

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

Integrated Course: Oral Surgery

Scientific Disciplinary Sector: MED/28

Responsible Professor: Prof. [Luca Signorini](mailto:luca.signorini@unicamillus.org); e-mail: luca.signorini@unicamillus.org

Number of University Educational Credits (CFU): 8

Module: Oral Surgery

Scientific Disciplinary Sector: MED/28

Number of University Educational Credits (CFU): 5

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

Scientific Disciplinary Sector: MED/28

Number of University Educational Credits (CFU): 3

PREREQUISITES

It is mandatory to have a deep knowledge of surgical and medical pathology, anatomy and radiology.

LEARNING OBJECTIVES

The purpose of Oral Surgery teaching is to provide the student with detailed knowledges about surgical therapy of congenital and acquired pathologies of oral cavity, maxillary and surrounding tissues. During oral surgery lessons it will be discussed asepsis and sterility principles, incisions, healing of the wounds and suturing in the oral cavity and all the local and systemic factors that can influence them. It will be explained to the student all the different kind of surgeries that can be performed including exodontic techniques and Osseo integrated implantology.

LEARNING OUTCOMES

Knowledge and understanding

At the end of the course the student will have to demonstrate:

- Knowledge of surgical anatomy of maxillo-facial area
- Knowledge of interactions between general health and systemic pathology of the patient and performance and healing of oral surgery
- Knowledge of asepsis, preparation and management of operatory room and surgical instrumentation
- Knowledge of surgical therapy of congenital and acquired pathology of the oral cavity, maxillary and surrounding tissues.
- Knowledge of incision, elevation, dissection, and suturing techniques used in oral surgery.
- Ability to perform local anesthetic techniques needed to perform oral surgery.
- Ability to perform different oral surgery operations, different techniques with advantages and disadvantages of each one.

Applying knowledge and understanding

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

- To know and recognise congenital and acquired surgical pathology of the oral cavity, maxillary and surrounding tissues.
- To understand all the instrumental examinations needed to diagnose pathologies and to plan the related surgeries.
- To know oral surgery operations and to be able to decide which technique is indicated for every pathology.
- To be able to perform oral surgery operations and local anesthetic techniques needed to do them.

Communication skills

At the end of the course students must have learned an adequate technical-scientific language to describe all the surgical pathologies and surgical operation techniques of oral surgery.

Making judgements

At the end of the course students must be able to diagnose full independently all the surgical pathologies regarding oral surgery, to perform a smeiologic examination, to interpretate the instrumental investigations and to decide when and how perform a surgery.

Learning skills

At the end of the course students must be learned a study methodology and autonomous updates, using critical evaluation of different texts and searching and evaluation of international scientific literature.

COURSE SYLLABUS

- General principles of surgery operations.
- Sterility, asepsis, general organization of the operatory room, preparation of the operatory field, instrumentation.
- Instrumental diagnostic examination for oral surgery.
- Blood tests, extra-oral and intra-oral X-ray examinations, spiral TC and cone beam
- Nuclear magnetic resonance.
- Local anesthetic techniques for oral surgery, instrumentation, medications.
- Systemic evaluation of oral surgery patient. Medical history, instrumental examinations, related systemic pathology, factors influencing the healing of surgical operation.
- Topographic anatomy applies to oral surgery. Different kind of incision, elevation, full, split and variated thickness flaps, muco-gingival surgery applied to oral surgery, soft tissues dissection, different kinds, materials and techniques of sutures.
- Venous and arterial hemorrhage, hemostatic techniques.
- Exodontic surgery. Instrumentations. Teeth extractions. Residual roots extraction. Impacted teeth extractions. Complications.
- Odontogenic abscess. Medical therapy, incision and drainage.
- Surgery of maxillary cysts and small neoplastic bone lesions

- Soft tissue surgery. Incisional and excisional biopsies. Surgery of small lesions of the tongue, lips and oral mucosa. Labial and lingual frenulectomy.
- Surgery of small calculus of salivary glands
- Endodontic surgery. Apicoectomy and retrograde filling of mono- and multi-rooted teeth. Reparation of endo-perio perforations and communications.
- Pre-orthodontic surgery. Cortectomies. Hookup and traction of impacted teeth. Positioning of orthodontic mini-screws.
- Oral Implantology. General principles of Osseo integrated implantology. Diagnostic exams and treatment planning. Different implants. Implant insertion techniques.
- Biomaterials. Biomechanics applied to dental implants. Implant surfaces. Implant connections. Bone density and its influence on healing. Post-extraction sites and post-extraction implants. Second surgery stage and uncovering. Muco-gingival surgery applied to dental implants. Immediate loading. Full-arch treatment strategies. Bone regeneration and grafting. Guided bone regeneration (G.B.R.) Bone regeneration in maxillary sinus. Complications and failures of dental implants. Implant maintenance. Digital workflow in implantology.

COURSE STRUCTURE

Oral surgery course is composed in 50 hours of lectures during which will be provided the concepts necessary for the knowledge of the subject and 75 hours of practical training in the hospital.

COURSE GRADE DETERMINATION

Verification of the expected learning objectives will be determined through a written and oral exam. The final course exam evaluates reaching of the following educational objectives:

- Knowledge of biological principles, anatomical bases and systemic involvement needed to perform oral surgery operations.
- Knowledge of diagnostic paths and diagnostic and decisional processes suitable to understand need and kind of an oral surgery operation.
- Detailed knowledge of all oral surgery techniques and how to do them.

The written test consists of about 30 multiple choice questions. Every correct answer corresponds to a score of +1, every missing answer corresponds to a score of +0 and every wrong answer corresponds to a score of -0,5. The student is allowed to accede to the oral test obtaining almost a score of 40% of the number of all the questions (For ex for 30 questions=12 points).

The oral test is finalized to verify and confirm what is reported in the written part, further to assess student's ability to understand and display all the concepts with an appropriate language,

Overall, the exam test will be evaluated according to the next criteria:

Unsuitable: Poor or lacking knowledge and understanding of the topics; limited capacity for analysis and synthesis, frequent generalizations 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 argue the required contents logically and coherently; 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/BOOKLIST

- Anatomia e chirurgia del cavo orale. Vol. 1. Anno 2019 . Autori Pistilli R, Felice P. Ed. EditaliaMedica
- Anatomia e chirurgia del cavo orale. Vol. 2 Anno 2020. Autori Pistilli R, Felice P. Ed. EditaliaMedica
- Manuale illustrato di chirurgia orale, Terza edizione. Anno 2013. Autore Chiapasco M. Ed. EDRA Masson
- Implantologia contemporanea, Terza edizione. Anno 2009. Autore Misch CE. Ed. Elsevier