



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Medicina di Precisione in area Medica, Chirurgica e Critica		
ACADEMIC YEAR	2022/2023		
MASTER'S DEGREE (MSC)	DENTISTRY		
INTEGRATED COURSE	HUMAN AND APPLIED ANATOMY . INTEGRATED COURSE		
CODE	13577		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	BIO/16		
HEAD PROFESSOR(S)	CARINI FRANCESCO	Professore Associato	Univ. di PALERMO
OTHER PROFESSOR(S)	MARINO GAMMAZZA ANTONELLA	Professore Associato	Univ. di PALERMO
	CARINI FRANCESCO	Professore Associato	Univ. di PALERMO
CREDITS	10		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	1		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>CARINI FRANCESCO Wednesday 12:00 - 14:00 Plesso di Anatomia e Istologia, Dipartimento di Biomedicina, Neuroscienze e Diagnostica Avanzata. Friday 12:00 - 14:00 Plesso di Anatomia e Istologia, Dipartimento di Biomedicina, Neuroscienze e Diagnostica Avanzata.</p> <p>MARINO GAMMAZZA ANTONELLA Monday 15:00 - 17:00 Istituto di Anatomia Umana ed Istologia, Via del Vespro 129, 90127, Policlinico, Palermo.Tel. +39 09123865823. Si riceve soltanto con prenotazione tramite email Wednesday 10:00 - 12:00 Istituto di Anatomia Umana ed Istologia, Via del Vespro 129, 90127, Policlinico, Palermo.Tel. +39 09123865823. Si riceve soltanto con prenotazione tramite email</p>		

DOCENTE: Prof. FRANCESCO CARINI

PREREQUISITES	Knowledge on the structure and ultrastructure of cells and tissue, tissue organization and evolution of the various stages of embryonic and fetal development.
LEARNING OUTCOMES	Knowledge and understanding: Acquisition of knowledge on systems and organs, understanding of their position and relations, with regard to stomatognathic system. Understanding and practice of general Anatomical terminology. Capacity to apply knowledge and understanding: Capacity to independently identify the location, profile and relation of the organs under study, with regard to stomatognathic system. Ability to examine and diagnose organs in anatomical models and in living person. Independent analytic ability: Ability to evaluate the implications and consequences of structural changes within the organs and anatomical regions under study with regard to stomatognathic system. Communication ability: Ability to describe and comment on the results of systematic studies and to adapt the communication to the interlocutor. Learning capacity: Capacity to keep up to date through consultation of scientific publications in the appropriate field using internet. Capacity to complete studies using the knowledge acquired during this course.
ASSESSMENT METHODS	<p>Oral examination, aimed at ascertaining the acquisition of competence and knowledge on the module topics. Evaluation is expressed through a 30-point grading scale. The candidate will be asked a minimum of two questions in order to verify the knowledge acquired, analytic skills, and possession of adequate expressive ability.</p> <p>ECTS grade A – A+ Excellent Italian Grade 30-30 cum laude Eccellente Grade descriptors Excellent knowledge of teaching contents; students should show high analytical and synthetic capabilities and should be able to apply their knowledge to solve highly complex problems.</p> <p>ECTS grade B Very good Italian Grade 27-29 Ottimo Grade descriptors Very good knowledge of the teaching contents and excellent language control; students should show analytical and synthetic skills and be able to apply their knowledge to solve problems of medium and, in some cases, even higher complexity.</p> <p>ECTS grade C Good Italian Grade 24-26 Buono Grade descriptors Good knowledge of teaching contents and good language control; the students should be able to apply their knowledge to solve problems of medium complexity</p> <p>ECTS grade D Satisfactory Italian Grade 21-23 Discreto Grade descriptors Average knowledge of the teaching contents, in some cases limited to the main topic; acceptable ability to use the specific discipline language and independently apply the acquired knowledge.</p> <p>ECTS grade E Sufficient Italian Grade 18-20 Sufficiente Grade descriptors Minimum teaching content knowledge, often limited to the main topic; modest ability to use the subject specific language and independently apply the acquired knowledge.</p> <p>ECTS grade F Fail Italian Grade Insufficiente Grade descriptors Lack of an acceptable knowledge of the main teaching content knowledge; very little or no ability to use the specific subject language and apply independently the acquired knowledge.</p>
TEACHING METHODS	Lectures with the support of ppt presentations

MODULE
ANATOMY OF THE STOMATOGNATHIC SYSTEM

Prof. FRANCESCO CARINI

SUGGESTED BIBLIOGRAPHY

Claudia Dellavia. Compendio di Anatomia Oro-facciale per l'attività clinica odontostomatologica. EdiSES.

AMBIT	50447-Morfologia umana, funzioni biologiche integrate degli organi ed apparati umani
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INDIVIDUAL STUDY (Hrs)	60
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COURSE ACTIVITY (Hrs)	40
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EDUCATIONAL OBJECTIVES OF THE MODULE

General objective of the module is to provide systematic and topographic anatomical basis of the head and of neck's region, as well as the main changes that occur with aging. Specific objective is to achieve a good knowledge level of topographical features, macroscopic, microscopic and ultrastructural studies of organ subjects. Main objective is to have a pathophysiological reasoning, also using the methodological medicine tools.

SYLLABUS

Hrs	Frontal teaching
2	The stomatognathic system as a whole and in its regional relations site. General characteristics of splanchnocranium: conformation, 'constitutive skeletal united architecture (Pneumatic cavities and facial pillars)
2	Orbital Pits, nasal and related communications
2	Neuro-Chranium General characteristics: conformation, 'constitutive skeletal united
1	cranial base and respective openings
1	craniofacial's pits: infratemporal and pterigopalatine pits and related communications. Scaffolding skeletal mouth communications: details on the morphology of the maxillary bone, the palatine bones, details on the maxillary sinus, details on the morphology and structure of the jaw.
2	Development and anomalies of maxilla, palatine and mandibular bones. Correlations between skull base and maxillary developments. Morphological modifications of the jaw and maxilla after the end of the development
1	Notes of skull's measures (angles and points)
1	morphology of the dental arches
2	Morphology and classification of teeth
1	Soft tessues (lips, cheeks, vestibule, roof and floor of the cavity' mouth, oral mucosa, gingival and around teeth's tessue)
1	Tongue: morphology, structure, vascularisation, innervation
1	major salivary glands: morphology, website, connections, structure, vascularisation, innervation. Minor salivary glands
1	Palatine tonsils and lymphatic ring of Waldeyer
1	Connective Perioral Spaces
1	craniofacial and peripharyngeal Spaces
1	Temporal- jaw Joint: details on the morphology and structure of the articular heads, disk, capsule, bearing rear disc
2	joint TMJ Dynamics
2	Muscles involved in chewing
1	Neck's muscles
1	spine's muscles with detailed knowledge of the cervical spine and the atlanto occipital join
2	vascularization of oropharyngeal and its venous drainage: outside and side carotid artery, jugular vein system and its tributaries, anastomosis between the extracranial and intracranial circulation
1	Lymphatic drainage and lymphlnodes of oropharyngeal distrect
4	Nerves, nucleus and nervous tracts involved in the transport of the Mouth's General sensibility (peripheral branches of the trigeminal nerve, central nucleus, trigeminal lemniscus, cerebral cortical projections, trigemino-reticular and cerebellar connections)
4	Nerves, nucleus' and nervous tracts involved in sensibility taste's transport (facial, glossopharyngeal, vagus nerves, taste lemniscus, cortical cerebral projections). Motor innervation of mimic muscles, cheweing muscles, palatal, tongue and pharyngus muscles.
1	Main landmarks and accesses in anesthetic and surgical practices in dentistry
1	Anatomy and projective surface of the face and neck

**MODULE
HUMAN ANATOMY**

Prof.ssa ANTONELLA MARINO GAMMAZZA

SUGGESTED BIBLIOGRAPHY

ANATOMIA UMANA MARTINI - TIMMONS - TALLITSCH

Nota: tutte le edizioni di questo testo sono valide.

AMBIT	50447-Morfologia umana, funzioni biologiche integrate degli organi ed apparati umani
INDIVIDUAL STUDY (Hrs)	90
COURSE ACTIVITY (Hrs)	60

EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge on macroscopic and microscopic aspects of human body. Knowledge on essential morphological aspects of human body systems and their morphofunctional relations.

SYLLABUS

Hrs	Frontal teaching
4	Organization of the body. General Anatomical Terminology. Body Regions and Body Cavities.
4	Overview of the Skeleton. The Axial Skeleton. The Appendicular Skeleton. Joints and Their Classification.
3	The Muscular System: Muscle Types and Functions; General Anatomy of Muscles.
2	Overview of the Circulatory System. General Anatomy of the Blood Vessels.
4	Gross Anatomy of the Heart. The Cardiac Conduction System and Cardiac Muscle. Coronary Circulation and Nerve Supply.
2	The Circulatory System: The Pulmonary Circuit, the Systemic Vessels.
2	The Lymphatic System: Lymph and Lymphatic Vessels: Lymphatic Tissues and Organs.
3	The Respiratory System: Overview of the Respiratory System; the upper Respiratory Tract; the Lower Respiratory Tract.
3	The Digestive System: esophagus, stomach, small Intestine, large Intestine.
3	Liver, Gallbladder and Bile Passages; Pancreas.
2	The Urinary System: Anatomy of the Kidney, Ureters, Urinary Bladder, Urethra.
2	Female Reproductive System
2	Male Reproductive System
3	Endocrine and neuroendocrine system.
2	Introduction to Neuroanatomy
3	Spinal cord , spinal nerves, spinal meninges.
4	Brain, encephalic meninges, vascularization of the spinal cord and brain
2	Somatosensory pathways
2	Somatic motor pathways. Visceral motor pathways
2	Cranial nerves
2	Ear and acoustic pathways. Vestibular pathways.
2	Taste pathways. Olfactory pathways
2	Eye and ocular adnexa. Optical pathways