

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Blood and Immune System Diseases

2021-2-I0302D007-I0302D028M

Aims
The student must be able to perform the:
-Characterization of blood cellular composition and description of main hematological and immunological diseases
Contents

Detailed program

BLOOD AND MORPHOLOGY OF THE BLOOD CELLS.

- Morphological characteristics of blood cells.
- Methodology for counting peripheral blood particles and for automated differentiation of leukocytes (automated leukocyte formula).
- · Hemopoiesis and hemocateresis.
- Characteristics and properties of stem cells (clinical and experimental use).
- The hematological report (knowledge of direct and calculated parameters, reading and interpretation of values). BLOOD DISEASES.
- Microcytic anemias (martial deficiency and thalassemia) with evidence of instrumental outlook.
- Normocytic anemias (post-hemorrhagic, renal failure, maturation block) with evidence of instrumental outlook.
- Macrocytic anemias (B12 deficiency and folate) with evidence of instrumental frameworks.
- Acute and chronic leukemias (definition and diagnostic framework with visualization of instrumental outlook).
- Lymphoproliferative diseases
- Myelodysplasias and myeloproliferative diseases.

Prerequisites

Teaching form

During COVID-19 period the lessons will be performed on-line

Textbook and teaching resource

Reviews

Semester

Second year- First semester

Assessment method

"In itinere" written exam with multiple choice test, to evaluate global knowledges about course program

During COVID-19 emergency written tests will be performed on-line with proctoring control

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

Office hours

making an appointment