

## Course Description Form

1. Course Name: Diabetes, Endocrinology, and Metabolism	
2. Course Code:	
3. Semester / Year: 2023-2024	
4. Description Preparation Date: 4\03\2024	
5. Available Attendance Forms: lectures and clinical sessions	
6. Number of Credit Hours (Total) / Number of Units (Total)	
36 hours	
7. Course administrator's name (mention all, if more than one name)	
Professor abbas Ali Mansour, <a href="mailto:abbas.mansour@uobasrah.edu.iq">abbas.mansour@uobasrah.edu.iq</a>	
8. Course Objectives	
<b>Course Objective</b>	<ul style="list-style-type: none"> <li>• Understand the clinical manifestations of various endocrine disorders.</li> <li>• Analytical evaluations including dynamic tests and imaging to diagnose endocrine disorders.</li> <li>• Treatment strategies for various endocrine disorders.</li> <li>• The student must acquire knowledge about common diabetes, endocrine and metabolic diseases, their emergency cases, and how to deal with them in the optimal way.</li> <li>• Introducing diabetes, endocrine and metabolic diseases, including clinical symptoms and signs and basic knowledge of medicine.</li> <li>• In addition to teaching students how to take and build a medical history</li> <li>• Review basic information about the disease entities encountered and their impact on community health.</li> <li>• Discuss methods of diagnosis, treatment and prevention of common endocrine diseases and metabolic disorders.</li> <li>• The ability to build a map of how medical information from the patient is recorded and used with clinical signs.</li> <li>• How to use the available facilities to reach a discreet approach to diagnosing and treating diseases related to diabetes, endocrinology and metabolism.</li> <li>• Creating the ability to deal with various emergency situations as a security doctor from the first day of training and developing skills in performing simple diagnostic and interventional procedures.</li> <li>• Learn how to perform an ultrasound of the thyroid and parathyroid glands and performing histological examinations for thyroid diseases.</li> </ul>

	<ul style="list-style-type: none"> <li>• Students must acquire the necessary skills and knowledge about diabetes, endocrine diseases, metabolism, and necessary emergency cases.</li> <li>• It is known by any doctor, regardless of his field of interest in the future. Therefore the student is introduced medicine, including commonly used medical terms, the environment, health, and the history of medicine in different time periods.</li> </ul>
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### 9. Teaching and Learning Strategies

<b>Strategy</b>	<ul style="list-style-type: none"> <li>• Giving theoretical lectures in person</li> <li>• The student learns how to deal with emergency cases through training in the emergency and critical cases department, internal wards, and the intensive care unit.</li> <li>• Programmed clinical training on diabetes, endocrinology and metabolism and the interactions in internal medicine departments and specialized centers for diabetes endocrinology, and metabolism.</li> <li>• Seminars on the important and most common topics in diabetes, endocrinology and metabolism</li> </ul>
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### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Identify the clinical signs and symptoms of the disease, how to diagnose, treat, potential complications, their treatment and appropriate prevention. Read the labs for diagnosis and follow-up	Diabetes pathophysiology, classification, screening, and diagnosis	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
2	1	Understand the complications, How to diagnose it and prevent And treat them	Acute complications of diabetes	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
3	1	Understand the complications. How to treat, prevent, diagnose Them	Chronic complications of diabetes	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
4	1	Understand the strategies and Modalities of diabetes treatment	Treatment of diabetes	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
5	1	Diagnose, prevent, treat GDM How to follow patients and look For complications.	Diabetes in pregnancy	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
6	1	Identify the clinical signs and symptoms of the disease, how to diagnose, treat, potential complications, their treatments	Pituitary tumors (Adenoma) and hyperprolactinemia	Lecture & Clinical case	Questions and discussion, presentation of clinical cases,

		and appropriate prevention. Read the labs for diagnosis follow-up			quick test
7	1	Diagnose and treat acromegaly	Acromegaly and non-functioning pituitary adenoma	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
8	1	Diagnosis, causes and treatment of DI and Hypopituitarism	Diabetes Insipidus and Hypopituitarism	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
9	1	Identify the clinical signs and symptoms of the disease, how to diagnose, treat, potential complications, their treatment and appropriate prevention. Read the labs for diagnosis follow-up	Investigations of thyroid diseases, a hyperthyroidism and Grave's disease	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
10	1	Diagnose and treat Thyroiditis and hypothyroidism	Thyroiditis and Hypothyroidism	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
11	1	Evaluation of thyroid nodules	Thyroid nodule and thyroid cancer	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
12	1	Physiology of the adrenal gland Diagnose Cushing's syndrome	The adrenal gland, Cushing's syndrome	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
13	1	Diagnose and emergency and Chronic treatment of adrenal Insufficiency. Diagnose and treat hyperaldosteronism	Addison's disease, and primary hyperaldosteronism	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
14	1	Diagnose and treat adrenal pheo	Pheochromocytoma, and adrenal incidentaloma	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test
15	1	Identify the clinical signs and symptoms of the disease, how to diagnose, treat, potential complications, their treatment and appropriate prevention. Read the labs for diagnosis follow-up	Pathophysiology of calcium and phosphorus homeostasis and Hyperparathyroidism	Lecture & Clinical case	Questions and discussion, presentation of clinical cases, quick test

16	1	Diagnose and hypocalcemia Causes Treat hypoparathyroidism	Hypocalcemia and hypoparathyroid	Lecture& Clinical case	Questions and discussion, presentation of clinical cases, quick test
17	2	Physiology of the gonadal axis, Causes of precocious and delayed Puberty, and treatment	The reproductive system, delayed puberty, precocious puberty, and m hypogonadism and infertility	Lecture& Clinical case	Questions and discussion, presentation of clinical cases, quick test
18	1	Evaluate and treat androgen Excess in females	Amenorrhea, hirsutism and polycys ovarian syndrome	Lecture& Clinical case	Questions and discussion, presentation of clinical cases, quick test
19	1	Hyperlipidemia causes and Treatments.	Congenital hyperlipidemia and Acquired hyperlipidemia	Lecture& Clinical case	Questions and discussion, presentation of clinical cases, quick test

### 11.Course Evaluation

- Daily evaluation during the clinical session regarding active participation and scientific discussion
- The written examination includes the best answer, multiple matching questions, and the clinical case problem in the mid- and end-of-year exams.

### 12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Davidson's Principles and Practice of Medicine 24th edition Davidson's Essentials of Medicine, 3rd Edition MacLeod practice of Medicine
Main references (sources)	Williams Textbook of Endocrinology - 14th Edition Harrison's Principles of Internal Medicine, 21
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	The endocrine society clinical practice guidelines. American Diabetes Association Standard of Care 2023 Uptodate Google Scholar ResearchGate

