



Endocrine & Reproduction- III Final Year MBBS

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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

Theme-1: Tall / short stature				
Subject	Topic	Hours needed	Domain of learning	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	Discuss the approach consideration of a patient with polydipsia
			Cognitive	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.
Theme-2: Neck swelling and muscle cramps				
Subject	Topic	Hours needed	Domain of learning	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.
Theme-3: Excessive thirst and urination				
Subject	Topic	Hours needed	Domain of learning	Learning Objectives
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-pharmacological 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	Diabetes 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

Theme-3: Moon face and obesity

Subject	Topic	Hours needed	Domain of learning	Learning Objectives
Medicine	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.

Theme-5: Pregnancy and breast feeding

Subject	Topic	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 fetal wellbeing	1	Cognitive	Explain the methods of assessment of 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 maternal and obstetric complications	1	Cognitive	Discuss musculoskeletal, gastroenterological, and haematological problems associated with pregnancy.
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, complications 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	1	Cognitive	Discuss the etiology, complications, and management of preterm labor.
Family medicine/ Gynaecology	Hypertensive disorders in pregnancy	1	Cognitive	Classify hypertension in pregnancy and disorders of hypertension in pregnancy.
			Cognitive	Discuss the diagnostic approach, management, complications and prevention of Pre-eclampsia and Eclampsia
Family medicine/ Gynaecology	Diabetes mellitus and pregnancy	1	Cognitive	Explain the management of a pregnant lady with gestational DM and overt DM
Gynaecology	Perinatal infections	1	Cognitive	Classify prenatal 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
			Cognitive	Discuss the indications and complications of analgesia and anaesthesia in labour.
			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.
	Obstetric emergencies	1	Cognitive	Classify obstetric 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 bleeding	1	Cognitive	Discuss the etiology, diagnostic and management approach to a patient with postpartum haemorrhage.
	Puerperium		Cognitive	Classify puerperal disorders and their management
Psychiatry	Psychiatric disorders in pregnancy and puerperium	1	Cognitive	Classify different psychiatric disorders in pregnancy and puerperium.
			Cognitive	Discuss the management of puerperal psychosis and depression
			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	<i>Perform a Clinical breast examination by all techniques including “radial wagon wheel” and “spoke” method</i>
			Affective domain	Counsel a patient with breast cancer about the diagnosis, management, and screening of her family members.