UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Clinical Biochemistry

2021-3-H4102D055-H4102D063M

Aims

The course aims to provide students with the knowledge of the basic principles of pathological anatomy such as autopsy, macroscopic sampling of surgical specimens, tissue processing and reading under an optical microscope.

At the end of the course, students will be able to understand the problems related to the histological processing of biopsy samples and to understand the meaning of pathological anatomy in the study of diseases.

Contents

The course is divided into exclusively practical activities with exercises performed by the students under the strict supervision of the tutor in the areas foreseen by the routine activity of the pathological anatomy laboratory.

1. Visit to the autopsy room and participation in an autopsy.
2. Assistance in sampling at the pathological anatomy laboratory.
3. Presentation of the histological processing of the biopsy samples through a visit to the pathological anatomy laboratory.
4. Practical exercise under the optical microscope.
5. Presentation and discussion of a histological case to the whole class.

Detailed program

The course consists of 15 hours of teaching divided into three modules of 5 hours each to be held at the pathological anatomy laboratory of ASST Papa Giovanni XXIII:

First module: Frontal lesson with presentation of what pathological anatomy is and how the organization of the path will be articulated within the pathological anatomy laboratory; visit of the autopsy room with presentation of the autopsy activity; possible participation in autopsy diagnosis (total duration of 5 hours).

Second module: demonstration in the sampling room of the pathological anatomy laboratory of the macroscopic description techniques of the operating pieces and guided practical exercise on biopsy samples; visit and presentation of the histological processing methods that allow the preparation of histological slides starting from the biopsy samples; visit to the molecular pathology section of the laboratory (total duration 5 hours).

Third module: practical exercise under the optical microscope with reading of histological preparations and presentation by students organized in small working groups of real histological cases taken from daily practice to the whole class with tutor-led discussion (total duration 5 hours).

Prerequisites

In consideration of the topics covered, it is necessary to have acquired the contents of the courses of normal human anatomy and general pathology.

Teaching form

The course includes a frontal presentation to introduce the basic principles of the pathological anatomy discipline and to describe the behavior and attention that students will have to maintain during the visit and the practical activities to be carried out in the pathological anatomy laboratory.

During the visit of the autopsy room and the sections of the laboratory, the tutor will be responsible for showing the students directly how the activity takes place and in particular he will illustrate how to perform the sampling of the surigal specimens and the reading of the histological preparations under the microscope.

Textbook and teaching resource

The course is totally practical and does not require any didactic material from the students; during the course it will be possible to construct digital documents of the activity carried out with the creation of a final presentation of the cases under discussion.

Semester

Second semester of the academic year; in light of the need to directly access the laboratory, the dates of the lessons will be agreed on the basis of the availability of the practice spaces in the laboratory in accordance with the didactic needs of the students.

Assessment method

The development of the course foresees a close contact with the tutor who will evaluate the active participation of the students during the course; the final presentation will be subject to an overall evaluation of the learning path.

Office hours

By telephone appointment at 035 2675064 (secretariat of pathological anatomy) it is possible to make an appointment every Wednesday at 14:00 at the pathological anatomy laboratory of ASST Papa Giovanni XXIII located in Tower 7 floor 1 technological plate.