

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

Code	34489
Name	Paediatrics II
Cycle	Grade
ECTS Credits	4.5
Academic year	2022 - 2023

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
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.
- Organizar y planificar adecuadamente la carga de trabajo y el tiempo en las actividades profesionales.
- Capacidad para trabajar en equipo y para relacionarse con otras personas del mismo o distinto ámbito profesional.
- 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

RESPIRATORY SYSTEM

1. Pathology. Infections of the upper and middle airways.
2. Bronchiolitis. Bronchial asthma.
3. Concept of the acute pulmonary inflammations.

CIRCULATORY SYSTEM

4. Cardiopathies. Cardiac insufficiency.

HEMATOLOGY

5. Anemias. Classification. Anemias study by deficiencies in the red cells formation. Anemias by red cells hyperdestruction. Main types of hemolytic anemias. Post-hemorrhage anemias.
6. Child leukemias. Classification. Clinical syndromes. Therapeutic.
7. Hemostasis disorders. Angiopathy purpura. Platelets purpura. Disorders of the coagulation factors: coagulopathies.

ENDOCRINE SYSTEM

8. Hypothalamus-hypophysis pathology. Thyroid pathology.
9. Supra-renal pathology: Sexual development pathology.

URINARY SYSTEM

10. Malformation of the kidney and urinary ducts. Urinary infection.
11. Glomerular-nephritis. Nephrotic syndrome.

NERVOUS SYSTEM

12. Connatal encephalopathies. Infant cerebral palsy. Epilepsy.
13. CNS infections.

INFECTIOUS DISEASES

14. Streptococcal infection. Special study of the scarlet fever. Staphylococcal infection.
15. Tuberculosis.
16. Less frequent infections of vaccine prevention (diphtheria, whooping cough, mumps, poliomyelitis). Other infectious diseases.

PREVENTIVE AND SOCIAL PEDIATRICS



17. Child health promotion. Preventive activities. Vaccine calendar.

2. PRACTICES

SEMINAR PRACTICES

Semiology of the nervous system.
Nephrourological semiology.
Cardio-circulatory semiology.
Endocrine semiology.
Main malignant diseases.
Most frequent infections.
Interpretation of the most frequent analytical determinations.
Accidents and poisonings.

CLINICAL CASES

Chronic respiratory disease.
Arterial hypertension.
Allergy.
Exanthema disease.
Abdominal tumorations.
Adenopathies.
Auto-immune disease.
Cardiac murmur.

CLINICAL PRACTICES

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

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.

The attending activity will be divided into a 15% focused on the theoretical lessons, using the expositive methodology/master class, a 33% focused on the practical teaching through seminars, clinical cases, hospitals visits and tutorials and, finally, a 2% focused on the final exam.

- **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 and gender perspective will be used.

The approaches and objectives of the subject are aligned with the "Sustainable Development Goals" (SDG) of the United Nations 2030 Agenda (<https://un.org/sustainabledevelopment/es/>), in such a way that the acquisition of the Your Learning Outcomes provides training and competence to contribute to some extent to your achievement.

Group changes are NOT accepted in practices or seminars, only duly justified EXCHANGES. To do this, they must send, at least two weeks before the start of the internship, an e-mail to practicaspog@uv.es, attaching the justified request with the signature and ID of the two people involved.

EVALUATION

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

- Examination with 40 multiple-answer questions, based on the 17 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, consist on: Seminars 16 multiple-choice questions (2 per taught seminar) and 9 referred to cases exposed in class. This represents the 60% of this section. (30% of the global valuation).
- Participation in complementary scoring activities proposed during the course. The evaluation will be carried out through the accreditation of attendance and use established for each one of them. This section accounts for 40% of the practical assessment (20% of the global assessment).
- Daily control of attendance at clinical practices and seminars at the corresponding hospital. Attendance at practices and seminars will be compulsory. The lack of more than 20% will mean the impossibility of passing the subject. The evaluation will be apt or not according to the result of the attendance control and the attitude shown.

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).

Attendance to practical sessions is mandatory. Unjustified non-attendance to more than 20% of the sessions will make it impossible to pass the course.

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. 21^a ed. Barcelona: Elsevier; 2020.
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Additional

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