs, violence & abuse, and control of communicable and non-communicable diseases (SaudiMEDS- 9.3, 9.7)	<b>9.3</b>	Explain and apply the basic principles of prevention and control of communicable and non-communicable diseases in hospital and the community
		<b>9.7</b>	Identify and plan prevention strategies for societal problems such as metabolic problems, obesity, diabetes, tobacco, road traffic accidents, alcohol, illicit drugs, violence and abuse
5.5	Commit to provide healthcare for members of traditionally underserved populations (rural communities, people with disabilities, minorities and others). (SaudiMEDS-8.3)	<b>8.3</b>	Advocate access to healthcare for members of traditionally underserved populations (rural communities, people with disabilities, elderly, minorities and others)