

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Gnatologia

1920-5-H4601D024-H4601D068M

Aims

Know the gnathology or the functional anatomy of the stomatognathic apparatus during its functions: swallowing, chewing, speaking and breathing.

Another topic of this course is study the analysis of the relationships between body posture and dental occlusion.

Moreover the student has to know the dysfunctional pathologies of this apparatus: clinical aspects, causes and evolution. The student has to know the different therapies of these pathologies to recreate a good and harmonic function of the system.

Contents

Gnathology is the study of the masticatory function and the whole stomathognathic apparatus, analyzing the structures by a functional point of view.

Detailed program

Cranio-cervico-mandibular anatomy

TMJ anatomy and physiology

Functional anatomy of masticatory muscles

Functional anatomy of the dents-alveolar complex

Cranio-mandibular relationships:

rest position centric occlusion protrusion and neuromuscular control sideshift and neuromuscular control retruded position Posselt diagram and gothic arch The fixed occlusal basics of classical gnathology: Bennett's Angle, Bennett's Movement and Fisher's Angle Intercondyle distance Hinge axys and centric relation The variable occlusal basics of classical gnathology: Antero-lateral guidances The occlusal plane The Von Spee's and Wilson's curves The height of the cusps Overjet and overbite The Frankfurt and Camper planes The mandibular movements The masticatory cycle, the swallowing and the concepts of working and balancing side The occlusal contacts in centric occlusion and during the movements Analysis of the occlusal contacts and relevations methods (clinical and instrumental) The distribution and absorbtion of occlusal forces The mandibular repositioning The dysfunctional pathologies of stomatognathic apparatus (DCCM) The joint pathologies The disc dislocation (with or without reduction) The neuromuscular pathologies The gnathologic diagnosis

Anamnesis, examination and differential tests
Functional instrumental exams
Instrumental exams (X-rays, NMR, CT)
Prognosis
Gnathologic therapies
Relationships with other dental fields
Articulators
Body posture analysis
Relationship between body posture and stomatognathic apparatus
Headaches and migraines: clinical aspects and classification
Headache of dental and gnathologic origin
The cervical spine and the cranio-cervical dysfunctional pathologies
Other postural pathologies related to dental occlusion
Other postural therapies
Prerequisites
Completion of the examination in Human Anatomy, Physiology and Basic Pathology
Teaching form
Lectures with clinical samples. Stages in Gnathology department of Dental Clinic of S. Gerardo Hospital (Monza)
Textbook and teaching resource
L Fonzi
Anatomia funzionale e clinica dello splancnocranio
Edi.Ermes
Silvestrini Biavati
Trattamento semplificato in gnatologia
EDRA

Occlusione e funzione
Masson
Peter Dawson
Functional occlusion. From TMJ to smile design.
Mosby Elsiever
Semester
Second semester 5 th year
Assessment method
The oral examination method will be used for the knowledge and skills acquired.
In the Covid-19 emergency period, lessons will be held remotely asynchronously with synchronous videoconferencing events. During the Covid-19 emergency period, oral exams will only be online. They will be carried out using the WebEx platform and on the e-learning page of the course there will be a public link for access to the examination of possible virtual spectators.
Office hours
By appointment after phone or mailing contacts

Legall-Lauret