

## 26783 - Pediatrics and Maternal and Child Medicine

### Información del Plan Docente

Academic Year	2016/17
Academic center	104 - Facultad de Medicina
Degree	304 - Degree in Medicine
ECTS	8.0
Course	5
Period	First semester
Subject Type	Compulsory
Module	---

### 1. Basic info

#### 1.1. Recommendations to take this course

#### 1.2. Activities and key dates for the course

### 2. Initiation

#### 2.1. Learning outcomes that define the subject

#### 2.2. Introduction

### 3. Context and competences

#### 3.1. Goals

#### 3.2. Context and meaning of the subject in the degree

#### 3.3. Competences

#### 3.4. Importance of learning outcomes

### 4. Evaluation

### 5. Activities and resources

#### 5.1. General methodological presentation

The learning process that is designed for this subject is based on the following:

It includes the following activities corresponding to 8 ECTS (200 hours):

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- Not face teaching: (55%): 4.4 ECTS (110 hours):

Based on individual student work which should include consultation and study of the different literature sources recommended.

- Classroom teaching (45%): 3.6 ECTS (90 hours):

• Large groups:

+ Classroom: Lectures: 45 hours (1.80 ECTS): Theoretical program, assisted with audiovisual media (blackboard, computer, projector, etc.).

• Small groups: 44 hours (1.60 ECTS)

+ Seminars: 14 hours (0.5 ECTS). Content-based classroom teaching / selected clinical topics not covered in the theoretical program (lectures) of the subject. Participation and student responses to questions raised (orally) by the teacher in the classroom will be scored. Methodologies that encourage student participation will be used. Contents revisions and updates of groups of specific diseases will be included.

Clinical Cases + Workshops: 10 hours (0.4 ECTS). Teacher meets with small groups of students addressing clinical cases based on learning of skills in performing specific clinical examinations, pathological data collection, interpretation and guidance to a correct diagnosis. Diagnoses will be developed based on prior knowledge of clinical semiology. Logical therapeutic guidelines will be considered based on formulated diagnoses.

+ Practice / Simulation: 9 hours (0.36 ECTS). Performing practical clinical skills in the Simulation Center. Computer simulators in which each student individually should be able to diagnose diseases from data provided by the teacher will be used.

+ Guided and / or revision work: 5 hours (0.2 ECTS). Making individual and / or group work. Subsequent public presentation of the work and / or revision made.

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+ Tutorials: 5 hours (0.2 ECTS). Staff and / or telematics interview with the teacher / tutor (academic guidance, information and guidance of skills to be acquired).

### 5.2.Learning activities

### 5.3.Program

The program offered to the student to help him/her to achieve the expected results includes the following activities...

1:The theoretical program of the subject is divided into 6 thematic blocks:

I. Basic Concepts in Pediatrics.

II. Child nutrition and its disorders.

III. Preventive Pediatrics.

IV. Neonatology and perinatal pathology.

V. Pediatric Diseases (by systems and organs).

VI. Infectious diseases in childhood.

THEORY OF PEDIATRICS

ECTS theoretical: 1.80 (45 hours)

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### I. BASICS IN PEDIATRICS

Lesson 1. Concept of Pediatrics and Child Care. Periods of childhood.

Lesson 2. Growth and development.

### II. CHILD NUTRITION AND DISORDERS

Lesson 3. Nutrition. Nutritional requirements.

Lesson 4. Breastfeeding. Formula feeding.

Lesson 5. Complementary feeding. Intolerance and food allergy.

Lesson 6. Eating disorders. Obesity and anorexia nervosa. (2 classes)

Lesson 7. Current situations of malnutrition. Rickets. Nutritional anemia. (2 classes)

### III. PREVENTIVE PEDIATRICS

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Lesson 8. Calendar of vaccinations.

Lesson 9. Accidents. Intoxications. Sudden Infant Death Syndrome.

### IV. PERINATAL PATHOLOGY AND NEONATOLOGY

Lesson 10. Embryofetopathies.

Lesson 11. Chromosomal abnormalities. Main paediatric dysmorphic syndromes.

Lesson 12. Inborn errors of metabolism. Newborn screening.

Lesson 13. Normal newborn.

Lesson 14. Adaptive disorders and injuries of the newborn.

Lesson 15. Metabolic disorders, hemorrhagic syndromes and respiratory syndromes of the newborn.

Lesson 16. Perinatal asphyxia.

Lesson 17. Premature newborn.

Lesson 18. Neonatal infections.

**V. PEDIATRIC DISEASES (BY SYSTEMS AND ORGANS)**

Lesson 19. Acute diarrhea. Dehydration.

Lesson 20. Differential diagnosis of vomiting.

Lesson 21. Differential diagnosis of abdominal pain.

Lesson 22. Celiac disease.

Lesson 23. Cystic fibrosis.

Lesson 24. Upper respiratory tract infections.

Lesson 25. Lower respiratory tract infections.

Lesson 26. Asthma.

Lesson 27. Congenital Heart Disease.

Lesson 28. Urinary tract infection.

Lesson 29. Nephrotic syndrome. Acute poststreptococcal glomerulonephritis.

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Lesson 30. Short stature. Growth hormone deficiency.

Lesson 31. Pathology of the thyroid gland.

Lesson 32. Abnormalities of sexual differentiation.

Lesson 33. Pathology of puberty.

Lesson 34. Diabetes mellitus.

Lesson 35. Intellectual disability. Cerebral palsy.

Lesson 36. Seizures and epilepsy.

Lesson 37. Hypotonia. Peripheral neuropathies.

Lesson 38. Cancer in childhood. Acute lymphoblastic leukemia.

Lesson 39. Wilms tumor. Neuroblastoma.

### VI. INFECTIOUS DISEASES

Lesson 40. Differential diagnosis of exanthematous diseases.

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Lesson 41. Bacterial meningitis. CNS viral infections.

Lesson 42. Tuberculosis.

Lesson 43. Immunodeficiencies.

- SEMINARS (14 hours):

1 - Anamnesis and physical examination. Anthropometric tables and charts.

2 - Nutritional assessment.

3 - Breastfeeding.

4 - Family pedigree and types of inheritance.

5 - Dosage of drugs in Pediatrics.

6 - Assistance to normal newborn.

7 - Newborn screening.

8 - Evaluation of the dysmorphic child.



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9 - Haematuria.

10 - Congenital adrenogenital syndrome.

11 - Resuscitation in children.

12 - Lymphadenopathies.

13 - Febrile syndrome.

14 - Imported diseases

- CLINICAL CASES WORKSHOPS (10 hours):

1. Obesity with metabolic risk.

2. Failure to thrive.

3. Intoxications.

4. Newborn with respiratory distress.

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5. Newborn with jaundice.

6. Vomiting.

7. Edema.

8. Short stature.

9. Hyperglycaemia.

10. Hypotonia.

- PRACTICE WITH SIMULATION (9 hours):

Themes:

1. Ventilation. Intubation. Life support.

2. Pulmonary and cardiac auscultation.

3. Lumbar puncture.

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4A. Simulated clinical case:

- Cough and difficulty breathing.

4b. Simulated clinical case:

- Child with fever.

4c. Simulated clinical case.

- The child who does not eat.

5. Clinical cases interactive.

- Sepsis / Meningitis.

- Asthma.

Duration of the internship simulation :

Items 1 and 5: 2 hours each

Items 2 and 3: 1 hour each

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Item 4: 3 hours (1 hour each)

### 5.4.Planning and scheduling

**DATES AND TIMES:** The lectures of large groups (lectures) will start (in all groups at a time) on September 19, 2016 and will end on Friday, January 13, 2017. They will be held from 8:00 to 9: 00 am Monday through Friday. Meanwhile, educational activities for small groups will begin the week of September 26, 2016 for 12 consecutive weeks, being given to the 12 groups, with 25 students each. The duration of teaching for small groups is 2.45 hours / day. The seminars will last 1 to 2 hours, depending on the content, and the workshops of clinical cases will last between 2 and 3 hours.

The planned dates for evaluations of the subject in the academic year 2016-2017 will be as follows:

- Friday January 27, 2017

- Monday, 11 September 2017

### 5.5.Bibliography and recommended resources

Updated References will be available in the Medical Library and it can be obtained in the [web](#)