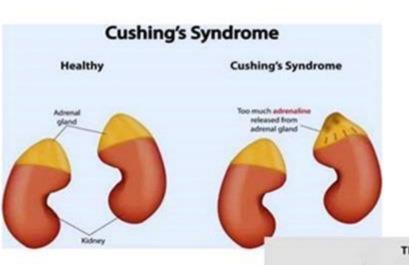
STUDY GUIDE- FOURTH YEAR MBBS

14th July - 9th August 2025

Duration: 4 Weeks

ENDOCRINE MODULE II





Thyroid gland









Papillary thyroid cancer cells

STUDY GUIDE FOR ENDOCRINE 2 MODULE

S.No	CONTENTS	Page No.
1	Overview	3
2	Introduction to Study Guide	4
3	Learning Methodologies	5
4	Module: Endocrine 2	
4.1	Introduction	6
4.2	Objectives and Learning Strategies	7
5	Learning Resources	15
6	Assessment Methods	16
7	LNMC Examination Rules and Regulations	17
8	Schedule	18

Module name: Endocrine System-II Year: Four Duration: 4 weeks (14th July-9th Aug. 2025)

Timetable hours: Interactive Lectures, Case-Based Learning (CBL), Clinical Rotations, Tutorials, Skills, Practicals, Self-Directed Learning

MODULE INTEGRATED COMMITTEE

MODULE COORDINATOR:	Dr. Ali Asghar (Endocrinology)
CO-COORDINATOR:	Dr. Yusra Nasir (DHPE)

DEPARTMENTS & RESOURCE PERSONS FACILITATING LEARNING

BASIC HEALTH SCIENCES	CLINICAL AND ANCILLARY DEPARTMENTS	
COMMUNITY MEDICINE • Dr. Saima Zainab	ENDOCRINOLOGY • Dr. Aqiba Sarfraz	
PATHOLOGY • Professor Naveen Faridi	NEUROSURGERY ● Professor Salman Yousuf Sharif	
PHARMACOLOGYProfessor Tabassum Zehra	PEDIATRICSProfessor Mehnaz Atiq Ahmed	
• Dr. Faisal Siddiqui	• Professor Muhammad Ayub Mansoor	
DEPARTMENT of HEALTH PROFESSIONS EDUCATION		
 Professor Nighat Huda Professor Sobia Ali Dr. Afifa Tabassum 		
Dr. Yusra Nasir Dr. Haya Noor	 Dr. Syed Asad Sibtain 	
LNH&MC MANAGEMENT		
 Professor K.U. Makki, Principal LNH& MC Dr. Shaheena Akbani, Director A.A & R.T LNH&MC 		
Department of Health Professions Education		

INTRODUCTION

WHAT IS A STUDY GUIDE?

It is an aid to:

- Inform students how the student learning program of the module has been organized
- Help students organize and manage their studies throughout the module
- Guide students on assessment methods, rules, and regulations

THE STUDY GUIDE:

- Communicates information on the organization and management of the module. This will help the student to contact the right person in case of any difficulty.
- Define the objectives which are expected to be achieved at the end of the module.
- Identify the learning strategies such as lectures, small group teachings, clinical skills, demonstration,
 tutorial, and case-based learning that will be implemented to achieve the module objectives.
- Provide a list of learning resources such as books, computer-assisted learning programs, web- links, and
 journals, for students to consult to maximize their learning.
- Highlights information on the contribution of continuous on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's Achievement of objectives.
- Focus on information about examination policy, rules, and regulations.

INTEGRATED CURRICULUM comprises system-based modules such as Eye/ENT, Orthopedics, Dermatology, Genetics, and Reproductive System-II which links basic science knowledge to clinical problems. Integrated teaching means that subjects are presented as a meaningful whole. Students will be able to better understand basic sciences when they repeatedly learn about clinical examples.

LEARNING EXPERIENCES: Case-based integrated discussions, Task-oriented learning followed by task presentation, skills acquisition in skills lab, computer-based assignments, and learning experiences in clinics, and wards.

LEARNING METHODOLOGIES

The following teaching/learning methods are used to promote better understanding:

- Interactive Lectures
- Small Group Discussion
- Case- Based Learning (CBL)
- Clinical Experiences
- Clinical Rotations
- Practicals
- Skills session
- Self-Directed Learning

INTERACTIVE LECTURES: In large groups, the lecturer introduces a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients' interviews, exercises, etc. Students are actively involved in the learning process.

SMALL GROUP SESSION: This format helps students to clarify concepts, acquire skills or desired attitudes. Sessions are structured with the help of specific exercises such as patient cases, interviews, or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials, and self-study. The facilitator asks probing questions, summarizes, or rephrases to help clarify concepts.

CASE-BASED LEARNING (CBL): A small group discussion format where learning is focused on a series of questions based on a clinical scenario. Students discuss and answer the questions by applying relevant knowledge gained previously in clinical and basic health sciences during the module and construct new knowledge. The CBD will be provided by the concerned department.

CLINICAL LEARNING EXPERIENCES: In small groups, students observe patients with signs and symptoms in hospital wards, clinics, and outreach centers. This helps students relate knowledge of the module's basic and clinical sciences and prepare for future practice.

o **CLINICAL ROTATIONS:** In small groups, students rotate in different wards like Medicine, Pediatrics, Surgery, Obs & Gyne, ENT, Eye, Family Medicine clinics, outreach centers & Community Medicine experiences. Here students observe patients, take histories and perform supervised clinical examinations in outpatient and inpatient settings. They also get an opportunity to observe medical personnel working as a team. These rotations help students relate basic medical and clinical knowledge in diverse clinical areas.

PRACTICAL: Basic science practicals related to pharmacology, microbiology, forensic medicine, and community medicine have been scheduled for student learning.

SKILLSSESSION: Skills relevant to the respective module are observed and practiced where applicable in the simulated learning environment such as a skills laboratory.

SELF-DIRECTED LEARNING: Students assume responsibilities for their learning through individual study, sharing and discussing with peers, and seeking information from Learning Resource Center, teachers, and resource persons within and outside the college. Students can utilize the time within the college's scheduled hours of self-study.

MODULE: ENDOCRINE 2

INTRODUCTION

The endocrine system is made up of glands that produce and secrete hormones, chemical substances produced in the body that regulate the activity of cells or organs. These hormones regulate the body's growth, metabolism (the physical and chemical processes of the body), and sexual development and function. The hormones are released into the bloodstream and may affect one or several organs throughout the body. The major glands of the endocrine system are the hypothalamus, pituitary, thyroid, parathyroid, adrenals, pineal body, and the reproductive organs (ovaries and testes)

MODULE OBJECTIVES AND STRATEGIES

By the end of the Endocrine 2 module students should be able to:

COMMUNITY MEDICINE

	TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. [Diabetes Mellitus (DM) & its prevention	
•	Describe Diabetes mellitus	
•	Discuss the epidemiology of Diabetes Mellitus	Interactive Lecture/SDL
•	Explain the risk factors and complications of DM	Eccture/ 3DE
•	Discuss preventive measures for Diabetes Mellitus	
2. 1	odine deficiency disorders & their prevention	
•	Describe iodine deficiency	
	Explain the effects of iodine deficiency	Interactive Lecture
•	Discuss the preventive measures for iodine deficiency	Lecture
	Explain the fortification of iodine in food	
3. (Obesity & its prevention	
	Describe Obesity	
	Discuss the epidemiology of Obesity	Tutorial
	Enumerate the different methods to measure Obesity	
	Explain control measures for Obesity	
4. 1		
dise	Define non-communicable diseases (NCDs) and differentiate them from communicable eases	
	Identify the four major types of NCDs	Tutorial
	Explain the risk factors for NCDs	
	Discuss the prevention and control strategies for NCDs	
	Describe the impact of NCDs on global health	
	Analyze the role of public health interventions in addressing the NCD epidemic	
	Describe the effectiveness of different NCD prevention programs	
5. N	Metabolic Syndrome in South Asia:	
	Describe Metabolic Syndrome and its associated risk factors	Tutorial
	Identify the diagnostic criteria for metabolic syndrome	
	Recognize the potential complications of metabolic syndrome	

	Identify effective strategies for the prevention and management of Metabolic syndrome	
6. Leadership- Health Management		
	Describe management	Interactive
	Explain the elements of management	Lecture
	Describe the Scalar Principle	
	Describe Health care quality	

ENDOCRINOLOGY

1. Hypopituitarism Discuss etiology, pathophysiology, risk factors, and clinical features List the differential diagnoses. Discuss the plan of management for the condition 2. Hyperpituitarism and Acromegaly Discuss etiology, pathophysiology, risk factors, and clinical features List the differential diagnoses. Interpret the relevant investigations. Discuss the plan of management for the condition 3. Hyperthyroidism List the differential diagnoses. List the condition Explain the complications of the condition 4. Hypothyroidism Interactive Interactive Interactive Interactive Interactive
 List the differential diagnoses. Interpret the relevant investigations. Discuss the plan of management for the condition Hyperpituitarism and Acromegaly Discuss etiology, pathophysiology, risk factors, and clinical features List the differential diagnoses. Interpret the relevant investigations. Discuss the plan of management for the condition Hyperthyroidism List the differential diagnoses. Interpret the relevant investigations, and clinical features List the differential diagnoses. Interpret the relevant investigations. Discuss the plan of management for the condition Explain the complications of the condition Hypothyroidism
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2. Hyperpituitarism and Acromegaly Discuss etiology, pathophysiology, risk factors, and clinical features List the differential diagnoses. Interpret the relevant investigations. Discuss the plan of management for the condition 3. Hyperthyroidism Discuss etiology, pathophysiology, risk factors, and clinical features List the differential diagnoses. Interpret the relevant investigations. Discuss the plan of management for the condition Explain the complications of the condition 4. Hypothyroidism
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Explain the complications of the condition 4. Hypothyroidism
4. Hypothyroidism
· Discuss etiology, pathophysiology, risk factors, and clinical features Interactive
· List the differential diagnoses.
· Interpret the relevant investigations.
· Discuss the plan of management for the condition
· Explain the complications of the condition
5. Cushing's Syndrome
· Discuss etiology, pathophysiology, risk factors, and clinical features

4TH YEAR MBBS ENDOCRINE MODULE 2

· List the differential diagnoses.	Interactive
· Interpret the relevant investigations.	Lecture
· Discuss the plan of management for the condition	
· Explain the complications of the condition	
6. Addison's disease	Interactive
· Discuss etiology, pathophysiology, risk factors, and clinical features	Lecture
· List the differential diagnoses.	
· Interpret the relevant investigations.	
· Discuss the plan of management for the condition	
· Explain the complications of the condition	
7. Diabetes Mellitus	Interactive
· Discuss etiology, pathophysiology, risk factors, and clinical features	Lecture
· List the differential diagnoses.	
· Interpret the relevant investigations.	
· Discuss the plan of management for the condition	

PATHOLOGY

	TOPICS & OBJECTIVES	LEARNING STRATEGIES	
1. (1. Overview of pituitary pathology		
	Discuss the pituitary gland function and hormone secretion		
	Discuss the hypothalamus-pituitary axis	latana atina la atoma	
•	Discuss the clinical manifestations of Pituitary diseases	Interactive Lecture	
•	Discuss the etiology, clinical manifestations of hypopituitarism		
	Discuss the posterior pituitary syndrome including Diabetes Insipidus & SIADH		
2. 1	Tumors of Pituitary		
•	Classify anterior pituitary tumors.		
	Discuss the etiology, genetic alterations, morphology, and clinical manifestations of different types of adenomas	Tutorial	
•	Discuss Hypothalamic suprasellar tumors		
3. I	Hyperthyroidism, Graves' disease & Goiter		
•	Define hyperthyroidism & thyrotoxicosis	Interactive	
•	Discuss important causes of thyrotoxicosis	Lecture / Tutorial/	
•	Classify disorders associated with thyrotoxicosis	SDL	
•	Discuss clinical features and lab diagnosis of thyrotoxicosis		

	Define Graves' disease	
•	Discuss the pathogenesis, morphology, and clinical course of Graves disease	
. 1	Define Goiters	
. (Classify Goiters	
	Discuss the etiology, pathogenesis, and clinical aspects of diffuse and multinodular goiters	
4. Hy	pothyroidism & Thyroiditis	
. 1	Define hypothyroidism	Interactive
• 1	Discuss congenital, autoimmune, and iatrogenic hypothyroidism	Lecture/SDL
	Differentiate between cretinism & myxedema about etiology, pathogenesis, clinical features, & lab diagnosis	
•	Define thyroiditis and list different types of thyroiditis	
	Discuss the etiology, pathophysiology, morphology & clinical features of various types of clinically significant thyroiditis	
5. Tui	mors of Thyroid gland	
	Classify Thyroid tumors	Interactive Lecture
	Discuss the etiology, pathogenesis, genetic alterations, morphology, and diagnostic features of follicular, papillary, anaplastic, and medullary thyroid carcinomas	
6. Pat	thology of Parathyroid gland	
•	Discuss the functions of the parathyroid gland	Interactive Lecture
	Discuss primary hyperparathyroidism concerning parathyroid adenoma, primary hyperplasia, and parathyroid carcinoma	/ SDL
	Discuss the causes, pathogenesis, morphology, and clinical features of primary hyperparathyroidism	
.	Discuss the causes of hypercalcemia about parathyroid levels	
. 1	Discuss the diagnostic features of asymptomatic and symptomatic hyperparathyroidism	
	Discuss the causes, pathogenesis, morphology, and clinical features of secondary hyperparathyroidism	
7. Pat	thogenesis of Diabetes Mellitus (DM)	
	Define Diabetes Mellitus (DM)	Interactive Lecture / SDL
. (Classify DM	,
• 1	Discuss the diagnostic criteria of type I & II Diabetes Mellitus	
·	Differentiate between salient features of type I & II Diabetes Mellitus	
. 1	Discuss glucose homeostasis & regulation of insulin release	
	Explain the pathogenesis of Type I & type II diabetes, related to beta cell dysfunction, genetic susceptibility, environmental factors	
. 1	Discuss Diabetes in pregnancy	
8. Dia	abetes Mellitus: Pathogenesis of complications	

 Discuss the morphology & clinical features of type I & II Diabetes including classic triad chronic manifestations 	& Interactive Lecture/ Tutorial/ SDL
· Elaborate the acute metabolic complications & Ketoacidosis.	
 Explain the morphology and clinical features of chronic complications of Diabetes, includes lesions of the Pancreas, diabetic macro vascular disease, diabetic microangiopathy, nephropathy, neuropathy, diabetic ocular complications & susceptibility to infections 	uding
9. Adrenal gland- I	
· Discuss the function and hormone secretion of the adrenal cortex and medulla	
Discuss the etiology, pathophysiology, and histopathology of hypercortisolism, hyperaldosteronism, adrenal adenoma	
· Discuss adrenogenital syndrome	Case-Based
10. Adrenal gland- II	Learning/ Tutorial/
 Discuss the etiology, pathophysiology, and histopathology of adrenocortical insufficien including Primary acute adrenocortical insufficiency, Waterhouse-Friderichsen syndror Addison disease & secondary adrenocortical insufficiency. 	cy Interactive Lecture
 Discuss pathogenesis, morphology, and clinical presentation of tumors of adrenal corte adrenal medulla. 	ex and
· Discuss MEN syndrome Type I & Type II	
11. Histopathology of Thyroid	
 Discuss morphological aspects of different types of goiters, cretinism, myxedema, thyrotoxicosis, Graves' disease, thyroiditis. 	Tutorial
Discuss Histopathology of Pituitary tumors and Thyroid tumors	
12. Lab evaluation of endocrine diseases	SDL
 Interpret the lab tests associated with diseases of the Hypothalamus, Thyroid, Parathyro Pancreas and adrenal glands 	id,
13. Hypopituitarism	Interactive Lecture
· Discuss the clinical manifestation of pituitary diseases	/ SDL

PEDIATRICS

	TOPICS & OBJECTIVES	LEARNING STRATEGIES	
1.	Diabetes Mellitus (DM) & Diabetic Keto Acidosis (DK)		
	List the causes of diabetes mellitus in infants and children	Interactive	
	Describe the etiology, risk factors, signs and symptoms, investigations, management, and complications of DM in infants and children	Lecture/SDL	
2.	2. Hypo & hyperthyroidism		
•	Describe the etiology, clinical presentation, investigations, management, and complications of hyperthyroidism and hypothyroidism in infants and children	Lecture	

3. Short stature & stunting		Interactive
	· Define short stature and stunting	Lecture /
	 Describe the etiology, risk factors, signs and symptoms, investigations, management, and complications of short stature and stunting 	CaseBased Learning

PHARMACOLOGY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Pharmacology of Hypothalamic and Pituitary hormones	
· Discuss the basic & clinical aspects of the relevant drugs, leading to clarification of the concepts	Tutorial
2. Drugs used to treat hyper and hypothyroidism	
· Classify anti-thyroid drugs.	
· Discuss basic & clinical pharmacology of the anti-thyroid drugs	
· Explain the kinetics & dynamics of the drugs used to treat hypothyroidism	Interactive Lecture
. Discuss oral hypoglycemic drugs & Insulin preparation	/SDL
3. Pharmacology of Adrenocorticoids	
· Classify corticosteroids	
· Explain their functions	Interactive
· Distinguish kinetics and dynamics of glucocorticoids and mineralocorticoids	Lecture/ Tutorial
· Discuss their inhibitors of glucocorticoids and mineralocorticoids	
· Discuss the basic & clinical aspects of the relevant drugs	
4. Pharmacology of Oral Anti-Diabetic Drugs	
· Classify Anti-Diabetic drugs	Interactive Lecture /SDL
· Explain the basic & clinical pharmacology of the Anti-Diabetic drugs	7302
5. Insulin preparations	Interactive Lecture
· Discuss basic and clinical pharmacology of insulin preparations including new ones	/SDL

SURGERY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Benign Thyroid Disorders (Hyperthyrodism, Hypothyroidism, Thyroiditis)	
· Describe the surgical Anatomy of the Thyroid Gland	Interactive Lecture
· Discuss in detail the classification and clinical presentations of the conditions	Eccture

· Suggest the diagnostic modalities for these conditions		
· Discuss the treatment options, common complications and prognoses		
2. Parathyroid diseases		
· Describe the surgical Anatomy of the Parathyroid Gland		
· Classify Benign Parathyroid conditions	Interactive	
\cdot Differentiate among the etiology, clinical features, investigations and treatment plans for the types of Hyper-Parathyrodisms	Lecture	
· Describe the etiology, clinical features, pathophysiology, investigations and treatment plans for: i. Hypo-Parathyrodism ii. Multiple Endocrine Neoplasia syndrome iii. Parathyroid carcinoma		
3. Diseases of Adrenal Glands		
· Describe the surgical Anatomy of the Adrenal Gland		
· Differentiate among the etiology, clinical features, investigations and treatment plans for conditions of the Adrenal Cortex (Incidentaloma, Primary hyperaldosteronism – Conn's syndrome, Cushing's syndrome, Adrenocortical carcinoma, Congenital adrenal hyperplasia, Adrenal insufficiency)	Interactive Lecture	
· Differentiate among the etiology, clinical features, investigations and treatment plans for conditions of the Adrenal Medulla (Pheochromocytoma and paraganglioma, Neuroblastoma, Ganglioneuroma)		

NEUROSURGERY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
Surgical Management of Pituitary Tumors	
· Describe the indication of surgery and different surgical techniques	
· Discuss Pre & post-management of pituitary surgery	Interactive Lecture
· Describe complications related to pituitary surgery	interactive Lecture

RADIOLOGY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
Endocrine Imaging	Interactive
· Discuss Endocrine Imaging	Lecture

CLINICAL SKILLS

TOPICS & OBJECTIVES	LEARNING STRATEGIES
· General Physical Examination	
· Interpretation of investigations related to benign Endocrine conditions	Skills session
· Professional behaviour	
· Relevant history taking	
· Thyroid Examination	

Apart from attending daily scheduled sessions, students too should engage in self-study to ensure that all the objectives are covered



LEARNING RESOURCES

SUBJECT	RESOURCES
ENDOCRINOLOGY	TEXTBOOKS 1. Davidson's Principles and Practice of Medicine 2. Kumar and Clark's Clinical Medicine, Edited by Parveen Kumar, 9th Edition
COMMUNITY MEDICINE	1. Community Medicine by Parikh 2. Community Medicine by M Ilyas 3. Basic <i>Statistics</i> for the Health Sciences by Jan W Kuzma
PEDIATRICS	 Nelson Textbook of Pediatrics, 19th Edition Textbook of Pediatrics by PPA, preface written by S. M. Haneef Clinical Pediatrics by Lakshmanaswamy Aruchamy, 3rd Edition
PATHOLOGY/MICROBIOLOGY	TEXTBOOKS 1. Robbins & Cotran, Pathologic Basis of Disease,9 th edition. 2. RapidReviewPathology,4 th edition by Edward F. Goljan MD WEBSITES: 1. http://library.med.utah.edu/WebPath/webpath.html 2. http://www.pathologyatlas.ro/

ASSESSMENT METHODS:

- Best Choice Questions(BCQs) also known as MCQs (Multiple Choice Questions)
- Objective Structured Practical/Clinical Examination (OSPE or OSCE)

Internal Evaluation

- Students will be assessed comprehensively through multiple methods.
- 20% marks of internal evaluation will be added to JSMU final exam. That 20% may include class tests, assignments, practicals, and the internal exam which will all have specific marks allocation.

Formative Assessment

Individual departments may hold quizzes or short answer questions to help students assess their learning. The marks obtained are not included in the internal evaluation

For JSMU Examination Policy, please consult the JSMU website!

More than 75% attendance is needed to sit for the internal and final examinations



LNH&MC EXAMINATION RULES & REGULATIONS

Student must report to examination hall/venue, 30 minutes before the exam.
Exam will begin sharply at the given time.
No student will be allowed to enter the examination hall after 15 minutes of scheduled
examination time.
Students must sit according to their roll numbers mentioned on the seats.
Cell phones are strictly not allowed in the examination hall.
If any student is found with a cell phone in any mode (silent, switched off, or on) he/she
will not be allowed to continue their exam.
No students will be allowed to sit in an exam without University Admit Card, LNMC
College ID Card, and Lab Coat
Students must bring the following stationary items for the exam: Pen, Pencil, Eraser, and
Sharpener.
Indiscipline in the exam hall/venue is not acceptable. Students must not possess any
written material or communicate with their fellow students.

SCHEDULE:

4 WEEKS ENDOCRINE-2 MODULE

9th August 2025

