

Medicine and Surgery IV

Code: 106696
ECTS Credits: 3

| Degree | Type | Year | Semester |
|------------------|------|------|----------|
| 2502442 Medicine | OB | 4 | 1 |

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

Joan Palou Redorta

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Maria Isabel Troya Saborido

Enrique Trilla Herrera

Francesc Josep Moreso Mateos

External teachers

Jaume Almirall Daly

Joan Josep Areal Calama

Joan Prats López

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 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.
- 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

Methodology

- 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: Joan Morote Robles 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.

Activities

| 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 |
| Personal study/Articles reading/Reading/Informs/Evaluations | 39 | 1.56 | 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 | 28 | 1.12 | 2, 3, 4, 5, 11, 6, 12, 7, 9, 10, 8, 13, 1 |

Assessment

The student may be assessed for the subject through Continuous Assessment and/or Final Synthesis Test.

This matter does not provide for the single assessment system.

1. Continuous evaluation

Method:

It will consist of four pieces of evidence with two different types of assessment, none exceeding 50% of the overall grade of the continuous assessment.

There will be two continuous assessment tests for each of the two subjects in the subject (Urology and Nephrology) once the syllabus for each has been concluded. For both subjects there will be an assessment of the theoretical classes and another of the seminar and simulation.

An evidence of evaluation (partial exam) of each subject will represent 40% of the mark of continuous evaluation. This assessment will be a test type with multiple answers and one short answer. The total number of questions will be 40, valued at 1 point, and 0.25 points will be deducted for each incorrect answer. The content of the partial exam will be that of theoretical classes, seminars, simulation.

There will be two more evaluation evidences of the seminars and simulation, for each of the subjects of the subject (Urology and Nephrology) by the teacher who teaches these types of teaching, through a rubric-type evaluable system. Each of these evaluations will represent 10% of the overall grade of the continuous assessment.

Both subjects (Urology and Nephrology) will have a weight in the continuous assessment of 40% (40+10), which will make a total of 100% (80+20)

You will need to have completed the four continuous assessment tests to pass the subject this assessment modality.

Passing the continuous assessment:

The continuous evaluation will be considered passed when a grade of 5 or higher has been obtained in each of the four evaluation evidences.

The student who has not obtained the evaluation of any of the four evaluation evidences (2 partials and 2 evaluations of seminars and simulation) will be considered not present and will have to appear in the final remedial test.

Recovery Test:

Students who have not passed the continuous assessment must be presented. It will be an exam with 100 multiple-choice questions and one single-correct question, penalizing incorrect answers with 0.25 points. The subject will be considered approved with a grade of 5 or higher. 2. Final qualification

Method:

Scores between 5.00 and 6.99 will be graded as Pass, between 7.00 and 8.99 as Notable, 9.00 or higher as Excellent. Honors may be awarded to students who have obtained the highest grades among the excellent ones.

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 |

Bibliography

Urology

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- 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.
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- 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
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- Nefrologia al dia: <https://nefrologiaaldia.org/>
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- Nefrologia Hernando. 4^a edició 2014. Ed Panamericana

Software

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