Isfahan University of Medical Sciences

Course Plan

Course Title: Biochemistry of Hormones

Degree: MBBS	**Course Code:** 1131141122
Academic Year: 2026- **Term:** 4	**Classroom Location:** Shahid Soleimani Building
Course credit: 0.7 unit	**Days & hours of Class Time:** Monday 14-16 p.m.
Lecturer: Dr. Aarabi	**Email:** mh.aarabi@pharm.mui.ac.ir
Office Phone: +98313792 -7052	**Office Address:** Dept of Clinical Biochem, School of Pharmacy**, IUMS**

The General Purpose of the Course:

Introduction of structure, types, metabolism and biochemical mechanisms of action of hormones and related disorders.

The Specific Purpose of the Course*: After studying this Course, you should be able to:*

1. *Explain the basic principles of endocrine hormone action, including the determinants of hormone target cell response and the determinants of hormone concentration at target cells.*
2. *Understand the broad diversity and mechanisms of action of endocrine hormones.*
3. *Explain the complex steps involved in the production, transport, and storage of hormones*
4. *Explain the role of receptors in hormone signal transduction, particularly with regard to the generation of second messengers.*
5. Describe disorders related to each hormone.

Prerequisite:

Course materials:

Recommended Text and Lecture Notes:

1. Harper's Illustrated Biochemistry. last ed.
2. Lippincott's Illustrated Reviews: Biochemistry

Recorded lectures-Class slides, lecture notes and papers provided by lecturer

Session	Topic	Times (hours)	Lecturer:
1	Hormone Action & Signal Transduction	2	Dr. Aarabi
2	Biochemistry of Hypothalamus and Pituitary Hormone	2	Dr. Aarabi
3	Biochemistry of Adrenal Hormone (Cortex & Medulla)	2	Dr. Aarabi
4	Biochemistry of Gonadal Hormone	2	Dr. Aarabi
5	Thyroid Hormone	2	Dr. Aarabi
6	PTH, Ca/ P Metabolism	2	Dr. Aarabi
Final Exam			

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