



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Medicina di Precisione in area Medica, Chirurgica e Critica		
ACADEMIC YEAR	2016/2017		
MASTER'S DEGREE (MSC)	DENTISTRY		
INTEGRATED COURSE	PERIODONTOLOGY AND DENTAL PROSTHESIS - INTEGRATED COURSE		
CODE	14258		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	MED/28		
HEAD PROFESSOR(S)	PIZZO GIUSEPPE	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)	PIZZO GIUSEPPE MAUCERI RODOLFO	Professore Ordinario Ricercatore a tempo determinato	Univ. di PALERMO Univ. di PALERMO
CREDITS	8		
PROPAEDEUTICAL SUBJECTS	05209 - MICROBIOLOGY AND GENERAL PATHOLOGY - INTEGRATED COURSE		
MUTUALIZATION			
YEAR	4		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>MAUCERI RODOLFO Tuesday 16:30 18:30</p> <p>PIZZO GIUSEPPE Wednesday 16:00 17:30 Ufficio del Prof. Pizzo, Plesso di Odontostomatologia, Edificio 14 (I piano), Via del Vespro 129, 90127 Palermo - Piattaforma Teams, Stanza "Ricevimento Prof. Giuseppe Pizzo"</p> <p>Friday 08:30 10:00 Ufficio del Prof. Pizzo, Plesso di Odontostomatologia, Edificio 14 (I piano), Via del Vespro 129, 90127 Palermo - Piattaforma Teams, Stanza "Ricevimento Prof. Giuseppe Pizzo"</p>		

<p>PREREQUISITES</p>	<p>1. Macro- and microscopic morphology of the periodontium. 2. Structure and functions of the bacterial cell. Bacterial metabolism. Host-microorganism and inter-microbial interactions, microbial ecology of the oral cavity, bacterial biofilms. Main determinants of pathogenicity and virulence of microorganisms. 3. The components of the immune system: cells and tissues, antigens and immunogenicity, lymphoid organs. The recognition of antigen by T and B cells. Antibodies: structure and functions. T cell-mediated immunity. The humoral immune response. Cytokines and its receptors. The complement system and innate immunity. Overview of inflammation: cells and mediators. Local and Systemic Inflammatory response Acute inflammation. Cellular and plasmatic mediators. Adhesion molecules and cellular recruitment. Phagocytosis. Exudate and Transudate. Chronic Inflammation: causes and mechanisms. Chronic inflammatory cells and mediators. Tissue repair: cell regeneration and fibrosis. Granulation tissue.</p>
<p>LEARNING OUTCOMES</p>	<p>Knowledge and understanding: Knowledge of epidemiology, of etiology and pathogenesis, of clinical features, of diagnosis of gingival and periodontal diseases. Pre-clinical knowledge of treatment planning and implementation of non-surgical periodontal therapy. Theoretical and pre-clinical knowledge of oral rehabilitation with tooth-supported fixed partial dentures (FPD). Knowledge of technical language used in periodontology and prosthodontics relevant to the subjects within the modules Parodontologia I (Periodontology I) and Protesi Dentaria I (Prosthodontics I).</p> <p>Applying knowledge and understanding: Ability to understand the nature, advantages and limits of non-surgical periodontal therapy and oral rehabilitation with FPD, evaluating the influence of local and systemic factors on the therapeutic outcome.</p> <p>Making judgements: Ability to independently - diagnose gingival and periodontal plaque-induced diseases; - plan treatment for gingival and periodontal plaque-induced diseases; - plan the rehabilitation with FPD in partially edentulous patients.</p> <p>Communication skills: Ability to correctly describe clinical features of gingival and periodontal plaque-induced diseases. Ability to communicate diagnosis and oral hygiene instructions to patients. Ability to present patients with the advantages and limits of oral rehabilitation with FPD.</p> <p>Learning skills: Ability to stay up to date with scientific publications in the fields of Periodontology and Fixed prosthodontics. Ability to use the knowledge acquired to attend postgraduate courses in Periodontology and in Fixed Prosthodontics.</p>
<p>ASSESSMENT METHODS</p>	<p>TYPES OF ASSESSMENT 1) Oral assessment. This assessment is used to evaluate the student's knowledge and understanding of the programme content, independent judgement, ability to apply acquired knowledge and specific technical terminology. Minimum number of questions: the student will have to answer a minimum of three questions posed orally which will focus on the subjects covered in the programme, making reference to suggested texts. 2) Written assessment. This assessment is used for the module Parodontologia I (Periodontology I) and substitutes the oral assessment, which is used only upon request by a student to improve the outcome obtained from the written assessment. This assessment evaluates the student's knowledge and understanding of the programme content, independent judgement, ability to apply acquired knowledge and specific technical terminology. Minimum number of questions: the student will have to answer a minimum of twenty (20) multiple choice questions which will focus on the subjects covered in the module Parodontologia I (Periodontology I), making reference to suggested texts. Duration of the assessment: 45 minutes</p> <p>ASSESSMENT CRITERIA The assessment grades are given as numerical scores awarded out of a possible 30 points, and as follows: - 30 - 30 cum laude - ECTS grades: Excellent (A – A+) Result: Excellent knowledge of the taught subject matter. The student demonstrates good analytic-synthetic capabilities and is able to apply knowledge to resolve highly complex problems.</p>

	<p>-27 – 29 – ECTS grades: Very good (B) Result: Very good knowledge of the taught subject matter and good use of language. The student demonstrates analytic-synthetic capabilities and is able to apply knowledge to resolve some complex problems.</p> <p>-24 – 26 – ECTS grades: Good (C) Result: Good knowledge of the taught subject matter and good use of language. The student is able to apply knowledge to resolve problems of medium complexity.</p> <p>-21 – 23 – ECTS grades: Satisfactory (D) Result: Reasonable knowledge of the taught subject matter, in some cases limited to the main topics. Acceptable use of technical language and capacity to apply acquired knowledge independently.</p> <p>- 18 – 20 – ECTS grades: Sufficient (E) Result: Minimal knowledge of the taught subject matter, often limited to the main topics. Modest use of technical language and some capacity to apply acquired knowledge independently.</p> <p>-1 – 17 – ECTS grades: Fail (F) Result: Unacceptable knowledge of the taught subject matter. Little or no use of technical language and capacity to apply acquired knowledge independently. Exam failed.</p> <p>Outcome of written assessment: For each correct answer 1.5 points are awarded; for each incorrect answer 0.5 points are deducted; if an answer is not given no points are awarded. The minimum score to pass the test is 18; if a score of under 18 is obtained then the assessment must be repeated.</p>
TEACHING METHODS	Lectures

<p>MODULE PERIODONTOLOGY I <i>Prof. GIUSEPPE PIZZO</i></p>	
SUGGESTED BIBLIOGRAPHY	
<p>1) Lindhe J, Lang NP. Clinical Periodontology and Implant Dentistry, 6th edition. Wiley-Blackwell, 2015. 2) Newman MG, Takei HH, Klokkevold PR, Carranza FA. Carranza's Clinical Periodontology, 12th edition. Elsevier, 2014 (comprensivo di edizione elettronica) 3) Articoli scientifici e materiale bibliografico miscelaneo (selezionato e/o redatto dal docente) 4) Altri ausili didattici forniti dal docente: guida allo studio autonomo delle fonti bibliografiche</p>	
AMBIT	50448-Discipline odontoiatriche e radiologiche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30
EDUCATIONAL OBJECTIVES OF THE MODULE	
<p>Acquisition of technical language, knowledge and competence on the following topics:</p> <ul style="list-style-type: none"> - Structure and function of the normal periodontium - Classification and epidemiology of diseases affecting the periodontium - Etiology, pathogenesis, histopathology and clinical features of gingival and periodontal diseases - Periodontal examination, clinical diagnosis and clinical risk assessment - Diagnosis and treatment of periodontal emergencies - Non-surgical periodontal therapy 	

SYLLABUS

Hrs	Frontal teaching
3	The Normal Periodontium: Structure and Function. Classification and Epidemiology of Diseases and Conditions Affecting the Periodontium
6	Etiology, Pathogenesis and Histopathology of Gingival and Periodontal Diseases. The Role of Dental Calculus and Other Local Predisposing Factors. Biofilm and Periodontal Microbiology. Smoking and Periodontal Disease. Influence of Systemic Conditions
6	Gingival Pathology: Gingival Inflammation; Clinical Features of Gingivitis; Gingival Diseases of Specific Bacterial/Viral/Fungal Origin; Traumatic lesions; Necrotizing Ulcerative Gingivitis; Gingival Enlargement; Gingival Disease in Childhood; Desquamative Gingivitis
6	Periodontal Pathology: The Periodontal Pocket; Bone Loss and Patterns of Bone Destruction; Chronic Periodontitis; Necrotizing Ulcerative Periodontitis; Aggressive Periodontitis
2	Examination of Patients With Periodontal Diseases. Clinical Diagnosis. Clinical Risk Assessment
2	Diagnosis and Treatment of Acute Gingival Disease and Periodontal Abscess (Periodontal Emergencies)
5	Non-surgical Periodontal Therapy (Cause-related Therapy): Rationale, Sequence of Procedures, Outcome. Supragingival Plaque Control for the Periodontal Patient: Oral Hygiene Aids; Chemical Plaque Control; Patient Education and Motivation. Scaling and Root Planing (Periodontal Debridement). Sonic and Ultrasonic Instrumentation: an introduction. Irrigation.

**MODULE
DENTAL PROSTHESIS I**

Prof. RODOLFO MAUCERI

SUGGESTED BIBLIOGRAPHY

- Castellani D.: La preparazione dei pilastri per corone in metal-camica. Martina, Bologna.
- Shillenburg H.T., Kessler J.C.: La ricostruzione dei denti trattati endodonticamente. Scienza e tecnica dentistica edizioni internazionali, Milano.
- Shillenburg H.T., Jacobi R., Brackett S.E.: Nozioni di base sulle preparazioni dentali per restauri in metallo e porcellana. Scienza e tecnica dentistica edizioni internazionali, Milano.
- Tylman S.D., Malone W.F.P.: Protesi fissa. Teoria e pratica. Piccin. Padova.
- Zuccari A.: Testo atlante di materiali e tecniche di impronta in protesi dentaria amovibile ed inamovibile. Martina, Bologna.

AMBIT	50448-Discipline odontoiatriche e radiologiche
INDIVIDUAL STUDY (Hrs)	75
COURSE ACTIVITY (Hrs)	50

EDUCATIONAL OBJECTIVES OF THE MODULE

To give the students the necessary means for the formulation of a correct diagnosis of the different clinical cases of partial edentulia and for planning an adequate prosthetic rehabilitation through lectures supported by images. Lectures will be about the diagnosis and treatment plan of partially edentulous patients, about principles and techniques of the fixed restorations, both in metal – ceramic and metal-free materials.

SYLLABUS

Hrs	Frontal teaching
2	General considerations on the clinical and instrumental diagnosis and prosthetic treatment plan of partially edentulous patients
4	Prosthetic restoration of single tooth: inlay, onlay, overlay, full crown
2	Bonded fixed partial denture: indications and contraindications
2	Fixed partial denture components
2	Indications and contraindications for the prosthetic rehabilitation
2	Physical examination and instrumental analysis
4	The preliminary impressions
2	Fabrication of the plaster study models
4	Pretreatments: periodontal therapy, periodontal surgery, strategic tooth extractions, conservative treatments
2	Biological aspects of fixed partial denture
2	Periodontal aspects of fixed partial denture
2	Criteria for selection of the operating methods
2	Tooth preparation technique.
3	The temporary bridge
2	The impression materials
2	The final impression
2	The gypsum cast
2	Modeling and fabrication of the framework
2	The try-in of the framework and try-in at the biscuit bake.
2	Delivery and cementation of the restoration.
3	The CAD-CAM technology and the metal-free restorations