UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Functional Anatomy of The Stomatognathic Apparatus

2627-2-H4602D038

Aims

The objective of the course is to describe the cranio-cervical anatomy and the stomatognathic apparatus by analysing in detail the importance of the various elements in the performance of stomatognathic functions, i.e. in swallowing, chewing, phonation and to a secondary extent in breathing. The functional component in the morphogenesis of the splanchnocranium is also described, and finally, the importance of the stomatognathic apparatus within the postural system is defined.

Contents

Analysis of the functions of stomatognathic apparatus analyzing the muscular, articular and teeth's morphology. This allows to create a relationship between anatomical shape and functionality of the system

Detailed program

Analysis of the movement of the mandible, hyoid bone and cervical spine during mandibular movements, swallowing, chewing and phonation:

- Muscle activation
- Movement of the osseous components of the TMJ (condyle)
- Relationship between dental morphology and functions
- Morphogenetic function of the oro-glossopharyngeal complex on the development of the splanchnocranium
  Analysis of endogenous neurocranial forces in the development of the splanchnocranium and in morphogenesis of the dental occlusion.
  Definition of body posture and static and dynamic body balance. Description of the anatomo-functional

relationships underlying the correlations between dental occlusion and body posture.

Prerequisites

Human anatomy and cranio-cervical anatomy

Teaching form

Frontal lesson of 7 hours (9.00-13.00 and 14.00-17.00) mainly made in conversational mode and partially in interactive mode

Textbook and teaching resource

A. Papini
Origini, forma e (dis)funzioni dell'apparato masticatorio in Homo sapiens
FUP - Firenze

I.A. Kapandji
Anatomia funzionale. Testa e collo.
Maloine - Monduzzi Editoriale

L. Fonzi
Anatomia funzionale e clinica dello splancnocranio
Edi.Ermes

M. Legal - J.F. Lauret
Occlusione e funzione
Masson

L. Busquet
Le catene muscolari
Marrapese editore - Roma

Semester

Second semester of the 2nd year

Assessment method

active partecipation to the activities

Office hours

By appointment after phone or mailing contacts (maurizio.giacomello@unimib.it)

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY | REDUCED INEQUALITIES | LIFE ON LAND | PARTNERSHIPS FOR THE GOALS