

PRINCIPLES OF CLINICAL MEDICINE

STUDY PLAN 2019-2020

Coordinated by Prof Josep M Llovet ICREA Professor, IDIBAPS, University of Barcelona. Director of the Liver Cancer Program, MSSM (New York). Professor of Medicine, Department of Medicine, Faculty of Medicine, University of Barcelona and **Dr Sabela Lens** Hepatologist at Hospital Clínic of Barcelona, CIBERehd, IDIBAPS, University of Barcelona.

GENERAL INFORMATION

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| Subject Name | Principles of Clinical Medicine |
| Code | 573671 |
| Type | Optional Subject |
| Teaching | Second Semester |
| Coordinator | Prof Josep M Llovet and Dr Sabela Lens |
| Contact Details | jmllovet@clinic.cat and slens@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.

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, as well as a good understanding of the analysis of the biological functions.

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 and Radiology
 - Principles of Internal Medicine
 - Radiology
3. Cardiovascular and Lung diseases
 - Cardiology
 - Lung Diseases
4. Digestive and Metabolic Diseases
 - Hepatology
 - Gastroenterology
 - Endocrinology
5. Oncology and Hematopoietic diseases
 - Hematology
 - Medical Oncology
 - Radiotherapy
6. Principles of Surgery
 - General Surgery
 - Abdominal Surgery
7. Renal, dermatological and rheumatological diseases
 - Nephrology
 - Dermatology
 - Rheumatology
8. Public Health and Infectious Diseases
 - Infectious Diseases
 - Prevention and Public Health
9. Nervous System Diseases
 - Neurology
 - Neurosurgery
 - Psychiatry
 - Psychology
10. Obstetrics, Gynecology and Pediatrics
 - Obstetrics and Gynecology
 - Pediatric diseases
 - Neonatology

METHODOLOGY

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

- a) Face-to-face training (30h): Lectures and Seminars
- b) Home training (45h): Individual and group work

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. To pass the subject, students will have to fulfill three requisites: Attendance-score $\geq 20/50$, exam-score $\geq 20/50$, and overall score (attendance + exam) $\geq 50/100$.

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. 19th 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>

Articles:

Prevalence of somatic mutl homolog 1 promoter hypermethylation in Lynch syndrome colorectal cancer. Moreira L, Muñoz J, Cuatrecasas M, Quintanilla I, Leoz ML, Carballal S, Ocaña T, López-Cerón M, Pellise M, Castellví-Bel S, Jover R, Andreu M, Carracedo A, Xicola RM, Llor X, Boland CR, Goel A, Castells A, Balaguer F; Gastrointestinal Oncology Group of the Spanish Gastroenterological Association. *Cancer*. 2015 May 1;121(9):1395-404. doi: 10.1002/cncr.29190. Epub 2014 Dec 29.

Cause, Pathogenesis, and Treatment of Nonalcoholic Steatohepatitis. Diehl AM, Day C. *N Engl J Med*. 2017 Nov 23;377(21):2063-2072. doi: 10.1056/NEJMra1503519. Review.

Sorafenib in advanced hepatocellular carcinoma. Llovet JM, Ricci S, Mazzaferro V, Hilgard P, Gane E, Blanc JF, de Oliveira AC, Santoro A, Raoul JL, Forner A, Schwartz M, Porta C, Zeuzem S, Bolondi L, Greten TF, Galle PR, Seitz JF, Borbath I, Häussinger D, Giannaris T, Shan M, Moscovici M, Voliotis D, Bruix J; SHARP Investigators Study Group. *N Engl J Med*. 2008 Jul 24;359(4):378-90. doi: 10.1056/NEJMoa0708857