

**COURSE DATA****Data Subject**

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|----------------------|----------------|
| Code | 34489 |
| Name | Paediatrics II |
| Cycle | Grade |
| ECTS Credits | 4.5 |
| Academic year | 2023 - 2024 |

Study (s)

| Degree | Center | Acad. year | Period |
|---------------------------|------------------------------------|-------------------|---------------|
| 1204 - Degree in Medicine | Faculty of Medicine and Odontology | 5 | Second term |

Subject-matter

| Degree | Subject-matter | Character |
|---------------------------|--------------------------------|------------------|
| 1204 - Degree in Medicine | 16 - Human clinical training V | Obligatory |

Coordination

| Name | Department |
|-----------------------------------|--|
| AGUILAR BACALLADO, FRANCISCO JOSE | 290 - Pediatrics, Obstetrics and Gynaecology |
| ESTAÑ CAPELL, FRANCISCO JAVIER | 290 - Pediatrics, Obstetrics and Gynaecology |
| LURBE FERRER, MARIA DESAMPARADOS | 290 - Pediatrics, Obstetrics and Gynaecology |

SUMMARY

In this subject, a program destined to allow students to recognize the main aspects of health and disease in the childhood is proposed, highlighting the preventive and healing aspects of the pediatric affections. Along with the subject Pediatrics I, from a theoretical-practical perspective, the main health problems that can appear during childhood are approached, and it allows the student to know how to treat them and collaborate with the full development of the child. In this second part, the student will revise the problems related with the respiratory, hematological, renal, endocrine, neurological and infectious pathology and with the preventive activities.



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

To course this subject, it is advisable that the students have passed the modules of Morphology, Structure and Function of the Human Body: Skills in Social Medicine and Diagnostic-Therapeutic Procedures.

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

1204 - Degree in Medicine

- Obtain and elaborate a clinical history with relevant information.
- Perform a physical examination and a mental health assessment.
- Have the capacity to make an initial diagnosis and establish a reasonable strategy of diagnosis.
- Establish the diagnosis, prognosis and treatment, applying principles based on the best information available and on conditions of clinical safety.
- Indicate the most accurate therapy in acute and chronic processes prevailing, as well as for terminally ill patients.
- Plan and propose appropriate preventive measures for each clinical situation.
- Acquire proper clinical experience in hospitals, health care centres and other health institutions, under supervision, as well as basic knowledge of clinical management focused on the patient and the correct use of tests, medicines and other resources available in the health care system.
- Know how to use the sources of clinical and biomedical information available, and value them critically in order to obtain, organise, interpret and communicate scientific and sanitary information.
- Know how to use IT in clinical, therapeutic and preventive activities, and those of research.
- Understand the importance and the limitations of scientific thinking in the study, prevention and management of diseases.
- Proper organisation and planning of the workload and timing in professional activities.
- Team-working skills and engaging with other people in the same line of work or different.
- Criticism and self-criticism skills.
- Capacity for communicating with professional circles from other domains.
- Acknowledge diversity and multiculturality.
- Consideration of ethics as a fundamental value in the professional practise.



- Working capacity to function in an international context.
- Knows the morphofunctional characteristics of newborns, children and adolescents, as well as the characteristics of growth, and of preterm infants.
- Recognises, diagnoses and guides the management of the main paediatric pathologies.
- Understands the characteristics of child nutrition.
- Recognises, diagnoses, and guides the management of vital risk situations.
- Knows how to perform a complete anamnesis, focused on the patient and orientated to various pathologies, interpreting its meaning.
- Knows how to carry out manoeuvres of basic and advanced life support.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

a) The student will know how to recognise, diagnose and guide the management in the children and teenagers population:

1. Febrile syndrome.
2. Most common child infectious processes.
3. Child common exanthemas.
4. Upper and medium airways infections: pharynx-tonsillitis. Otitis. Sinusitis. Laryngitis.
5. Bronchiolitis. Pneumonia.
6. Asthma. Respiratory insufficiency.
7. Meningeal syndrome. Meningitis. Child encephalitis.
8. Convulsive and/or epileptic crisis.
9. Most frequent intoxications.
10. Urinary infections.
11. Hematuria and Proteinuria.
12. Adenopathies. Splenomegaly.
13. Anemias. Leukemias.
14. Backbone deviations. Kyphosis and scoliosis.
15. Health control and prophylactic tests in children.



16. Child social-familiar integration. Mistreatment.

b) The student will know the most relevant aspects of:

1. Most frequent immunodeficiencies.
2. Child hypotonia.
3. Chronic diseases. Disabilities.
4. Hypothyroidism.
5. Most frequent congenital cardiopathies.
6. Nephrotic syndrome.
7. Transplantation.
8. Child rights.
9. Adolescence. Biological, psychological and social aspects.
10. Attention disorders: hyperactivity and inattention. Secondary pathology for the information and communication techniques.
11. Environmental pollution. Newborn aggression and impact in the child and adult health.

c) The student will acquire competence in variable degree about:

1. Exploration of the inguinal canal.
2. Otoscopy.
3. Rhinoscopy.
4. Obtaining and extracting biological samples.
5. Nasogastric catheterization.
6. Bladder catheterization.
7. Lumbar puncture.
8. Trachea intubation.
9. Bladder puncture.



10. Thoracentesis.
11. Neurodevelopment evaluation.
12. Echographic exploration.
13. Healthcare for the child patient critically ill (newborn UCI and pediatrics).

DESCRIPTION OF CONTENTS

1. THEORY

1. Pathology of the upper and middle airways.
2. Bronchiolitis. Bronchial asthma.
3. Acute pulmonary inflammations.
4. Congenital heart disease. Heart failure.
5. Anemias. Classification. Study of the most frequent types.
6. Childhood leukemias. Classification. Clinical syndromes. Therapy.
7. Haemostasis and coagulation disorders.
8. Hypothalamic-pituitary pathology. Thyroid pathology.
9. Pathology of the adrenal glands. Pathology of sexual development.
10. Malformations of the kidney and urinary tract. Urinary infection.
11. Glomerulonephritis. Nephrotic syndrome.
12. Connatal encephalopathies. Child brain paralysis. Epilepsy.
13. CNS infections.
14. Immunodeficiencies.
15. Streptococcal infections. Staphylococcal infections.
16. Tuberculosis. Infrequent infections of vaccine prevention (diphtheria, whooping cough, mumps, poliomyelitis). Other infectious diseases.
17. Promotion of child health. Preventive activities. Vaccination schedule.
18. Rheumatological diseases in childhood.
19. High blood pressure.

2. PRACTICES

SEMINAR PRACTICES

- Semiology of the nervous system.
- Nephrourological semiology.
- Cardiocirculatory semiology.
- Endocrinological semiology and most frequent affections.
- Main malignant diseases.
- More frequent infections.
- Interpretation of the most frequent analytical determinations.
- Accidents and poisonings.

**CLINICAL CASES**

Chronic respiratory disease.

Arterial hypertension.

Allergy.

Rash disease.

Abdominal tumor.

Adenopathies.

Autoimmune disease.

heart murmur

CLINICAL PRACTICES

Stay in a hospital for 4 days, in the mornings.

OTHER PRACTICAL ACTIVITIES

Webinars (pediatric Thursdays), individual online training activities (featured articles, bibliographic news, image of the week, interactive clinical cases and others), clinical skills workshops in the simulation center, service-based learning activities, assistance to courses or congresses, etc... that will be proposed during the course.

WORKLOAD

| ACTIVITY | Hours | % To be attended |
|--------------------------------------|---------------|------------------|
| Seminars | 24,00 | 100 |
| Theory classes | 19,00 | 100 |
| Clinical practice | 13,02 | 100 |
| Study and independent work | 20,00 | 0 |
| Readings supplementary material | 20,00 | 0 |
| Preparation of evaluation activities | 16,25 | 0 |
| TOTAL | 112,27 | |

TEACHING METHODOLOGY

The ECTS credits have been arranged according the current laws about the distribution between attending (50%) and non-attending (50%) activities.

- **Theoretical lessons**, the teacher will expose, in a structured way, through master class, assisted with audiovisual means, the most important concepts and contents for obtaining the knowledge and skills that the students must acquire.

- **Clinical cases** aimed at learning skills in the collection of pathological data, their interpretation and diagnostic and therapeutic orientation. Methodologies that encourage student participation will be used.



- **Group seminars.** Based on selected clinical contents that complement those of the theoretical classes. Their essential features are the active participation of the students, with the facilitating action of the teaching staff, and the common written material, as the center of the discussion between participants.
- **Clinical practices.** Stays in the health services in the different university hospitals and primary care centers, in order to learn how to perform an anamnesis and basic clinical explorations, with a first contact with patients, supervised by the professor.
- **Complementary activities** (webinars, clinical skills practices in the simulation center, gamification, commented readings, attendance at courses or congresses...), proposals during the course in order to broaden the students' vision of children's health problems and its overall approach..

Methodologies that encourage participation, collaborative work and learning of pediatrics in terms of diversity.

The gender perspective and the sustainable development goals (SDGs) will be incorporated into teaching, whenever possible.

EVALUATION

a) Theoretical teaching (50% of the global mark):

- Examination with 40 multiple-answer questions, based on the 19 exposed in the theoretical lessons. Multiplechoice, with 5 possible answers, but only one correct. The right answer will add 1 point and the wrong answer will subtract 0,2 points; blank answers do not have a value.

b) Practical teaching (50% of the global mark):

- Examination of 25 multiple-answer questions, related to the content of the seminars and clinical cases. This represents the 60% of this section. (30% of the global valuation).
- Daily control of attendance at clinical practices and seminars at the corresponding hospital. Attendance to seminars and clinical practices is **mandatory**. Unjustified non-attendance to more than 20% of the sessions will make it impossible to pass the course. The evaluation will be apt or not according to the result of the attendance control and the attitude shown.
- Participation in complementary scoring practical activities proposed during the course. The evaluation will be carried out through the accreditation of attendance and the use established for each one of them. This section accounts for 40% of the practical assessment (20% of the global assessment).

The subject will be passed with a global mark equal to or greater than 5 (out of 10), adding the evaluation of the theoretical teaching and that of the practical teaching and provided that a score equal to or greater than 50% has been obtained in the written exam (4 out of 8 points).

It is a requirement for advanced examination of this subject that the student has completed all practical sessions.



Students are reminded of the importance of carrying out evaluation surveys on all the teaching staff of the degree subjects.

REFERENCES

Basic

- Robert M. Kliegman et al. Nelson. Tratado de Pediatría. 21ª ed. Barcelona: Elsevier; 2020.
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Additional

- Karen J. Marcante y Robert M. Kliegman. Nelson pediatría esencial. 8ª ed. Barcelona: Elsevier; 2019.
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