

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

Integrated Teaching: Oral Pathology and Medicine Teaching

Scientific Disciplinary Sectors: MED/35, MED/08, MED/28

Responsible Professor: Prof. Angela Carlino; e-mail: angela.carlino@unicamillus.org

Number of University Educational Credits (CFU): 20

Module: Pathological Anatomy

Scientific Disciplinary Sector: MED/08

Number of University Educational Credits (CFU): 6

Professors:

- Prof. Carlino Angela (3 CFU); e-mail: angela.carlino@unicamillus.org
- Prof. [Alò Piero Luigi](mailto:pieroluigi.alo@unicamillus.org) (3 CFU); e-mail: pieroluigi.alo@unicamillus.org

Module: Dermatology

Scientific Disciplinary Sector: MED/35

Number of University Educational Credits (CFU): 2

Professor: Prof. [Massimo Gravante](mailto:massimo.gravante@unicamillus.org); e-mail: massimo.gravante@unicamillus.org

Module: Odontostomatological special pathology

Scientific Disciplinary Sector: MED/28

Number of University Educational Credits (CFU): 6

Professors:

- Prof. Ugo Covani (4 CFU); e-mail: ugo.covani@unicamillus.org; covani@covani.it
- Prof. Pistilli Roberto (2 CFU); e-mail: roberto.pistilli@unicamillus.org; r_pistilli@libero.it

Module: Professional Training Activities (in hospital facilities operating in close collaboration with UniCamillus)

Scientific Disciplinary Sector: MED/28

Number of University Educational Credits (CFU): 6

PREREQUISITES

Although there is no prerequisite, basic concepts of anatomy, embryology, histology, cytology, physiology, microbiology, genetics and general pathology.

LEARNING OBJECTIVES

The main educational objectives of this course are the understanding of macroscopic and microscopic pathological anatomy, accompanied by knowledge of the molecular genetics of neoplastic and non-neoplastic diseases that are relevant to the professional profile of the degree program. The student will be guided in identifying, evaluating, and distinguishing elementary lesions of the skin and oral cavity. The student will also be acquainted with the most modern diagnostic techniques to enable a critical diagnosis of pathological conditions, utilizing histopathological correlations.

LEARNING OUTCOMES

At the end of the course, the student will be able to:

- Know and identify elementary lesions of the skin and oral cavity.
- Know how to take biological samples.
- know the natural history of skin and mucous diseases.
- know how infectious diseases are transmitted and prevented.
- know the possibilities of prevention and early diagnosis
- understand an anatomo-pathological and molecular report in order to direct a patient towards the most appropriate therapy;
- utilize the acquired knowledge for independent exploration of aspects related to the specific field that the student will dedicate themselves to within their professional activity.

Knowledge and understanding

Know how to understand and identify the main lesions of the oral cavity and their possible treatment. Know how to manage the main pathologies complicating and complicating dental treatment. Knowledge of diagnostic techniques.

Applying Knowledge and understanding

At the end of the course the student will be able to:

- Use the acquired knowledge for the autonomous deepening of aspects related to the specific field to which the student will dedicate himself in the professional activity.

Communication skills

Provide the student with the ability to clearly and unambiguously communicate their conclusions, as well as the knowledge and rationale behind them, to specialist and non-specialist interlocutors.

Making judgements

Provide the student with the ability to integrate knowledge and manage complexity, as well as to make judgements based on limited or incomplete information in complex clinical cases concerning oral pathology and the management of the frail patient, including reflection on the professional and ethical responsibilities related to the application of their knowledge and judgements

Learning skills

Ability to apply a method of study and learning that will be adequate to explore the course topics with a high degree of autonomy.

COURSE SYLLABUS

Pathological Anatomy

- Pathological anatomy, medical science.
- Knowledge of pathological anatomy laboratory.
- Pre-analysis of histo- and cytological samples. Collection, fixation, embedding, cutting, staining.
- Role of immunohistochemistry and molecular genetics
- Blood vessels (aneurysms, vasculitis, arteriosclerosis, congenital malformations).



- Oral skin and mucous membranes (pigmentation disorders, nevi, melanomas).
- Benign and malignant epithelial tumours of the oral skin and mucosa.
- Pre-neoplastic processes of the oral mucosa. Inflammatory processes of the oral mucosa.
- Lymphomas.
- Oral cavity: diseases of the teeth and supporting structures. Caries, gingivitis, periodontitis.
- Inflammatory and reactive lesions.
- Cancerous and pre-cancerous lesions.
- Cysts and odontogenic tumours.
- Salivary glands.
- Sialoadenitis and benign and malignant tumours.
- Mesenchymal neoplasms of the oral cavity (vessels, nerves, connective and adipose tissue).
- Cytological, histological and molecular diagnostics.
- Medical record and autopsy findings. Overview of mortuary regulations.

Dermatology

- Anatomy and functions of the skin and mucous membranes.
- Elementary injuries.
- Autoimmune diseases of skin and mucous membranes:
 - lichen planus and lichenoid reactions: contact, drug, connective tissue disease.
 - pemphigoids
 - il pemphigus
 - erythema multiforme and related syndromes.
- Cutaneous-mucosal pathologies immunologically determined in the course of systemic diseases:
 - dermatitis herpetiformis
 - GVHD
 - paraneoplastic bullous mucositis.
- Oral manifestations in IBD.
 - vegetating pyostomatitis
 - Chron's m.
 - bullous mucositis.
 - Oral aphthosis, celiac disease and Behcet's disease.
- Mucositis during antineoplastic chemotherapy and radiotherapy.
- Infectious diseases of skin and mucous membranes:
 - acute and chronic candidiasis.
 - herpes simplex e zoster
 - papilloma virus: conditomas, warts and squamous papilloma.
 - In the course course of systemic infectious diseases
- Allergic and irritative contact dermatitis.
- Precancerous of the oral cavity:
 - Leukoplakia and PVL, chronic and apostematous actinic cheilitis, erythroplakia, chronic hyperplastic candidiasis, verruciformis hyperplasia and florida oral papillomatosis. The role of decubitus: ulcers and frictional keratosis.
- Precancerous conditions:



- lichen planus, sideropenie, discoid lupus erythematosus.
- Other mucous lesions from smoking:
 - reactive papillary hyperplasia, leukoedema and leukokeratosis of the palate.
- Primary and secondary epithelial malignancies of the oral cavity:
 - hints of epidemiology
 - the main risk factors and signs of carcinogenesis
 - squamous cell carcinoma: carcinoma in situ, early cancer and TNM
 - warty carcinoma, adenocarcinomas
- Nevi e melanoma

Odontostomatological special pathology

- Correlation between the anatomy and pathology of the various oro-facial districts.
- General analysis of pathologies of the oral cavity related to tissue origin.
- Inflammatory lesions of the oral cavity. Diagnosis and treatment.
- Benign and malignant neoplastic lesions of the oral cavity: differentiation, diagnosis and surgical therapy.
- Technological advances in dental pathology and maxillofacial surgery.
- Obstructive Respiratory Syndromes (OSAS). The role of the dentist.
- Orthodontic-surgical treatment of dento-skeletal malocclusions.

COURSE STRUCTURE

Teaching includes:

- 60 hours of lectures on Pathological Anatomy
- 20 hours of lectures on Dermatology
- 60 hours of lectures on special odontostomatological pathology
- 150 hours of internship in affiliated facilities.

Teaching is annual and essentially based on lectures characterised by continuous interaction between lecturers and students. Other teaching methods may include viewing of histological preparations and visits to pathological anatomy laboratories.

COURSE GRADE DETERMINATION

Evaluation

- Written test: thirty multiple-choice questions (5). Each correct answer is worth 1. Each incorrect answer is worth 0.
- Those who pass the written and not the oral retake the entire test.

Modalities of evaluation

Assessment is overall and takes into account the:

- a) Knowledge of the topics on the syllabus covered by the question
- b) Appropriateness of the answers in relation to the skills acquired
- c) Logical approach to answering questions
- d) Use of appropriate language

Unsuitable: Little or no knowledge and understanding of the topics; limited ability to analyse and

summarise, frequent generalisation of the required content; inability to use technical language.

18-20: Barely sufficient knowledge and understanding of the topics, with evident imperfections; barely sufficient capacity for analysis, synthesis and autonomy of judgement; poor ability to use technical language.

21-23: Sufficient knowledge and understanding of the topics; sufficient ability to analyse and summarise with the ability to argue the required content logically and coherently; sufficient ability to use technical language.

24-26: Fair knowledge and understanding of the topics; fair ability to analyse and summarise with the ability to rigorously argue the required content; fair ability to use technical language.

27-29: Good knowledge and understanding of the required content; good analysis and synthesis skills with the ability to rigorously argue the required content; good ability to use technical language.

30-30L: Excellent level of knowledge and understanding of the required content with an excellent ability to analyse and synthesise with the ability to argue in a rigorous, innovative and original manner; excellent ability to use technical language.

READING MATERIALS

Suggested texts:

- Robbins e Cotran: Le basi patologiche delle malattie-Edra x edizione 2021 Rubin, Kuman e Cotran: Anatomia Patologica, EMSI VII edizione
- Rubin: Anatomia Patologica, Piccin Nuova Libreria 2014
- Saurat, Lipsker, Thomas, Lacour, Naeyaert, Salomon, Brau: Dermatologia e Malattie Sessualmente Trasmesse - Edra ISBN: 9788821446030, 2018
- M. Biasotto, L. Lo Muzio, M. D. Mignogna: Patologia e medicina orale – Edra, 2022 Bibliografia di riferimento.
- Scientific articles or web seminars will be recommended to supplement the lectures and adopted texts.