

# Endocrine & Reproduction-III Final Year MBBS

KMU (IHPER)- Central Curriculum Committee

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## Khyber Medical University (KMU) Vision:

Khyber Medical University will be the global leader in health sciences academics and research for efficient and compassionate health care.

## Khyber Medical University (KMU) Mission:

Khyber Medical University aims to promote professional competence through learning and innovation for providing comprehensive quality health care to the nation.

## Institute of Health Professions Education & Research (IHPER) Mission:

To produce leaders, innovators and researchers in health professions education who can apply global knowledge to resolve local issues.

## Themes

### Table 1: Thematic Distribution

S. No	Themes	Duration in Hours
1	Tall/Short Stature	3
2	Neck Swelling and Muscle cramps	5
3	Excessive Thirst & Urination	8
4	Moon Face	4
5	Pregnancy and Breast Lump	20

## **Learning Objectives**

#### By the end of Endocrine and Reproduction-III Module, Final year MBBS students will be able to:

- 1. Discuss the clinical conditions resulting in Tall/short stature and its management.
- 2. Discuss the clinical conditions causing Excessive thirst and Urination and its management.
- 3. Discuss the clinical conditions resulting in Infertility and its management.
- 4. Discuss pathophysiology of Pregnancy, its Management, and complications.
- 5. Discuss the development of fetus, its growth, and complications.
- 6. Discuss the pathophysiology of Obstetrics emergencies, its Management, and complications.

# **Specific Learning Objectives**

Table 3: Theme Wise Learning objectives

		The	eme-1: Ta	all /	' short stature
Subject	Торіс	Hours needed	Domain learning	of	Learning Objectives
Medicine	Anterior pituitary gland	1	Cognitive		Discuss the diagnostic approach and management of a patient with tall stature.
	Posterior pituitary gland	1	Cognitive Cognitive		Discuss the approach consideration of a patient with polydipsia Explain the diagnostic approach and treatment of a patient with Diabetes insipidus.
Pediatrics	Short stature	1	Cognitive		Discuss the diagnostic approach and management of a child with short stature.
			r		g and muscle cramps
Subject	Торіс	Hours needed	Domain learning	of	Learning Objectives
Medicine	Thyroid gland disorders	1	Cognitive		Discuss the diagnostic approach, management, and complications of a patient with suspected hyperthyroidism.
		1	Cognitive		Discuss the diagnostic approach, management, and complications of a patient with suspected hyperthyroidism.
	Parathyroid gland	1	Cognitive		Discuss the diagnostic approach, management, and complications of a patient with tetany.

			Psychomotor	Take history and perform physical examination of a patient
				with goitre.
			Affective	Counsel a patient with goitre.
Surgery	Thyroid nodule	1	Cognitive	Explain the diagnostic approach, management, and complications of multinodular goitre.
			Cognitive	Explain the diagnostic approach, and management of a patient with solitary thyroid nodule.
			Psychomotor	Perform thyroid examination
Pediatrics	Thyroid disorders	1	Cognitive	Explain the neonatal screening for hypothyroidism
			Cognitive	Explain the diagnostic approach and management of a child with suspected Cretinism
			Cognitive	Discuss the complications of Cretinism
			Psychomotor	Take history and perform physical examination of a child with
				hypothyroidism/cretinism.
		Then	ne-3: Excessive	thirst and urination
Subject	Торіс	Hours	Domain of	Learning Objectives
		needed	learning	
Medicine	Diabetes Mellitus	1	Cognitive	Explain the diagnostic approach, screening and management of
				a patient with suspected Diabetes Mellitus.
		1	Cognitive	Elaborate the pharmacological and non-pharamcological
				management strategies in the management of type-1 and type-
				2 DM.
		1	Cognitive	Elaborate the acute and chronic complications of DM and their
				management

		1	Cognitive	Discuss the diagnostic approach, management, and complications of hyperglycaemic syndromes in Diabetic patients.
			Cognitive	Explain the diagnosis, management and complications of a diabetic patient presenting with hypoglycaemias.
			Psychomotor	Take history and perform physical examination of a patient with Type 2 DM.
			Affective	Counsel a newly diagnosed patient with DM.
Family medicine	Daibetes mellitus- general practice management		Cognitive	Explain the management strategies of a diabetic patient in general practice including the psychosocial impact of disease on patient and their families.
			Describe the strategies for prevention of diabetes mellitus and its complications.	
			Identify the red flags in a diabetic patient and appropriately refer to speciality care when required.	
Surgery	Diabetic foot ulcers	1	Cognitive	Discuss the classification, investigations, management, and complications of diabetic foot ulcers
		-	Psychomotor	Examine and stage a diabetic foot ulcer
Nephrology	Diabetic nephropathy	1	Cognitive	Explain the pathogenesis, clinical features, complications, short and long-term management of Diabetic Nephropathy
Pediatrics	Type-1 DM	1	Cognitive	Explain the diagnostic approach, screening, and management of a Child with suspected Type-1 Diabetes Mellitus
		Psychomotor	Take history and perform physical examination of a patient with Type 2 DM	
			Affective	Counsel a newly diagnosed patient and parents with type 1 DM

	Iner	ne-3: Moon f	ace and obesity
Торіс	Hours needed	Domain of learning	Learning Objectives
Cushing`s syndrome	1	Cognitive	Discuss the diagnosis, management, and complications of a patient with suspected Cushing's syndrome.
	1	Cognitive	Explain the Dexamethasone suppression test in terms of its indications and interpretation.
		Cognitive	Explain the protocol of steroids withdrawal in a patient with steroids abuse.
		Psychomotor	Take history and perform physical examination of a patient with Cushing`s syndrome.
Addison`s disease	1	Cognitive	Discuss the diagnosis, management, and complications of a patient with suspected Addison's disease (both primary and secondary).
		Cognitive	Explain the concept of steroids replacement in terms of its indications and precautions.
Obesity	1	Cognitive	Discuss the etiology, complications, medical and surgical approaches to the management of obesity.
		Psychomotor	Take history and perform physical examination of a patient with morbid obesity.
		Affective	Counsel a morbidly obese patient regarding the complications and lifestyle management.
	Cushing`s syndrome   Addison`s disease	Image: Construction of the second synchronic of the second synchr	NeededlearningCushing`s syndrome1Cognitive1Cognitive11CognitiveCognitiveAddison`s disease1CognitiveAddison`s disease1CognitiveObesity1CognitiveImage: CognitiveImage: Cognitive

	٦	Theme-5	5: Pregnancy	and breast feeding
Subject	Торіс	Hours needed	Domain of learning	Learning Objectives
Gynaecology and Obstetrics	Obstetrics history and examination		Psychomotor	Take an obstetric history and perform abdominal, pelvic, and obstetric examination of a pregnant lady.
			Psychomotor	Measure and interpret blood pressure in a pregnant lady
			Psychomotor	Examine the breast of a full-term pregnant female
			Psychomotor	Perform urine examination via dipstick technique for pregnancy, glucose, urine, and bacteria
	Antenatal care	1	Cognitive	Define and explain the aims of antenatal care
			Cognitive	Discuss the components of antenatal care
			Cognitive	Explain different types of screening tests during antenatal care
		1	Cognitive	Discuss the maternal and neonatal complications associated with increased BMI in pregnancy
			Cognitive	Identify high risk women of developing pre-eclampsia, preterm birth, fetal growth restriction, and vitamin D deficiency
			Psychomotor	Perform and record proper antenatal check-ups
			Affective	Counsel a pregnant lady about the complications of pregnancy
	Assessment of	1	Cognitive	Explain the methods of assessment of fetal wellbeing
	fetal wellbeing		Cognitive	Explain the types and diagnosis of fetal abnormalities
	Prenatal diagnosis	1	Cognitive	Explain the reasons, classification, and methods of prenatal diagnosis
	Antenatal	1	Cognitive	Discuss musculoskeletal, gastroenterological, and
	maternal and		_	haematological problems associated with pregnancy.
	obstetric complications		Cognitive	Discuss the risk factors and management of venous thromboembolism in pregnancy.
		1	Cognitive	Explain the causes, complications, and management of polyhydromnias and oligohydromnias.

			Cognitive	Discuss the etiology, comlications and management of fetal malpresentations.
		1	Cognitive	Explain the approach and management of a pregnant lady with antepartum bleeding.
			Cognitive	Discuss the etiology, prevalence, management, and prevention of Rh isoimmunization.
	Preterm labor PROM PPROM	1	Cognitive	Discuss the etiology, complications, and management of preterm labor.
Family medicine/ Obstetrics	Hypertensive disorders in	1	Cognitive	Classify hypertension in pregnancy and disorders of hypertension in pregnancy.
	pregnancy		Cognitive	Discuss the diagnostic approach, management, complications and prevention of Pre-eclampsia and Eclampsia
Family medicine/ Obstetrics	Diabetes mellitus and pregnancy	1	Cognitive	Explain the management of a pregnant lady with gestational DM and overt DM
Obstetrics	Perinatal	1	Cognitive	Classify prenatal infections.
	infections		Cognitive	Explain the screening and preventive strategies of common perinatal infections.
	Labour	1	Cognitive	Explain the management of normal labour at different stages
			Cognitive	Explain the management of abnormal labour at different stages
		1	Cognitive	Discuss the indications and complications of analgesia and anaesthesia in labour.
		1	Cognitive	Discuss the management of labour at special circumstances like uterine scar, fetal malposition's, and multiple pregnancies,
			Cognitive	Explain the types, indications, and complications of operative deliveries.
			Cognitive	Discuss the indications and complications of Caesarian section
			Psychomotor	Observe normal labour and assisted deliveries.
	Management of labor in special	1	Cognitive	Discuss the management of labor at special circumstances like

	circumstances			uterine scar, fetal malpositions, fetal death, multiple
				pregnancies, and post-date pregnancies
			Cognitive	Explain the types, indications, and complications of
				operative deliveries.
			Cognitive	Discuss the indications and complciations of Caesarian
				section.
			Psychomotor	Observe normal labor and assisted deliveries.
	Obstetric	1	Cognitive	Classify obstetric emergencies.
	emergencies		Cognitive	Discuss the management of sepsis in pregnancy
			Cognitive	Explain the management and complications of placental
				diseases in a pregnant woman.
			Psychomotor	Observe a normal delivery
	Postpartum	1	Cognitive	Discuss the etiology, diagnostic and management approach to
	bleeding			a patient with postpartum haemorrhage.
	Puerperium		Cognitive	Classify puerperal disorders and their management
Psychiatry	Psychiatric	1	Cognitive	Classify different psychiatric disorders in pregnancy and
	disorders in		_	puerperium.
	pregnancy and		Cognitive	Discuss the management of puerperal psychosis and depression
	puerperium		Affective	Counsel a patient and her family with postpartum psychosis/depression.
Pediatrics	The neonate	1	Cognitive	Discuss the types and management of common problems of preterm and term babies
			Cognitive	Discuss the principles of neonatal care
			Psychomotor	Observe the care of a neonate in nursery
			Psychomotor	Take history and perform physical examination of a neonate
Surgery	Breast diseases	1	Cognitive	Discuss approach to a patient with breast lump emphasizing on diagnostic work-up of different breast pathologies (complexity of benign and malignant breast diseases) including imaging and procedures.

1	Cognitive	Discuss the diagnostic approach and management of a patient with nipple discharge.
	Psychomotor Skills	Perform a Clinical breast examination by all techniques including "radial wagon wheel" and "spoke" method
	Affective domain	Counsel a patient with breast cancer about the diagnosis, management, and screening of her family members.