UAB
Universitat Autònoma de Barcelona

Medical-Surgical Placement I

2026/2027

Code: 106715
Credits: 7

Degree programme	Type	Course
Medicine	OB	4

Contact lecturer

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Group languages

You can consult this information at the end of the document.

Prerequisites

It is recommended that students have acquired the competencies developed during previous courses, including:

- Basic competencies in physiology, pathophysiology and general and specific semiology of the cardiovascular, respiratory and musculoskeletal systems.
- Knowledge of human anatomy, histology, genetics, molecular biology and pharmacology, general and specific to the cardiovascular, respiratory and musculoskeletal systems.
- Sufficient knowledge of the psychological bases of states of health and disease, as well as an adequate level of knowledge in interpersonal communication and professional behavior.
- Students will acquire a commitment to preserve the confidentiality and professional secrecy of the data to which they may have access by reason of their learning in health care services. They will also maintain an attitude of professional ethics in all their actions.

Objectives

Obtaining and developing a medical history that contains all the relevant information, structured and patient-centered, taking into account all age groups, gender, cultural, social, and ethnic factors.

Performing a general physical examination and system-specific examination appropriate to the patient's age and gender, in a comprehensive and systematic manner, as well as a mental assessment.

Ordering appropriate complementary tests for the diagnosis of major diseases of the cardiovascular system,

respiratory system, and musculoskeletal system, based on the studied clinical cases.

Effectively providing the patient and/or their companion with relevant information about the pathological process, its foundations, and consequences, including delivering bad news appropriately.

Learning outcomes

1. Anticipate and compare information for good decision-making.
2. Describe the main pathological situations of the musculoskeletal system, the blood, the cardiovascular system, the digestive system, the respiratory system, the endocrine system, the nervous system, the genitourinary system, infectious pathologies and diseases of the elderly.
3. Write a report giving guidance on diagnosing the main infectious diseases, diseases of the blood, of the elderly, and of the hematopoietic system, the cardiovascular system, the digestive system, the respiratory system, the endocrine system, the nervous system, the renal and genitourinary system, the retroperitoneal system and the musculoskeletal system.
4. Perform a suitable physical examination for the main infectious diseases, diseases of the blood, of the elderly, and of the hematopoietic system, the cardiovascular system, the digestive system, the respiratory system, the endocrine system, the nervous system, the renal and genitourinary system, the retroperitoneal system and the musculoskeletal system.
5. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
6. Describe the effects on all organs and systems of diseases of the blood, the cardiovascular system, the digestive system, the respiratory system, the endocrine system, the nervous system, the genitourinary system, infectious pathologies and diseases of the elderly.
7. Explain the mechanisms by which illness affects the structure and function of the human body.
8. Indicate the complementary examinations for diagnosing the main infectious diseases, diseases of the blood, of the elderly, and of the hematopoietic system, the cardiovascular system, the digestive system, the respiratory system, the endocrine system, the nervous system, the renal and genitourinary system, the retroperitoneal system and the musculoskeletal system.
9. State the most probable diagnosis for the main infectious diseases, diseases of the blood, of the elderly, and of the hematopoietic system, the cardiovascular system, the digestive system, the respiratory system, the endocrine system, the nervous system, the renal and genitourinary system, the retroperitoneal system and the musculoskeletal system.
10. Design the treatment for the main infectious diseases, diseases of the blood, of the elderly, and of the hematopoietic system, the cardiovascular system, the digestive system, the respiratory system, the endocrine system, the nervous system, the renal and genitourinary system, the retroperitoneal system and the musculoskeletal system.

Contents

Clinical care practices in the medical and surgical field in the hospitalization rooms, day hospital, external consult

- General aspects of the clinical relationship and the concepts of health and illness.

- Care methodology of the perioperative process

- Etiology, pathophysiology, semiology and clinical propaedeutics, major syndromes and disease manifestations

- Diagnostic and therapeutic procedures for the most common diseases

- Functional exploration of the different devices and systems.

- Surgical act. Follow-up of the patient after a surgical procedure. Control of the consequences of surgery

- Surgical syndromes

The clinical experience can be completed by attending the various sessions: care clinics, case closing sessions, (

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
PAPERS ELABORATION / PERSONAL STUDY / READING ARTICLES / REPORTS OF INTEREST	65	2.6	
ASISTENCIAL CLINICAL PRACTICES (PCAh)	105	4.2	

This guide describes the framework, content, methodology, and general rules of the subject, in accordance with the current curriculum. The final organization of the subject regarding the number and size of groups, scheduling and examination dates, specific evaluation criteria, and exam review will be specified by each Hospital Teaching Unit (HTU), which will provide explicit information through their websites and on the first day of class for each subject, through the responsible professors of the HTUs.

Each specialty will adapt the assigned practice hours to reinforce the content of the theoretical subjects MIC I and MIC II as effectively as possible. The common methodology will involve integrating students within each assigned medical team, actively participating and interacting with the instructors. Students will receive guidance in the specific learning activities conducted during the regular clinical practice of the medical team (cardiorespiratory auscultation, joint examination, radiology reading, vascular examination, etc.), as well as basic information on the functioning of diagnostic and/or therapeutic equipment such as spirometry, echocardiography, capillaroscopy, bronchoscopy, doppler ultrasound, ankle-brachial index, CT angiography, among others.

Practice distribution (by speciality)	hours	ECTS
Angiology and Vascular Surgery	11,25	0,45
Cardiology	19	0,76
Orthopedic and Traumatological Surgery	30	1,2
Thoracic Surgery	3,75	0,15
Pneumology	26	1,04
Rheumatology	15	0,6

Students will be involved in the activities of a surgical service to observe and/or perform supervised assistance, training, or research tasks.

Each day of practice, students will record the most significant activity carried out to complete the portfolio summarizing their stay in the specific specialty. This summary, along with the feedback from the assigned tutor, will form the basis of the evaluation (60%). The remaining portion (40%) will consist of a more in-depth analysis of two cases observed during the practice period, one medical and one surgical case.

Annotation: within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continuous assessment activities

Title	Weight	Hours	ECTS	Learning outcomes
Practical clinical care assessment	100%	5	0.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

The assessment of the course learning outcomes will consist of two components:

1. Clinical Case Reports (70% of the final grade)

Students must prepare one clinical case report for each medical specialty in which they complete a clinical rotation. Each report must not exceed five pages (excluding references) and should include, at a minimum, the following sections:

- Presentation and description of the clinical case.
- Relevant medical history and clinical information.
- Physical examination findings.
- Complementary investigations and interpretation of the results.
- Differential diagnosis, including justification of the clinical reasoning.
- Final diagnosis.
- Proposed management and treatment plan, including follow-up where appropriate.
- References, cited according to accepted scientific referencing standards.

Assessment will focus on the student's clinical reasoning, justification of diagnostic and therapeutic decisions, quality of writing, appropriate use of up-to-date scientific literature, and overall presentation of the report.

2. Clinical Rotation Portfolio (30% of the final grade)

The remaining 30% of the final grade will be based on the assessment of the portfolio completed during the clinical rotations. The portfolio should document the activities carried out, the competencies acquired, reflections on the learning process, and any other evidence specified in the course guide.

General Considerations

The use of artificial intelligence (AI) tools will be governed by the current regulations of the Universitat Autònoma de Barcelona (UAB). Students are expected to use these tools responsibly, transparently, and in accordance with the University's policies and the course instructor's guidelines.

To pass the course, students must obtain a minimum grade of 5.0 out of 10 in each specialty in which they

complete a rotation. A grade below 5.0 in any specialty cannot be compensated for by higher grades obtained in other specialties.

Additional Considerations

The course coordinator for each specialty may, at their discretion, require students to give an oral presentation of one or more clinical case reports. This presentation may be used to assess the student's understanding of the work submitted in writing and, where appropriate, to support decisions regarding the award of honours or other aspects of the assessment.

Students are encouraged to follow the Guidelines for Non-Sexist Language Use at the Universitat Autònoma de Barcelona in all written assignments.

In accordance with the recommendations of the UAB Sustainable Campus Programme, all documentation submitted to the teaching staff must be provided exclusively in digital format.

Bibliography

RESPIRATORI I CIRURGIA TORÀCICA

Llibres:

- Farreras A y Rozman C. Medicina Interna. 19ª edición. Elsevier. Barcelona 2020.

- Jameson, Fauci, Kasper, Hauser, Longo, Loscalzo. Principios de Medicina Interna. 20ª edición. Ed.McGraw-Hill, Interamericana. Madrid 2019.

- C. Jiménez-Ruiz, G. Peces-Barba, R. Moreno Balsalobre y V. Plaza Moral. Manual SEPAR de Neumología y Cirugía Torácica. 4ª edición. Ed. SEPAR. Madrid 2021.

- Locicero III, J. Shields' General Thoracic Surgery. 8th edition. Ed. Wolters Kluwer. 2018

- Tratado de cirurgia torácica SEPAR. Ed SEPAR- EDIMSA Madrid 2010.

- Parrilla P, García-Granero E, Martín E, Morales-conde S, Navarro S, Targarona EM. Cirugía AEC. Asociación Española de Cirujanos. 3a edición. Ed. Panamericana. Madrid 2022.

- Locicero III, J. Shields' General Thoracic Surgery. 8th edition. Ed. Wolters Kluwer. 2018

- General thoracic surgery. T. E. Shields. Ed Panamericana

Revistes:

- Archivos de Bronconeumología

- Open Respiratory Archives

- European Respiratory Journal

- Thorax

- Lancet Resp Med

- Annals of thoracic Surgery

- European Journal of Cardiothoracic surgery

- Journal of thoracic oncology

- Journal of thoracic disease

Recursos Internet:

- Societat Catalana de Pneumologia (SOCAP): www.socapnet.org

- Sociedad Española de Neumología y Cirugía Torácica (SEPAR): www.separ.es

- European Respiratory Society (ERS): www.ersnet.org

- American Thoracic Society (ATS): www.thoracic.org

- Sociedad espanyola de cirugia toráica (SECT): https://www.sect.es/index.php/formacion-sect

- Annals of Cardiothoracic surgery https://www.youtube.com/@annalsofcardiothoracicsurg2361

- The Society of Thoracic Surgeons (STS), the American Association for Thoracic Surgery (AATS), and the European Association for Cardio-thoracic Surgery (EACTS) https://www.ctsnet.org/

- National Cancer Comprehensive Network https://www.nccn.org/guidelines/category_1

- European Society for Medical Oncology https://www.esmo.org/

CARDIOVASCULAR

Llibres:

- Harrison Principios de Medicina Intern. Mc Graw Hill 2022

- Tratado de Medicina Interna Farreras-Rozman. Elsevier.

- Braunwald Tratado de Cardiología. Elsevier.

- Heart disease. A text book of cardiovascular medicine. Braunwald E, Ross R, Topol EJ. Philapdelphia.

- Mayo Clinic Cardiology Review, Murphy

- Electrocardiografía clínica, Bayés de Luna, Antoni. Espaxs, S.A

- La electrocardiografia en la toma de decisiones en urgencias. H. Wellens. Elsevier.

- Rutherford's Vascular Surgery. Saunders. 2014

- Guies de pràctica clínica de la Societat Europea de Cirurgia Vascular (ESVS) https://www.ejves.com/content/guidelines

Revistes:

- Circulation

- Journal of the American College of Cardiology

- European Heart Journal

- Revista Española de Cardiología

- European Journal of Vascular and Endovascular Surgery www.ejves.com

- Journal of Vascular Surgery www.jvascsurg.org

- International Angiology www.minervamedica.it/en/journals/international-angiology/

- Annals of Vascular Surgery www.annalsofvascularsurgery.com

- Revista Angiología www.revistaangiologia.es

Recursos Internet:

- http://www.revespcardiol.org

- http://www.secardiologia.es

- http://www.theheart.org/index.cfmhttp://www.ctsnet.org/residents/ctsn/ (apunts residents cardiologia americans)

- http://www.hemodinamica.com/becas/guidant/imagenes.html (imatges d'estudis hemodinàmics amb bona qualitat i amb un ampli ventall de patologies)

- http://www.erl.pathology.iupui.edu/ (atlas imatges anatomia patològica amb bona iconografia cardiològica)

- http://www.blue.temple.edu/~pathphys/general/tablecontents.html (esquemes malalties cardiovasculars)

- http://www.meddean.luc.edu/lumen/mede/grossanatomy/cross_section/vhpthorax.html (pàgina original que permet obtenir seccions del tòrax a diferents nivells.)

- http://visiblehuman.epfl.ch/stdappletv1.php (similar a la anterior, permet imatgesinteractives, excel·lent anatomia)

- http://www.escardio.org/Pages/index.aspx

- Sociedad Española Angiología y Cirugía Vascular: www seacv.es

- European Society for Vascular Surgery www.esvs.org

- Capítulo de Diagnóstico Vascular no Invasivo: www.cdvni.org

- Capítulo de Cirugía Endovascular: www.c-cev.org

- Capítulo de Cirugía Endovascular: www.c-cev.org

- Capítulo Español de Flebología y Linfología: www.capitulodeflebologia.org

REUMATOLOGIA

- Harrison. Medicina Interna 21 Edición. Mc Graw Hill, 2022.

- Farreras Rozman. Medicina Interna 19ª edición. (2020).

- Manual SER de las Enfermedades Reumáticas (6ª edición).Editorial Elsevier. ISBN edición impresa: 978-84-9022-903-3. ISBN edición electrónica: 978-84-9022-905-7

- Manual SER de diagnóstico y tratamiento de las enfermedades reumáticas autoinmunes sistémicas. Edita: Editorial Elsevier España. ISBN edición impresa: 978-84-9022-857-9. ISBN edición electrónica: 978-84-9022-858-6

- Técnicas de Diagnóstico y Tratamiento en Reumatología. Editorial Panamericana. ISBN: 84-7903-904-3

- Firestein & Kelley's Textbook of Rheumatology (11th edition). Editorial Elsevier 2020. ISBN edición electrónica 9780323639217. ISBN edición impresa: 9780323639200

- Manual de capilaroscopia periungueal JA Todolí Parra ISBN 9788492652228 Editorial Adalia

CIRURGIA ORTOPÈDICA I TRAUMATOLÒGICA

Bàsica

Farreras Rozman. Medicina Interna 19ª edición. (2020). https://bibcercador.uab.cat/permalink/34CSUC_UAB/1c3utr0/cdi_proquest_ebookcentral_EBC7045003

Harrison. Medicina Interna 21 Edición. Mc Graw Hill, 2022.

https://accessmedicina-mhmedical-com.are.uab.cat/book.aspx?bookid=3118

https://bibcercador.uab.cat/permalink/34CSUC_UAB/avjcib/alma991010719764206709

Específica

El Manual del Residente de COT - SECOT, 2020 (www.secot. es) (no disponible al catàleg de la UAB)

Essentials of Orthopedic Surgery 4th ed. 2011

Campbell. Cirugía ortopédica 14 edition Frederick M Azar & James H. Beaty, 2022. (Disponible al catàleg de la UAB la 13Ed de 2013, en paper)

Miller's Review of Orthopaedics E-Book (8th ed.) Mark D. Miller, Stephen R. Thompson.2019. (Disponible al catàleg de la UAB la 7Ed de 2016, en paper)

Cirugía Ortopédica y Traumatología. Delgado, A. 5ª edición Editorial Medica Panamericana S.A, 2021 (Disponible al catàleg de la UAB l'edició del 2008, en paper)

Recursos d'Internet

Pubmed.

https://bibcercador.uab.cat/permalink/34CSUC_UAB/1eqfv2p/alma991000236199706709

ARE+

https://www.uab.cat/web/que-oferim/acces-als-recursos-electronics-1345727672556.html

Google Scholar: http://scholar.google.es

Scielo

https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/alma991056957079706706

www.secot.es

www.sccot.cat

www.orthobullets.com

Software

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Course groups and languages

The information provided is provisional until November 30. After this date, you will be able to consult the language of each group through this link. To access the information, you will need to enter the course CODE