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

Total Weeks: 04

Central Curriculum Committee, Khyber Medical University

Prepared by

Reviewed 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 / sł	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
			Cognitive	approach and treatment of a patient with Diabetes insipidus
Pediatrics	Short stature Theme-2: Neck	1 swelling	Cogititive and muscle cram	Discuss the diagnostic approach and management of a child with short stature
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
		1	Cogititive	Explain the diagnsotic
				approach, and
				management of a patient
				with solitary thyroid
				nodule
			Psychomotor	Perform thyroid
				examination
Pediatrics	Thyroid	1	Cogititive	Explain the neonatal
	disorders			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: Exc	cessive thi	rst and urination	1
Medicine	Diabetes	1	Cogititive	Explain the diagnsotic
	Mellitus			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

	management			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	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
			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	ce 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: Pr	egnancy a	nd breast feeding	3
Gynaecology	Obstetrics history		Psychomotor	Take an obstetric history
and Obstetrics	and examination			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	
		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	1	Cognitive	Explain the methods of
wellbeing			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

			diangosis
Antenatal maternal	1	Cognitive	Discuss musculoskeletal,
and obstetric			gastroenterological and
complications			hematological 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,
			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	Hypertensive	1	Cognitive	Classify hypertension in
medicine/	disorders in			pregnancy and disorders
Obstetrics	pregnancy			of hypertension in
				pregnancy
			Cognitive	Discuss the diagnostic
				approach, management,
				complications and
				prevention of Pre-
				eclampsia and Eclampsia
Family	Diabetes mellitus	1	Cognitive	Explain the management
medicine/	and pregnancy			of a pregnant lady with
Obstetrics				gestational DM and overt
				DM
Obstetrics	Perinatal infections	1	Cognitive	Classify pernatal
				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 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 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	Perform a Clinical breast
	Skills	examination by all
		techniques including
		"radial wagon wheel" and
		"spoke" method
	Affective	Counsel a patient with
	domain	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