

Medicine and Surgery III

Code: 106695
ECTS Credits: 7

Degree	Type	Year	Semester
2502442 Medicine	OB	4	0

Contact

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Teaching groups languages

You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.
Please note that this information is provisional until 30 November 2023.

Teachers

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Javier Serra Aracil

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Eloy Espin Basany

Jose Maria Ribera Santasusana

Nivardo Rodriguez Conde

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Francisco Bosch Albareda

David Parés Martínez

Maria Luz Muñoz Marin

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 the

Hematology:

Students will acquire the necessary knowledge about diseases of the blood

The program includes the diseases that affect the blood and hematopoiesis

Competences

- Demonstrate understanding of the manifestations of the illness in the structure and function of the human body.
- Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
- 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 system and diseases of the liver and pancreas. The contents of the subject are indicative. Each teaching unit will be able to cover the following topics:

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, simulation 1h)

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 cavity
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 peptic ulcer disease
7. Benign and malignant gastric tumors. Surgical treatment
8. Irritable bowel syndrome. Gastrointestinal motor pathology and constipation
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. Hepatorenal syndrome
24. Portal hypertension. Bleeding from varicose veins. Hepatic encephalopathy
25. Non-alcoholic fatty liver and metabolic liver diseases: Wilson and Hemochromatosis
26. Hyperbilirubinemia, hereditary and acquired cholestasis: primary biliary cirrhosis
27. Benign and malignant liver tumors. Hepatocarcinoma, cholangiocarcinoma
28. Basics of liver surgery
29. Vascular and cystic diseases of the liver. Liver abscess. Liver and pancreatic transplantation
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 OF THE 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, neutropenia)

2. Special tests in hematology

Know the main types, basics and indications of the special tests used in hematology

3. Anemia. classification Iron deficiency anemia. Anemia of chronic disease

Properly classify an anemia. Diagnose the cause and treat iron deficiency anemia

4. Congenital and acquired hemolytic anemias

Identify a hemolytic syndrome. Make the etiological diagnosis. Know the clinical picture

5. Quantitative and qualitative alterations of the leukocyte system

Know the main causes of leukopenia, especially neutropenia. Identify and classify

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

Know the causes of global and selective bone marrow insufficiency. Diagnose

Be clear about the concept and diagnosis of a myelodysplastic syndrome

7. Acute leukemias. Acute lymphoblastic leukemia

Classify acute leukemias based on morphological, immunological, cytogenetic

Acute lymphoblastic leukemia. Clinic, diagnosis and prognosis. Know the

8. Acute myeloblastic leukemia. Special aspects of the treatment of patients

Clinic, diagnosis and prognosis of acute myeloblastic leukemia and its special

Know the special aspects of the treatment of patients with acute leukemia

9. Chronic myeloproliferative neoplasms (NMPC) without Philadelphia chromosome

Identify the three types of NMPC without the Philadelphia chromosome. Know the

10. Chronic myeloproliferative neoplasms with Philadelphia chromosome

CML clinic, diagnosis, treatment and prognosis. Other diseases related to

11. Benign and malignant nodal pathology. Surgical aspects.

Know the systematic study of an adenopathic syndrome. Know the surgical

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

Know the basics of the modern classification of lymphomas. Know the anatomic

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 lymphomas

14. Indolent lymphoid neoplasms. Chronic lymphatic leukemia

Know and classify the various types of indolent lymphoid neoplasms, with

15. Monoclonal gammopathy. multiple myeloma
 Clearly distinguish a monoclonal gammopathy of uncertain significance from a multiple myeloma.
 16. Other monoclonal gammopathy: Macroglobulinemia of Waldenström.
 Know the clinic, diagnosis, prognosis and treatment of Waldenström's macroglobulinemia.
 17. Diseases of the phagocytic mononuclear system
 Classify the main diseases of the phagocytic mononuclear system. Hemophagocytic syndrome.
 18. Surgical pathology of the spleen
 Know hypersplenism and splenic hypofunction. Classification of splenomegalies.
 19. Hemostasis disorders. Angiopathic purpuras, thrombocytopenias and thrombotic thrombocytopenic syndrome.
 Know the semiology and main tests for the study of hemostasis. Classify the disorders.

20. Congenital and acquired coagulopathies

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

Methodology of classes

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

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Methodology

This guide describes the framework, contents, methodology and general rules of the subject, in accordance with the syllabus.
 As a general rule of teaching methodology, classes and seminars must be attended.

For the current academic year, the professors designated by the Depart

Teaching staff

Faculty Managers:

Department of Surgery: Manuel Armengol Carrasco

Department of Medicine: Josep-Maria Ribera Santasusana

Responsible for each University Hospital:

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Exceptionally and according to the criteria of the responsible teaching staff, the available resources and the current situation, 15 minutes of a class will be set aside, within the calendar established.

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.

Activities

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	

Assessment

Evaluation

The two different parts of the subject (diseases of the digestive system and blood diseases) will be evaluated by continuous evaluation:
 It will include a minimum of three assessment activities of different types distributed as follows:
 • 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 mark)

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

- Blood diseases (43% of the final grade)
 - o Theoretical part exam: 45% (19.3% of the final mark)
 - o Clinical cases (seminars and simulation): 45% (19.3% of the final mark)
 - 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 both theoretical and c

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

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, 12, 1

Bibliography

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

General bibliography

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Digestive

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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