

SUBJECT TEACHING GUIDE

G146 - Hospital Attachment I

Degree in Medicine

Academic year 2023-2024

1. IDENTIFYING DATA

Degree	Degree in Medicine	Type and Year	Compulsory. Year 4	
Faculty	Faculty of Medicine			
Discipline	Human Clinical Training Subject Area: Human Pathology			
Course unit title and code	G146 - Hospital Attachment I			
Number of ECTS credits allocated	6	Term	Semester based (2)	
Web				
Language of instruction	Spanish	English Friendly	No	Mode of delivery Face-to-face

Department	DPTO. MEDICINA Y PSIQUIATRIA			
Name of lecturer	JON INFANTE CEBERIO			
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Other lecturers	JAIME JIMENO FRAILE EMILIO RODRIGO CALABIA ISABEL SECO OLMEDO JULIO JOSE DEL CASTILLO DIEGO JUAN CARLOS RODRIGUEZ SANJUAN JUAN FRANCISCO NISTAL HERRERA EMILIO FABREGA GARCIA JOSE LUIS GUTIERREZ BAÑOS FERNANDO ANTONIO PAZOS TORAL MIGUEL ANGEL HERNANDEZ HERNANDEZ MARIA ARANZAZU BERMUDEZ RODRIGUEZ HECTOR ALONSO VALLE JOSE LUIS HERNANDEZ HERNANDEZ DAVID ITURBE FERNANDEZ MONICA GONZALEZ MARTINEZ JOSE MANUEL CIFRIAN MARTINEZ JOSE ANTONIO VAZQUEZ DE PRADA TIFFE LUCRECIA YAÑEZ SAN SEGUNDO CAMILO GONZALEZ FERNANDEZ CARMELO SIERRA PIQUERES IVAN GARCIA MARTIN RAMON AGUSTIN DOMINGUEZ DIEZ MARTA MARTIN MILLAN GEMA FERNANDEZ FRESNEDO ALEJANDRO PONTON CORTINA FERNANDO RODRIGUEZ FERNANDEZ MARIA ANGELES BALLESTEROS SANZ MARTA LOPEZ SANCHEZ FERNANDO ORTIZ FLORES EDUARDO MIÑAMBRES GARCIA FEDERICO JOSE CASTILLO SUESCUN JOSE AURELIO SARRALDE AGUAYO ROBERTO BALLESTERO DIEGO FELIX CAMPOS JUANATEY MARCOS GOMEZ RUIZ SARA NARANJO GOZALO SERGIO ZUBILLAGA GUERRERO FRANCISCO JESUS GONZALEZ VILCHEZ MARIA JOSE FERNANDEZ DIAZ ROBERTO FERNANDEZ SANTIAGO ANTONIO LOPEZ USEROS CARMEN CAGIGAS FERNANDEZ CAROLINA GIL MANRIQUE VALENTIN TASCÓN QUEVEDO MANUEL JESÚS ZARAUZA NAVARRO ROBERTO DE LA FUENTE ROYANO EDUARDO LARRAZ MARMOL CARLOS ANTONIO AMADO DIAGO MARIA TERESA ARIAS LOSTE CARLOS JUAREZ CRESPO LUIS MARTIN PENAGOS LIDIA CRISTOBAL POCH IVANA PULITANI BORJA SUBERVIOLA CAÑAS DAVID CASTANEDO VAZQUEZ
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ENRIQUE TOLEDO MARTINEZ
 VÍCTOR MANUEL MORA CUESTA
 JAVIER PARDO LLEDIAS
 JOSE IGNACIO MARTIN PARRA
 ENRIQUE MARIA OCIO SAN MIGUEL
 JUAN GARCIA CARDO
 SONIA CASTANEDO BEZANILLA
 DANIELA ANDIA TORRICO
 ANA GARCIA MIGUELEZ
 EUGENIO TRILLO BOHAJAR
 IRENE GARCIA GUTIERREZ
 JAIME LOPEZ GUTIERREZ
 MARIA DEL MAR ACHALANDABASO BOIRA
 JUAN ANDRES ECHEVERRI CIFUENTES
 RODRIGO PEREA MUÑOZ
 MARIA SOLEDAD DUQUE GOMEZ
 MARIA DE LAS MERCEDES DEL OLMO FALCONES

3.1 LEARNING OUTCOMES

- The student should be able to know how to perform:

- 1.- The clinical history, fundamental base of the medical act, with all its sections, previously knowing its correct systematization, taking special care of the attitude towards the patient, maintaining a correct doctor-patient relationship, and considering the patient in an integral manner. This should also apply to the following section of physical exam.
2. Physical examination should be also well systematized, including general examination, head, neck, chest (lung and heart), abdomen and limbs. With correct interpretation of the data obtained by inspection, palpation, percussion and auscultation. It may be advisable to know how to perform a rectal examination, or at least have observed how to do it.
- 3.- The correct request of laboratory tests and other complementary explorations, in accordance with the clinical syndrome present in each case.
- 4.- The interpretation of the laboratory data, electrocardiogram, functional and imaging tests (radiological, echographic and endoscopic) in relation to the different diseases studied in the corresponding subjects of medical and surgical pathology , in order to establish a differential diagnosis, approach to diagnosis and prognosis, and, where appropriate, therapeutic approach and follow-up.

Specifically within the surgical field, the student should be able to:

- 1.- To know the environment of the surgical area, the norms of asepsis in the operating room, to recognize the basic surgical material, as well as to make sutures, cleaning of wounds and other techniques of minor surgery.
- 2.- Manage hemostasis techniques (compression, tamponade, ligatures).
- 3.- Be able to assess the surgical risk and the more frequent postoperative complications.

4. OBJECTIVES

SEMINARS

The general objective of this subject for the student is to continue learning the semiological knowledge and technical skills that allow him to achieve the "clinical competence" required for a Primary Care Physician.

In addition to the practical objectives in the hospital, 18 practical seminars are given through a selection of paradigmatic clinical cases, which are exposed, commented, discussed and complemented with the appropriate theoretical information, stimulating the active participation of the students.

The selected topics for the seminars are as follows:

- 1) Evaluation of anemia patient: interpretation of blood count and complementary tests
- 2) Evaluation of patient with hemorrhage and thrombosis: interpretation of coagulation study and complementary tests
- 3) Management of hypertension
- 4) Acute renal failure
- 5) Chronic renal failure
- 6) Practical Approach to Diabetes: gluco-metabolic control and vascular disease
- 7) Jaundice
- 8) Ascites
- 9) Volume depletion
- 10) Cardiovascular risk
- 11) Pulmonary embolism
- 12) Cough and hemoptysis
- 13) Dyspnoea
- 14) Non-invasive mechanical ventilation
- 15) Heart Failure
- 16) Ischemic heart disease
- 17) Chest pain
- 18) Anaphylactic Shock

During the seminars, the teacher will present one or more clinical cases with discussion and differential diagnosis of symptoms, signs, analytical, radiographs and any other complementary evidence that may be provided.

Through the presentation of clinical cases it is intended that the student begins to familiarize himself with the diagnostic process, through the rational and orderly use of all the data obtained from the anamnesis and physical examination, as well as the information provided by the different Laboratory tests and radiology .

PRACTICES IN THE MEDICAL AREA

The practices are carried out in groups of 2-3 students, under the supervision of a Tutor. The students are distributed by the Internal Medicine, Digestive, Cardiology, Nephrology, Allergology, Hematology, Endocrinology and Pneumology Services.

The practices in the hospital try to put the student in contact with the patient. The student should learn to make a systematized clinical history in all its sections, to perform an orderly and complete clinical examination, and to make indications of complementary tests that allow to establish a diagnosis and indicate a therapeutic attitude.

Through the clinical history performed by them, and once compared with that made by the doctors of the Service, the Tutor will guide them to understand and integrate the elements of the diagnostic process.

The student must carry out a minimum of 10 clinical records. He will also be presented with simple tests performed for the diagnosis and will be told some details of the treatment, easy to understand.

INTERNSHIPS IN THE SURGERY AREA

Students are assigned individually, with few exceptions, to an Internship Tutor. Rotations include General Surgery, Thoracic Surgery, Cardiovascular Surgery, Urology, Plastic Surgery, Intensive Care Medicine and Anesthesiology.

The surgical internships have the objective of promoting the student's knowledge of the surgical area environment, aseptic standards in the operating room and basic surgical material, as well as active participation in minor surgery (sutures, wound cleaning), management of hemostasis techniques (compression, tamponade, ligatures). During the visit and in the outpatient clinic they will also learn the criteria for preoperative assessment of surgical risk, the management of patients with normal postoperative course and the most frequent postoperative complications.

Under the supervision of the tutor they will learn how to remove suture material from a wound, how to perform local anesthesia, as well as fluid therapy techniques and postoperative management of pain, nausea and vomiting, mobilization and nutrition.

They will assist to surgical interventions in open surgery as well as laparoscopic, endoluminal or robotic surgery of the different specialties covered.

During the surgical rotation, the student will take five clinical histories of surgical patients and must keep a diary of activities in which he/she will collect relevant data of his/her presence in the surgical hospitalization floor, outpatient clinic or operating room. All this information must be reflected in the activity notebook of the course.

6. SUBJECT PROGRAM

CONTENTS

1	The students must attend the practices in the medical and surgical area according to the established schedules.
2	Students should attend the seminars according to the established schedules.
3	Most of the work will be done during practices and seminars. The students will develop their own work according to the requirements of the subject.
4	The evaluation will be the result of your attendance and activity during the practice, the continuous evaluation during the seminars, and the final exam.
5	Department of Medical and Surgical Sciences. University of Cantabria, School of Medicine

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Attendance and participation in the medical seminars and surgical simulation sessions is required to obtain a passing grade. These activities account for 20% of the overall final grade. The evaluation of the clinical practicals will be carried out by the	Others	No	No	20,00
The evaluation will be done by the assigned Tutor, assessing punctuality, knowledge and skills. A positive evaluation of this period, both in the medical and surgical areas, is required in order to obtain the approved qualification.	Others	No	Yes	50,00
Positive evaluation of the hospital internships, medical seminars and surgical simulation sessions will allow to take the final exam. The complementary final exam will consist of two clinical cases (medical and surgical), each followed by 5 direct short a	Written exam	No	No	30,00
TOTAL				100,00
Observations				
<p>Attendance and participation in the Seminars, Classroom Practical and Hospital Practical is essential to obtain a passing grade. The Professor responsible for each of these activities will reflect the degree of attendance and participation in them and will evaluate the degree of knowledge and aptitudes of the student. The activity developed will be reflected in a Practice Notebook where the student will collect at least 5 complete commented clinical histories, corresponding to their rotations in the medical area, and another 5 clinical histories or, alternatively, a summary (diary type) of the activities developed in the surgical area.</p> <p>EVALUATION</p> <p>* Medical seminars and surgical classroom practices: Attendance (minimum 80%) and participation in the medical seminars and surgical simulation practices is essential to obtain a passing grade in the course and is sufficient to obtain the maximum score in this section.</p> <p>* Hospital internships: The attendance to the hospital internships and its exploitation are essential to obtain a passing grade in the subject and are sufficient to obtain 60% of the score in this section. The remaining 40% corresponds to the evaluation carried out by the assigned Tutor Teacher, assessing punctuality, knowledge, attitude, skills and the content of the practice notebook. The activity developed will be reflected in a Practice Notebook where the student will collect at least 5 complete clinical histories corresponding to his stay in the medical area and a summary (diary type) of the activities developed in the surgical area.</p> <p>* Complementary Exam: The positive evaluation of the Hospital internships and seminars and classroom practices will allow the student to take the complementary exam. The exam will not generate a grade increase if the grade is lower than 5.1. From the grade of 5 and up to 10, the grade increase will be proportional, from 0 to a maximum of 3 points. There will be a compound exam that will include clinical cases (related to the practices of the medical and surgical areas) and a multiple-choice questionnaire, corrected by chance, with questions of the contents of the medical seminars and surgical classroom practices. If the attendance is limited or suspended due to the health situation, a test exam with correction by chance will be carried out through the Virtual Classroom.</p>				
Observations for part-time students				
The evaluation of part-time students will be identical to the evaluation of regular students.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

HARRISON'S PRINCIPIOS DE MEDICINA INTERNA. A. Fauci

FARRERAS ROZMAN. TRATADO DE MEDICINA INTERNA. C. Rozman

SCHWARTZ PRINCIPIOS DE CIRUGIA. F. Brunicardi

SABINSON TRATADO DE CIRUGIA. FUNDAMENTOS BIOLÓGICOS DE LA PRÁCTICA QUIRÚRGICA. C. Townsend