UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Blood and Immune System Disease

2122-2-I0303D007-I0303D033M

Aims

The student must be able to:

-Characterize the blood cellular and biochemical composition and describe the principal diseases of the hematological, immunological and coagulation systems

Contents

At the end of this course, the students must have learned about the consequences of an altered function of the hematopoietic, immunologic, and coagulation systems.

Detailed program

BLOOD AND MORPHOLOGY OF BLOOD CELLS. Blood composition and the morphological characteristics of blood cells. Hematopoiesis and hemocatheresis. Pathophysiology of leukocytes, red blood cells, and platelets. Stem cell characteristics and properties. Plasma composition. Mechanisms of blood coagulation activation and inhibition. BLOOD DISEASES. Anemias. Acute and chronic leukemias (definition and diagnostic workup). Myelodysplasias and myeloproliferative diseases (main principles). DISEASES OF THE IMMUNE SYSTEM. Multiple myeloma (focus on the diagnostic process). Lymphomas (general principles). BLOOD COAGULATION DISEASES. Thrombotic and hemorrhagic diseases.

Prerequisites

Teaching form

Lesson in attendance, subject to any ministerial changes following the COVID pandemic situation

Textbook and teaching resource

Reviews

Semester

second term

Assessment method

"In itinere" written exam with multiple choice test, to evaluate a global knowledge of the program

Test in attendance, subject to any ministerial changes following the COVID pandemic situation

Final vote is based on the average grade point normalized for credits obtained in each module

Office hours

By appointment