

**COURSE DATA****DATA SUBJECT****Code:** 34709**Name:** General medical pathology and paediatrics**Cycle:** Undergraduate Studies**ECTS Credits:** 9**Academic year:** 2025-26**STUDY (S)**

Degree	Center	Acad. year	Period
1206 - Degree in Dentistry	Facultat de Medicina i Odontologia	2	Annual

SUBJECT-MATTER

Degree	Subject-matter	Character
1206 - Degree in Dentistry	General medical pathology and paediatrics	COMPULSORY

COORDINATION

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SUMMARY**CLINICAL MEDICINE:**

The main objective of Clinical Medicine is to provide a basic knowledge about how medical conditions can influence health and dental care. The subject is given a general overview of the causes, mechanisms, manifestations and general management of diseases, especially those that are more closely related to the practice of dentistry and oral health.

The students do not have to know in detail all the issues of Clinical Medicine, but rather to be able to identify the most relevant and common diseases, their complications and their relationship with dentistry.

PAEDIATRICS:



The scheduled program, limited by the number of teaching hours assigned to it within the degree, includes a selection of general and basic paediatric topics, which all healthcare professionals should know. The program also covers more specific aspects of common diseases affecting the paediatric population and treated by the dentist, in particular those aspects, which require special attention.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

COMPETENCES / LEARNING OUTCOMES

1206 - Degree in Dentistry

Conocer, valorar críticamente y saber utilizar las fuentes de información clínica y biomédica para obtener, organizar, interpretar y comunicar la información científica y sanitaria.

Conocer del método científico y tener capacidad crítica para valorar los conocimientos establecidos y la información novedosa. Ser capaz de formular hipótesis, recolectar y valorar de forma crítica la información para la resolución de problemas, siguiendo el método científico.

Conocer de los procesos generales de la enfermedad, entre los que se incluyen la infección, la inflamación, las alteraciones del sistema inmune, la degeneración, la neoplasia, las alteraciones metabólicas y los desórdenes genéticos.

Conocer la farmacología general y clínica en la práctica odontológica.

Conocer las características patológicas generales de las enfermedades y trastornos que afectan a los sistemas orgánicos.

Conocer las manifestaciones orales de las enfermedades sistémicas.

Conocer los procedimientos y pruebas diagnósticas clínicas y de laboratorio, conocer su fiabilidad y validez diagnóstica y ser competente en la interpretación de sus resultados.

Conocer los procesos generales de enfermar, curar y reparar, entre los que se incluyen la infección, la inflamación, la hemorragia y la coagulación, la cicatrización, los traumatismos y las alteraciones del sistema inmune, la degeneración, la neoplasia, las alteraciones metabólicas y los desórdenes genéticos.

Conocer y manejar las emergencias y urgencias médicas más frecuentes en la práctica odontológica y en las técnicas de reanimación cardiopulmonar básica.

Estar familiarizado con las características patológicas generales de las enfermedades y trastornos que afectan a los sistemas orgánicos, específicamente aquellas que tienen repercusión bucal.



Identificar el principal motivo de consulta y la historia de la enfermedad actual. Realizar una historia clínica general del paciente y una ficha clínica que refleje fielmente los registros del paciente.

Identificar los signos y actitudes que sugieran la posible existencia de malos tratos.

Obtain and elaborate a clinical history with relevant information.

Promover el aprendizaje de manera autónoma de nuevos conocimientos y técnicas, así como la motivación por la calidad.

Tener conocimientos apropiados de nutrición humana, en particular, la relación de los hábitos nutricionales y de la dieta con el mantenimiento de la salud y la prevención de las enfermedades buco-dentales.

DESCRIPTION OF CONTENTS

1. THEORY. CLINICAL MEDICINE

1. General health and disease. General concepts and main elements of Clinical Medicine.
2. Immunological mechanisms and disease: hypersensitivity reactions, autoimmunity and immunodeficiency.
3. Clinical manifestations of the disease. Pain. Fever. Inflammation.
4. Systemic inflammatory response syndromes. Concepts of bacteraemia, sepsis and septic shock.
5. Genetic disorders. Clinical manifestations of hypoxia.
- 6.-CARDIOVASCULAR DISEASES:
 - 6.1 Arteriosclerosis.Hypertension. Vascularpathology.
 - 6.2 Ischemic heart diseases.
 - 6.3 Infective endocarditis. Arrhythmias.
 - 6.4 Heart Failure.
- 7.-ENDOCRINE PATHOLOGY:
 - 7.1 Hypothalamic-pituitary-gland axis.
 - 7.2 Thyroid diseases.
 - 7.3 Diabetes Mellitus.
- 8.-DIGESTIVE PATHOLOGY:
 - 8.1 Esophageal diseases. Gastro duodenal diseases.
 - 8.2 Diseases of small and large bowel.
 - 8.3 Diseases of the liver and biliary tract. Liver failure.
- 9.-RENAL PATHOLOGY:
 - 9.1 Acute and chronic renal failure.
 - 9.2 Diseases of the urinary tract.
- 10.-RESPIRATORY PATHOLOGY:
 - 10.1 Respiratory failure. Consolidation, atelectasis and cavitation syndromes.
 - 10.2 Airway obstructions.
- 11.-NEUROLOGICAL PATHOLOGY:
 - 11.1 Cortex pathology. Diseases of the peripheral nervous system and cranial nerves.
 - 11.2 Headache and orofacial pain. Neuralgias.
 - 11.3 Meningeal diseases.
 - 11.4 Strokes.



12.-HEMATOLOGICAL DISEASES:

12.1 Haemorrhagic diathesis.

12.2 Anaemia.

12.3 Haematological malignancies. Myeloproliferative syndromes. Monoclonal gammopathies.

13.- Main oropharyngeal cavity infections.

2. SEMINARS. CLINICAL MEDICINE

Seminar 1: Clinical History, Anamnesis, Main Physical Exploration of head and neck

Seminar 2: Diseases related to microorganism. Prophylaxis post-exposure.

Seminar 3: Tumoral Pathology.

Seminar 4. Rheumatologic diseases: Osteoporosis.

Seminar 5. Consciousness disturbances. Coma.

Seminar 6. Pharmacology related to dentistry.

Seminar 7. Management of main medical emergencies.

Seminar 8. Clinical Cases in Clinical Medicine.

3. LAB EXERCISES. CLINICAL MEDICINE

The lab activities consist mainly in the resolution of clinical cases, for which video and electronic resources will be used.

4. THEORY. PAEDIATRICS

1. General characteristics of childhood and peculiarities of their assistance.

2. Growth and development.

3. Prenatal and neonatal disorders.

4. Nutrition and Metabolism.

5. Digestive and nutritional disorders.

6. Infectious Diseases.

7. Disorders that affects the development of the nervous and muscular system.

8. Haematological disorders.

9. Tumour diseases.

10. Cardiac and renal diseases.

11. Respiratory and otorhinolaryngologic diseases.

12. Endocrine and metabolic disorders.

13. Disease prevention and health promotion.

14. Paediatric pharmacology.



15. Emergencies.

5. SEMINARS. PAEDIATRICS

- I. Organization and operation.
- II. Searching for information sources.
- III. General exploration and anamnesis.
- IV. Child psychology.
- V. Emergencies and CPR.
- VI. Case studies.
- VII. Case studies.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	50,00
Laboratory	15,00
Classroom practices	25,00
Total hours	90,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	20,00
Independent study and work	80,00
Preparation of lessons	35,00
Preparation for assessment activities	0,00
Resolution of case studies	0,00
Total hours	135,00

TEACHING METHODOLOGY

ECTS assigned to the training activities of this material is distributed according to criteria to allocate 40% of hours to classroom activity and 60% of non-contact hour activities.

Classroom activity time will be distributed in 45% of the hours devoted to lectures, using expository method / master class, 40.5% of the hours devoted to practical teaching (seminars, case resolution, clinical practice) and tutorials and 4.5% of the hours dedicated to the final exam.



The classroom exercises include seminars in groups of about 30-35 students and laboratory practices in groups of about 15 students. The classroom exercises are aimed to strengthen and expand the relevant knowledge of the subject, promote self-learning and for solving problems and doubts. The lab exercises consist mainly in the resolution of clinical cases, for which video and electronic resources will be used.

The non-contact activities will be devoted to study, preparation of seminars and cases as well as the development of assignments that the students will be asked to develop, clarifying and looking more in-depth at the subject matter.

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

EVALUATION

Two independent evaluations will be carried out, corresponding to each of the subjects that make up the course (General Medical Pathology and Pediatrics). A passing grade for the course cannot be issued until both subjects have been successfully passed. The subject that has been passed will retain this status indefinitely.

The final grade for the course (General Medical Pathology and Pediatrics) will be calculated as 70% from the grade obtained in General Medical Pathology and 30% from the grade in Pediatrics. However, it is essential to pass both parts separately.

The assessment of learning will be based on the following criteria:

- Preparation of assignments, individually or in groups, on specific topics from the course syllabus. This will account for 20% of the overall evaluation.
- Final written exam, consisting of multiple-choice questions, to assess the knowledge acquired as covered in the course syllabus. This will represent 70% of the overall evaluation. To be eligible for this exam, students must have previously completed the activities mentioned in the previous paragraph.
The General Medical Pathology exam consists of 60 questions, most of them multiple-choice with 4 or 5 options, among which only one is correct. It may also include short answers, matching, or other types of questions. Each correct answer adds 1 point, and each incorrect answer deducts 0.20 points.
The Pediatrics exam consists of 35 multiple-choice questions, with four or five options, among which only one is correct. Each correct answer adds 1 point, and each incorrect answer deducts 0.20 points. Passing this exam is essential to pass the course.
- Attendance, attitude, and level of participation in practical training activities, as well as appropriate use of new information and communication technologies (ICT). This will account for 10% of the overall evaluation.



To be eligible for an early exam session for this course, students must have completed all their practical placements.

Attendance at practical activities is mandatory. A student is considered to have met this requirement if they have attended at least 80% of these activities and have properly justified their absence from the remaining sessions due to a force majeure reason. Fulfilling this requirement is essential to pass the course.

Students are reminded of the great importance of completing the evaluation surveys for all the teaching staff involved in this course.

REFERENCES

BASIC

- Guzmán, F. (2020). *Introducción a la medicina clínica: fisiopatología y semiología*. Barcelona: Elsevier.
- Castro, & Arellano, J. (2020). *Manual de patología general*. Barcelona: Elsevier.
- Nelson, W. E. et al. (2020) *Nelson Tratado de pediatría* / Edited by Robert M. Kliegman [i 5 més]. 21 edición. Barcelona: Elsevier. https://trobes.uv.es/permalink/34CVA_UV/um6gse/alma991009433439306258
- Lissauer, T. & Clayden, G. (2012) *Texto ilustrado de pediatría* / Tom Lissauer, Graham Clayden. 3a ed. Barcelona: Elsevier. https://trobes.uv.es/permalink/34CVA_UV/um6gse/alma991008304249706258.

COMPLEMENTARY

- Scully C. *Scully's Medical Problems in Dentistry*. Edinburgh: Churchill Livingstone; 2014.
- Domarus, A., Valentí, P., Rozman, C. & López, F. (2020). *Medicina interna*. Barcelona: Elsevier.
- Jameson, J. (2019). *Harrison principios de medicina interna*. Ciudad de México: McGraw-Hill Education.
- Nowak, A. J. (2019) *Pediatric dentistry: infancy through adolescence* / Arthur J. Nowak [and four others], editors. Sixth edition. Philadelphia, PA: Elsevier. Disponible en: https://trobes.uv.es/permalink/34CVA_UV/um6gse/alma991009398841406258

e-Health Resources:

- ClinicalKey Student Medicina, Odontología y Enfermería <https://uv-es.libguides.com/RecursosSalut>
- Acces Medicina https://uv-es.libguides.com/Access_Medicina
- Médica Panamericana https://uv-es.libguides.com/Medica_Panamericana



VNIVERSITAT ID VALÈNCIA

Course Guide

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