

## SYLLABUS DEL CORSO

### Ematologia Diagnostica

2122-2-I0302D008-I0302D030M

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#### 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

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