UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Human Anatomy, Histology and Embriology of Stomatognatic Apparatus

2324-1-H4601D002

Aims

The student must have a general understanding of cell structure and tissues, and a precise knowledge of the microscopic anatomy of the organs. The student must know the physiological anatomo-functional relationships of the cranio-cervico-mandibular complex to learn to identify dysmorphic and/or dysfunctional conditions that determine the occurrence of malocclusion or dysfunctional pathologies of the stomatognathic apparatus. Also, the analysis of the gnato-postural relationships extends the dentist's knowledge to postural system.

Contents

The course aims to provide students with theoretical knowledge to learn the macroscopic and microscopic organization of the organs of the human body, and the mechanisms and the changes through which this organization is achieved during embryonic development. In addition the course aims to provide the knowledge of the descriptive and functional anatomy of the cranio-cervico-mandibular complex, in order to assess the dysfunctional aspects and their clinical consequences that recognize in altered stomatognathic functions an etiopathogenic element.

Detailed program

See each module

Prerequisites

College-level scientific knowledge

Teaching form

Frontal lessons, practical activities, virtual dissections.

Textbook and teaching resource

Citology/Histology:
-Ross M.H. e Pawlina W. Istologia Testo e atlante. Casa Editrice Ambrosiana
-Di Primio et al., Istologia Umana, Casa Editrice Idelson-Gnocchi
-S. Adamo et al. Istologia di Monesi. Piccin. V

Histology and Embriology of Tooth:
-Ten Cate. Istologia Orale. Piccin

Embriology:
-Bertini et al., Embriologia umana. Casa Editrice Idelson-Gnocchi
-Moore, Perseaud, Torchia. Embriologia. L'essenziale. Piccin
-De Felici et al., Embriologia Umana, Piccin

Microscopic anatomy:
Wheather. Istologia e anatomia microscopica. Ed. Masson
Mescher AL. Junqueira, istologia di base: Testo e atlante. Piccin
Ross M.H, Pawlina W. Atlante di Anatomia microscopica. Casa editrice ambrosiana
Ovalle W.K, Nahimey P.C. Anatomia microscopica del Netter. CIC Edizioni Internazionali
Rezzani R, Rodella LF. Anatomia microscopica e diagnosi differenziale d'organo. EdiSES

Anatomy:
G. Barbatelli e altri autori. Anatomia Umana. Fondamenti. Con istituzioni di istologia. Edi-Ermes
G. Anastasi e altri autori. Trattato di Anatomia Umana (3 volumi). Edi-Ermes (ed)
“Prometheus” testo-atlante di Anatomia, II edizione, 3volumi
Standring S.. Anatomia del Gray – Le basi anatomiche per la pratica clinica – EDRA
Ellis H, Mahadevan V. Anatomia Clinica - Edizione italiana a cura di F. Cappello - Idelson-Gnocchi

Stomathognathic anatomy:
Lloyd E. Dubrul, Anatomia Orale di Sicher - Edi-Ermes
Fonzi L, Anatomia Funzionale e clinica dello splancnocranio - Edi-Ermes
Baker EW, Anatomia della Testa e del Collo per Odontoiatri - EDIses

Atlas:
Netter. Atlante di anatomia umana, Frank H. Netter, Editore: Edra
Anatomia umana. Atlante. Curatori: G. Anastasi, C. Tacchetti, Editore: Edi. Ermes

Semester

1st + 2nd terms

Assessment method

An extensive mid-course assessment is scheduled for the end of the first semester, by a multiple-choice quiz focused on Citology, Histology, and Gross Anatomy (without Central and Peripheral Nervous system).
The exam will have 30 multiple choice questions. Each correct answer is worth 1 point, each wrong answer or no date is worth 0 points, except for the question on the dental histology, for which wrong answer or no date worth -1 point. The test is overcome with a minimum score of 18/30, which gives access to the assessment of the knowledge of microscopic anatomy, by the identification of a histological slide, with a score ranging from -2 to +2 points.
At the end of the course, a written examination with 4 open questions (8 points/each) will be present. Open questions will be about Head Anatomy, Peripheral Nervous System (3 questions) and Central Nervous System (1 question).
The final mark will be determined by the mean between 1st and 2nd term examinations.

Office hours

Mon-Fri, by appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY