



IMPLANTOLOGIA E MEDICINA DEL LAVORO

10 CFU - 2° Semester

Teaching Staff

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LEARNING OBJECTIVES

▪ PARODONTOLOGIA

To provide students with the scientific basis of contemporary implantology: indications for implant-prosthetic therapy, knowledge of the relationships between implants and biocompatibility of biomaterials. Knowledge about the biological and biomechanical response of the bone prosthetic load. Knowledge about the interface bone-implant-tooth. Knowledge related to the setting up of implant-prosthetic treatment. Principles of prosthetic guided implantology.

▪ CHIRURGIA ORALE

Provide the student with the methodological basis and the correct approach to oral surgery. The course illustrates the main oral surgical pathologies and their systematic approach. The indications and techniques of basic outpatient oral surgery procedures are treated up to the most complex

methods.

▪ **Clinical Odontostomatology**

Achieve optimal management skills odontostomatologica, medical and surgical patient with systemic diseases. Achieve optimal skills in the diagnosis, prevention and medical and surgical treatment of diseases of bone and mucous district oral-maxillofacial. Update on the use of laser and new technologies in dentistry.

Reaching and obtaining the optimal skills in the odontostomatological, medical and surgical management of patients suffering from systemic diseases. Reaching and obtaining the optimal skills in the diagnosis, prevention and medical and surgical treatment of the mucous and bone diseases of the gold-maxillofacial district.

The teaching is designed to guide and improve the student's approach to the patient with various problems, ranging from the management of the patient with an organ pathology to the patient who presents a nonspecific pathology at the level of the oral cavity or the district cranio-facial and in need of a therapy directed to the symptom, in addition to a diagnosis and a therapy aimed at the responsible pathology. In particular, the student must be able to: identify the patients to be treated in an emergency; to recognize patients suffering from systemic diseases at risk of emergency; know the basics for the control of cross-infections in dentistry.

The course is complemented by the free participation of students in local, national and international scientific events organized in the field of clinical, oncology, pathology and odontostomatological surgery and new technologies in odontostomatology.

The skills acquired will lead the student to develop a critical capacity on the topics dealt with using the competences in an active way for diagnostic and therapeutic purposes in the dental management of patients suffering from systemic diseases.

▪ **Occupational Medicine**

The aim of the course is to provide information and knowledge about workplace-related pathologies (accidents and illnesses) as well as to become familiar with prevention principles, with particular reference to risk assessment and preventive measure adoption.

Students will have to learn methods and techniques to collect work history, identify environmental and occupational risks and possible relationships with genetic, demographic, socio-economic, psychological and cultural factors, related to health or illness statuses, as well as to look into the possible non-specific effects of occupational risk factors, especially for degenerative chronic diseases.

The main etiologically diagnostic aspects of occupational medicine will be dealt with, and so will the epidemiology of con-causally work-related diseases. Also, the most frequent professional diseases and work accidents will be classified. The main analysis method and work risk assessment instruments will be provided, that is limit exposure levels, environmental/biological monitoring and healthcare surveillance. Also, occupational risk in/formation, safety and health law guidelines in work places, primary and secondary prevention of occupational diseases, role and duties of the competent physician will be discussed.

COURSE STRUCTURE

▪ **Clinical Odontostomatology**

Knowledge of the odontostomatological sciences. Knowledge of the pathogenesis and clinical aspects of the mucous and osseous diseases of the gold-maxillofacial district. Knowledge of biochemistry, anatomy, physiology, general pathology, medical and surgical pathology, pathological anatomy, pharmacology

Please see also the following link:

<https://www.unict.it/it/ateneo/lauree-magistrali-ciclo-unico-regolamenti-didattici>

▪ **Occupational Medicine**

Frontal lesson.

DETAILED COURSE CONTENT

▪ **PARODONTOLOGIA**

1. Implant osseointegration
2. Histology of the peri-implant tissues
3. Biomechanics of dental implants
4. Implant-prosthetic treatment plan
5. Computer Guided Implantology
6. Pathophysiology of peri-implant bone
7. Surgical implant technique
8. Diagnosis and Treatment of atrophy of the jaw
9. Soft tissue and implants
10. Modulation of prosthetic loading
11. Implant rehabilitation in patients with monoedentulia, partially and total edentulous
12. Temporary prosthesis in implant-prosthetic
13. Overdenture on implants
14. Complications in implantology
15. Oral hygiene in implant-prosthetic

▪ **CHIRURGIA ORALE**

1) SURGICAL INSTRUMENTATION IN ORAL SURGERY

Surgical Instruments. Sutures. Hemostatic materials. Consumables

2) PRINCIPLES OF SURGICAL STERILITY

Surgical scrubs. The surgical field in oral surgery. Surgeon and assistant's sterility.

3) ANTIMICROBIAL PROPHYLAXIS IN ORAL SURGERY

Distinction between Antimicrobial prophylaxis and therapy. The bacterial antibiotic resistance.

4) ORAL SURGICAL ANATOMY

Know, identify and protect vascular and nervous structures at risk in oral surgery.

5) LOCAL ANESTHESIA IN ORAL SURGERY

Refrigeration anesthesia. Topical anesthesia. Infiltration anesthesia. Plessic anesthesia. Troncular anesthesia.

6) BASIC ORAL SUTURES

7) ORAL BIOPSY

Principles and indications for oral biopsy. Surgical instruments useful for oral biopsy and conservation of the oral sample. Incisional Biopsy. Excisional Biopsy. Enlarged excisional biopsy. Algorithm for the choice of the correct biopsy.

8) BENIGN ORAL TUMORS

Benign mucosal tumors. Benign odontogenic tumor. Benign non-odontogenic tumor. Surgical approach and differential diagnosis with malignant tumors.

9) DENTOALVEOLAR TRAUMA

Classification. Treatment. Timing

10) PRE-PROSTHETIC SURGERY

Plastic surgery of the fornix. Classifications of atrophic jaw (Cawood & Howell). GBR. Bone grafts. Autologous bone grafts. Alloplastic bone grafts. Xenogeneic bone grafts. Allogeneic bone grafts. Alveolar Distraction. Onlay and Inlay grafts. Split-crest. Sinus lift.

11) CYSTIC LESIONS OF THE JAWS

Odontogenic cysts. Inflammatory cysts. Non-odontogenic cysts. Pseudocysts.

▪ **Clinical Odontostomatology**

Odontological management of systemic diseases with the knowledge of guidelines, operational protocols and pharmacological aspects of the dental patient affected by systemic diseases.

In particular:

- Semiaotics in odontostomatology: history / objective examination.
- Collection of documentation and compilation of the medical record.
- Diagnostic path and differential diagnosis in odontostomatology
- Differential diagnosis of odontogenic pain
- Ematochemical analyses: from health to disease
- Infections in the oro-maxillo-facial district: abscesses and phlegmons. Diagnostic protocol and therapy
- Medical therapy in odontostomatology: anti-inflammatories and antibiotics
- Dental approach to the cardiopathic patient
- Dental approach to the patient in oral anticoagulant therapy and with hemostasis disorders
- Dental approach to the diabetic patient
- Dental approach to the epileptic patient
- Dental approach to the pediatric special need patient
- Dental approach to the woman patient and pregnant
- Dental approach to the nephropathic and hepatopathic patient
- Dental approach to the allergic patient
- Dental approach to the immunodeficient patient and during chemotherapy and radiotherapy

▪ **Occupational Medicine**

History and evolution of Occupational Medicine: prevention service legislation and organization; work accidents and professional diseases insurance practices. Risk assessment procedure; exposure times and limit levels/values.

Primary and secondary prevention principles. Healthcare surveillance and duties of competent physician. Biological monitoring procedures. General and individual preventive practices and first aid action organization. Biological risk and vaccinations. Physical risks: noise, vibrations, ionizing-non-ionizing radiations, microclimate and compressed atmosphere. Ergonomy principles: postures and work. Workstation, shift and night work risks. Assessment of risks in manual loads handling and in repetitive movements of upper limbs with associated pathologies. Organizational wellness and its associated work stress. Health promotion in working places.

Main dust/fibre and professional allergene exposure-related pathologies; indoor and outdoor pollutants. Exposure risks to chemical, mutagen and carcenogenic agents.

Principles of Industrial Hygiene and hints of Statistics. Risks in the main working cycles. Guidelines

on safety and health in working places.

TEXTBOOK INFORMATION

▪ **CHIRURGIA ORALE**

- 1) M. Chiapasco. Manuale illustrato di Chirurgia Orale (III Ed.). Edra Edizioni. 2016
- 2) AA. VV. Trattato di Patologia Chirurgica Maxillo-Facciale. Edizioni Minerva Medica. 2007
- 3) Mehra P., D'Innocenzo R. Manual of Minor Oral Surgery for the General Dentist (II Ed.). Wiley Blackwell Ed. 2015

▪ **Clinical Odontostomatology**

- Scully C, Cawson RA: Il trattamento odontoiatrico nei pazienti affetti da malattie sistemiche . Antonio Delfino Editore
- L. Favero, C. Piovesana, P. Bortoluzzi: Dentistry & Medicine. Griffin Editore
- JW. Little: Dental management of the medically compromised patients. Mosby Editore.
- F. Gombos, R. Serpico: Clinica Odontoiatrica e Stomatologica - Testo-atlante a colori di patologia e medicina orale per medici e odontoiatri. Piccin Editore.

▪ **Occupational Medicine**

- David Koh, Ken Takahashi. Textbook of Occupational Medicine Practice. 3rd Edition ISBN: 978-981-4329-57-6
 - Antonio Mutti, Massimo Corradi: "Lezioni di Medicina del Lavoro". Nuova Editrice Berti, 2014 (ISBN 978-88-7364-627-3)
 - Per Alberto Bertazzi: "Medicina del lavoro". Raffaello Cortina Editore, 2013 (ISBN 978-88-6030-633-3)
 - Enrico Pira, Canzio Romano, Paolo Carrer: "Manuale di medicina del lavoro". Minerva Medica, 2016 (9788877118431)
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