UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Clinical Hematology

2627-2-I0302D047-I0302D065M

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 - clinical aspects and treatment

Contents

At the end of this course, the students must have learned about the consequences of an altered function of the hematopoietic 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

Eight hours of lectures utilizing slides and a whiteboard in an instructive manner.l

Textbook and teaching resource

Reviews

Semester

second term

Assessment method

"In itinere" written exam with 30 multiple choice test, to evaluate a global knowledge of the program

Office hours

by appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING