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R AWALPIND MEDICAL MEDICAL UNIVERSITY NEW TEACHING BLOCK

## Second Year MBBS Early Clinical Exposure

Department of Medical Education

Log Book



Dedicated to Hazrat Muhammad (S.A.W)

#### Mission and Vision of RMU



To impart evidence based research oriented medical education



To provide best possible patient care



To incultate the values of mutual respect and ethical practice of medicine



Early Clinical Exposure is a groundbreaking initiative that will revolutionize the way we educate our future healthcare professionals. In embracing this innovative approach, we aim to provide students with invaluable hands-on experience from the very beginning of their medical journey. By immersing in clinical settings early on, students will develop a deeper understanding of patient care, clinical decision-making, and the intricacies of the healthcare system.

This curriculum not only enriches the academic experience but also cultivates essential skills such as communication, empathy, and teamwork—qualities that are integral to becoming competent and compassionate physicians. I encourage both students and faculty to embrace this transformative initiative wholeheartedly. Together, let us embark on this journey towards excellence in medical education and patient care.

**Prof. Dr. Muhammad Umar** Vice Chancellor Rawalpindi Medical University Rawalpindi





The Early Clinical Exposure program is an integral part of the medical curriculum, introducing clinical skills to 1st and 2nd-year MBBS students. By bridging theoretical knowledge with practical application, it fosters communication, professionalism, and patient-centered care while providing an understanding of clinical environments. The accompanying logbook serves as a structured tool to document skill acquisition and monitor student progress, enhancing reflective learning and assessment.

In the 1st year, students focus on acquiring foundational skills such as hand hygiene, basic life support, injection administration, and musculoskeletal, cardiovascular, and respiratory system examinations. These essential skills lay the groundwork for patient safety, aseptic techniques, and clinical assessment, ensuring students are comfortable in healthcare settings and capable of engaging with patients confidently.

The 2nd year builds upon these basics, introducing more advanced skills such as abdominal, neurological, and thyroid examinations, catheterization, and assessments of the renal and dermatological systems. These skills sharpens students' diagnostic abilities and prepares them for advanced clinical training in subsequent years, ensuring they develop into competent, empathetic physicians equipped for high-quality patient care.

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#### Introduction

Early clinical exposure helps students understand the relevance of their preclinical studies by providing real-world contexts. This can enhance motivation and engagement by showing students the practical application of their theoretical knowledge. Early exposure allows students to begin developing essential clinical skills from the start of their education. This includes not only technical skills but also crucial soft skills such as communication, empathy, and professionalism. Direct interaction with patients early in their education helps students appreciate the complexities of patient care, including the psychological and social aspects of illness. Early exposure to various specialties can aid students in making informed decisions about their future career paths within medicine.

Early clinical experiences contribute to the development of a professional identity, helping students see themselves as future physicians and understand the responsibilities and ethics associated with the profession. This can help reduce the anxiety associated with clinical work by familiarizing students with the clinical environment. It can build confidence in their abilities to interact with patients and healthcare professionals. Engaging with real-life clinical situations early on encourages the development of critical thinking and problem-solving skills, which are essential for medical practice. It helps bridge the gap between theoretical knowledge and practical application, leading to a more integrated and holistic approach to medical education. It allows students to observe and understand how healthcare systems operate, including the challenges and limitations faced in different settings.: Early patient interaction emphasizes the importance of patient-centered care from the outset, underscoring the importance of treating patients as individuals with unique needs and backgrounds. Practical experiences can enhance long-term retention of knowledge as students are able to connect theoretical learning with clinical experiences.: Early clinical experiences often involve working in multidisciplinary teams, which fosters a sense of collaboration and understanding of different roles within healthcare.

In summary, early clinical exposure in medical education is pivotal for the holistic development of medical students, providing them with a strong foundation of practical skills, professional attitudes, and a deep understanding of patient-centered care.

#### Vision

- 1. To create a seamless integration of theoretical knowledge and clinical skills, where students can apply classroom lessons in real-world healthcare settings from the start of their education. This approach aims to break down the traditional barriers between preclinical and clinical phases of medical training.
- 2. To shape well-rounded healthcare professionals who are not only clinically competent but also empathetic, ethical, and communicative. It emphasizes the development of soft skills, such as empathy, teamwork, and patient communication, alongside hard clinical skills.
- 3. To foster a culture of innovation and adaptability in future healthcare professionals. As medicine is a rapidly evolving field, students should be prepared to continually update their knowledge and adapt to new technologies and treatments.
- 4. To instill a strong foundation in patient-centered care, where students learn to put the needs and values of patients at the forefront of their clinical decision-making process.
- 5. Encouraging students to develop their professional identity from the outset of their training, helping them to understand and embody the roles, responsibilities, and ethical standards of the medical profession.
- 6. To promote understanding and collaboration among different healthcare disciplines, recognizing that modern healthcare is a team effort requiring coordinated multidisciplinary approaches.
- 7. Encouraging an inclination towards scientific inquiry and research, integrating research skills early in the module to foster a mindset of evidence-based practice.
- 8. To equip students with a global perspective on health, understanding both local and international health challenges, and preparing them for a career in an increasingly interconnected world.

#### Mission

The mission of the early clinical module is to profoundly transform medical education by integrating clinical experiences from the very beginning. This approach aims to enrich the learning process, making it more relevant and engaging by immediately applying theoretical knowledge to real-world clinical settings. It focuses on developing essential clinical skills, fostering empathy, and ensuring patient-centered care.

The module is designed to nurture a strong professional identity and ethical grounding in students, preparing them for the realities of a career in medicine. It encourages adaptability, resilience, and a commitment to lifelong learning in the face of the ever-evolving field of healthcare. By exposing students to a variety of medical specialties and healthcare environments early on, it also aids them in making more informed career choices. Overall, this module seeks to produce well-rounded, competent, and compassionate healthcare professionals ready to meet the challenges of modern medicine.

#### **Aim and Objectives**

- 1. To provide students with the opportunity to start developing essential clinical skills, such as basic patient examination, history taking, and simple procedural skills.
- 2. To bridge the gap between theoretical knowledge and its practical application. This helps students understand how their preclinical learning is relevant to clinical settings.
- 3. To instill a sense of professionalism and an understanding of medical ethics from the very beginning of medical training. This includes aspects such as patient confidentiality, empathy, and communication skills.
- 4. To emphasize the importance of patient-centered care, helping students understand the patient's perspective, and the impact of illness on patients and their families.
- 5. To introduce students to the workings of the healthcare system, including the roles of various healthcare professionals and the challenges faced in delivering effective care.
- 6. To encourage students to engage in reflective practice and self-assessment, fostering a habit of lifelong learning and continuous improvement in their professional skills.
- 7. To expose students to the multidisciplinary nature of healthcare, teaching them the value of teamwork and collaboration with other healthcare professionals.
- To provide exposure to a range of clinical environments, such as hospitals, primary care clinics, and community health centers, to give students a broader understanding of different aspects of healthcare.
- 9. To allow students to explore various medical specialties early in their education, aiding in informed career decision-making later on.
- 10. To help students build confidence in their clinical abilities and reduce the anxiety associated with transitioning from theoretical learning to clinical practice.
- 11. To cultivate empathy and compassion towards patients, which are key components of effective patient care.
- 12. To encourage the development of critical thinking and problem-solving skills essential for clinical practice.

#### Outcomes

 Early clinical experiences can help students understand the clinical relevance of the basic sciences they are studying. This integration of theoretical knowledge with practical application can deepen their understanding and retention of key concepts.

- 2. Engaging with patients and healthcare professionals early in their training helps students develop effective communication skills, which are crucial for patient care and interprofessional collaboration.
- 3. Students get an opportunity to start developing essential clinical skills, such as history taking, physical examination, and clinical reasoning, from the beginning of their medical education.
- Early clinical exposure can increase students' motivation and interest in their studies by providing a clear context for the relevance of their coursework to their future roles as doctors.
- 5. Interacting with patients and healthcare teams early in their training can aid students in forming their professional identity and understanding the roles and responsibilities of being a physician.
- 6. Exposure to real-world clinical scenarios can help students develop critical thinking and decision-making skills.
- 7. Students begin to encounter and learn to manage the emotional and ethical challenges inherent in medical practice earlier, which can prepare them for the realities of their profession.
- 8. Exposure to various medical specialties and settings can aid students in making informed decisions about their future career paths.
- 9. Long-term, students trained with early clinical exposure may develop into more competent and empathetic physicians, potentially leading to better patient outcomes.
- 10. Engaging in clinical settings early can spark an interest in clinical research, leading to contributions in medical science.

#### **Guidelines for Using the Clinical Skills Logbook**

This logbook serves as a vital tool for students to document their progress in learning core clinical skills during their Early Clinical Exposure (ECE) rotations. Each skill included in the logbook is linked to an Entrustable Professional Activity (EPA), representing a key clinical task that students must demonstrate competently.

Each skill is assessed according to Miller's Pyramid, a widely used framework for evaluating clinical competence. Miller's Pyramid has four progressive levels:

- Knows: The student understands the theoretical knowledge related to the skill.
- Knows How: The student can explain how the skill should be performed.
- Shows: The student demonstrates the skill in a simulated or clinical setting.
- **Does**: The student performs the skill independently and effectively in real-life scenarios.



Students are expected to actively engage with their assigned skills during clinical rotations. For each skill, the logbook outlines specific steps to be performed, ensuring a structured and standardized approach to learning. The clinical facilitator plays a critical role in this process, teaching the skill, assessing the student's performance, and providing constructive feedback.

After the assessment, the facilitator will record the student's level of achievement by marking the relevant category: "Not Done," "Done," or "Well Done." Detailed comments from the facilitator can further guide the student in refining their techniques. Students should proactively seek feedback, clarify doubts, and practice under supervision to build their confidence and competence in core skills.

To ensure thorough documentation, students must obtain their facilitator's signature for each skill after it is completed. The facilitator's responsibilities extend beyond assessment; they include coaching students on the correct techniques, addressing errors, and ensuring understanding through active questioning and demonstration. This logbook needs to be certified by Department of Medical Education at the end of each block.

Students are encouraged to regularly review their progress in the logbook, use it as a reflection tool, and identify areas for improvement. By adhering to this process, the logbook not only serves as a record of competency but also reinforces a culture of self-directed learning and accountability in clinical practice.

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# Clinical Skills Block 4

## **GIT Module**

Skill-1: Perform Abdominal Examination

Skill-2: Interpret an Abdominal X-Ray

Skill-3: Interpret CT Scan Abdomen

Skill-4: Managing Dehydration

Skill-5: Surface Marking of Abdominal viscera

## **Renal Module**

Skill-6: Surface Marking of Kidney & Urinary Bladder. Skill-7: Identify A Urinary Catheter and Explain Its Usage Skill-8: Interpret CT Scan Pelvis for Kidney and Urinary Bladder.

Skill-9: Urine Sample Testing & Interpretation

## **Certificate of Completion**

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#### GIT Module Skills Skill-1: Perform Abdominal Examination

Entrustable Professional Activity: Demonstrate steps of abdominal examination. Miller's Level: Shows

Task		Assessment		
	Not	Done	Well	
	Done		Done	
Before starting				
• Introduce yourself to the patient.				
• Ask the patient for permission to examine his abdomen.				
• Say to the examiner that you would normally expose the				
patient from nipples to knees, but that in this case you are				
going to limit yourself to exposing the patient to the groins.				
• Position the patient so that he is lying flat on the couch. with				
his arms at his side and his head supported by a pillow.				
• Ensure that the patient is comfortable.				
General inspection				
• From the end of the couch, observe the patient's general				
appearance (age, state of health, nutritional status, and any				
other obvious signs).				
• Inspect the abdomen. Look for any obvious distension,				
localised masses, scars, and skin changes.				
• Ask the patient to lift his head to the abdominal muscles.				
Palpation of the abdomen				
• Ask the patient if he has any abdominal pain and fix upon his				
face as you palpate his abdomen. Palpate with the palmar				
surface of your fingers whilst sitting or kneeling beside the				
patient.				
• Light palpation - Begin by examining the segment furthest				
away from any pain or discomfort and systematically palpate				
the four quadrants and the umbilical area. look for tenderness,				
guarding, and any masses.				
• Deep palpation - For greater precision. Describe and localise				
any masses.				
Palpation of the organs				
• Liver - Ask the patient to breathe in and out and, starting in the				
right lower quadrant, feel for the liver edge using the flat of				
your hand or the tips of your fingers. The liver edge. if felt, can				
be described in terms of regularity, nodularity and tenderness.				
• Gallbladder- Palpate for tenderness over the gallbladder region				
that is at the tip of the right ninth rib.				
• Spleen - Palpate for the spleen as for the liver, again starting in				
the right lower quadrant.	1			

	1	
• Kidneys - Position the patient close to the edge of the bed and		
ballot each kidney using the technique of deep bimanual		
palpation.		
• Aorta - Palpate the descending aorta between the thumb and		
the index of your right hand at a point midway between the		
xiphisternum and the umbilicus.		
Percussion		
• Percuss the liver area, also remembering to detect its upper		
border (usually found in the fourth intercostal space).		
• Percuss the suprapubic area for undue dullness (bladder		
distension).		
• If the abdomen appears distended, test for shifting dullness		
(ascites). Shifting dullness can be tested for by percussing		
down the right side of the abdomen. If on area of dullness is		
detected, keep two fingers on it and ask the patient to roll over		
to his left. Re-percuss the area which should now sound		
tympanic.		
Auscultation		
• Auscultate in the mid abdomen for abdominal sounds. listen		
for 30 seconds before concluding that they are normal,		
hyperactive, hypoactive. or absent.		
• Listen over the abdominal aorta for aortic bruits suggestive of		
arteriosclerosis or an aneurysm.		
• Listen for renal artery bruits 2.5 cm above and lateral to the		
umbilicus - a bruit suggests renal artery stenosis		
After the examination		
• Cover the patient up.		
• Thank the patient.		
• Ask the patient if he has any questions or concerns.		
• State that you would test the urine and order some key		
investigations, e.g. ultrasound scan. CBC. LFTs. U&Es. and		
clotting screen.		
• Summarise your findings and offer a differential diagnosis		
Level of Satisfaction		
	1	

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

Skill-2: Interpret an Abdominal X-Ray Entrustable Professional Activity: Interpret a normal abdominal X-ray Miller's Level: Shows

	Task		Assessme	nt
		Not Done	Done	Well Done
The X-r	ay			
•	Name. age, and sex of the patient.			
•	Date of the X-ray.			
•	Confirm size of area covered.			
•	PA or AP (They are usually PA.)			
•	Supine (usual), erect, or lateral decubitus (Look at gastric air bubble and			
	fluid			
•	levels.)			
•	Penetration (lumbar vertebrae should be visible)			
Interve	ntions or artefacts			
•	Make a note of any clearly visible interventions or artefacts			
Skeletor	n			
Inspect t	the:			
•	Lower rib cage., Lumbar vertebrae, Sacrum and sacroiliac joints ,Pelvis, Hip joints and femora.			
Organs				
Inspect t	the:			
•	Liver, Spleen: usually not visualised, Kidneys: about three vertebrae in size,			
	the left kidney is higher than the right, Bladder: not visualised if empty,			
~ ~	Prostate: only visualised if calcified. Stomach, Small bowel, Large bowel.			
Gas, flu	id levels, and faecal matter			
•	Gas: depending on its amount and distribution, intraluminal gas may be			
	normal but intramural or extraluminal gas should be considered abnormal.			
	The small intestine should not be greater than 3 cm in diameter, the colon 5			
	cm in diameter, and the caecum 9 cm in diameter.			
•	Look for gas under the diaphragm (pneumoperitoneum), even though this is			
	El ille les fille lie de transler les angles de les			
•	Fluid levels: a fluid level in the solon should be considered shortmal fluid, but			
	Easaal matter: the amount and distribution of faceal matter can be revealing			
•	of underlying pathology			
Abnorn	al calcification			
	Calculi (kidneys ureters bladder gall bladder and biliary tree)			
	Pancreas			
	Kidnevs			
	Abdominal aorta and arteries			
	Costal cartilages, although note that calcification of the costal cartilages is a			
	benign finding in the older age population			
•	Summarise your findings			
	Level of Satisfaction			
L		1		

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

Skill-3: Interpret CT Scan Abdomen Entrustable Professional Activity: Identify abdominal organs on a CT scan. Miller's Level: Knows How

Task	1	Assessme	nt
	Not	Done	Well
	Done		Done
Patient and Imaging Details			
<ul> <li>Patient Information: Name, age, sex, and clinical history.</li> </ul>			
• Date and Time: Confirm the date and time the CT scan was performed.			
• Scan Type: Verify the type of CT (contrast or non-contrast).			
• Slices: Confirm axial, coronal, sagittal, and 3D reconstructed views.			
Region Covered: Ensure complete visualization of the abdomen and adjacent			
regions as needed.			
Liver and Gallbladder			
• Liver: Right upper quadrant, with visible hepatic lobes and segments.			
• Gallbladder: Adjacent to the liver, evaluate its size and position.			
Spleen			
• Location: Left upper quadrant, homogenous in density, crescent-shaped.			
Pancreas			
• Location: Retroperitoneal structure across the epigastrium, slightly anterior to the			
splenic vein.			
Kidneys and Ureters			
• Kidneys: Bean-shaped structures on either side of the spine, retroperitoneal.			
• Ureters: May be faintly visible, traveling from kidneys to the bladder.			
Stomach and Intestines			
• Stomach: Left upper quadrant, identifiable by rugal folds when distended.			
• Small Intestine: Centrally located loops with thinner walls.			
• Large Intestine: Peripheral location, identifiable by haustra.			
Vascular Structures			
Abdominal Aorta: Midline anterior to the vertebral bodies.			
• Inferior Vena Cava (IVC): Right of the aorta.			
• Portal Vein: Posterior to the pancreas.			
Adrenal Glands			
• Location: Superior and medial to the kidneys, triangular in shape			
Musculoskeletal Structures			
• Spine: Vertebral bodies visible in the midline.			
• Ribs, Pelvis, and Hip Joints: Surrounding the abdominal cavity.			
Peritoneum and Retroperitoneum			
• Peritoneal Cavity: Look for normal absence of free air or fluid.			
• Retroperitoneum: Containing kidneys, adrenal glands, and portions of the aorta			
and IVC.			
Lympi roues			
Inormal-sized nodes are typically less than 1 cm and not prominent.			
Level of Satisfaction			

Facilitator Name:	 
Designation:	 
Unit, Department, Hospital:	 
Date and Sign:	 
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Skill-4: Managing Dehydration Entrustable Professional Activity: Assess dehydration in an infant/young child and explain the procedure for making homemade ORS. Miller's Level: Shows

Task	Α	ssessme	nt
	Not	Done	Well
	Done		Done
Patient Preparation and Settings			
• Ensure the caregiver is present and understands the assessment			
process.			
• Maintain a calm and reassuring environment for the child to			
reduce stress.			
• Gather required equipment: a weighing scale, thermometer, and			
a source of clean water for ORS preparation.			
General Inspection			
• Appearance: Observe the child's alertness, activity level, and			
interaction with the environment. A lethargic or irritable child			
may indicate dehydration.			
• Eyes: Sunken eyes are a classic sign of dehydration.			
• Tears: Absence of tears while crying may suggest significant			
fluid loss.			
<ul> <li>Mouth and Tongue: Assess for dryness or stickiness.</li> </ul>			
Vital Signs			
Heart Rate: Increased heart rate (tachycardia) can indicate			
dehydration.			
• Respiratory Rate: Look for rapid or shallow breathing, often a			
sign of severe dehydration.			
• Capillary Refill Time: Prolonged refill time (>2 seconds)			
indicates poor perfusion and dehydration.			
Skin and Turgor			
• Skin Elasticity: Pinch the skin on the abdomen or thigh and			
observe how quickly it returns to its normal position. Slow			
return (>2 seconds) suggests dehydration.			
• Dryness: Assess the dryness of the skin, particularly in the			
extremities.			
Urine Output and Diapers			
• Urination Frequency: Reduced or absent urination is a critical			
indicator.			
• Diaper Weight: Fewer wet diapers than usual suggests fluid			
deficit.			
Weight Measurement			
• Measure and compare the child's weight with recent records to			
estimate the fluid loss percentage. A weight loss of:			
<ul> <li>Mild Dehydration: 3-5%</li> </ul>			
<ul> <li>Moderate Dehydration: 6-9%</li> </ul>			
$\circ$ Severe Dehydration: ≥10%			
Hydration Status Classification			

• Mild Dehydration: Normal behavior, slightly dry mouth,	
normal eyes, tears present.	
• Moderate Dehydration: Irritability, dry mouth, sunken eyes,	
reduced tears, prolonged capillary refill.	
• Severe Dehydration: Lethargy, no tears, deeply sunken eyes,	
prolonged skin turgor return, cold extremities	
Homemade ORS	
Ingredients:	
• 1 liter of clean drinking water.	
<ul> <li>6 level teaspoons of sugar.</li> </ul>	
$\circ$ <sup>1</sup> / <sub>2</sub> level teaspoon of salt.	
Equipment:	
• Clean container or bottle.	
• Measuring spoons.	
Procedure	
• Prepare Water: Boil or use clean drinking water to	
ensure safety. Let it cool.	
• Mix Ingredients:	
• Add 6 level teaspoons of sugar to the water.	
$\circ$ Add $\frac{1}{2}$ level teaspoon of salt.	
• Stir Thoroughly: Ensure all the sugar and salt dissolve	
completely.	
• Check Taste: The solution should taste mildly salty,	
similar to tears. Adjust if necessary.	
Level of Satisfaction	

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

Skill-5: Surface Marking of Abdominal viscera Entrustable Professional Activity: Mark abdominal viscera on the surface. Miller's Level: Shows

Task		Assessment		
	Not	Done	Well	
Detient Desitioning and Landmarks	Done		Done	
Position: Engure the petient is in the sumine position for				
• Position. Ensure the patient is in the supine position for marking				
• Reference Planes: Identify the following anatomical planes:				
• Midline (Linea Alba)				
$\circ$ Transpyloric Plane (L1 vertebral level).				
$\circ$ Subcostal Plane (below the costal margin).				
$\circ$ Intertubercular Plane (L5 level, between iliac tubercles)				
<ul> <li>Midclavicular Lines.</li> </ul>				
Surface Markings of Viscera				
Liver				
• Superior Border: Right 5th rib in the midclavicular line to the xiphoid process and across to the left 5th rib.				
• Inferior Border: Right costal margin to the midline at the transpyloric plane.				
Gallbladder				
• Location: Tip of the right 9th costal cartilage (midclavicular line).				
Stomach				
• Cardia: Left of the midline, 2.5 cm below the xiphisternum.				
• Pylorus: 2.5 cm to the right of the midline at the transpyloric plane.				
• Greater Curvature: Extending from the left 5th intercostal space				
(near the midclavicular line) to the transpyloric plane.				
Spleen				
• Location: Posteriorly between the 9th and 11th ribs on the left side, behind the midaxillary line.				
Pancreas				
• Head: Right of the midline, just below the transpyloric plane.				
• Body and Tail: Crosses the midline to the left, extending towards the spleen.				
Kidnevs				
• Right Kidney: Hilum at the level of L1, superior pole near the 12th rib.				
• Left Kidney: Hilum at the level of L1. superior pole slightly				
higher than the right.				
Small Intestine				
• Duodenum: C-shaped curve in the epigastrium around the head				
of the pancreas.				
• Jejunum and Ileum: Centrally located within the abdomen.				

Large Intestine	
Caecum: Right iliac fossa.	
• Ascending Colon: Extends vertically along the right side of the abdomen.	
Transverse Colon: Passes horizontally across the umbilical region.	
• Descending Colon: Extends vertically along the left side of the abdomen.	
• Sigmoid Colon: In the left iliac fossa.	
Bladder	
• Empty Bladder: Located within the pelvis, just above the pubic symphysis.	
• Full Bladder: Rises into the suprapubic region.	
Summary of Surface Markings	
Confirm accurate localization of abdominal viscera using	
anatomical landmarks.	
• Note any discrepancies or challenges in identifying the viscera.	
Level of Satisfaction	

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

# **Renal Module Skills**

Skill-6: Surface Marking of Kidney & Urinary Bladder. Entrustable Professional Activity: Palpate & surface mark of kidney & urinary bladder. Miller's Level: Shows

Task		Assessment		
	Not	Done	Well	
	Done		Done	
<ul> <li>Patient Position: The patient should be in the supine position for surface marking, with the abdomen exposed for proper visualization of landmarks. </li> <li>Key Anatomical Landmarks: <ol> <li>Midline: Drawn along the vertebral column to guide lateral measurements.</li> <li>Costal Margin: Used to identify the upper extent of the kidneys.</li> <li>Iliac Crest: Helps locate the inferior extent of the kidneys.</li> <li>Pubic Symphysis: Guides surface marking of the bladder.</li> </ol> </li> </ul>				
Kidney Right Kidney				
<ul> <li>Extent: The right kidney extends from the lower border of the 11th thoracic vertebra (T11) to the upper border of the 3rd lumbar vertebra (L3).</li> <li>Superior Pole: Located at the level of the 11th rib, slightly below the left kidney.</li> <li>Inferior Pole: Located approximately 3 cm above the iliac crest at the L3 level.</li> <li>Hilum: Found at the level of the 1st lumbar vertebra (L1), 2.5 cm lateral to the midline.</li> </ul>				
<ul> <li>Extent: The left kidney extends from the upper border of the 11th thoracic vertebra (T11) to the 2nd lumbar vertebra (L2).</li> <li>Superior Pole: Located at the level of the 11th rib and slightly higher than the right kidney.</li> <li>Inferior Pole: Located approximately 3 cm above the iliac crest at the L2–L3 level.</li> <li>Hilum: Found at the level of the 1st lumbar vertebra (L1), 2.5 cm lateral to the midline.</li> <li>Surface Marking Steps for Kidneys <ol> <li>Superior Point: 2.5 cm lateral to the spinous process of T11.</li> <li>Inferior Point: 2.5 cm lateral to the spinous process of L3.</li> </ol> </li> </ul>				

Urinary Bladder	
Empty Bladder	
• Located entirely within the pelvic cavity.	
• Superior Border: Corresponds to the upper border of th	ie die die die die die die die die die d
pubic symphysis.	
Full Bladder	
• Extends upwards into the hypogastric region, reaching	the
level of the umbilicus in extreme distension.	
• Apex: Lies behind the pubic symphysis.	
• Base (Trigone): Oriented posteriorly, in contact with th	ne
rectum in males or the vagina in females.	
• Neck: Positioned at the pelvic floor, leading into the	
urethra.	
Surface Marking Steps for Bladder	
1. Empty Bladder: Mark just above the pubic symphysis.	
2. Full Bladder: Mark a dome-shaped structure in the	
suprapubic region, potentially rising to the umbilicus	
during extreme distension.	
Level of Satisfac	ction

Skill-7: Identify A Urinary Catheter and Explain Its Usage Entrustable Professional Activity: Identify a urinary catheter and explain its use. Miller's Level: Knows How

	Task	A	ssessmen	t
		Not	Done	Well
		Done		Done
Types	of Uringry Cathotors			
1	Foley Catheter (Indwelling Catheter).			
1.	- Features a balloon at the tin to hold it in place within the			
	bladder.			
	• Connected to a drainage bag for continuous urine			
	collection.			
	• Common sizes: <b>10–22 French</b> ( <b>Fr</b> ) for adults.			
2.	Intermittent Catheter (In-and-Out Catheter):			
	• Used for one-time drainage of the bladder.			
	• Does not have a balloon and is not left in place.			
3.	Suprapubic Catheter:			
	<ul> <li>Inserted directly into the bladder through the abdominal wall.</li> </ul>			
	• Used when the urethral route is not feasible.			
4.	Condom Catheter (External Catheter):			
	• A sheath placed over the penis, connected to a drainage			
	bag.			
	• Non-invasive and used for males with incontinence.			
5.	Three-Way Catheter:			
	• Includes an extra lumen for continuous bladder			
	irrigation or medication delivery.			
	• Used postoperatively for procedures such as			
	transurethral resection of the prostate (TURP).			
Indica	tions			
1.	Retention:			
	• Acute urinary retention.			
	• Chronic urinary retention not responsive to other			
	treatments.			
2.	Monitoring Urine Output:			
	• Critical care settings.			
	<ul> <li>During or after major surgeries.</li> </ul>			
3.	Incontinence:			
	• For patients with severe incontinence unmanageable by			
1	Summing // Due on during Lines			
4.	Surgical/Procedural Use:			
	<ul> <li>ro ensure an empty bladder during abdominal or pelvic surgeries.</li> </ul>			
5.	Irrigation and Drainage:			
	• Post-surgical blood clot evacuation from the bladder.			

1.	Preparation:	
	• Ensure sterile equipment: catheter, lubricant, antiseptic	
	solution, gloves.	
	• Position the patient supine with the perineum exposed.	
2.	Aseptic Technique:	
	• Clean the perineal area.	
	• Apply lubricant to the catheter tip.	
3.	Insertion:	
	• Insert gently through the urethra into the bladder until urine begins to flow.	
	<ul> <li>Inflate the balloon (if using a Foley catheter) with sterile water to secure it.</li> </ul>	
4.	Drainage Bag:	
	• Connect the catheter to a drainage bag, ensuring it is below the level of the bladder to prevent backflow.	
Care a	and Maintenance	
٠	Ensure proper hygiene around the catheter insertion site.	
•	Keep the drainage bag below bladder level to avoid backflow and infection.	
٠	Replace long-term catheters according to clinical guidelines to prevent infections.	
	Level of Satisfaction	
omme	nts:	 

Skill-8: Interpret CT Scan Pelvis for Kidney And Urinary Bladder. Entrustable Professional Activity: Identify kidney and urinary bladder on CT Scan abdomen Miller's Level: Knows How

	Task		Assessment		
		Not Done We		Well	
		Done		Done	
Dation	t Propagation and CT Sottings				
1	Preparation: Ensure the patient has adequate hydration				
1.	Contrast medium may be administered for better				
	visualization of soft tissues.				
2.	CT Phases:				
	• Non-contrast Phase: To detect calcifications,				
	stones, or fat-containing lesions.				
	• Corticomedullary Phase (30–70 seconds): For				
	vascular anatomy.				
	• Nephrographic Phase (80–120 seconds): To				
	evaluate the renal parenchyma.				
	<ul> <li>Excretory Phase (3–5 minutes): To assess</li> </ul>				
	urinary tract excretion and bladder filling.				
Kidne	vs				
1.	Location:				
	• Right Kidney: Found between T12 and L3				
	vertebral levels.				
	• Lower than the left kidney due to the				
	liver.				
	• Left Kidney: Found slightly higher, between				
	T11 and L2 vertebral levels.				
2.	Shape and Appearance:				
	• Reniform (bean-shaped) structure.				
	• Smooth outer contour with a central hilum				
	containing renal vessels, ureter, and lymphatics.				
3.	Cortex and Medulla:				
	• On a contrast-enhanced CT, the cortex appears				
	brighter than the medulla during the				
	corticomedullary phase.				
4.	Renal Pelvis and Ureters:				
	• Visible as a central, hypodense (dark) area in the	•			
	kidney hilum.				
	• Ensure no dilation (suggestive of				
	hydronephrosis) or filling defects (indicative of				
_	stones or clots).				
5.	Landmarks to Identify the Kidneys:				
	• Retroperitoneal position, lateral to the vertebral				
	column.				

	• Right kidney is posterior to the liver, and left	
	kidney is posterior to the spleen.	
Urina	ry Bladder	
1.	Location:	
	• Found in the pelvic region, anterior to the	
	rectum in males and the uterus/vagina in	
	females.	
	<ul> <li>Posterior to the pubic symphysis.</li> </ul>	
2.	Shape and Appearance:	
	• When full: Ovoid or round shape with thin	
	walls.	
	• When empty: Irregular and thickened walls.	
3.	Contents:	
	<ul> <li>Normally hypodense (dark) due to urine.</li> </ul>	
	• Hyperdense areas may indicate stones, blood	
	clots, or contrast material.	
4.	Bladder Wall:	
	<ul> <li>Uniform thickness: &lt;5 mm when distended;</li> </ul>	
	thickened walls may indicate inflammation or	
	malignancy.	
5.	Landmarks to Identify the Bladder:	
	• Central location in the pelvis.	
	• Lies inferior to the peritoneal reflection and	
	posterior to the pubic bone.	
	Level of Satisfaction	

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

Skill-9: Urine Sample Testing & Interpretation Entrustable Professional Activity: Test a urine sample using a dipstick Miller's Level: Knows How

Task	Assessment		nt
	Not	Done	Well
	Done		Done
Before starting			
• Introduce yourself to the patient.			
• Take a very brief history from him.			
• Explain that you are going to lest his urine and explain why.			
• Ensure that the urine specimen is fresh and that it has been			
appropriately collected.			
The equipment			
• Urine dipstick and urine dipstick bottle.			
• A pair of gloves.			
• o A pen and paper (or the patient's case notes).			
The procedure			
• Put on the gloves.			
• Check that the urine is a mid-stream sample.			
• Inspect the colour and appearance of the urine.			
• Stir the urine bottle 10 ensure that the urine is mixed.			
• Check the expiry date on the urine dipstick jar.			
• Briefly immerse the urine dipstick into the urine specimen.			
• Tap off any excess urine from the dipstick.			
• Hold the strip horizontally.			
• Read each colour pad at the designated time printed on the			
dipstick bottle colour chart.			
• Report and record the results.			
• Discard the used urine dipstick and the gloves.			
Wash your hands			
After testing the urine			
• Explain the results to the patient.			
• Document the results in the patient's notes.			
• If abnormal, suggest obtaining a second sample of urine or			
sending the urine for laboratory analysis.			
Thank the patient.			
Level of Satisfaction			

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

# **Block 5**

## **Reproduction Module**

Skill-10: Examine A Pregnant Woman

## **CNS Module**

Skill-11: Examination of Gait & Coordination
Skill-12: Examination of Cranial Nerves
Skill-13: Examination Motor and Sensory Systems of
Upper Limb
Skill-14: Examination of Sensory and Motor system in
the Lower Limb
Skill-15: Interpretation of Normal CT brain
Skill-15: Assessment of Glasgow Coma Scale

## **Certificate of Completion**

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# Reproduction Module Skills Skill-10: Examine A Pregnant Woman Entrustable Professional Activity: Examine a pregnant woman

## Miller's Level: Shows

	Task	Assessment		
		Not	Done	Well
		Done		Done
Before	examining the patient			
•	Introduce yourself to the patient.			
•	Explain the examination and ensure consent			
•	Indicate that you would weigh the patient, take her blood pressure			
	(preeclampsia), dipstick her urine (pre-eclampsia. gestational diabetes) and ask her to empty her bladder.			
•	Position the patient so that she is lying supine (she can sit up if she finds			
	lying supine uncomfortable).			
•	Ask her to expose her abdomen.			
•	Ensure that she is comfortable.			
Genera	al inspection & Inspection of the abdomen			
•	Carry out a general inspection from the end of the couch			
•	Abdominal distension and symmetry.			
•	Linea nigra.			
•	Striae gravidarum.			
•	Scars.			
Palpat	ion of the abdomen			
Facing	the mother. determine the:			
•	Size of the uterus.			
•	liquor volume (normal, polyhydramnios, oligohydramnios).			
•	Number of foetuses.			
•	Size of the foetus(es).			
•	lie.			
Symph	yseal-fundal height (SFH)			
•	Using a tape measure, measure from the mid-point of the symphysis			
	publis to the top of the uterus. from 20 to 38 weeks of gestation, the SFH			
Aucou	In continuences approximates to the number of weeks of gestation $\pm 2$ .			
Auscu	Liston to the footal beart by placing a Dinard stathescope over the footus'			
•	anterior shoulder and estimate the heart rate (usually 110-160 hpm)			
	Ensure that your hands are			
	free from the abdomen.			
After t	he examination			
•	Cover the patient up.			
•	Thank the patient.			
•	Summarise your findings.			
	Level of Satisfaction		L	1
L				

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

#### CNS Module Skills Skill-11: Examination of Gait & Coordination

**Entrustable Professional Activity:** Examine Gait & Coordination. **Miller's Level:** Shows

Not DoneDoneWell DoneWash handsIntroduction•Introduce self•Confirm identity•Explain purpose of exam and gain consent•Position: standingGeneral inspection•Limb and body posture, resting tremorGait•Instability, ataxia, wide-based/narrow-based•Arm swing•Walk heel to toe: unable to with a midline cerebellar lesion•Walk no toes (L4/5) and heels (S1)Romberg's testCerebellar signs (sitting)•Upper limb tone, rebound of outstretched arms, hyporeflexia•Dysdiadochokinesis•Nose to finger coordination•Intention/rest/postural tremor•Nystagmus (fast phase towards side of lesion; away in VIII lesion)•Dysarthria/slurred speechLower limb (supine)•Tone•Heel to shin co-ordination•Heel to shin co-ordination•Heel to shin co-ordination•Heel to redress•Intention/rest/postural tremor•Heel to shin co-ordination•Heel to shin co-ordination•Heel to shin co-ordination•Heel to shin co-ordination•Heel to shin co-ordination <th>Task</th> <th colspan="2">Assessment</th> <th>t</th>	Task	Assessment		t
Wash hands		Not Done	Done	Well Done
Introduction       Introduce self         • Introduce self       Confirm identity         • Explain purpose of exam and gain consent       Position: standing         General inspection       Image: Confirm identity, and the position is the positis the positis position is the positis position is the p	Wash hands			
<ul> <li>Introduce self</li> <li>Confirm identity</li> <li>Explain purpose of exam and gain consent</li> <li>Position: standing</li> <li>General inspection</li> <li>Limb and body posture, resting tremor</li> <li>Gait</li> <li>Instability, ataxia, wide-based/narrow-based</li> <li>Arm swing</li> <li>Walk heel to toe: unable to with a midline cerebellar lesion</li> <li>Walk on toes (L4/5) and heels (S1)</li> <li>Romberg's test</li> <li>Cerebellar signs (sitting)</li> <li>Upper limb tone, rebound of outstretched arms, hyporeflexia</li> <li>Dysdiadochokinesis</li> <li>Nose to finger coordination</li> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> <li>Lower limb (supine)</li> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Level of Satisfaction</li> </ul>	Introduction			
Confirm identity     Explain purpose of exam and gain consent     Position: standing General inspection     Limb and body posture, resting tremor Gait     Instability, ataxia, wide-based/narrow-based     Arm swing     Walk heel to toe: unable to with a midline cerebellar lesion     Walk on toes (L4/5) and heels (S1) Romberg's test Cerebellar signs (sitting)     Upper limb tone, rebound of outstretched arms,     hyporeflexia     Dysdiadochokinesis     Nose to finger coordination     Intention/rest/postural tremor     Nystagmus (fast phase towards side of lesion; away in VIII     lesion)     Dysarthria/slurred speech Lower limb (supine)     Tone     Heel to shin co-ordination     Reflexes Thank patient and offer to redress Level of Satisfaction	• Introduce self			
<ul> <li>Explain purpose of exam and gain consent</li> <li>Position: standing</li> <li>General inspection         <ul> <li>Limb and body posture, resting tremor</li> <li>Gait</li> <li>Instability, ataxia, wide-based/narrow-based</li> <li>Arm swing</li> <li>Walk heel to toe: unable to with a midline cerebellar lesion</li> <li>Walk no toes (L4/5) and heels (S1)</li> </ul> </li> <li>Romberg's test</li> <li>Cerebellar signs (sitting)         <ul> <li>Upper limb tone, rebound of outstretched arms, hyporeflexia</li> <li>Dysdiadochokinesis</li> <li>Nose to finger coordination</li> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> </ul> <li>Lower limb (supine)         <ul> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Level of Satisfaction</li> </ul> </li> </li></ul>	Confirm identity			
Position: standing     General inspection     Limb and body posture, resting tremor     Gait         Instability, ataxia, wide-based/narrow-based         Arm swing         Walk heel to toe: unable to with a midline cerebellar lesion         Walk on toes (L4/5) and heels (S1)     Romberg's test     Cerebellar signs (sitting)         Upper limb tone, rebound of outstretched arms,         hyporeflexia         Dysdiadochokinesis         Nose to finger coordination         Intention/rest/postural tremor         Nystagmus (fast phase towards side of lesion; away in VIII         lesion)         Dysarthria/slurred speech     Lower limb (supine)         Tone         Heel to shin co-ordination         Reflexes         Thank patient and offer to redress         Level of Satisfaction	• Explain purpose of exam and gain consent			
General inspection       Image: state inspection         • Limb and body posture, resting tremor       Image: state inspection         Gait       Image: state inspection         • Instability, ataxia, wide-based/narrow-based       Image: state inspection         • Arm swing       Image: state inspection         • Walk heel to toe: unable to with a midline cerebellar lesion       Image: state inspection         • Walk on toes (L4/5) and heels (S1)       Image: state inspection         Romberg's test       Image: state inspection         Cerebellar signs (sitting)       Image: state inspection         • Upper limb tone, rebound of outstretched arms, hyporeflexia       Image: state inspection         • Dysdiadochokinesis       Image: state inspection         • Nose to finger coordination       Image: state inspection         • Nystagmus (fast phase towards side of lesion; away in VIII lesion)       Image: state inspection         • Dysarthria/slurred speech       Image: state inspection         Lower limb (supine)       Image: state inspection         • Tone       Image: state inspection         • Heel to shin co-ordination       Image: state inspection         • Heel to shin co-ordination       Image: state inspection         • Thank patient and offer to redress       Image: state inspection	Position: standing			
• Limb and body posture, resting tremor         Gait         • Instability, ataxia, wide-based/narrow-based         • Arm swing         • Walk heel to toe: unable to with a midline cerebellar lesion         • Walk on toes (L4/5) and heels (S1)         Romberg's test         Cerebellar signs (sitting)         • Upper limb tone, rebound of outstretched arms, hyporeflexia         • Dysdiadochokinesis         • Nose to finger coordination         • Intention/rest/postural tremor         • Nystagmus (fast phase towards side of lesion; away in VIII lesion)         • Dysarthria/slurred speech         Lower limb (supine)         • Tone         • Heel to shin co-ordination         • Reflexes         Thank patient and offer to redress	General inspection			
Gait       Instability, ataxia, wide-based/narrow-based         • Arm swing       Walk heel to toe: unable to with a midline cerebellar lesion         • Walk on toes (L4/5) and heels (S1)       Emberg's test         Cerebellar signs (sitting)       Upper limb tone, rebound of outstretched arms, hyporeflexia         • Dysdiadochokinesis       Dysdiadochokinesis         • Nose to finger coordination       Intention/rest/postural tremor         • Nystagmus (fast phase towards side of lesion; away in VIII lesion)       Dysarthria/slurred speech         • Dower limb (supine)       Tone         • Heel to shin co-ordination       Evel of Satisfaction	• Limb and body posture, resting tremor			
<ul> <li>Instability, ataxia, wide-based/narrow-based</li> <li>Arm swing</li> <li>Walk heel to toe: unable to with a midline cerebellar lesion</li> <li>Walk on toes (L4/5) and heels (S1)</li> <li>Romberg's test</li> <li>Cerebellar signs (sitting)         <ul> <li>Upper limb tone, rebound of outstretched arms, hyporeflexia</li> <li>Dysdiadochokinesis</li> <li>Nose to finger coordination</li> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> </ul> </li> <li>Lower limb (supine)         <ul> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Level of Satisfaction</li> </ul> </li> </ul>	Gait			
<ul> <li>Arm swing</li> <li>Walk heel to toe: unable to with a midline cerebellar lesion</li> <li>Walk on toes (L4/5) and heels (S1)</li> <li>Romberg's test</li> <li>Cerebellar signs (sitting)         <ul> <li>Upper limb tone, rebound of outstretched arms, hyporeflexia</li> <li>Dysdiadochokinesis</li> <li>Nose to finger coordination</li> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> </ul> </li> <li>Lower limb (supine)         <ul> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> </ul> </li> <li>Level of Satisfaction</li> </ul>	• Instability, ataxia, wide-based/narrow-based			
<ul> <li>Walk heel to toe: unable to with a midline cerebellar lesion</li> <li>Walk on toes (L4/5) and heels (S1)</li> <li>Romberg's test</li> <li>Cerebellar signs (sitting)</li> <li>Upper limb tone, rebound of outstretched arms, hyporeflexia</li> <li>Dysdiadochokinesis</li> <li>Nose to finger coordination</li> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> <li>Lower limb (supine)</li> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Level of Satisfaction</li> </ul>	• Arm swing			
Walk on toes (L4/5) and heels (S1)      Romberg's test      Cerebellar signs (sitting)      Upper limb tone, rebound of outstretched arms,     hyporeflexia      Dysdiadochokinesis      Nose to finger coordination     Intention/rest/postural tremor      Nystagmus (fast phase towards side of lesion; away in VIII     lesion)      Dysarthria/slurred speech  Lower limb (supine)      Tone      Heel to shin co-ordination      Reflexes  Thank patient and offer to redress      Level of Satisfaction	• Walk heel to toe: unable to with a midline cerebellar lesion			
Romberg's test       Image: constraint of the system of the	• Walk on toes (L4/5) and heels (S1)			
Cerebellar signs (sitting)       Image: sign (sitting)         • Upper limb tone, rebound of outstretched arms, hyporeflexia       Image: sign (sitting)         • Dysdiadochokinesis       Image: sign (sitting)         • Nose to finger coordination       Image: sign (sitting)         • Intention/rest/postural tremor       Image: sign (sitting)         • Nystagmus (fast phase towards side of lesion; away in VIII lesion)       Image: sign (sitting)         • Dysarthria/slurred speech       Image: sign (sitting)         • Tone       Image: sign (sitting)         • Heel to shin co-ordination       Image: sign (sitting)         • Reflexes       Image: sign (sitting)         • Re	Romberg's test			
<ul> <li>Upper limb tone, rebound of outstretched arms, hyporeflexia</li> <li>Dysdiadochokinesis</li> <li>Nose to finger coordination</li> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> <li>Lower limb (supine)</li> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Thank patient and offer to redress</li> </ul>	Cerebellar signs (sitting)			
hyporeflexia       Image: Second start         • Dysdiadochokinesis       Image: Second start         • Nose to finger coordination       Image: Second start         • Intention/rest/postural tremor       Image: Second start         • Nystagmus (fast phase towards side of lesion; away in VIII lesion)       Image: Second start         • Dysarthria/slurred speech       Image: Second start         • Tone       Image: Second start         • Heel to shin co-ordination       Image: Second start         • Reflexes       Image: Second start         • Thank patient and offer to redress       Image: Second start	• Upper limb tone, rebound of outstretched arms,			
<ul> <li>Dysdiadochokinesis</li> <li>Nose to finger coordination</li> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> <li>Lower limb (supine)</li> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Thank patient and offer to redress</li> </ul>	hyporeflexia			
<ul> <li>Nose to finger coordination</li> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> <li>Lower limb (supine)</li> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Thank patient and offer to redress</li> <li>Level of Satisfaction</li> </ul>	Dysdiadochokinesis			
<ul> <li>Intention/rest/postural tremor</li> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> <li>Lower limb (supine)</li> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Thank patient and offer to redress</li> <li>Level of Satisfaction</li> </ul>	Nose to finger coordination			
<ul> <li>Nystagmus (fast phase towards side of lesion; away in VIII lesion)</li> <li>Dysarthria/slurred speech</li> <li>Lower limb (supine)</li> <li>Tone</li> <li>Heel to shin co-ordination</li> <li>Reflexes</li> <li>Thank patient and offer to redress</li> <li>Level of Satisfaction</li> </ul>	Intention/rest/postural tremor			
Dysarthria/slurred speech      Lower limb (supine)      Tone      Heel to shin co-ordination      Reflexes      Thank patient and offer to redress      Level of Satisfaction	• Nystagmus (fast phase towards side of lesion; away in VIII lesion)			
Lower limb (supine)          • Tone          • Heel to shin co-ordination          • Reflexes          Thank patient and offer to redress          Level of Satisfaction	Dysarthria/slurred speech			
Tone     Heel to shin co-ordination     Reflexes     Thank patient and offer to redress     Level of Satisfaction	Lower limb (supine)			
Heel to shin co-ordination     Reflexes     Thank patient and offer to redress     Level of Satisfaction	• Tone			
Reflexes     Thank patient and offer to redress     Level of Satisfaction	Heel to shin co-ordination			
Thank patient and offer to redress       Level of Satisfaction	• Reflexes			
Level of Satisfaction	Thank patient and offer to redress			
	Level of Satisfaction			

#### Comments:\_\_\_\_\_

#### **Skill-12: Examination of Cranial Nerves**

# **Entrustable Professional Activity:** Examine of Cranial nerves **Miller's Level:** Shows

	Task		Assessment	
		Not	Done	Well
		Done		Done
Wash	hands			
Introd	uction			
•	Introduce self			
•	Confirm identity			
•	Explain purpose of exam and gain consent			
•	Expose: face, neck and shoulders			
•	Position: sitting			
Genera	al inspection			
•	Patient comfort			
•	Obvious asymmetry			
•	Scars, rashes, ptosis, wasting, involuntary movements			
CN I				
•	ask about smell/taste			
•	Test olfaction in one nostril at a time and occlude the opposite side			
•	Use non-irritating stimulants, e.g. cloves			
CN II				
•	History (ask if patient wears glasses – if yes, they should wear			
	them)			
•	Visual acuity (with Snellen chart) and near vision			
•	Visual fields			
•	Colour vision (Ishihara plates)			
•	Light reflex (direct and consensual): approach patient's eye laterally			
	and shine			
	torch while asking patient to look into the distance			
•	Swinging flashlight test: to assess for relative afferent pupillary			
	defect (pupils constrict less when bright light is swung from			
	unaffected eye to the affected eye)			
•	Accommodation reflex: ask the patient to look in the distance and			
	then at the tip of their nose			
•	Offer to perform a fundoscopy			
CN III	, IV, VI			
•	Test eye movements in all directions in an 'H' pattern: ask if any			
	double vision			
•	Observe for nystagmus			
•	Assess for saccadic eye movements (ask patient to make quick			
	horizontal and vertical eye movements)			
	Motor			
	Ask patient to open mouth and move from side to side while			
	vou provide resistance (ntervooids)			
	<ul> <li>Ask patient to clench forehead and cheek, then palpate the</li> </ul>			
	masseter and			

• temporalis muscle and observe muscles for atrophy	
• Jaw reflex (offer to perform)	
• Sensory	
• Light touch (cotton), temperature (cold tuning fork), pain (disposable pin)	
• in optic, mandibular and maxillary areas (bilaterally)	
Corneal reflex (offer to perform)	
CN VII	
• Ask patient to raise eyebrows, screw up eyes, show teeth, puff out cheeks	
• Test sensation on anterior 2/3 of tongue	
CN VIII	
• Grossly check hearing by whispering five numbers in one ear while occluding	
<ul> <li>tragus of opposite ear. Repeat for other ear but use different numbers.</li> </ul>	
• Rinne test, Weber test	
• Offer to do auriscopy	
CN IX	
• Central movement of uvular with torch	
• Gag reflex (offer to perform)	
• Taste in posterior 1/3 tongue (offer to perform)	
CN X	
• Test swallowing and presence of dysphagia	
• Test speech and presence of hoarse voice	
• Palatal elevation (ask patient to say 'ah')	
CN XI	
• Sternocleidomastoid function (ask patient to turn head to left and	
palpate the right sternocleidomastoid and repeat for alternate side)	
• Trapezius: ask patient to shrug shoulders and palpate trapezius	
CN XII	
• Wasting/fasciculation of tongue (signs of lower motor neuron disease)	
• Side movement of tongue (a purely upper motor neuron lesion will	
cause deviation of tongue away from side of lesion; unilateral	
paralysis from a lower motor neuron lesion will cause deviation	
towards affected side)	
• Ask the patient to push the tongue into each cheek to check power	
Thank patient	
Level of Satisfaction	

Comments:\_\_\_\_\_

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

# Skill-13: Examination Motor and Sensory Systems of Upper Limb Entrustable Professional Activity: Examine the Sensory and Motor System in the Upper Limb

#### Miller's Level: Shows

Task	Assessment		nt
	Not Done	Done	Well Done
Wash hands			
Introduction			
• Introduce self			
• Confirm identity			
• Explain purpose of exam and gain consent			
• Expose: arms			
Position: sitting			
General inspection			
• Wasting, fasciculation, asymmetry, abnormal movements			
Pronator drift			
• Neuropathic ulcers, burns, trauma			
Tone			
• Rigidity (flexion/extension elbow), spasticity (supinator			
catch)			
Power			
• Grades:			
• 0 – no movement			
• 1 – flicker of contraction			
• 2 – movement if gravity eliminated,			
• 3 – can overcome gravity but not resistance			
• 4 – moderate movement against resistance,			
• 5 – normal power			
• Shoulder abduction (C5/6)			
• Elbow flexion (C5/6)/ extension (C7/8)			
• Wrist flexion (C6/7)/ extension (C7/8)			
• Finger flexion (C7/8)/extension (C7/8)/finger abduction			
(C8/T1)/finger adduction (C8/T1			
Reflexes			
• Biceps (C5/6), supinator (C5/6), triceps (C7/8)			
Coordination			
• Dysdiadochokinesis, finger–nose test, intention tremor			
Sensation			
• Identify upper limb dermatomes and test all components of sensation			
• Light touch (cotton wool), pain (neurotip)			
• Vibration (128 Hz tuning fork) – over distal			
interphalangeal joint of finger.			
• If absent, test wrist, elbow, shoulder			
• Proprioception – hold distal interphalangeal joint of finger			
and move it up and down. Ask patient to inform you in			

which direction they believe you are moving the joint.	
Perform this after an open eye demonstration	
• Test proximally if abnormal	
Thank patient and offer to redress	
Level of Satisfaction	

Comments:	
Facilitator Name:	_
Designation:	_
Unit, Department, Hospital:	
Date and Sign:	

Skill-14: Examination of Sensory and Motor system in the Lower Limb Entrustable Professional Activity: Examination of Sensory and Motor system in the Lower Limb

Miller's Level: Shows

Task	Assessment		nt
	Not	Done	Well
	Done		Done
Wash hands			
Introduction			
• Introduce self			
Confirm identity			
• Explain purpose of exam and gain consent			
• Expose: legs			
• Position: supine			
General inspection			
• Wasting, fasciculation, asymmetry, abnormal movements			
Tone			
• Rigidity, spasticity, clonus (dorsiflex ankle with knee bent			
and also move patella sharply down on extended knee)			
Power			
• Grades:			
• $0 - no movement$			
• 1 – flicker of contraction			
<ul> <li>2 – movement if gravity eliminated</li> </ul>			
<ul> <li>3 – can overcome gravity but not resistance</li> </ul>			
<ul> <li>4 – moderate movement against resistance</li> </ul>			
<ul> <li>5 – normal power</li> </ul>			
• Hin			
• Hip flexion ( $I 2/3$ )/extension ( $I 5 S1/2$ )			
• Hip abduction $(L2/3)/(\text{extension}(L3, 51/2))$			
• Know flavion $(L5, S1)/attension (L2/3)$			
• Anklo			
<ul> <li>AllKic</li> <li>Dianter floxion (\$1/2)/dersifloxion (1.4/5)</li> </ul>			
• Fundal flexion (31/2)/doisinexion (15, \$1			
$K$ the constant $(I_{2}/4)$			
• Ankla roflay $(S1/2)$			
<ul> <li>AllKie lellex (51/2)</li> <li>Dobinalzi zaflay (autonoon plantar rear and 1.5 S1/2);</li> </ul>			
• Dabinski reliex (extensor plantar response L5, \$1/2):			
indicates upper motor neuron lesion to corticospinal tract			
Or is a primitive reflex in infants			
• Heel–snin test			
• Foot tapping – rapid foot tapping with sole against your			
nand			
Sensation			

• Light touch (cotton wool), pain (neurotip)		
• Vibration (128 Hz tuning fork), – over hallux; if absent,		
test malleolus of ankle, knee, hip		
• Proprioception – hold distal interphalangeal joint of toe		
and move it up and down. Ask patient to inform you which		
direction they believe you are moving the joint. Perform		
this after an open eye demonstration.		
Test proximally if abnormal		
• Temperature		
Gait and Romberg's test		
Thank patient and offer to redress		
Level of Satisfaction	· · · · · · · · · · · · · · · · · · ·	

Comments:	
Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

Skill-15: Interpretation of Normal CT brain Entrusable Professional Activity: Identify parts of the brain on Normal CT Scan. Miller's Level: Shows

Task		Assessment		
		Done	Well	
	Done		Done	
Patient Preparation and CT Settings				
Preparation:				
• Ensure the patient is adequately hydrated. Contrast medium				
may be administered if needed for better visualization of				
vascular structures.				
CT Phases:				
• Non-contrast Phase: To assess the brain parenchyma, detect				
Contract Diago (if applicable): For better delineation of				
• Contrast Phase (if applicable). For better defineation of				
Vasculai structures, tulliors, or abscesses.				
Drain ratencilyina Cortox and White Mottor:				
• The cortex should appear hypodense (derker) compared to the				
• The contex should appear hypotense (darker) compared to the underlying white matter which appears hyperdense (lighter) in				
non-contrast images				
<ul> <li>Atrophy: Loss of sulci and widening of the gyri may suggest</li> </ul>				
cerebral atrophy (e.g. Alzheimer's or age-related changes)				
<ul> <li>White Matter Lesions: Areas of hypodensity in the white</li> </ul>				
matter may indicate demyelinating conditions or chronic				
ischemia				
Grav Matter:				
• The gray matter appears slightly darker than the white matter.				
• Abnormalities: Localized hypodensities in the gray matter may				
indicate ischemia, infarcts, or neurodegenerative changes.				
Ventricular System				
Position and Size:				
• The lateral ventricles should be symmetric and appear				
hypodense compared to surrounding brain tissue.				
• The third ventricle should also be symmetric, with no visible				
dilation.				
• The fourth ventricle should be normal in size, located in the				
cerebellopontine angle.				
Ventriculomegaly:				
• Enlargement of the ventricles may suggest hydrocephalus or				
normal pressure hydrocephalus (NPH).				
Look for signs of communicating or non-communicating				
hydrocephalus based on ventricular enlargement and flow				
dynamics.				
Basal Ganglia and Thalamus				
<b>Position and Size:</b>				
• The basal ganglia and thalamus should be symmetric and of				
normal size.				
• nypodensities may suggest isonemic changes, infarcts, or				
uegenerative diseases (e.g., Parkinson's disease).				

Uamannhagast
• Small hyperdance gross within the basel ganglie may suggest
• Small, hyperdelise areas within the basar gangita may suggest
acute nemorrage.
Caraballum and Praingtom
Desition and Sizer
The correlation should be summatric and positioned below the
• The cerebenum should be symmetric and positioned below the
The husington should encour integet with ne wisible sheered
• The oralistem should appear infact with no visible abnormal
densities.
• Altophy: Loss of cerebenar volume may indicate degenerative
conditions like cerebellar ataxia or multiple system atrophy.
Verebrai Arteries and venous Structures
vascular Structures:
• The major arteries (e.g., middle cerebral artery) and venous
structures (e.g., superior sagittal sinus) should be clearly
visible if contrast is used.
• Aneurysms, stenosis, or hemorrhages: Any irregularities in
vessel size, shape, or enhancement may suggest vascular
pathologies such as aneurysms, arteriovenous malformations
(AVMs), or venous thrombosis.
Pituitary Gland:
The pituitary gland should be well-defined and positioned
within the sella turcica.
Abnormalities such as pituitary tumors or enlargement may be
identified.
Skull and Calvarium:
The skull bones should appear dense and intact without
fractures.
• Look for any signs of trauma, fractures, or calcifications in the
calvarium.
Summary of Findings
Correlate CT findings with clinical and laboratory data to
support the diagnosis.
Provide a structured report focusing on any abnormalities in
the brain parenchyma, ventricles, vascular structures, and
surrounding tissues.
Recommend further imaging or intervention (e.g., MRI,
angiography) if required for definitive diagnosis.
Level of Satisfaction

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

Skill-16: Assessment of Glasgow Coma Scale Entrustable Professional Activity: Assess Glasgow Coma Scale of a patient. Miller's Level: Shows

Task		Assessment		
	Not Done	Done	Well Done	
Wash hands				
Introduction:				
• Introduce yourself to the patient.				
• Confirm the patient's identity (name, age, and any other				
identifiers).				
• Explain the purpose of the assessment (assessing				
consciousness level) and gain consent.				
• Position the patient in a comfortable and safe position,				
preferably lying or sitting.				
General Inspection:				
• Observe the patient's level of consciousness (e.g., awake,				
drowsy, or unresponsive).				
• Look for any abnormal movements or posturing.				
• Check for any signs of trauma, bruising, or facial				
asymmetry.				
Assess Eye Opening (E):				
• 4 points: Eyes open spontaneously.				
• <b>3 points</b> : Eyes open to verbal command.				
• 2 points: Eyes open to painful stimulus.				
• 1 point: No eye opening.				
• Observe if the patient opens their eyes spontaneously or in				
response to verbal or painful stimuli (e.g., nail bed pressure				
or sternal rub).				
Assess Verbal Response (V):				
• <b>5 points</b> : Oriented and converses normally.				
• 4 points: Confused conversation but able to answer				
questions.				
• <b>3 points</b> : Inappropriate words or random speech.				
• <b>2 points</b> : Incomprehensible sounds.				
• 1 point: No verbal response.				
• Ask the patient simple questions to assess orientation, such				
as "What is your name?" or "Where are you?"				
Assess Motor Response (M):				
• 6 points: Obeys commands for movement.				
• <b>5 points:</b> Purposeful movement to painful stimulus.				
• <b>4 points:</b> Withdrawal from pain (non-purposeful).				
• <b>3 points:</b> Abnormal flexion (decorticate posturing).				
• <b>2 points:</b> Abnormal extension (decerebrate posturing).				
• 1 <b>point:</b> No motor response.		1		

• Ask the patient to move limbs if they are able, or apply a painful stimulus to assess their motor response.	
Calculate the Total GCS Score:	
• Total Score = Eye Opening (E) + Verbal Response (V) +	
Motor Response (M).	
• A score of 15 indicates full consciousness.	
• A score of 9–12 suggests moderate impairment, and 3–8	
indicates severe impairment (coma).	
Thank the Patient:	
• Thank the patient for their cooperation.	
• Offer to make the patient comfortable and ensure safety	
following the assessment.	
Level of Satisfaction	

Comments:	
Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

## **Block 6**

#### **Special Senses Module**

Skill-17: Examination of Smell Skill-18: Examination of Hearing Skill-19: Examination of Vision.

## **Endocrinology Module**

Skill-20: Examination of the Thyroid Gland. Skill-21: Measurement of Blood Glucose Levels.

## **Certificate of Completion**

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Professor of Anatomy

Director DME

Rawalpindi Medical University

Rawalpindi

#### Special Senses Module Skills Skill-17: Examination of Smell

**Entrustable Professional Activity:** Examine the nose and sense of smell **Miller's Level:** Shows

Task		Assessment		
	Not Done	Done	Well Done	
Wash hands				
Introduction				
• Introduce self				
Confirm identity				
• Explain purpose of exam and gain consent				
Position: sitting				
History				
Duration of complaint				
Runny nose				
Reduced ability to smell				
• Change in shape				
Previous trauma/polyps				
Arrange adequate lighting				
General inspection				
Congenital deformities, shape, swelling, ulceration				
Palpation				
• Nasal bones and cartilage and nasal septal area for tenderness, deformities and crepitus				
Anterior rhinoscopy				
• Examine the vestibule by tilting tip of nose				
• Examine nasal cavity using Thudichum's nasal speculum:				
identify any ulceration, swellings, excoriations				
Thank patient and offer to redress				
Level of Satisfaction				

Skill-18: Examination of Hearing Entrustable Professional Activity: Examine the sense of Hearing Miller's Level: Shows

Task	Assessment		nt
	Not Done	Done	Well Done
Before starting			
• Introduce yourself to the patient.			
• Explain the examination and ask for his consent to carry it out.			
• Sit him so that he is facing you and ensure that he is comfortable.			
The history			
• Name, age. and occupation, if this information has not already been provided.			
• Ask the patient if there has been any loss of hearing.			
<ul> <li>Characteristics (bilaterality, onset, duration, severity, impact on the patient's life).</li> </ul>			
<ul> <li>Associated features (tinnitus. vertigo. pain. discharge. weight loss).</li> </ul>			
• Possible causes (trauma. infection, antibiotics. family history).			
• Impact on the patient's lire.			
Hearing			
• Test hearing by rubbing your fingers together into the ear at various distances, whilst distracting or occluding the other ear.			
Tuning fork tests			
• Use a 512 Hz tuning fork, and not the larger 128 Hz or 256			
<ul> <li>The Rinne test. Place the base of the vibrating tuning fork on the mastoid process of each ear. Once the patient can no longer "hear" the vibration. Move the tuning fork in front of</li> </ul>			
the ear. If the tuning fOlk can be heard, air conduction is better than bone conduction. and there is therefore no conductive hearing loss. The test is said to be positive. If the tuning fork cannot be heard, there is a conductive hearing			
loss, and the test is said to be negative.			
• The false negative Rinne test: if the Rinne test is performed on a deaf ear, it may appear negative because the vibration is transmitted to the opposite ear.			
• The Weber test. Place the vibrating tuning fork in the midline of the skull. If hearing is normal, or if hearing loss is			

symmetrical	the vibration should be heard equally in both	
ears.		
• If there is co	nductive deafness in one ear, the vibration is	
best heard in	that some ear (since there is no background	
interference)		
• If there is ser	nsorineural deafness in one ear, the vibration is	
best heard in	the other ear.	
Auroscopy		
• Examine the	pinnae for size, shape, deformities,	
pre∙auricular	sinuses. look behind the ears for any scars.	
• Palpate the p	re-auricular, post-auricular, and infra-auricular	
lymph nodes		
• Affix a speci	alum of appropriate size onto the auroscope.	
• Gently pull t	he ear 50 as to straighten the ear canal and,	
holding the a	uroscope like a pen, introduce it into the	
external audi	tory meatus.	
• If examining	the right ear, use your right hand to hold the	
auroscope. If	f examining the left ear, use your left hand.	
• Through the	auroscope. inspect the ear canal and the	
tympanic me	embrane.	
After examining th	e ear	
• Ask the patie	ent if he has any questions or concerns.	
• Thank the pa	itient.	
Summarise y	your findings and offer a differential diagnosis	
	Level of Satisfaction	

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

#### Skill-19: Examination of Vision.

**Entrustable Professional Activity:** Examine the eye and test the Vision. **Miller's Level:** Shows

Task	Α	ssessment	t
	Not Done	Done	Well Done
Before starting			
• Introduce yourself 10 the patient.			
• Explain the examination and ask for his consent to carry it			
out.			
• Ensure that he is comfortable.			
Visual acuity			
• Snellen chart. Asess each eve individually, correcting for			
any refractive errors (glasses, pinhole). If the patient			
cannot read the Snellen chart, either move him closer or			
ask him to count fingers. If he fails to count fingers. test			
whether he can see hand movements and, if he cannot, test			
whether he can see light.			
• Test types (or fine print). Again, assess each eye			
individually, correcting for any refractive errors.			
• Ishihara plates. Indicate that you could use Ishihara plates			
to test colour vision specifically.			
Visual fields			
• Confrontation test: Sit at 1 cm from the patient. Cover your			
left eye with your left hand and ask the patient to cover his			
right eye and to fix his gaze upon your right eye. Starting			
at a distance, bring an equidistant moving finger into each			
of his upper and lower temporal fields. Then change hands			
and test his upper and lower nasal fields. Compare the			
patient's visual field to your own. Test the other eye.			
• Visual inattention test: Ask the patient to fix his gaze upon			
you and simultaneously bring a moving finger into each of			
the patient's right and left visual fields. In some parietal			
lobe lesions, only an ipsilateral finger is perceived by the			
patient. Mapping of central visual field defects. Indicate			
that you could use a red pin to delineate the patients blind			
spot and any central visual field defects.			
• Inspection, Inspect the pupils for size and share			
<ul> <li>Inspection: Inspect the pupils for size and shape,</li> <li>Durillary reflexes: A sk the notion to fixed on a distant</li> </ul>			
• rupiliary reliexes: Ask the patient to fixate on a distant			
pupillary reflexes. If the concensual pupillary reflex is			
absent there is a relative offerent pupillary defect or			
Marcus Gunn pupil			

•	Accommodation reflex: Test the accommodation reflex by		
•	asking the patient to focus on a distant object and then on a		
	finger held at 30 cm from his face.		
Eye mo	vements		
•	Inspection. look for a squint		
•	Cover test: indicate that you could perform a cover test to		
	look for a concomitant squint.		
•	Eye movements: Fix the patient's head and ask him to track		
	your finger through an "H" pattern. Ask him to report any		
	double vision.		
•	Nystagmus: look out for nystagmus at the extremes of		
	gaze. You can do this as part of eye movements or		
	separately by filting the patient's head and asking him to		
	track your finger through a cross pattern		
Fundos	scopy		
٠	Explain the procedure, mentioning that it may be		
	uncomfortable. Darken the room andvask the patient to		
	fixate on a distant object (or to "look over my shoulder").		
	State to the examiner that, ideally, the pupils should have		
	been dilated using a solution of 1% cyclopentolate.		
•	Red reflex: lest from a distance of 1m by looking through		
	the opininal moscope. An absent red reflex is usually caused		
•	by a calaract.		
•	right ave, and your left ave to examine the patient's left		
	eve. If you use your left eve to examine the patient's right		
	evel you may appear more caring than the examiner might		
	like to see, look at the optic nerve head, the vessels, and		
	the macula. Describe any features according to protocol.		
After t	he examination		
•	Ask the patient if he has any questions or concerns.		
•	Thank the patient.		
•	Summarise your findings and offer a differential diagnosis.		
	Level of Satisfaction		

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	

# Endocrinology Module Skills Skill-20: Examination of the Thyroid Gland. Entrustable Professional Activity: Examine the Neck and Thyroid Gland. Miller's Level: Shows

Wash handsNot DoneWell DoneWash handsImport the second secon	Task		Assessment		
Wash hands		Not Done	Done	Well Done	
Introduction       Introduce self <ul> <li>Introduce self</li> <li>Confirm identity</li> <li>Explain purpose of exam and gain consent</li> <li>Expose: neck and up to infraclavicular region</li> <li>Position: sitting</li> </ul> General inspection <ul> <li>Site, size, shape, surrounding structures, scars (collar scar), asymmetry</li> <li>Water test: goitre</li> <li>Tongue test: thyroglossal cyst</li> </ul> From behind <ul> <li>Palpation</li> <li>Pain, pulsatility</li> <li>Compressibility, consistency</li> <li>Temperature</li> <li>Fluctuation, fluid thrill</li> <li>Water test</li> <li>Lymph nodes</li> </ul> From front <ul> <li>Percussion – retrosternal goitre</li> <li>Translucency</li> <li>Auscultation from bruits</li> </ul> Thyroid status <ul> <li>General appearance: clothes, weight, behaviour</li> <li>Hands: pulse, thyroid acropachy, sweaty/dry skin, tremor, onycholysis, palmar cythema, other autoinmune disorders: vitiligo, hyperpigmented palmar creases</li> <li>Face: eyebrow, hair, complexion</li> <li>Eyes: exophthalmos, chemosis, lid retraction, lid lag. ophthalmoplegia, proptosis</li> <li>Leg: pretibial myxoedema, ankle reflexes, proximal myopathy</li> </ul>	Wash hands				
Introduce self     Confirm identity     Explain purpose of exam and gain consent     Expose: neck and up to infraclavicular region     Position: sitting     General inspection     Site, size, shape, surrounding structures, scars (collar scar), asymmetry     Water test: goitre     Tongue test: thyroglossal cyst     From behind     Palpation     Palpation     Palpation     Pain, pulsatility     Compressibility, consistency     Temperature     Fluctuation, fluid thrill     Water test     Lymph nodes     From front     Percussion – retrosternal goitre     Tracheal deviation     Cartotid pulse     Translucency     Auscultation from bruits     Thyroid status     General appearance: clothes, weight, behaviour     Hands: pulse, thyroid acropachy, sweaty/dry skin, tremor, onycholysis, palmar crythema, other autoimnune disorders: vitiligo, hyperpigmented palmar creases     Face: eyebrow, hair, complexion     Eyes: exophthalmos, chemosis, lid retraction, lid lag, ophthalmoplegia, proptosis     Leg: pretibial myxoedema, ankle reflexes, proximal myopathy	Introduction				
Confirm identity     Explain purpose of exam and gain consent     Expose: neck and up to infraclavicular region     Position: sitting     General inspection     Site, size, shape, surrounding structures, scars (collar scar), asymmetry     Water test: goire     Tongue test: thyroglossal cyst     From behind     Pain, pulsatility     Compressibility, consistency     Temperature     Fluctuation, fluid thrill     Water test     Lymph nodes     From front     Percussion – retrosternal goitre     Translucency     Auscultation from bruits     Thyroid status     General appearance: clothes, weight, behaviour     Hands: pulse, thyroid acropachy, sweaty/dry skin, tremor, onycholysis, palmar erythema, other autoimnune disorders: vitiligo, hyperpignented palmar creases     Fac: eyebrow, hair, complexion     Eyes: exophthalmos, chemosis, lid retraction, lid lag, ophthalmoplegia, proptosis     Leg: pretibial myxocedema, ankle reflexes, proximal myopathy     Thank patient and offer to redress	• Introduce self				
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Comments:	
Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	
Date and Sign:	

#### Skill-21: Measurement of Blood Glucose Levels.

**Entrustable Professional Activity:** Measure blood glucose levels in patient **Miller's Level:** Shows

Task		Assessmen	t
	Not	Done	Well
	Done		Done
Before starting			
• Introduce yourself to the patient.			
• Explain the procedure and ask for his consent to carry it out.			
• Establish when he last ate (fasting blood glucose is usually carried out			
in the morning before the patient has had anything to eat or drink).			
The equipment			
• In a tray gather:			
• A pair of gloves.			
• An alcohol wipe.			
• A glucose monitor.			
• A Test strips.			
• A spring loaded pricker.			
• A lancet.			
Cotton wool.			
The procedure			
• Ask the patient to wash and dry his hands, or use an alcohol wipe to			
clean the finger that you are going to prick.			
• Massage the finger from its base to its tip to increase its perfusion.			
• Turn on the glucose monitor and ensure that it is calibrated.			
• Check that the test-strips have not expired.			
• Insert a test strip into the glucose monitor.			
• Load the lancet into the pricker and prick the side of the finger.			
• Squeeze the finger to obtain a droplet of blood. If no or insufficient			
blood is obtained, prick the finger again. If this happens, be			
sympathetic to the patient's plight.			
• Place the drop of blood on the test-strip, so as to cover the sensor			
entirely.			
• Give the patient some cotton wool to stop any bleeding.			
• Recold the reading on the monitor.			
After the procedure			
• Tell that patient their blood glucose and explain its significance and			
any further action that needs to be taken, e.g. fasting blood glucose,			
glucose tolerance test, laboratory measurement.			
• Ask the patient if he has any questions or concerns.			
• Thank the patient.			
Level of Satisfaction			

Facilitator Name:	
Designation:	
Unit, Department, Hospital:	
Date and Sign:	