Medicine and Surgery III

Code: 106695
ECTS Credits: 7

2025/2026

Degree	Type	Year
Medicine	OB	4

Contact

Name: Eloy Espin Basany

Email: eloy.espin@uab.cat

Teachers

Juan Genesca Ferrer

Javier Serra Aracil

Jorge Sierra Gil

Eloy Espin Basany

Jose Maria Ribera Santasusana

Eugeni Domenech Morral

Javier Calvet Calvo

Francisco Bosch Albareda

Maria Angels Escorsell Mañosa

David Parés Martínez

María del Carmen Martínez Sánchez

Maria Luz Muñoz Marin

Teaching groups languages

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

Prerequisites

It is advisable to have basic knowledge of general pathophysiology, the digestive system and blood diseases.
It is also essential to have knowledge of human anatomy, genetics, mole
Sufficient knowledge of the psychological bases of health and disease st
The student will acquire the commitment to preserve the confidentiality a

Objectives and Contextualisation

MiC III consists of two distinct parts: diseases of the digestive system and diseases of the blood

Digestive system

Its general objective is the study of the sick person with pathologies of th

Hematology:

Students will acquire the necessary knowledge about diseases of the blo

The program includes the diseases that affect the blood and hematopoie

Competences

- Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
- Demonstrate understanding of the manifestations of the illness in the structure and function of the human body.
- Establish a diagnostic approach and a well thought-out strategy for action, taking account of the results of the anamnesis and the physical examination, and the results of the appropriate complementary tests carried out subsequently.
- Give the patient and/or accompanying persons the relevant information about the disease process, its bases and consequences, including bad news, in an appropriate way.
- Indicate the basic diagnosis techniques and procedures and analyse and interpret the results so as to better pinpoint the nature of the problems.
- Indicate the most suitable treatment for the most prevalent acute and chronic processes, and for the terminally ill.
- Obtain and prepare a patient record that contains all important information and is structured and patient-centred, taking into account all age and gender groups and cultural, social and ethnic factors.
- Perform a general and a system-by-system physical examination appropriate to the patient's age and sex, in complete and systematic way, and a mental evaluation.

Learning Outcomes

1. Assess modifications to clinical parameters in the different age groups.
2. Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
3. 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.
4. 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.
5. 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.
6. Explain the mechanisms by which illness affects the structure and function of the human body.
7. Give patients the maximum possible information about their health, diagnostic steps, complementary examinations and treatments in an appropriate way.
8. Identify tumour diseases, and the diagnosis and management of these.
9. 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.
10. 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.
11. 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.

12. 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.

Content

Contents by devices and systems

The subject is structured in two distinct parts, diseases of the digestive s
The contents of the subject are indicative. Each teaching unit will be able
A) DISEASES OF THE DIGESTIVE SYSTEM (4 credits)
Distribution of hours and teaching types
44 hours (Theory 33 hours; Clinical cases 11 hours -seminars 7 hours, si
Medical 19h (theory 13h, seminars 5h, simulation 1h)
Surgical 25h (theory 20h, seminars 2h, simulation 3h)
THEORETICAL CLASSES (33h)
1. Oral and maxillofacial pathology: most relevant diseases of the oral ca
2. Malignant and benign tumors of the lip, mouth and tongue
3. Gastroesophageal reflux and esophagitis. Esophageal motor disorders
4. Benign and malignant esophageal tumors. Surgical treatment
5. Dyspepsia, gastritis, H. pylori infection and gastroduodenal ulcer
6. Benign esophageal surgical pathology. Surgical complications of pepti
7. Benign and malignant gastric tumors. Surgical treatment
8. Irritable bowel syndrome. Gastrointestinal motor pathology and constip
9. Intestinal malabsorption
10. Inflammatory bowel disease
11. Peritonitis. Acute appendicitis.

12. Intestinal occlusion

13. Intestinal ischemia
14. Diverticular disease of the colon
15. Intestinal polyposis. Tumors of small intestine. Colon cancer I
16. Colon and rectal cancer II
17.Benign anorectal pathology
18. Pathology of the abdominal wall.
19. Abdominal injuries
20. Acute hepatitis and fulminant liver failure.
21. Chronic hepatitis: viral and autoimmune
22. Liver diseases due to drugs and toxins. Alcoholic liver disease.
23. Liver cirrhosis. ascites Spontaneous bacterial peritonitis. Hepatorena
24. Portal hypertension. Bleeding from varicose veins. Hepatic encephal
25. Non-alcoholic fatty liver and metabolic liver diseases:, Wilson and Ha
26. Hyperbilirubinemia, hereditary and acquired cholestasis: primary bilia
27. Benign and malignant liver tumors. Hepatocarcinoma, cholangiocarci
28. Basics of liver surgery
29. Vascular and cystic diseases of the liver. Liver abscess. Liver and pr
30. Cholelithiasis and acute cholecystitis. Pathology of the main bile duct
31. Acute pancreatitis and chronic pancreatitis
32. Pancreatic cancer and other exocrine tumors
33. Digestive transplants

CLINICAL CASES (11am)

Specialized seminars (7 hours)
1. Dysphagia and heartburn - Functional digestive examinations
2. Diarrhea / inflammatory bowel disease - malabsorption.
3. Digestive bleeding
4. Clinical cases of digestive surgical pathology. Proctology
5. Clinical cases. Digestive oncological surgery
6. Acute and chronic hepatitis
7. Hepatic space-occupying lesions
Simulation (4h)
1. Clinical cases of digestive surgical pathology.
2. Clinical cases of digestive surgical pathology. Sharp abdomen
3. Cirrhotic complications
4. Obstructive jaundice

B) DISEASES OFTHE BLOOD (3 credits)

Distribution of hours and teaching types
33 hours (Theory 26h; Clinical cases 7h -seminars 6h, simulation 1h-)
Medical 30h (theory 24h, seminars 5h, simulation 1h)
Surgical 3h (theory 2h, seminar 1h, simulation 0h)
THEORETICAL CLASSES (26 hours)
1. Main hematological syndromes. Basic hematological tests
Know and identify the main hematological syndromes (anaemic, neutrop
2. Special tests in hematology
Know the main types, basics and indications of the special tests used in
3. Anemia. classification Iron deficiency anemia. Anemia of chronic disea
Properly classify an anemia. Diagnose the cause and treat iron deficienc
4. Congenital and acquired hemolytic anemias
Identify a hemolytic syndrome. Make the etiological diagnosis. Know the
5. Quantitative and qualitative alterations of the leukocyte system
Know the main causes of leukopenia, especially neutropenia. Identify an

6. Bone marrow failure: bone marrow aplasia and myelodysplastic syndromes

Know the causes of global and selective spinal cord insufficiency. Diagnc
Be clear about the concept and diagnosis of a myelodysplastic syndrome
7. Acute leukemias. Acute lymphoblastic leukemia
Classify acute leukemias based on morphological, immunological, cytoge
Acute lymphoblastic leukemia. Clinic, diagnosis and prognosis. Know the
8. Acute myeloblastic leukemia. Special aspects of the treatment of patie
Clinic, diagnosis and prognosis of acute myeloblastic leukemia and its se
Know the special aspects of the treatment of patients with acute leukemi
9. Chronic myeloproliferative neoplasms (NMPC) without Philadelphia ch
Identify the three types of NMPC without the Philadelphia chromosome.
10. Chronic myeloproliferative neoplasms with Philadelphia chromosome
CML clinic, diagnosis, treatment and prognosis. Other diseases related t
11. Benign and malignant nodal pathology. Surgical aspects.
Know the systematic study of an adenopathic syndrome. Know the surgi

12. Malignant lymphomas. Classification and extension study. Hodgkin's lymphoma

Know the basics of the modern classification of lymphomas. Know the ar
Clinic, diagnosis and treatment of Hodgkin's lymphoma.
13. Aggressive non-Hodgkin's lymphomas
Clinic, diagnosis and treatment of the main types of B-line and T-line lym
14. Indolent lymphoid neoplasms. Chronic lymphatic leukemia

Know and classify the various types of indolent lymphoid neoplasms, witl
15. Monoclonal gammopathy. multiple myeloma
Clearly distinguish a monoclonal gammopathy of uncertain significance f
16. Other monoclonal gammopathy: Macroglobulinemia of Waldenström.
Know the clinic, diagnosis, prognosis and treatment of Waldenström's ma
17. Diseases of the phagocytic mononuclear system
Classify the main diseases of the phagocytic mononuclear system. Hemo
18. Surgical pathology of the spleen
Know hypersplenism and splenic hypofunction. Classification of splenom
19. Hemostasis disorders. Angiopathic purpuras, thrombocytopenias and
Know the semiology and main tests for the study of hemostasis. Classify

20. Congenital and acquired coagulopathies

Know the main causes of congenital coagulopathy, as well as the diagno
21. Hypercoagulability.
Know the genesis of arterial and venous thrombosis, the genetic bases a
22. Anticoagulant and thrombolytic treatment
Know the indications, contraindications, risks and complications of the va
23. Hemotherapy
Know the main blood products and the specific indications for the transfu
24. Immunotherapy strategies and therapies aimed at Hematology.
Learn the basics and types of targeted therapies and immunotherapeutic
25. Transplantation of hematopoietic progenitors
Know the indications, procedure, complications, types and results of the
26. Integrated vision of Hematology and Hemotherapy
Know the integrated operation of a clinical hematology unit (hospitalizatic

Methodology of classes

The teaching methodology will be of two types:
a. Theoretical-practical class taught by the teacher, which will include a s
b. Classes prepared by students. They will be agreed at the beginning of
CLINICAL CASES (7 hours)
Seminars (6h)
1. Resolution of clinical cases: anemias
Group discussion, supervised and structured of guide signs, differential d
2. Resolution of clinical cases: pancytopenia
Group discussion, supervised and structured of guide signs, differential d
3. Resolution of clinical cases: adenopathy
Supervised and structured group discussion of guide signs, differential di
4. Resolution of clinical cases: bleeding disorders
Group discussion, supervised and structured of guide signs, differential d
5. Resolution of clinical cases: thrombosis
Group discussion, supervised and structured of guide signs, differential d
6. Resolution of clinical cases: Splenomegaly
Group discussion, supervised and structured of guide signs, differential d
Simulation (1h)
It will be based on the resolution of a clinical case with the presence of a

<preclass="tw-data-texttw-text-large tw-ta" dir="ltr" data-placeholder="Traducción">

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes

Type: Directed			
SIMULATION	5	0.2	2, 3, 4, 5, 10, 6, 11, 8, 9, 7, 12, 1
SPECIALIZED SEMINARS	13	0.52	2, 3, 4, 5, 10, 6, 11, 8, 9, 7, 12, 1
THEORY	59	2.36	2, 3, 4, 5, 10, 6, 11, 8, 9, 7, 12, 1
Type: Autonomous			
PERSONAL STUDY / READING OF ARTICLES / REPORTS OF INTEREST	88	3.52	

This guide describes the framework, contents, methodology and general rules of the subject, in accordance with
As a general rule of teaching methodology, classes and seminars must h
For the current academic year, the professors designated by the Departn

Teaching staff

Faculty Managers:
Department of Surgery: Eloy Espin Basany
Department of Medicine: Josep-Maria Ribera Santasusana
Responsible for each Universitary Hospital:
HU Sant Pau
Responsible for the subject at the UDH
Department of Medicine: Jorge Sierra Gil jsierra@santpau.cat
Department of Surgery: María del Carmen Martínez Sánchez; mmartinez
• Diseases of the digestive system
Heads of subject/part at the UDH (Surgery)
María del Carmen Martínez Sánchez; mmartinezsa@sant pau.cat
Head of subject/part at the UDH (Medicine)
Maria Angels Escorsell, mescorsell@santpau.cat
• Blooddiseases
Head of subject/part at the UDH (Medicine)
Jorge Sierra Gil jsierra@santpau.cat
Head of subject/part at the UDH (Surgery)
María del Carmen Martínez Sánches; mmartinezsa@santpau.cat

HU Vall d'Hebron

Subject managers at the UDH
Department of Medicine Joan Genesca Ferrer joan.genesca@vallhebron
Department of Surgery Eloi Espin Basany eespin@vhebron.net
• Diseases of the digestive system
Head of subject/part at the UDH (Medicine)
Juan Genesca Ferrer joan.genesca@vallhebron.cat
Heads of subject/part at the UDH (Surgery)
Eloi Espin Basany eloy.espin@vallhebron.cat

• Blood diseases
Heads of subject/part at the UDH (Medicine)
Francesc Bosch francesc.bosch@vallhebron.cat
Head of subject/part at the UDH (Surgery)
Nivardo Rodriguez Conde nivardo.rodriguez@uab.cat
HU Germans Trias i Pujol
Subject managers at the UDH:
Department of Medicine: Josep-Maria Ribera Santasusana jribera@icon
Department of Surgery: David Pares Martinez David.Pares@uab.cat
• Diseases of the digestive system David Pares
Head of subject/part at the UDH (Medicine)
Eugeni Domenech Morral eugenidomenech@gmail.com
Head of subject/part at the UDH (Surgery)
David Pares Martinez dapares@gmail.com
• Blood diseases
Head of subject/part at the UDH (Medicine)
Josep Ma. Ribera Santasusana jribera@iconcologia.net
Head of subject/part at the UDH (Surgery)
David Pares Martinez David.Pares@uab.cat
HU Parc Taulí
Head of subject at the UDH
Department of Medicine: Xavier Calvet Calvo xcalvet@tauli.cat
Department of Surgery: Xavier Serra Aracil jserraa@tauli.cat
• Diseases of the digestive system
Head of subject/part at the UDH (Medicine)
Xavier Calvet Calvo xcalvet@tauli.cat
Head of subject/part at the UDH (Surgery)
Xavier Serra Araciljserraa@tauli.cat• Blood diseases
Head of subject/part at the UDH (Medicine)
Luz Muñoz Marin Lmunoz@tauli.cat
Head of subject/partat the UDH (Surgery)
Salvador Navarro Soto snavarro@tauli.cat

Exceptionally and according to the criteria of the responsible teaching staff, the available resources and the curre
Note: 15 minutes of a class will be set aside, within the calendar establis

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

Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Theory: written evaluation through objective tests: selection items; trial tests; oral	70%	7	0.28	2, 3, 4, 5, 10, 6, 11, 8, 9, 7, 12, 1
Practical valuation: open and descriptive records and/or closed records; narrative records. Seminars and/or problems and/or clinical cases. Written evaluation through objective tests	30%	3	0.12	2, 3, 4, 5, 10, 6, 11, 8, 9, 7,

Evaluation

The two different parts of the subject (diseases of the digestive system a
Continued avaluation:
It will include a minimum of three assesment activities of diferent types di
• Diseases of the digestive system (57% of the final mark)
o Theoretical part exam: 70% (40% of the final mark)
o Clinical cases (seminars and simulation): 30% (11% of the final mat¡rk)

Clinicals cases (simulation): 10% (6% of final mark)

• Blood diseases (43% of the final grade)
o Theoretical part exam: 45-70%
o Clinical cases (seminars and simulation): 20-45%
o Examination of clinical and cytological-histological, radiological images
recovery test
The student who has not passed by continuous assessment both parts o
The specific evaluation methodology, both for the continuous evaluation
Final qualification
The final grade of MIC III will be the weighted average of two parts of the
Students who do not complete the evaluation tests will be considered as

This subject/module does not provide for the single assessment system

Bibliography

The bibliography for each device and system of the subject can be consulted in the specific programs posted on t

General biblography

- Medicina Interna Farreras Rozman.. 19ª ed. Madrid Elsevier España S.A. 2020

https://bibcercador.uab.cat/permalink/34CSUC_UAB/1c3utr0/cdi_proquest_ebookcentral_EBC7045003

- Harrison's Principles of Internal Medicine, 21th Edición, McGraw-Hill, 2022

https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/alma991010637433606709

- Schwartz. Principios de Cirugía. 11a ed. MacGraw-Hill Interamericana 2020

https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/alma991010526759906709

- Schwartz's. Principles of Surgery 2-volume set 11th edition ; 2448 pages. ; Publisher, McGraw Hill / Medical; 11th edition (May 29, 2019) paper
- Sabiston. Tratado de Cirugía. Fundamentos biologicos de la práctica quirúrgica moderna. Towsend. 21 ed. Elsevier 2022 (2018)
- https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/alma991000592259706709
- Sabiston's. Textbook of Surgery. The Biological Basis of Modern Surgical Practice 21st Edition - January 8, 202. Editor: Courtney Townsend. Hardcover ISBN: 9780323640626. eBook ISBN: 9780323640640

Digestive

- Sherlock'sDiseases of the Liver and Biliary System, 13th Edition
  (Editor) , Anna SF Lok, Guadalupe Garcia-Tsao, Massimo Pinzani
  SBN: 978-1-119-23764-8 June 2018 Wiley&Sons Ltd 832 Pages
- *https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/alma991010356075106709*
- Parrilla P, Garcia-Granero E, Martin E, Morales-Conde S, Navarro S, Targarona E. Cirugia. AEC, 4ª edición. editorial Panamericana Madrid 2022

- Fernando Gomollon. Tratamiento de las enfermedades gastroenterologicas (4a edición). Springler Healtcare Madrid 2020. Depósito legal: M-7653-2020
  Accessible on line a través de la web de la Asociacion Española de Gastroenterología (No és d'accés lliure) Disponible versió paper 2011)

- Sleisenger y Fordtran. Enfermedades Digestivas y Hepáticas. Fisiopatología, Diagnóstico y Tratamiento, (2 Vols.). 11 ª edición (Disponible versió paper 2018)
- Feldman, M. Friedman, L. Brandt, L. Chung, R. Rubin, D. Wilcox,

Hematology

- Woessner S, Florensa L. La citología óptica en el diagnóstico hematológico. 5ª ed. Madrid, Fundación Española de Hematología y Hemoterapia FEHH, 2006. Paper

- Sanz MA, Carreras E. Manual práctico de Hematología Clínica. 5ª ed. Sabadell, Ed. Antares, 2020 Versió paper 2008
- Hoffman R, Benz Jr. EJ, Astil SJ, et al. Hematology. Basic principles and practice. 7ª ed. Churchill Livingstone, Philadelphia, 2018.
- Greer JP, Foerster J, Lukens JN, Rodgers GM, Paraskevas F, Glader B. Wintrobe's Clinical Hematology 14ª ed. Philadelphia, Lippincott Williams & Wilkins, 2018.
- https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/alma991010506943106709

- Lichtman M, Beutler E, Kaushansky K, Kipps TJ, Seligsohn U, Prchal J. Williams Haematology. 9ª ed. McGraw-Hill, 2016.

- Internet

http://asheducationbook.hematologylibrary.org/

http://www.ash-sap.org/

http://www.hematology.org/Publications/Videos/

http://www.ehaweb.org

http://www.esh.org/

http://www.hematologyatlas.com

Software

Each Teaching Unit will include the subject's program, with adaptations to the characteristics of each Teaching U
If specific software is required, it will also be noted

Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this link. To consult the language you will need to enter the CODE of the subject.