

# MEDICINE AND ALLIED SPECIALTIES

## SKILLS

	Able to to perform independently	Able perform under guidance	Assist	Observe
<p><b>Clinical Skills</b></p> <ul style="list-style-type: none"> <li>Elicit, interpret and record a detailed appropriate history including social issues and occupational health. ✓</li> <li>Observe the patient, perform, interpret and record relevant and thorough clinical examination including mental status examination, examination of an unconscious patient and internal (per-rectal and per-vaginal) examination. ✓</li> <li>Demonstrate clinical reasoning (Interpret clinical findings) and develop a differential diagnosis ✓</li> <li>Request appropriate investigations keeping in mind their relevance and cost-effectiveness ✓</li> <li>Interpret relevant investigations ✓</li> <li>Diagnose common health problems of the individual and community ✓</li> <li>Plan and institute appropriate management which is need-based and cost-effective, of common illnesses in a given situation depending upon the facilities available. ✓</li> <li>Initiate first line management and plan short-term and long-term management of patient ✓</li> <li>Recognize immediate life threatening conditions and provide immediate medical treatment ✓</li> <li>Provide immediate management of cases of acute severe bronchial asthma, acute pulmonary edema, acute myocardial infarction, seizures and status epilepticus, hyperpyrexia, drowning, anaphylactic shock, acute haemorrhage and refer the patient appropriately ✓</li> <li>Provide emergency management to a comatose patients regarding airway, ✓</li> </ul>				

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<p>positioning, prevention of aspiration and injuries and refer appropriately.</p> <ul style="list-style-type: none"> <li>• Early recognition of complications and appropriate referral</li> <li>• Manage common poisonings prevalent in the region.</li> <li>• Recognize need for transfusion of blood and blood products and transfuse.</li> <li>• Recognize brain death</li> <li>• Interpret abnormal biochemical and pathological abnormalities in common medical conditions.</li> <li>• Interpret x-rays of common clinical conditions , particularly chest x ray including all forms of pulmonary tuberculosis and common limb fractures.</li> <li>• Interpret an ECG and identify common abnormalities like myocardial infarction, arrhythmias like atrial fibrillation, supraventricular tachycardia, ventricular tachycardia etc.</li> <li>• Interpret serological tests such as VDRL, ASLO, Widal, HIV, rheumatoid factor, hepatitis and TORCH infections.</li> <li>• Assess and manage fluid-electrolyte and simple acid-base abnormalities</li> <li>• Interpret blood gas abnormalities</li> <li>• Write rational prescriptions and justify their rationality</li> <li>• Administer post-exposure prophylaxis for HIV</li> </ul> <p><b>Communication and Interpersonal skills</b></p> <ul style="list-style-type: none"> <li>• Demonstrate good interviewing skills : Questioning, listening, and establishing rapport</li> <li>• Demonstrate empathy, caring and humane behavior while communicating with patients and relatives</li> <li>• Provide explanation to patients and relatives facilitating their understanding</li> </ul>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>			

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<p>about the disease and enable them to take part in decision making</p> <ul style="list-style-type: none"> <li>• Demonstrate interpersonal skills in communicating effectively with colleagues, faculty, paramedical staff, community and media</li> <li>• Effectively communicate with patients and colleagues both orally and in writing</li> <li>• Obtain informed consent</li> <li>• Demonstrate sensitivity to psychosocial, cultural and personal factors that improve interactions with patients and community</li> <li>• Demonstrate adequate comfort level in eliciting personal and sexual history from the patient and in discussing end of life issues</li> <li>• Demonstrate skills to effectively communicate a bad news to patient or family, and basic counseling skills.</li> <li>• Demonstrate written communication skills in interaction with patients, co-team members and scientific community</li> <li>• Write a complete case record with meaningful progress notes</li> <li>• Write a proper discharge summary with all relevant details</li> <li>• Write a death form appropriately</li> <li>• Write an appropriate referral note to other physicians or secondary or tertiary health care centres</li> <li>• Assess the need for and issue appropriate medical certificates to patients for various purposes</li> <li>• Make an effective presentation to colleagues, seniors and community</li> </ul> <p><b>Professional Behavior and Ethics</b></p> <ul style="list-style-type: none"> <li>• Recognition of the essential elements of medical profession , including moral and ethical principles (respect for patient autonomy, confidentiality, informed consent and equity) and legal</li> </ul>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>			

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<p>responsibilities underlying the profession</p> <ul style="list-style-type: none"> <li>• Recognition that good medical practice depends on mutual understanding and relationship between the doctor, patient and family with respect for patient's welfare, cultural diversity, beliefs and autonomy</li> <li>• Ability to apply the principles of moral reasoning and decision making to conflicts between ethical and professional values and those arising from financial constraints, scientific advances and commercialization of healthcare</li> <li>• Identify ethical issues in common patient care issues</li> <li>• Awareness of limitations of knowledge and willingness to seek further help when necessary</li> <li>• Acknowledge the need to function effectively within a health care team</li> </ul> <p><b>Procedural Skills</b></p> <ul style="list-style-type: none"> <li>• Perform minor/ basic clinical procedures <ul style="list-style-type: none"> <li>- IM/ IV and SC injections</li> <li>- IV cannulation and starting infusion</li> <li>- Insertion of NG Tube</li> <li>- Urinary catheterization (male and female)</li> <li>- Basic life support</li> <li>- Use of peak flowmeter</li> <li>- Recording of ECG</li> <li>- Ascitic tap</li> </ul> </li> <li>• Knowledge and practice of universal precautions and safe disposal of biomedical waste</li> <li>• Use of simple equipment <ul style="list-style-type: none"> <li>- Administration of oxygen by mask, catheter, prongs</li> <li>- Handling oxygen cylinder</li> <li>- Use of nebulizer / inhalers</li> </ul> </li> </ul>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>			

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<ul style="list-style-type: none"> <li>• Procedures</li> <li>- Pleural aspiration</li> <li>- Bone marrow aspiration</li> <li>- Relieve tension pneumothorax by inserting a needle</li> <li>- Advanced cardiac life support</li> <li>- Liver biopsy</li> <li>- Kidney biopsy</li> <li>- Bone marrow biopsy</li> <li>- Splenic aspirate</li> </ul>		<ul style="list-style-type: none"> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> </ul>		<ul style="list-style-type: none"> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> </ul>
<p><b>Community Orientation and Managerial skills</b></p> <ul style="list-style-type: none"> <li>• Educate individuals and community groups in principles and process of disease prevention and health promotion</li> <li>• Work effectively in interdisciplinary / intersectoral teams</li> <li>• Practice community oriented approach</li> <li>• Demonstrate basic managerial skills</li> </ul>	<ul style="list-style-type: none"> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> </ul>			
<p><b>Information Management, Critical Thinking and Self-Directed Learning</b></p> <ul style="list-style-type: none"> <li>• Use appropriate technology for learning and practice</li> <li>• Search, collect, retrieve and manage information from diverse sources</li> <li>• Evaluate medical and scientific literature critically and apply the knowledge judiciously</li> <li>• Practice evidence based medicine</li> <li>• Analyze critically one's own performance and be a self-directed learner</li> <li>• Comprehend, accept and manage the uncertainties in scientific knowledge and medical practice</li> <li>• Practice ethics in research</li> </ul>	<ul style="list-style-type: none"> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> <li>✓</li> </ul>			

## **Assessment**

**Clinical skills** — OSCE, Case records, viva-voce, structured long case exam

**Communication & interpersonal skills** - OSCE, observation checklist, case records, video recording

**Professional behavior and ethics** - case vignettes, OSCE, patient survey

360° assessment

**Procedural skills** - OSCE, observation in wards,

**Community orientation and managerial skills** - 360° assessment, short essay question

**Information management, critical thinking and self-directed learning (SDL)** - viva-voce, MCQs, 360° assessment, record review