



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Medicina di Precisione in area Medica, Chirurgica e Critica		
ACADEMIC YEAR	2022/2023		
BACHELOR'S DEGREE (BSC)	DENTAL HYGIENE		
INTEGRATED COURSE	PERIODONTOLOGY - INTEGRATED COURSE		
CODE	18984		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	MED/28, MED/50		
HEAD PROFESSOR(S)	PIZZO GIUSEPPE	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)	PIZZO GIUSEPPE	Professore Ordinario	Univ. di PALERMO
	PANZARELLA VERA	Ricercatore a tempo determinato	Univ. di PALERMO
CREDITS	10		
PROPAEDEUTICAL SUBJECTS	05209 - MICROBIOLOGY AND GENERAL PATHOLOGY - INTEGRATED COURSE		
MUTUALIZATION			
YEAR	2		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	PANZARELLA VERA Tuesday 13:00 15:00 Piattaforma digitale TEAMS:https://teams.microsoft.com//team/19%3ad753ab8750844cc1abfda57338928e09%40thread.tacconversations?groupId=5680544a-9330-436a-baf4-1e70f0da0e59&tenantId=bf17c3fc-3ccd-4f1e-8546-88fa 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" 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"		

PREREQUISITES	1. Macro- and microscopic morphology of the periodontium and the hard dental tissues. 2. Structure and functions of the bacterial cell. Microbial ecology of the oral cavity, bacterial biofilms. Main determinants of pathogenicity and virulence of microorganisms. 3. The components of the immune system: cells, tissues and antigens. Antibodies. Cytokines. The complement system and innate immunity. 4. Overview of inflammation: cells and mediators. Acute inflammation. Chronic Inflammation. 5. Ergonomics and periodontal instrumentation (instrument grasp, finger rests).
LEARNING OUTCOMES	Conoscenza e capacita' di comprensione: Conoscenza dell'epidemiologia, dell'eziopatogenesi, della storia naturale e delle caratteristiche cliniche delle patologie gengivali e parodontali placca-indotte e non placca-indotte, delle erosioni dentali e dell'ipersensibilita' dentinale. Conoscenze pre-cliniche per l'esecuzione della terapia parodontale non chirurgica (compresa la terapia di mantenimento) in pazienti con patologie gengivali e parodontali placca-indotte e non placca-indotte di differente gravita'. Conoscenze pre-cliniche di igiene orale domiciliare nel paziente sottoposto a chirurgia parodontale. Conoscenze pre-cliniche della prevenzione e del management non-operativo delle erosioni dentali e dell'ipersensibilita' dentinale. Capacita' di applicare conoscenza e comprensione: Capacita' di descrivere la storia naturale e l'epidemiologia della malattia parodontale, delle erosioni dentarie e dell'ipersensibilita' dentinale. Capacita' di comprendere natura, vantaggi e limiti della terapia parodontale non chirurgica, valutando l'influenza dei fattori causali locali e sistemici sull'outcome terapeutico. Autonomia di giudizio: Capacita' di riconoscere autonomamente i segni clinici delle patologie gengivali e parodontali placca-indotte e non placca-indotte, i segni clinici di patologie perimplantari, i segni clinici delle erosioni dentali e dell'ipersensibilita' dentinale. Capacita' di gestire autonomamente la terapia di mantenimento di pazienti con patologie gengivali e parodontali placca-indotte e non placca-indotte, riconoscendo i casi nei quali e' necessario inviare il paziente all'odontoiatra per ulteriore valutazione diagnostica e rimodulazione del piano di trattamento. Capacita' di gestire autonomamente il management clinico non operativo delle erosioni dentali e dell'ipersensibilita' dentinale. Abilita' comunicative: Capacita' di descrivere quadri clinici di patologie gengivali e parodontali placca-indotte utilizzando il linguaggio specifico per professionisti (igienisti dentali, odontoiatri) e per pazienti. Capacita' di comunicare al paziente le indicazioni utili per il controllo domiciliare della placca, per la prevenzione delle erosioni dentarie e dell'ipersensibilita' dentinale. Capacita' di presentare al paziente natura, vantaggi e limiti della terapia parodontale causale. Capacita' di interagire con l'odontoiatra per la terapia attiva e la terapia di mantenimento dei pazienti candidati o sottoposti a terapia parodontale non-chirurgica e a terapia parodontale chirurgica. Capacita' d'apprendimento: Capacita' di aggiornamento con la consultazione delle pubblicazioni scientifiche proprie del settore della Parodontologia e dell'Igiene dentale. Capacita' di seguire, utilizzando le conoscenze acquisite nel corso, master di primo livello, corsi di perfezionamento per Igienisti dentali e seminari specialistici per Igienisti dentali nel settore della Parodontologia.
ASSESSMENT METHODS	TYPE OF ASSESSMENT 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. The student will have to answer a minimum of four questions posed orally which will focus on the subjects covered in the programme, making reference to suggested texts. 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. - 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. - 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. - 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. - 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. - 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.
TEACHING METHODS	Lectures

MODULE DENTAL HYGIENE APPLIED TO PERIODONTOLOGY

Prof. GIUSEPPE PIZZO

SUGGESTED BIBLIOGRAPHY

- 1) Wilkins EM. La pratica clinica dell'igienista dentale. III edizione. Piccin, 2020. ISBN: 978-88-299-3007-4
- 2) Gehrig JS, Sroda R, Saccuzzo D. Fundamentals of periodontal instrumentation and advanced root instrumentation. Enhanced 8th edition. Jones & Bartlett Learning, 2019. ISBN: 9781284456752. Disponibile anche in formato e-book (ISBN: 9781284456745)
- 3) Materiale bibliografico miscelaneo selezionato e/o redatto dal docente e disponibile sul portale studenti; il docente provvederà ad evidenziare le parti da studiare ai fini del raggiungimento dei risultati di apprendimento attesi.
- 4) Altri ausili didattici forniti dal docente: guida allo studio autonomo delle fonti bibliografiche, percorso formativo (per l'autovalutazione della preparazione personale).

AMBIT	10346-Scienze dell'igiene dentale
INDIVIDUAL STUDY (Hrs)	90
COURSE ACTIVITY (Hrs)	60

EDUCATIONAL OBJECTIVES OF THE MODULE

Acquisition of technical language, knowledge and competence on the following topics:

- Periodontal probing: instruments and techniques; use of explorers;
- Oral hygiene self-care: instruments and methods;
- Extrinsic stain removal: instruments and strategies;
- Periodontal debridement: instruments and techniques;
- Advances in non-surgical periodontal therapy;
- Local antimicrobial delivery systems, oral irrigation, chemical supragingival plaque control;
- Dental erosion and dentin hypersensitivity: prevention and non-operative clinical management;
- Tobacco use cessation (TUC) counselling.

SYLLABUS

Hrs	Frontal teaching
9	Instrument design and classification. Technique essentials: Movement and orientation to tooth surface, adaptation, instrumentation strokes. Periodontal probes and basic probing technique. Advanced probing techniques. Explorers: classification and use
3	Periodontal charting: recording and interpretation of clinical data from the periodontal probing. Clinical periodontal indices: recording and interpretation.
9	Supragingival calculus removal: design and technique of manual scalers; design, function and technique of powered instruments (sonic and ultrasonic scalers).
9	Subgingival instrumentation (Periodontal debridement): theoretical concepts, rationale, instruments and technique essentials. Universal and area-specific curets: design, instrumentation techniques and instructions for using, instrument sharpening
2	Extrinsic stain removal: instruments and strategies.
2	Local antimicrobial delivery systems. Oral irrigation. Clinical efficacy of probiotics as an adjunct in non-surgical periodontal therapy.
2	Oral hygiene self-care: instruments and methods. Toothpastes. Plaque staining.
3	Chemical supragingival plaque control: rationale, vehicles, chemical agents (with focus on chlorhexidine, ammine fluoride-stannous fluoride, essential oils, phenols)
6	Dentin hypersensitivity: definition, epidemiology, etiology/risk factors, pain mechanisms, diagnosis, prevention for the individual, clinical management (comparative efficacy of the available products for at-home and in-office treatment)
6	Dental erosion: definition, epidemiology, etiology, risk factors, diagnosis, prevention and nonoperative clinical management
3	Advances in non-surgical periodontal therapy: lasers, photodynamic disinfection, ozone therapy, deplaquing, subgingival polishing.
6	Tobacco use cessation counselling practices, including non-nicotine replacement therapy

MODULE PERIODONTOLOGY

Prof.ssa VERA PANZARELLA

SUGGESTED BIBLIOGRAPHY

- 1) Eaton K, Ower P. Practical Periodontics, 1st Edition, Elsevier, 2015. ISBN: 9780702043574. Disponibile anche in formato eBook (ISBN: 9780702066801)
- 2) Materiale bibliografico miscellaneo selezionato e/o redatto dal docente e disponibile sul portale studenti; il docente provvederà ad evidenziare le parti da studiare ai fini del raggiungimento dei risultati di apprendimento attesi.
- 3) Altri ausili didattici forniti dal docente: guida allo studio autonomo delle fonti bibliografiche.

AMBIT	10346-Scienze dell'igiene dentale
INDIVIDUAL STUDY (Hrs)	60
COURSE ACTIVITY (Hrs)	40

EDUCATIONAL OBJECTIVES OF THE MODULE

Acquisition of technical language, knowledge and competence on the following topics:

- Structures and functions of the periodontium;
- Classification of diseases affecting the periodontium;
- Epidemiology, etiology, pathogenesis, histopathology and clinical features of gingival and periodontal diseases;
- Periodontal examination and clinical risk assessment;
- Non-surgical periodontal therapy and supportive periodontal therapy.

SYLLABUS

Hrs	Frontal teaching
2	Structures and functions of the normal periodontium.
3	Supra- and subgingival dental plaque: formation and composition. Supra- and subgingival calculus: formation and composition. Tooth stains.
2	Classification of diseases affecting the periodontium.
6	Epidemiology, natural history, etiology, pathogenesis, histopathology and risk factors of plaque-induced gingivitis and periodontitis.
4	Periodontitis, necrotizing periodontal diseases, periodontal abscesses, occlusal trauma: etiopathogenesis and clinical features.
6	Periodontal manifestations of systemic diseases.
3	Periodontal examination. Periodontal risk assessment.
2	Periodontitis and global health.
4	Non-surgical periodontal therapy: rationale, sequence of procedures, outcomes. Assessment of treatment outcomes.
3	Supportive periodontal therapy.
2	Gingival recession: prevalence, etiology, pathogenesis and non-surgical management.
3	Surgical periodontal therapy: rationale and overview of the surgical procedures (gingivectomy/gingivoplasty, periodontal flap surgery, procedures for treating osseous defects, periodontal plastic surgery, periodontal regenerative surgery). Surgical and postoperative care.