UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Human Anatomy and Stomatognathic System II

2526-1-H4602D001-H4602D00103

Aims

Detailed knowledge of the central nervous system (CNS).

Contents

The course will provide the basic elements for the study of the central nervous system, necessary for understanding pathological changes.

Detailed program

CENTRAL NERVOUS SYSTEM

General morphologic and functional organization.
Synapses, neurotransmitters and anatomical basis of the reflex arch.

CENTRAL NERVOUS SYSTEM

Basic concepts on nervous system development.

Position, relations, gross morphology, white and gray matter organization, internal subdivision, major features concerning microscopic organization and main functions of the following structures:

- spinal cord;
- brain stem (medulla, pons, midbrain);

- cerebellum;
- diencephalon;
- telencephalon, with particular focus on the cerebral cortical areas and their functions.

The limbic system : position, gross morphology and main functions of hippocampal formation, amygdala, septal nuclei, ventral striatum. Basic knowledge of limbic pathways.

Ventricular system: cerebral ventricles, their location and relationships, communication with subarachnoid space. Cerebrospinal fluid (CSF): composition, circulation and functions.
Meninges: architecture and functions.

Basic knowledge of the main sensory and motor pathways: spinal and medial lemniscal tracts ; spinocerebellar tracts; descending motor systems; cerebellar and basal ganglia motor control; olfactory, gustatory, visual and auditory systems.

Prerequisites

Knowledge of the topics carried out in "Human Anatomy and the Stomatognathic System II"

Teaching form

8 frontal and two interactive lectures, each lasting 2 hours.

Textbook and teaching resource

See the "Human Anatomy and the Stomatognathic System II" general syllabus.

Semester

2nd term of the 1 year

Assessment method

For final assessment see "Human Anatomy and the Stomatognathic System II" general syllabus.

Office hours

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Sustainable Development Goals

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