



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Medicina di Precisione in area Medica, Chirurgica e Critica		
<b>ACADEMIC YEAR</b>	2020/2021		
<b>BACHELOR'S DEGREE (BSC)</b>	DENTAL HYGIENE		
<b>INTEGRATED COURSE</b>	ODONTO-STOMATOLOGICAL SCIENCES II - INTEGRATED COURSE		
<b>CODE</b>	18971		
<b>MODULES</b>	Yes		
<b>NUMBER OF MODULES</b>	2		
<b>SCIENTIFIC SECTOR(S)</b>	MED/28		
<b>HEAD PROFESSOR(S)</b>	TORTORICI SILVIA	Professore Associato	Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	TORTORICI SILVIA	Professore Associato	Univ. di PALERMO
	MAUCERI NICOLA	Ricercatore	Univ. di PALERMO
<b>CREDITS</b>	6		
<b>PROPAEDEUTICAL SUBJECTS</b>			
<b>MUTUALIZATION</b>			
<b>YEAR</b>	3		
<b>TERM (SEMESTER)</b>	1° semester		
<b>ATTENDANCE</b>	Mandatory		
<b>EVALUATION</b>	Out of 30		
<b>TEACHER OFFICE HOURS</b>	<b>MAUCERI NICOLA</b> Wednesday 13:00 14:30 Plesso di Odontostomatologia - III piano		
	<b>TORTORICI SILVIA</b> Monday 11:30 13:30 III piano Chirurgia Odontostomatologica presso ufficio prof. S. Tortorici		

<p><b>PREREQUISITES</b></p>	<p>Basic knowledge of scientific subject, including biology and medicine, are required to facilitate the learning process; through theoretical-practical training, the student will acquire complete clinical skills to prevent, diagnose and plan pathologies of surgical interest affecting the oral cavity.</p> <p>Ability to identify pathological condition of surgical interest involving mucosal lining and maxillary bone structures through clinical assessment and instrumental investigations of first, second and third level; clinical knowledge of procedures and prognosis of osteointegration: ability of designing and developing a preventive and rehabilitative plan to assist the planning of prosthetic rehabilitation on osteo-integrated implants; clinical knowledge of surgical techniques, indications and contraindications; diagnostic, clinical, and surgical knowledge to perform basic surgical procedures; knowledge of instrumentation, materials and surgical techniques; ability of maintaining and preserving the integrity of peri-implantar tissue and addressing infective and surgical complications.</p> <p>Ability to identify pathological condition of surgical interest involving mucosal lining and maxillary bone structures through clinical assessment and instrumental investigations of first, second and third level; clinical knowledge of procedures and prognosis of osteointegration: ability of designing and developing a preventive and rehabilitative plan to assist the planning of prosthetic rehabilitation on osteo-integrated implants; clinical knowledge of surgical techniques, indications and contraindications; diagnostic, clinical, and surgical knowledge ; knowledge of instrumentation, materials and surgical techniques; ability of maintaining and preserving the integrity of peri-implantar tissue and addressing infective and surgical complications.</p>
<p><b>LEARNING OUTCOMES</b></p>	<p>Knowledge and ability of understanding</p> <ul style="list-style-type: none"> <li>•Knowledge of the pathologies of the oral maxillo-facial district for an accurate nosological classification</li> <li>•Knowledge of pathologies of surgical interest affecting the oral cavity, through semiotics and instrumental investigations</li> <li>•Knowledge of potential and shortcomings of the main imaging techniques used for diagnostic purposes in oral surgery</li> <li>•Knowledge of surgical equipment</li> <li>•Knowledge of techniques and surgical protocols</li> <li>•Knowledge of rules of the work of healthcare workers</li> <li>•knowledge of the historical evolution of the implantology</li> <li>• Knowledge of the physiological mechanisms and the morphological and functional characteristics of the process of osteointegration</li> <li>•Knowledge of the anatomy and the physiology of the peri-implant tissues</li> <li>•Knowledge of the epidemiology, etiopathogenesis, histopathology and clinical presentation of the infectious peri-implant diseases (peri-implant mucositis, peri-implantitis)</li> <li>• Knowledge of risk, indications and contraindications of the prosthetic rehabilitation</li> <li>•Knowledge of the methods and the instruments for the diagnosis and treatment of peri-implant diseases with infective origin</li> <li>•Knowledge of the clinical procedures and the prognosis of the osteointegration</li> <li>•Knowledge of tools, materials and techniques used in oral surgery, including the study of the surgical area and the timing of the procedures</li> <li>•Knowledge of techniques and prognosis of the on-lay graft ridge augmentation procedures and the maxillary sinus lift</li> <li>•Knowledge of the characteristics of the implant devices (morphology, surface)</li> <li>•Knowledge of the factors that influence the success of osseointegration</li> <li>•Knowledge of the protocols of the implant-prosthetic rehabilitation in edentulous subjects (anterior and posterior areas)</li> <li>•Knowledge of the techniques for producing a prosthesis</li> <li>• Knowledge of surgical and mechanical complications of implant-prosthetic rehabilitation</li> <li>•Knowledge of clinical procedures for maintenance of the peri-implant health</li> <li>•Knowledge of the language of specialized subjects taught during the lessons</li> </ul> <p>Ability of applying knowledge and understanding:</p> <ul style="list-style-type: none"> <li>•Ability to carry out a clinical examination of the oral maxillo-facial district and to detect and diagnose diseases of surgical interest</li> <li>•Ability to identify the potentialities and the limits of diagnostic tools</li> <li>•Ability to recognize and properly use the surgical instruments</li> <li>•Ability to analyze a clinical case and to coordinate a multidisciplinary surgical team by knowing rules and dynamics of the job of health care workers</li> <li>• Ability to consult databases for the purpose of acquiring scientific documentation and analyze scientific literature applying the results of the research to oral surgery</li> <li>•Ability to diagnose infectious, surgical and mechanical complications of the implant-prosthetic treatment</li> </ul>

	<ul style="list-style-type: none"> <li>•Ability of planning and delivering good health of peri-implant tissue</li> <li>• Ability to carry out the treatment of infectious, surgical and mechanical complications of the implant-prosthetic rehabilitation.</li> </ul> <p>Capacity of judgments: The student has to be able to realize a clinical plan of treatment , according to the diagnostic algorithms; he has to be able to evaluate the effectiveness of the surgical procedures performed. Part of learning process is based on readings of international journal on updated data of epidemiology and surgical procedures. The student must be able to set up an individualized plan of implant rehabilitation, considering local and systemic factors. He must be able to treat potential complications.</p> <p>Communicative skills: The student must be able to communicate effectively with the patient. The student must know English in order to consult international journals and to communicate with foreign researchers. The student must develop the capacity to expose correctly the clinical cases and the informations to implement the oral hygiene procedures.</p> <p>Capacity to explain to the patient the nature, advantages and limitations of different assumptions of the treatment.</p> <p>Learning skills: The student has ability to consult databases for the purpose of acquiring scientific documentation and analyze scientific literature .</p>
<b>ASSESSMENT METHODS</b>	<p>The candidate must sustain an oral examination consisting of two or three questions about the topics discussed during the lessons to assess the skills of interpretation and understanding;</p> <p>A diagnostic and surgical treatment plan of a clinical case must be formulated through evaluation of anamnestic and semiological data contained in medical records and of diagnostic exams;</p> <p>The assessment is expressed out of thirtieth; the score is based on the knowledge of the topics, presentation skills, appropriate technical language, and on the ability to diagnosis and to plan a therapeutic treatment.</p> <p>Score 30-30 cum laude: excellent knowledge of the topics, excellent language skills, excellent diagnostic and therapeutic abilities</p> <p>Score 25-29: good knowledge of the topics, good language skills, good diagnostic and therapeutic abilities</p> <p>Score 21-24: Fair knowledge of the topics, decent language skills, limited ability to analyze clinical cases</p> <p>Score 18-20: basic knowledge of topics and poor language skills, poor ability to solve clinical cases</p> <p>Fail: lack of knowledge of the topics</p>
<b>TEACHING METHODS</b>	lessons

## MODULE PROSTHESIS AND IMPLANTOLOGY

*Prof. NICOLA MAUCERI*

### SUGGESTED BIBLIOGRAPHY

Wilkins EM. La pratica clinica dell'igienista dentale. Ed. italiana a cura di Gianna Maria Nardi. Ed. Piccin.

<b>AMBIT</b>	10346-Scienze dell' igiene dentale
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

### EDUCATIONAL OBJECTIVES OF THE MODULE

To give the students the necessary means for the knowledge of the prosthetic devices, their structure, indications, contraindications, advantages and disadvantages.

To improve the ability of the management and the follow-up of the patient wearing fixed or removable partial denture, partial or complete denture, and teeth or implants supported denture.

## SYLLABUS

Hrs	Frontal teaching
2	Physical examination of the oral cavity in the patient wearing a denture or needing a prosthetic treatment. Analysis of anatomic modifications associated to the different cases of edentulia.
1	Physical examination of the edentulous patient. Anatomy of the edentulous areas.
1	Physical examination of the partial edentulous patient. The Kennedy's classification.
1	Evaluation of the residual teeth and periodontal health
1	Evaluation of pre-existing dentures
2	Evaluation of X-ray examinations: intraoral X-ray, orthopantomography, Cone Beam Computed Tomography
4	Types of prosthetic devices and their structures: fixed partial denture, removable partial denture, complete denture, tooth supported overdenture.
1	Indications to the various prosthetic devices based on the patient's manual ability/disability to maintain good at home oral hygiene.
2	Constituent materials of the prosthetic devices: resins, precious metal alloy, non precious metal alloy, ceramics, ceramics fused to metal, zirconia.
2	An outline of carrying out a fixed partial denture
1	An outline of carrying out a removable partial denture
1	An outline of carrying out a complete denture
2	The oral hygiene maintenance of the patient wearing fixed or removable denture. Instructions and motivation.
2	Implant dentistry: the concept of osseointegration
1	Constituent parts of an implant supported partial denture
1	Necessary instruments for at-home and professional oral hygiene of implant supported dentures
2	Definition, etiology, prevention and treatment of peri-implantitis
1	Study cast: Taking alginate impressions and casting of them.
2	Basic Knowledge of occlusion

## MODULE ODONTO-STOMATOLOGICAL SURGERY

*Prof.ssa SILVIA TORTORICI*

### SUGGESTED BIBLIOGRAPHY

Chiapasco M. e coll. Manuale illustrato di Chirurgia Orale Ed. Masson  
Mortellaro c., S. Annibali Chirurgia odontostomatologica Ed. Minerva Medica

<b>AMBIT</b>	10346-Scienze dell' igiene dentale
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

### EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge of diagnostic tools, classifications and surgical techniques. The student must be able to know the diagnostic, clinical and surgical procedures and surgical protocols.

Ability to carry out the physical examination of the oral maxillo-facial district and to identify and diagnose diseases with surgical interest.

Knowledge of vocabulary and cultural and methodological skills of:

- Surgical evaluation of diseases involving mucosal lining and maxillary/mandibular bone structures in the patient candidate for the implant-prosthetic rehabilitation

- Tools, materials and techniques used in oral surgery

- Surgical procedures and prognosis of diseases involving the mucosa, the bone structure and the maxillary sinus

- Medical-surgical procedures and prognosis of mucous membranes and bone diseases of edentulous and partially edentulous jaws. Through semiotics and instrumental investigations, identify pathological conditions of surgical interest involving mucosal lining and maxillary bone structures; clinical knowledge of surgical techniques, indications and contraindications; ability to plan a preventive treatment for the purpose of implant-prosthetic rehabilitation

The student must be able to know the diagnostic, clinical and surgical procedures for the purposes of applying the most effective surgical protocols.

He must be able to plan a surgical treatment, to explain to the patient the therapeutic options and the informed consent.

## SYLLABUS

Hrs	Frontal teaching
2	Topographic anatomy of oral-maxillo-facial district Surgical environment Surgical environment; asepsis and antisepsis in oral surgery, preparation of the patient and operative room
3	Surgical report: anamnesis and semeiotics in oral surgery prophylaxis and protocols of treatment of subjects at risk
2	Local anesthesia; general and local complications
2	Incisions and mucosal flaps in oral surgery: type and application Sutures: materials, features and use; techniques of sutures
2	Simple and surgical extraction of the teeth: indications, tools, techniques, accidents and complications
3	Impacted teeth; etiopathogenesis, epidemiology, classification Treatment of the impacted teeth ; germectomy
3	Inflammatory diseases of the jaws; internal and external, peri-mandibular-peri-maxillary abscesses and phlegmons
3	Osteitis of the jaw: epidemiology, etiopathogenesis, classification, therapeutic treatment
2	Odontogenic and non odontogenic cyst: differential diagnosis, semeiotics, etiopathogenesis, diagnosis, surgical techniques.
1	Periapical surgery: indications, techniques, failures, retrograde obturation
1	Odontogenic sinusitis: surgery of maxillary sinus. oral-antral communications and complications
1	Benign lesions of soft tissue and bone
2	Odontogenic and non odontogenic tumors: differential diagnosis, surgical treatment of benign and local malignancy tumors
1	Preprosthetic minor surgery; surgery of soft and hard tissues
2	surgical treatment Local and general complications in oral surgery and their management