



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Paradontologia

2021-5-H4601D023

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#### Aims

Prepare the student to diagnose and treat the most common clinical problems associated with periodontal disease, and its correlations with other dental branches and the most important systemic and metabolic diseases. The student will be able to learn the most modern minimally invasive surgical techniques, with particular regard to the use of lasers in periodontal surgery.

#### Contents

The course aims to lead the student to the knowledge of the anatomical aspects of the periodontium, of the correlated pathophysiology, of the diagnostic and therapeutic aspects able to adequately diagnose and treat all the pathologies of the periodontium, in its purely medical and surgical aspects.

Particular importance is given to the correlation of periodontal disease with the main systemic diseases related to it. Remarkable emphasis is given to the most modern therapeutic procedures that use advanced technologies, in order to reduce the invalidity of therapeutic protocols.

The student will understand the importance of laser-assisted techniques in the treatment of periodontal disease.

#### Detailed program

Overview of periodontal surgery: Principles of periodontal surgery. Healing of the periodontal wound. Periodontal surgical instruments. Suture materials and methods. Guidelines for periodontal surgery. Objectives of surgical treatment. Indications and contraindications of periodontal surgery. Anesthesia. Postoperative monitoring. Surgical therapy: the access flap. Resective Surgical Therapy: Gingivectomy, Apical Repository Flap, Ostectomy, Emission, Rhizectomy. Forceps injuries therapy: Access flaps and dentistry, Regeneration of injuries of furcations, Separation and root resection, Tunnelization. Mucogingival Surgical Therapy: Classification of recessions, indications for the increase of adherent gingiva and for the root covering, surgical techniques of adherent gingiva augmentation, surgical techniques of root covering. Regenerative surgical therapy: biological principles of regeneration, membranes and growth factors, guided tissue regeneration (GTR), induced tissue regeneration (ITR).

Relationships between periodontal therapy and other dental therapies (conservative dentistry, endodontics, orthodontics, prosthetics, implantology). Support periodontal therapy: Maintenance of medium and long term results, Motivation and periodic motivation reinforcement, Patient compliance. Historical overview of implantology and biological principles of osseointegration. Biology of soft and hard peri-implant tissues. Clinical and radiographic evaluation of the residual dental elements and of the edentulous alveolar saddle. Diagnosis and implant treatment plan of the oral cavity. Osseointegrated implantology methods and systems. The surgical technique of implant insertion. Post-extraction alveolus healing. Immediate and delayed post-extraction systems. Principles and techniques of reconstructive surgery of the pre and perimplant soft tissues. Principles and techniques of reconstructive bone surgery. Principles and techniques of guided bone regeneration (GBR) pre and perimplant. Small and large sinus lift. Principles and techniques of implant prosthetics. Deferred and immediate loading. Etiology, pathogenesis, clinical manifestations and treatment of peri-implant diseases (mucositis and peri-implantitis). Maintenance and prognosis in the medium and long term of osseointegrated implants. Role of the laser in implantology.

## **Prerequisites**

Completion of the examination in General Dentistry Disciplines

## **Teaching form**

Frontal lessons

## **Textbook and teaching resource**

Parodontologia Clinica e Implantologia Orale. Lindhe. Edi-Ermes

## **Semester**

Second semester fifth year

## **Assessment method**

An oral examination is employed to test students' knowledge.

## **Office hours**

Friday, 8,30-9,00

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