UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Diagnostics Hematology

2223-2-I0302D008-I0302D030M

Aims

Student’s skills:

- To describe the physiopathology of primary haemostasis, of coagulation and fibrinolytic systems and inhibitors.
- To list the drugs acting on haemostatic system and their mechanism of action.
- To describe the role of haemostasis lab and illustrate pre-analytical, analytical features and related methods.
- To describe the principles of coagulation tests. TAO lab monitoring.
- To define ABO, Rh, and other systems and their lab study.
- To describe anti-erythrocytes antibodies, methods used to detect them and clinical meaning.
- To define methods for blood group assessment and for the search of anti-erythrocytes antibodies. To describe the physiopathology of haemolytic disease of the newborn and of autoimmune anaemia.
- To define the concept of transfusion medicine, and to describe adverse reactions and transfusion safeness.

Contents

Haemostasis and fibrinolysis physiopathology and related lab tests. Platelets, red blood cell pathologies, and their diagnostics. Transfusion medicine.

Detailed program

- Haemostasis lab: pre-analytical, analytical features and related methods.
- Coagulation tests. TAO lab monitoring.

- ABO, Rh, and other systems and their lab study. Anti-erythrocytes antibodies and clinical meaning.
- Methods for blood group assessment and for the search of anti-erythrocytes antibodies. Physiopathology of Haemolytic disease of the newborn and of autoimmune anaemia.
- Blood components: preparation, storage and monitoring
- Transfusion medicine, adverse reactions and transfusion safeness.

Prerequisites

Objectives of the course of Clinical Biochemical Analysis (these are the courses indicated in Regolamento)

Teaching form

Lectures and exercises

Textbook and teaching resource

Teachers will provide educational material

Semester

First semester

Assessment method

“In itinere” written test, aimed at evaluating candidate knowledge of the whole program, consisting in 10 open questions with short answer.

Office hours

By appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING