

Master's Degree in Dentistry and Dental Prosthetics 2023/2024

Teaching: Internal Medicine

Scientific Disciplinary Sector: MED/09

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Number of University Educational Credits (CFU): 8

Professors:

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PREREQUISITES

It is desirable that the student has a good knowledge of basic medical sciences.

LEARNING OBJECTIVES

The Internal Medicine teaching intends to provide knowledge on the pathophysiological and clinical aspects of the main internal diseases with reference to potentially intersectable problems with dental diseases.

The aim is to allow the acquisition of fundamental semeiological and methodological knowledge that allows the correct clinical interpretation of symptoms and signs of disease and the setting of the correct diagnostic-therapeutic path. Knowledge of the etiopathogenesis, physiopathology and clinic and elements of differential diagnosis of the main internal diseases in order to evaluate the patient's general state of health and the relationships between the systemic pathology and that of the oral cavity. Clinical emergencies and the indications for their treatment in the dental practice will be provided.

LEARNING OUTCOMES

On successful completion of the course, the student should:

- have knowledge of the main concepts concerning the clinical methodology
- have profound knowledge of the most relevant diseases of respiratory and urinary systems, immuno-rheumatological disorders and emergency medicine.
- have knowledge of Guidelines System and Best Clinical Practice
- have knowledge of Gender Medicine, and basics of Digital Medicine
- understand the main clinical manifestations of the above described diseases
- have knowledge on the etio-pathological mechanisms underlying clinical pathologies
- discuss treatment plans (assessment, diagnosis, plan, implementation and evaluation) that provide safety and comfort for managing patients with internal medicine disorders in the dental environment
- gain knowledge about the current evidence-based recommendations for the purpose of the best management in safety of patients with internal medicine disorders while providing invasive dental procedures.

At the end of the course, the student will have the essential information on the most relevant pathologies of Internal Medicine, with particular attention to those of interest in clinical dentistry practice. Furthermore, the student will know how to manage clinical emergencies that could occur

in dental practice.

Knowledge and Understanding

The aim of this module is to provide students with up-to-date knowledge of the fundamentals of Internal Medicine and Medical Emergencies: the student will acquire theoretical and practical notions for the classification and correct management of patient with multi-system disease processes in the dental setting.

Applying Knowledge and Understanding

The goal of the Internal Medicine module is to provide the student with clinical skills, the foundation of clinical method, together with the basic knowledge of the discipline. The student will develop the ability to conduct a correct clinical observation, obtain adequate anamnestic information and carry out a basic assessment of the patient, in particular in relation to oral health. The student should develop the ability to apply the principles of clinical reasoning, establish an adequate and correct diagnostic path, understand and interpret the diagnostic results, in order to correctly define the nature of a clinical problem and plan a correct intervention strategy.

Communication Skills

The student will have good listening skills in collecting and synthesizing information relevant to the clinical problem and reconstructing an adequate clinical history.

She/He will be able to use competent and adequate language. She/He will be able to communicate with patients and their relatives in a clear and unambiguous way, enabling them to share decisions as an equal partner. She/He will be able to collect and maintain good medical records. She/He will demonstrate sensitivity and respect towards the patient's opinion, understanding the emotional and cultural aspects. She/He will demonstrate the ability to collect, analyze and present clinical and research data.

Making Judgements

On successful completion of this module the student should:

- have an updated knowledge of the issues concerning Internal Medicine
- will be able to autonomously develop the logical procedures and strategies that allow to apply the clinical method
- will be able to synthesize and correlate the various topics and to critically use her/his knowledge to set up a correct diagnostic-therapeutic path even in conditions of fragility and co-morbidity.

Learning skills

At the end of the module the student:

- will have acquired skills and learning methods suitable for the deepening and improvement of their knowledge in the field of Internal Medicine
- will have developed the ability to deepen the topics also through the consultation of scientific literature

- will be able to collect, organize and correctly interpret the scientific literature, from the various available resources and databases, to understand and / or find solutions to clinical problems
- will be able to respond with personal commitment to the need for continuous professional improvement in the awareness of personal limits, including those of her/his medical knowledge.

COURSE SYLLABUS

Semiotics and clinical methodology (Anamnesis, general physical examination, the laboratory and instrumental diagnostics).

Cardinal manifestations and presentation of diseases.

- Diseases of the Respiratory System
- Diseases of the Kidney and Urinary Tract
- Diseases of the immune system, connective tissue and rheumatology
- Allergies
- Nutritional disorders
- Emergencies in Medicine
- Fundamentals of Digital Medicine
- Fundamentals of Gender Medicine (from pathophysiology to clinic, diagnosis and therapy)
- Guidelines: the National Guidelines System

COURSE STRUCTURE

Frontal lessons (80 hours). Powerpoint files, videos and animations can be used. Interactive lessons with group work. Possible ongoing tests.

COURSE GRADE DETERMINATION

The acquisition of the expected learning outcomes is verified through an oral test.

The oral test will consist of an interview on the topics covered by the course, the discussion of clinical cases and diagnostic tests.

The end-of-course exam aims to evaluate the achievement of the educational objectives indicated above, as well as to ascertain the ability to understand and explain concepts with language properties. The knowledge acquired on the pathophysiological and clinical basis of diseases, the capacity for clinical reasoning, the capacity for diagnostic orientation and the development of a treatment plan will be evaluated.

Overall, the exam will be evaluated according to the following criteria:

- **Unsuitable:** Poor or lacking knowledge and understanding of the topics; limited capacity for analysis and synthesis, frequent generalisations of the required contents; inability to use technical language.
- **18-20:** Just enough knowledge and understanding of topics, with obvious imperfections; just sufficient capacity for analysis, synthesis and independent judgement; poor ability to use technical language.
- **21-23:** Sufficient knowledge and understanding of topics; sufficient capacity for analysis and

synthesis with the ability to logically and coherently argue the required contents; sufficient ability to use technical language.

- **24-26:** Fair knowledge and understanding of the topics; discrete capacity for analysis and synthesis with the ability to rigorously argue the required contents; Good ability to use technical language.
- **27-29:** Good knowledge and understanding of required content; good capacity for analysis and synthesis with the ability to rigorously argue the required contents; good ability to use technical language.
- **30-30L:** Excellent level of knowledge and understanding of the requested contents with an excellent capacity for analysis and synthesis with the ability to argue the requested contents in a rigorous, innovative and original way; Excellent ability to use technical language.

READING MATERIALS

- Harrison's Principi di Medicina Interna 20a Edizione 2021
- Harrison's Principles of Internal Medicine 21st Ed 2022
- Rugarli Medicina Interna Sistemica 8a Edizione 2021
- Sesti et al. Manuale di Semeiotica Medica EDRA Ed. 2022