UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Endocrinology

2627-4-H4102D029-H4102D091M

Aims

The primary goal of the course is to provide students with the pathophysiologic basis to understand the clinical and surgical semeiotics and the physiopathology of endocrine system in order to make correlations between the inner mechanisms of diseases and their clinical expression. The student will be able to interpret symptoms, signs and laboratory tests as well as imanging findings. Clinical tools to understand concepts of organ-limited disease, system involvement or systemic disease will be provided.

Contents

Hypothalamic and pituitary disease.
Thyroid diseases.
Disorders of calcium and phosphorus metabolism and parathyroid diseases.
Adrenal diseases.
Hypogonadism.

Detailed program

HYPOTHALAMIC AND PITUITARY DISEASES: Pituitary Physiology and Diagnostic Evaluation, Pituitary Masses and Tumors: non secreting and secreting (prolactin, GH, TSH, ACTH, FSH/LH), pituitary adenomas, hypopituitarism (panhypopituitarism and selective hormone deficiencies), neuropituitary diseases (diabetes insipidus, Syndrome of Inappropriate Antidiuretic Hormone Secretion) , THYROID DISEASES: Hyperthyroidism (Graves-Basedow, Plummer, multinodular goiter), hypothyroidism and thyroiditis, thyroid nodule, thyroid cancer, DISORDERS OF CALCIUM AND PHOSPHORUS METABOLISM AND PARATHYROID DISEASES: Hyperparathyroidism, Hypoparathyroidism, pseudohypoparathyroidism, Paget diseases, Osteoporosis. ADRENAL

DISEASES: Sindrome di Cushing, Addison’s Disease, hyperaldosteronism, pheochromocytoma/paraganglioma and endocrine hypertension. REPRODUCTION: Physiology and Pathology of the Female Reproductive Axis, Hormonal Contraception, Testicular Disorders, Sexual Dysfunction in Men and Women MULTIPLE ENDOCRINE NEOPLASIA: MEN1, MEN2A, MEN2B.

Prerequisites

Basic skills in anatomy, biochemistry and physiology.

Teaching form

- Frontal lessons
- Description and analysis with discussion of clinical cases

All the course activities will be held in English

Textbook and teaching resource

- Harrison’s Principles pf Internal Medicine 21th Edition 2022, McGraw-Hill
- Greenspan's Basic and Clinical Endocrinology, Tenth Edition 2017, McGraw-Hill
- UpToDate

Semester

Second semester

Assessment method

- Multiple choice test comprising 3 questions with only one correct answer (among 4/5) aimed at evaluating global comprehension of course program. Each correct answer is scored 1.
- Oral examination on the topics covered during the lectures, discussion on clinical problem solving and clinical case analysis
- All assessments will be done in English language

Office hours

Monday, Tuesday, Friday 9.00-11.00 a.m.
To get an appointment, please contact the teacher by e-mail: roberto.trevisan@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY