

Principles of Clinical Medicine

STUDY PLAN 2022-2023

Coordinated by Dr Sabela Lens and Dr Virginia Hernández-Gea

Dr Sabela Lens and Dr Virginia Hernández-Gea are Hepatologists at Hospital Clínic of Barcelona, CIBERehd, IDIBAPS, University of Barcelona.

GENERAL INFORMATION

Subject Name	Principles of Clinical Medicine
Code	TBD
Type	Optional Subject
Teaching	
Coordinator	Dr Sabela Lens and Dr Virginia Hernández-Gea
Contact Details	slens@clinic.cat , vihernandez@clinic.cat
ECTS credits	3 credits

OBJECTIVES

The purpose of this subject is to provide students with scientific and practical knowledge about the principles of clinical medicine. Specifically, the bases of the homeostatic mechanisms of the human body will be assessed, as well as their imbalance during illness. These concepts will be integrated with the study of the anatomical and physiopathological mechanisms involved in various organ-specific diseases for the design and implementation of translational research. The overall objective is to provide the knowledge and a scientific basis in the setting of clinical medicine in order to explore areas of interest in clinical research.

COMPETENCES TO BE GAINED DURING THE STUDY

Generic:

- G1.** Learn the principles of general internal medicine balanced with a comprehensive exposure to the medical subspecialties.
- G2.** Adopt the learning skills that are necessary to undertake further translational research studies in medicine.

Specific:

- S1.** To understand and to recognize the normal structure-function of the human body, at molecular, cellular, tissue, organ and system levels.
- S2.** Gain an adequate knowledge of the sciences on which medicine is founded, and the translational perspective of the research based upon molecular medicine.
- S3.** Receive a balanced exposure of the physiopathological mechanisms involved in organ-specific diseases.

THEMATIC BLOCKS

1. Basic Principles
 - Human Anatomy
 - General Pathology
 - Molecular Pathology
2. Principles of Internal Medicine
 - Principles of Internal Medicine
 - Autoimmune Diseases
 - Intensive Care Medicine
 - Infectious Diseases
 - Nephrology
 - Dermatology
 - Ophthalmology
3. Cardiovascular and Lung diseases
 - Cardiology
 - Lung Diseases
4. Digestive and Metabolic Diseases
 - Hepatology
 - Gastroenterology
 - Endoscopy
 - Endocrinology
5. Oncology and Hematopoietic diseases
 - Malignant Hematology
 - Pediatric Oncology
 - Precision Oncology in Lung Cancer
 - Radiotherapy
6. Principles of Surgery, Organ Transplantation and Anesthesiology
 - Anesthesiology
 - Abdominal Surgery
 - Solid Organ Transplantation
7. Principles of Radiology
 - Principles of Radiology
 - Interventional Radiology
8. Public Health and Infectious Diseases
 - Infectious Diseases
 - Prevention and Public Health
9. Nervous System Diseases
 - Neurology
 - Neurosurgery
 - Psychiatry
 - Neuroscience: Brain Health
10. Obstetrics, Gynecology and Pediatrics
 - Obstetrics and Gynecology
 - Neonatology

METHODOLOGY

Total face to face training hours: 3 credits ECTS x 25h/credit = 75h

EVALUATION

Evaluation criteria: 50% of the final score will depend on the attendance and active participation in class. The remaining 50% will be obtained through a written exam. The written exam will be based on a multiple option test

with 50 questions. To pass the subject, students will have to fulfill three requisites: Attendance-score > 20, exam score > 20, and overall score (attendance + exam) > 50.

Reevaluation: In case of failing the ordinary evaluation, students will have to critically appraise 3 scientific articles and present the analysis in form of oral presentation in front of an evaluation committee. In the re-evaluation the final score will never get over 50 points. English should be the language for the oral presentation.

REFERENCES

Books:

Farreras/Rozman. Internal Medicine.

Authors: P. Farreras Valenti, C. Rozman

Editorial: Elsevier, May 2016

Harrison Principles of Internal Medicine.

Authors: Kasper, Fauci, Hauser, Longo, Jameson, Loscalzo

Editorial: McGraw-Hill Medical. 20th edition

Guyton and Hall. Textbook of Medical Physiology.

Authors: John E.Hall

Editorial: Elsevier, 13th edition.

<http://jpkc.hactcm.edu.cn/2012yxslx/file/Textbook%20of%20Medical%20Physiology.pdf>