# <u>Learning objectives</u> Endocrine and Reproduction-3 Module Year-5 (MBBS)

**Total Weeks: 04** 

Central Curriculum Committee, Khyber Medical University

Prepared by

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## **Themes**

S. No	Theme	Topics / region	Duration in hours
		covered	
1	Tall/short stature	Pituitary gland	3
2	Neck swelling and Muscle cramps	Thyroid and	5
		parathyroid glands	
3	Excessive thirst and urination	Endocrine	8
		pancreas	
4	Moon face	Adrenal cortex	4
5	Pregnancy and breast lumps	Pregnancy and	20
		breast	

#### **General learning outcomes**

At the end of this module, the students will be able to:

- 1. Discuss the clinical conditions resulting inTall/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**

Subject	Topic	Hours needed	Domain of learning	Learning Objectives  At the end of this module,  the students of year 4  MBBS will be able to:
	Theme-	1: Tall / sl	nort stature	
Medicine	Anterior	1	Cognitive	Discuss the diagnostic
	pitutary gland			approach and
				management of a patient
				with tall stature

	Posterior pitutary gland	1	Cogititive	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	Cogititive	Discuss the diagnostic approach and management of a child with short stature
	Theme-2: Neck	swelling	and muscle cram	ps
Medicine	Thyroid gland disorders	1	Cogititive	Discuss the diagnsotic approach, management and complications of a patient with suspected hyperthyroidism
		1	Cogititive	Discuss the diagnsotic approach, management and complications of a patient with suspected hyporthyroidism
	Parathyroid gland	1	Cogititive	Discuss the diagnsotic 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	Cogititive	Explain the diagnsotic approach, management and complications of multinodular goitre
			Cogititive	Explain the diagnsotic approach, and management of a patient with solitary thyroid nodule
			Psychomotor	Perform thyroid examination
Pediatrics	Thyroid disorders	1	Cogititive	Explain the neonatal screening for hypothyroidism
			Cogititive	Explain the diagnsotic approach and management of a child with suspected Cretinism
			Cogititive	Discuss the complications of Cretinism
			Psychomotor	Take history and perform physical examination of a child with hypothyroidism/cretinism
	Theme-3: E	xcessive t	hirst and urination	n
Medicine	Diabetes Mellitus	1	Cogititive	Explain the diagnsotic approach, screening and management of a patient

				with suspected Diabetes
				Mellitus
		1	Cogititive	Elaborate the
				pharmacological and non-
				pharamcological
				management strategies in
				the management of type-
				1 and type-2 DM
		1	Cogititive	Elaborate the acute and
				chronic complications of
				DM and their
				management
		1	Cogititive	Discuss the diagnsotic
				approach, management
				and complications of
				hyperglycemic syndromes
				in Diabetic patients
			Cogititive	Explain the diagnosis,
				management and
				complications of a
				diabetic patient
				presenting with
				hypoglycemia
			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		Cognitive	Explain the management
	mellitus-			strategies of a diabetic

	general			patient in general practice
	practice			including the psychosocial
	•			
	management			
				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	1	Cogititive	Discuss the classifcation,
	ulcers			investigations,
				management and
				complications of diabetic
				foot ulcers
			Psychoomotor	Examine and stage a
				diabetic foot ulcer
Nephrology	Diabetic	1	Cogititive	Explain the pathogenesis,
	nephropathy			clinical features,
				complications, short and
				long-term management
				of Diabetic Nephropathy
Pediatrics	Type-1 DM	1	Cogititive	Explain the diagnsotic
				approach, screening and
				management of a Child
				with suspected Type-1
				Diabetes Mellitus
				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 fac	e and obesity	
Medicine	Cushing`s	1	Cogititive	Discuss the diagnosis,
	syndrome			management and
				complications of a patient
				with suspected Cushing's
				syndrome
		1	Cogititive	Explain the
				Dexamethosone
				suppression test in terms
				of its indications and
				interpretation
		-	Cogititive	Explain the protocol of
				steroids withdral in a
				patient with steroids
				abuse
			Psychomotor	Take history and perform
				physical examination of a
				patient with Cushing`s
				syndrome
	Addison`s	1	Cogititive	Discuss the diagnosis,
	disease			management and
				complications of a patient
				with suspected Addison`s
				disease (both primary and
				secondary)

			Cogititive	Explain the concept of steroids replacement in terms of its indications and precautions
	Obesity	1	Cogititive	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 mobidly obese patient regarding the complications and lifestyle management
	Theme-5: Pre	egnancy a	nd breast feeding	3
Gynaecology and Obstetrics	Obstetrics history and examination		Psychomotor	Take an obstetric history and perform abdominal, pelvic, and obstetric/gynecological examination of a lady
			Psychomotor	Measure and interptet 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 votamin D deficiency
		Psychomotor	Perform and record proper antenatal checkups
		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,
		<b>G</b>	classification and
			methods of prenatal
			diangosis
Antenatal	1	Cognitive	Discuss musculoskeletal,
maternal and	1	Cognitive	gastroenterological and
obstetric			hematological problems
complications			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,
			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	1	Cognitive	Discuss the etiology,
	• PROM			complications and
	• PPROM			management of preterm
				labor
Family medicine/	Hypertensive	1	Cognitive	Classify hypertension in
Obstetrics	disorders in			pregnancy and disorders
	pregnancy			of hypertension in
				pregnancy
			Cognitive	Discuss the diagnostic
				approach, management,
				complications and
				prevention of Pre-
				eclampsia and Eclampsia
Family medicine/	Diabetes mellitus	1	Cognitive	Explain the management
Obstetrics	and pregnancy			of a pregnant lady with
				gestational DM and overt
				DM
Obstetrics	Perinatal	1	Cognitive	Classify pernatal
	infections			infections
			Cognitive	Explain the screning and
				preventive strategies of
				common perinatal
				infections
	Labor	1	Cognitive	Explain the management
				of normal labor at
				different stages
			Cognitive	Explain the management
				of abnormal labor at
				different stages
		1	Cognitive	Discuss the indications
				and complications of

			analgesia and anaesthesia
			in labor
Management of	1	Cognitive	Discuss the management
labor at special			of labor at special
circumstances			circumstances like 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 complications of a
			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 women
		Psychomotor	Observe a normal delivery
Postpartum	1	Cognitive	Discuss the etiology,
bleeding			diagnostic and
			management approach to

				a patient with postpartum
				hemorrahge
	Puerperium		Cognitive	Classify perperal
				diosrders and their
				management
Psychiatry	Psychiatric	1	Cognitive	Classify different
	dosorders in			psychiatric disorders in
	pregnancy and			pregnancy and
	puerperium			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
				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

### Total hours of different subjects in the cognitive domain

S. No	Subject	Hours allocated	
1	Medicine	13	
2	Gynaecology	14	
3	Surgery	04	
4	Pediatrics	04	
5	Psychiatry	01	
6	Nephrology	01	
7	Family medicine	03	
	Total	40 hours	