

Medicine and Surgery IV

Code: 106696
ECTS Credits: 3

2025/2026

Degree	Type	Year
Medicine	OB	4

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Teachers

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

- Basic knowledge of general pathophysiology, of the male urinary and genital system and of the anatomical and physiological bases of the body to understand the aging process.
- Basic knowledge of human anatomy, genetics, molecular biology, pharmacology.
- Sufficient knowledge of the psychological bases of health and disease states, as well as an adequate level of knowledge in interpersonal communication and professional behavior.
- The student undertakes to preserve the confidentiality and professional secrecy of the data to which he may have access as a result of his learning in the care services. Maintain an attitude of professional ethics in all their actions.
- The student undertakes not to disseminate the teaching material provided to him

Objectives and Contextualisation

- The overall objective of the subject is to provide the student with the knowledge and skills necessary to diagnose and treat nephro-urological conditions.
- It therefore assumes knowledge of the general and basic aspects of these diseases and also offers a vision framed in the global context of the patient.

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.
- Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
- 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. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
8. Give patients the maximum possible information about their health, diagnostic steps, complementary examinations and treatments in an appropriate way.
9. Identify tumour diseases, and the diagnosis and management of these.
10. 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.
11. 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.
12. 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.

13. 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

Theory (28 h)

1. Introduction to urology. Signs, symptoms and syndromes.
2. Male urinary and genital malformations.
3. Benign pathology of the penis and urethra.
4. Benign scrotal pathology.
5. Urinary lithiasis.
6. Benign bladder pathology, functional and urinary incontinence.
7. Infection in urology.
8. Benign prostate hyperplasia.
9. Urological trauma.
10. Renal masses and retroperitoneal pathology
11. Tumors of the urothelium.
12. Prostatecancer.
13. Male genital cancer.
14. Andrology.
15. Acute renal failure.
16. Chronic kidney disease.
17. Hydroelectrolytic disorders I. Regulation of circulating volume, hyponatraemia and hypernatraemia. Hypocalcemia and hypercalcemia.
18. Hydroelectrolytic disorders II. Hypokalemia and hyperkalemia. Alkalosis and acidosis.
19. Renal replacement treatment: dialysis and conservative treatment.
20. Renal replacement treatment: Renal transplantation.
21. Diabetic nephropathy.
22. Glomerular nephropathies I.
23. Glomerular nephropathies II.
24. Nephropathies secondary to systemic diseases.
25. Interstitial nephropathies.
26. Nephropathies of vascular origin.
27. Hypertension and cardiovascular risk.
28. Hereditary nephropathies.

Seminars (2h)

1. Urological clinical scenario
2. Nephrological clinical scenario

Simulation (2h)

1. Urological clinical scenario
2. Nephrological clinical scenario

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Advanced simulation	2	0.08	2, 3, 4, 5, 11, 6, 12, 7, 9, 10, 8, 13, 1

Seminars	2	0.08	2, 3, 4, 5, 11, 6, 12, 7, 9, 10, 8, 13, 1
Theoretical classes	28	1.12	2, 3, 4, 5, 11, 6, 12, 7, 9, 10, 8, 13, 1
Type: Autonomous			
Presonal study/Articles reading/Reading/Informs/Evaluations	39	1.56	2, 3, 4, 5, 11, 6, 12, 7, 9, 10, 8, 13, 1

- This guide describes the framework, contents, methodology and general rules of the subject in accordance with the current study plan. The final organization of the subject with respect to the number and size of the groups, the distribution in the calendar and the assessment dates, specific assessment criteria and the review of exams, will be specified in each of the hospital teaching units (UDH). This information will be disseminated to the students using the most suitable means in each UD, web pages, Moodle, the first day of class of the subject and through the teachers responsible for the subject in each UDH.
- The professors currently appointed by the departments as responsible for the subject at Faculty and UDH level are:
- Responsible departments: Medicine and Surgery
- Heads of Faculty: Enrique Trilla Herrera and Roser Torra Balcells
- Head of subject in the UDH: Head of Medicine and Head of Surgery

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
Nephrology Seminar/Simulation evaluation (In situ rubric type)	10%	1	0.04	2, 3, 4, 5, 11, 6, 12, 7, 9, 10, 8, 13, 1
Partial exam of Nephrology (Single Choice Test)	40%	1	0.04	3, 4, 11, 6, 12, 9, 10, 13, 1
Partial exam of Urology (Single Choice Test)	40%	1	0.04	2, 3, 4, 5, 11, 6, 12, 7, 9, 10, 8, 13, 1
Urology Seminar/Simulation evaluation (In situ rubric type)	10%	1	0.04	2, 3, 4, 5, 11, 6, 12, 7, 9, 10, 8, 13, 1

The student will be evaluated on both parts of the subject (Urology and Nephrology) through continuous evaluation tests and a recovery test when any of the parts have not been passed.

This subject does not contemplate the single evaluation system.

1. Continuous evaluation

It will consist of four evaluation evidence and two different typologies. None of the evaluations may exceed 50% of the overall grade of the continuous evaluation.

Two continuous evaluation tests will be carried out for one of the parts of the subject (Urology and Nephrology). For both parts, there will be evidence of evaluation of the theoretical classes and another of seminars and simulation.

1. Evidence of evaluation (partial exam). This evaluation will be test type with multiple answers and only one true answer. The content will be that of the theoretical classes.

The total number of questions will be 40, valued at 1 point, subtracting 0.25 for each incorrect answer. Your assessment will be 40% of the overall grade of the continuous evaluation.

2. Evidence of evaluation of the seminar and simulation. It will be done in the form of a rubric. The assessment will be 10% of the overall grade of the continuous evaluation. To apply continuous assessment, regular attendance at theoretical classes, seminars and simulation is advisable.

The evaluation of both parts of the subject will be liberating when a minimum grade of 5/10 has been obtained.

In exceptional cases and under justification, the responsible teacher may decide another form of evaluation.

2. Recovery test

Only students who have passed at least 65% of the continuous assessment evidence may take this test.

Students who have not passed one or both parts of the subject, or who wish to raise their grade, will apply. In the case of wanting to raise the grade, the grade obtained in the continuous evaluation will be invalidated.

A multiple-choice evaluation will be conducted for each of the failed parts of the subject (urology, nephrology or both) with 50 multiple-choice questions and only one true answer, valued at 1 point and a penalty of 0.25 points for each incorrect answer. The assessment may contain questions related to theory, simulation and seminars.

In exceptional cases and under justification, the responsible teacher will decide the other form of evaluation.

3. Final qualification

It will be established through the weighted average obtained in the two parts of the subject (Urology and Nephrology), as long as the grade of 5/10 has been exceeded in both. When this is not the case, the final grade for the subject will be failed.

The corresponding honors will be awarded among the excellent ones with the highest grades.

Bibliography

Urology

- Urología Práctica. 5 ed. E Broseta, A Budía, JP Burgués, S Luján. Ed. Elsevier. 2021.
https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/ alma991010357574906709
- Smith and Tanagho's General Urology (Smith's General Urology). 17th Edition. JW McAninch, TF Lue. Ed. MacGraw-Hill. 2008.
- Campbell-Walsh Wein Urology. 12th edition. AJ Wein, LR. Kavoussi, AW Partin, CA Peters. Ed. Elsevier. 2015.
https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/ alma991007022239706709
- Hinman's Atlas of Urologic Surgery, 4th edition. JA Smith, SS Howards, GM Preminger, RR Dmochowski, Ed. Elsevier. 2017.

Nephrology

- Farreras-Rozman. Medicina Interna 19^a edició. 2020. Ed Panamericana
https://bibcercador.uab.cat/permalink/34CSUC_UAB/1c3utr0/cdi_proquest_ebookcentral_E
- Nefrologia al dia: <https://nefrologiaaldia.org/>
- https://bibcercador.uab.cat/permalink/34CSUC_UAB/cugbhl/ alma991010762932806709
- Nefrologia Hernando. 4^a edició 2014. Ed Panamericana

Software

Theory (28 h)

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Seminars (2h)

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Simulation (2h)

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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.