

## 29317 - General Surgical Pathology II

### Información del Plan Docente

<b>Academic Year</b>	2017/18
<b>Faculty / School</b>	229 - Facultad de Ciencias de la Salud y del Deporte
<b>Degree</b>	442 - Degree in Odontology
<b>ECTS</b>	6.0
<b>Year</b>	2
<b>Semester</b>	Second semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.General information**

#### **1.1.Introduction**

Brief presentation of the subject

General Surgical Pathology II.

The overall objective of this course is to give aconoce the student of Dentistry fundamentals and principles governing the surgical activity in general and provide the necessary methods to acquire the conocimientos on the most common disease entities of surgical pathology particularly important in those related to dental activity.

In the development of this subject specifically address the Anesthesiology (includes local anesthesia, loco-regional, general and sedation) Treatment of pain and the basic measures needed to achieve resuscitation.

Likewise the disease entities of organ and tissue transplants, surgical infections, diseases and pathology of nerve, neuritis, trauma and tumors as well as musculoskeletal disorders and circulatory system detailing.

In the practical part, know the surgical terminology, the instrumental, the operating facilities, operating rooms, PACU, ICU and techniques used in antisepsis, antisepsis and hemostasis, alterations of the internal environment and nutrition, antibiotic and thromboembolic prophylaxis, and fundamentals of surgical and anesthetic activity for small surgical interventions and cures.

#### **1.2.Recommendations to take this course**

To take this course it is necessary that the student has studied the subjects developed in Module I and General Surgical Pathology I. It is recommended to have a sound knowledge of Anatomy and Physiology

To achieve the learning outcomes and skills development, students will have to attend and participate in at least 80% of the planned seminars and practical classes in the programming of the subject. attendance and participation at lectures to students is recommended. It is also advised that students see bibliography recommended by the teacher.

#### **1.3.Context and importance of this course in the degree**

The subject detro of Pathology and Therapeutic Medical Surgical General module fits to develop in the 2nd year and 4th semester of Degree of Dentistry, whose meaning is to provide students with the mediosnecesarios to know the most common disease entities of the General surgical pathology and Anesthesiology and resuscitation in particular.

#### **1.4.Activities and key dates**

The academic calendar established by the University of Zaragoza for 2nd term subjects will continue

The lectures will begin delivering the first day of collective class, with the following schedule: Proposed established by the Faculty of Health Sciences and Sport for this subject. Once I fianlizado the thematic block, the first seminar on the matter that will be done. In the same way it will be done with the IV thematic blocks that make up the subject. Given the teaching weeks of the 2nd semester of the academic year 2014-15, both theoretical classes taught by teachers as seminars on these issues they will be fully developed in the last week of May 2015.

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After each subject the student will deliver the work on the developed material, which will be presented at the seminar for that block. It is anticipated that the first work should be presented in the 2nd week of March the 2nd in the 1st week of April the 3rd in the 1st week of May and the 4th in the 4th week of May 2015.

Laboratory practices, will be held in groups of 8 students in school hours designated for this purpose (see proposed by the Academic Dean of the Faculty of Health Sciences and Sport hours) and throughout the semester. Hospital practices, will be conducted in groups of two students, in the morning, 9.00 to 15.00, on set days to complete 20 hours of hospital practices. Such practices will begin two weeks after the start of the lectures, to allow the student to have a minimum basis for understanding the actions and surgical procedures.

Important dates of the course as registration or an overall examination of the subject, as well as the academic calendar and schedule updates are reflected on the website of the Faculty of Health Sciences and Sport: <https://fccsyd.unizar.es/odontologia/grado-odontologia>

### 2.Learning goals

#### 2.1.Learning goals

The student, for passing this subject, should demonstrate the following results ...

Distinguish normal from pathological, recognizing the signs and symptoms of the diseases under study

Knowing and applying the principles that govern all surgical activity

Understand the concepts of sterility to apply in the surgical field and in the proper use of surgical instruments.

Collaborate with the surgeon, in patients whose conditions behave affectation or dental commitment

#### 2.2.Importance of learning goals

Knowledge and ability to apply the principles that govern all surgical activity

Knowing and applying methods and techniques to make the patient insensible to pain and protect against psychic and somatic aggression, before, during and after surgery

Maintain vital functions in optimal conditions both diagnostic and therapeutic procedures and be able to resuscitate patients who are in critical condition.

### 3.Aims of the course and competences

#### 3.1.Aims of the course

The subject and its expected results meet the following approaches and objectives:

The objectives set to achieve with the development of this area are:

to publicize the pathophysiologic principles that are based surgical conditions and provide students with the necessary methods to acquire knowledge of common disease entities of Surgical Pathology.

In addition, the approach of this course students will be provided the necessary methods to learn and apply techniques to reduce or eliminate pain, both produced by diferntes surgical procedures such as that resulting from diseases of other etiology.

#### 3.2.Competences

To pass the course, students will be more competent to ...

-Knowing the general processes of sick, heal and repair

Know and handle emergencies and more frequent medical emergencies in dental practices, especially in basic CPR techniques

-Knowing the essential elements of the dental profession, with special relevance of ethical principles and legal responsibilities.

-Apply the principles of controlling anxiety and stress, about oneself and the patient.

-Be able to acquire knowledge autonomously.

-Being able to perform teamwork

-Be able to handle information sources effectively, efficiently and critically.

-Knowing the scientific method and be able to use it.

-Being able to make a diagnosis trial and apply the appropriate therapeutic measures, making an effective differential diagnosis.

### 4.Assessment (1st and 2nd call)

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### 4.1. Assessment tasks (description of tasks, marking system and assessment criteria)

The student must demonstrate that it has achieved the intended learning outcomes through the following evaluation activities

Objective tests of knowledge and solving exercises and practical (70% of the final grade) cases The test will consist of: a written exam consisting of 10 multiple choice questions with 5 items of which only one is right (2 points, each correct question has a value of 0.2 points, the question blank does not count and the wrong subtracts 0.1). 4 short questions (4 points) and 2 essay questions (4 points).

Acquisition of practical skills developed in the laboratory and hospital practices (15% of the final grade). It is valued: the attitude and aptitude of the student, their interest and skills acquired.

Realization and defense of work on specific topics of the subject, with special emphasis on issues involving something new, whether diagnostic or therapeutic. (10% of the final grade). It is valued the content of the exhibition, how to expose and novelty of the subject exposed

Student participation in all training activities of the subject (5% of the final grade). ASSISTANCE TO PRACTICES AND SEMINARS IS A MANDATORY to pass the course.

### 5. Methodology, learning tasks, syllabus and resources

#### 5.1. Methodological overview

The learning process that has been designed for this course is based on the following:

It will begin with classroom lectures in which the teacher will present the following thematic contents:

Block I: Anesthesiology

Block II. Organ and tissue transplantation

Block III. osteoarticulares surgical conditions

Block IV Otolaryngology

Block V circulatory disorders

mandatory seminars will be held on the theoretical content of the thematic blocks.

Mandatory practices are conducted in the laboratory and mandatory practices in Surgery and Anesthesiology Services of San Jorge Hospital in Huesca

Students will complete and expondran a paper on a topic related to the subject.

#### 5.2. Learning tasks

Theoretical program that the student is offered to help you achieve the expected results.

expository, explanatory and demonstrative sessions, by teachers, of the contents of the subject using audiovisual and informatic at the disposal of the Faculty of Health Sciences and Sport media materials.

Presentation and discussion by students of a topical issue concerning one of the thematic blocks of the subject.

Knowledge of the surgical environment and handling of instruments for performing the four basic surgical procedures:

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Dissection

excision

Synthesis

Self study (study hours)

#### 5.3. Syllabus

Agenda of the course:

I Anesthesiology

1. Introduction to the study of anesthesiology and resuscitation

Item 2. Types of local, regional and general anesthesia.

Item 3. Anesthetic Drugs. Antidotes. Accidents, complications and treatment.

Item 4 Local anesthetics and auxiliaries.

Item 5. Ilocoregional anesthesia. Material. Methods.

Item 6. Complications and accidents of local and regional anesthesia.

Item 7. Treatment of postoperative pain. Prophylaxis and treatment

II. surgical infections:

Item 8. Concepts of surgical infection.

Item 9. Surgical Localized infections, abscesses and boils

Topic 10. Surgical generalized infection. Bacteremia.

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### III. Organ and tissue transplantation

- Item 11. History and development of organ and tissue transplants.
- Item 12. Types of Transplants
- Item 13. Prevention and treatment of transplant rejection of organs and tissues.
- Item 14. organizational and legal aspects of organ transplantation.
- Item 15. Future of transplantation.
- Item 16. Experimental models for the study of organ transplants.

### IV. osteoarticulares surgical conditions

- Item 17. Pathophysiology of bone tissue and bone.
- Item 18. osteomyelitis. maxillary dental infections.
- Item 19. Fractures. Production mechanism, pathology, diagnosis and complications.
- Item 20. Fractures. Fracture callus formation. Treatment.
- Topic 21. Pathophysiology articulate.
- 22. Topic joint trauma.
- Topic 23. Acute septic arthritis.
- Topic 24. degenerative arthropathy. loose bodies.

### V Otolaryngology

- Topic 25. Sinusitis: classification, clinical and treatment.
- Topic 26. Complications of sinusitis.
- Topic 27. naso sinus tumors benign and malignant.
- Topic 28. Focus septic Otolaryngology. Abscesses of the pharynx and neck.

### VI Pathology of the circulatory system

- Topic 29. Arterial Pathology
- Unit 30. venous pathology. TVS and TVP

## 5.4.Course planning and calendar

Schedule sessions and presentation of works

Considering the academic calendar activities starting with the lectures by the teacher after each thematic block a seminar on developments on the block will be made they will be made. The seminar, which should be participatory, should exhibit their work students.

The practices of the subject will be made, once students have acquired the necessary theoretical knowledge to understand the importance and applicability of them.

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## 5.5.Bibliography and recommended resources

- Manual intensive care. Montejo, JC; Lorenzo Garcia, A; Ortiz Leyba, C; Bonet, A. 3rd ed. Madrid: Elsevier. 2006.
- Compendium of surgery / H. Durán Sacristán ... [et al.]. [1st ed, 1st reimp.] Madrid [etc.]: McGraw-Hill, D.L. 2003
- Treaty surgery: biological basis of modern surgical practice / [editor] Courtney M. Townsend, Jr.; [Associate editors] R. Daniel Beauchamp, B. Mark Evers, Kenneth L. Mattox. 19th ed. Amsterdam; Barcelona; Madrid [etc.]: Elsevier, D.L. 2013
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- Orthopedics and traumatology. Silberman. Varaona. 3rd Ed. Argentina. Pan American Ed. 2010
- Advanced Life Support polytrauma. Aguaviva Bascuñana, JJ. 1st ed. Zaragoza: University Presses University of Zaragoza. 2003