UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Advances in Metabolic Bone Diseases

2122-3-H4102D093

Aims

The purpose of the course is to deepen the knowledge on osteoporosis and other common disorders of phospho-calcium metabolism learned in the basic course of endocrinology. Alongside a review of elements of physiology and pathophysiology, students will be provided with the tools, used in clinical practice, for a greater understanding of the differential diagnosis between pathologies that can occur in bone and phospho-calcium metabolism.

Contents

Osteoporosis and others most common phospho-calcium disorder

Detailed program

Insights related to osteoporosis: diagnosis of osteoporosis; distinction between primary and secondary osteoporosis; differential diagnosis between fractures: related to fragility, trauma, or secondary to metastatic localization; densitometry: interpretation and pitfalls. Overview of other common phospho-calcium metabolism disorders: osteomalacia; hyper/hypoparathyroidism; hypophosphatemia; hypomagnesemia.

Prerequisites

Propaedeutic skills

Teaching form

- Frontal lectures
- Clinical case description and analysis

In the event of pandemic emergency period, the lectures and clinical case/problem discussions will be held remotely by synchronous online videoconference or recorded video lectures available on demand

All course activities will be held in English language

Textbook and teaching resource

- Harrison’s Principles pf Internal Medicine 20th Edition 2018, McGraw-Hill

- Greenspan's Basic and Clinical Endocrinology, Tenth Edition 2017, McGraw-Hill

Semester

Assessment method

- Multiple choice test with only one correct answer 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

To get an appointment, please contact the teachers by e-mail:

Prof. Roberto Trevisan, e-mail roberto.trevisan@unimib.it

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