UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Pathological Anatomy and Hystology

2122-2-H4601D007

Aims

The course will offer an overview of the cultural background and specific features required for a pathologist and for a anatomical pathology Technician. In particular skills of the training course are: specimens in the histological lab (management and preparation phase); histological and cytological diagnosis; the anatomy-pathological report: quality controls in the anatomical pathology laboratory; fine needle aspiration biopsy application, immunohistochemistry, molecular biology and electron microscopy; pathological overview of organ diseases: cardiovascular system (ischemic heart disease and atherosclerosis), respiratory system (pneumonias and tumours), gastrointestinal system (gastritis and ulcer, chronic inflammatory bowel disease, hepatitis, gastrointestinal cancers),urinary system (glomerulonephritis, kidney and bladder cancers); Endocrine system (thyroid and adrenal pathology), hemolympho-poietic system (leukaemia and lymphomas), nervous system (vascular, infectious and neoplastic pathologies); skin and soft tissue.

Contents

The aim of the course is to provide students with the fundamentals of Pathological basis of organs and apparatus diseases, and provide the proper techniques for their study.

Detailed program

Professional duties of the pathologist and of the Technician. Type of samples processed in the Pathology Unit and diagnostic Pathology: Fixation, sampling. Histologic and cytological diagnosis: the pathologic report. Quality controls in Pathology. Diagnostic applications of fine needle aspiration cytology, immunohistochemistry, molecular biology and electronic microscopy. Systematic review of organ diseases: cardiovascular, respiratory, gastro enteric, urinary apparatus; endocrine, hemopoietic, nervous systems, skin and soft tissues (tumors).

Prerequisites

Pathology.

Teaching form

Lectures and exercises

During Covid-19 pandemic teaching will be delivered remotely with occasional physical events.

Textbook and teaching resource

The Teachers will provide educational materials.

Semester

Second semester

Assessment method

Final examination with multiple questions (50-80 questions) on the whole program. The oral part will delve on the areas shown to be weak from the written test.

During Covid-19 pandemic exams will be done remotely on virtual platforms.

Office hours

Lunch break

Sustainable Development Goals

CLEAN WATER AND SANITATION