

26720 - Surgical Diagnoses and Therapy Procedures

Información del Plan Docente

Academic Year	2016/17
Academic center	104 - Facultad de Medicina
Degree	304 - Degree in Medicine
ECTS	6.0
Course	3
Period	Second 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 is based on:

Classroom lessons

Clinical practice

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Seminars and workshops

Scientific work

Tutorials

Activities:

Presential activities

- Big groups activities (45 %)

- Small groups activities (45 %)

- Seminars
- Workshops
- Clinical practice
- Tutorials

- Evaluation

Non presential activities

Credit

distribution

Credits 6,00

Hours 150,00

%

Presential 45,00

Non presential 55,00

presential

Presential

Non

presential

Hours Credits

67,50 2,70

82,50 3,30

150,00 6,00

Non presential

Factor Hours Credits

Total

Hours Credits

Big groups

(45%)

Lectures 30,38 1,22

Small groups 30,38 1,22

(45%)

Seminars 6,08 0,24

Workshops 6,08 0,24

Clinical Practice 6,08 0,24

1,50 45,56 1,82

75,94 3,04

1,50 9,11 0,36

15,19 0,61

0,50 3,04 0,12

9,11 0,36

0,50 3,04 0,12

9,11 0,36

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Scientific work and assessment	20,00	6,08	0,24	1,50	9,11	0,36	15,19	0,61
Clinical case based learning	10,00	3,04	0,12	1,50	4,56	0,18	7,59	0,30
Tutorial	10,00	3,04	0,12	0,50	1,52	0,06	4,56	0,18
Subtotal		30,38	1,22		30,38	1,22	60,75	2,43

5.2.Learning activities

The program, offered to the students to help them to reach the results includes the following activities:

Presential learning activities (45%).

- **Big Groups learning activities** (Classroom activities)

The subject is divided in 5 major sections subdivided in 23 lessons. Section-1 corresponds to "Fundamentals of surgery", distributed in 7 lessons. Those lessons include basic concepts of surgery that allow the students to introduce in the classically so called "surgical diseases", the study of diseases susceptible to surgical treatment.

Sections 2, 3 y 4 deals, respectively, all the 3 commonest processes in the field of surgery that should be acquainted by the general practitioners : "Trauma" (7 lessons), "Infections" (4 lessons) and "Tumors" (1 lesson). Finally section -5 deals with "Trasplantation" (1 lesson). Due to the great advance in basic and clinical knowledge in transplant surgery and surgical research (1 lesson)

- **Small groups learning activities**

The students must accomplish, during the semester, the small group activities. All the students will be allocated in one of the 12 groups of activities. The first week include Hospital practice, the second week includes seminars and workshops activities.

Week-1

Monday Tuesday Wednesday Thursday Friday

11.00-14.00 h. Clinics Clinics Clinics Clinics Clinics

Week-2

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Monday Tuesday Wednesday Thursday Friday

11.00-14.00 h. Seminar-1 Seminar-2 Seminar-3 Seminar-4 Seminar-5

Hospital practice

The students will accomplish a week of Hospital practice aiming at becoming familiar with the operation room, the hospitalization wards and the outpatient clinic

Every student with access to personal data or patients clinical records is required to keep confidentiality of the information.

All the students will be advised about the risks that the hospital and the laboratory practice, seminars and workshops can carry out and their consequences, including the handling of potential dangerous materials and also what to do in case of accident. All the students must sign a written compromise engagement of fulfilling all the security rules, otherwise they could not complete the period of practice.

For more information please refer to: Risk Prevention Unit, section: Students information

<http://uprl.unizar.es/estudiantes.html>

Non presential learning activities (55%)

This correspond to the autonomous and personal time dedicated to the program lessons, seminars and workshops or scientific work preparation.

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*Tutorials

Tutorials will be personal appointments, it correspond to a presential activity. Appointments should be requested to the correspondent professor asking for the date (day and hour) and also could be non presential contacts (via e.mail or other electronic tools). Appointments should be scheduled during office time (8.00 h. to 15.00 h.).

In group tutorials could also been scheduled, conducted by the correspondent professors in charge of seminars and workshops.

At the beginning of the academic semester, students could ask for a tutor assignment. The aim of tutor asignment is to obtain an appropriate academic guidance

5.3.Program

- Big Groups activities

PROGRAM COURSES (Lectures)

The program is divided in 5 main sections

1. Fundamentals of Surgery

1. Surgery, Surgical Diseases.

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2. Asepsis and antisepsis, The operation room.
3. General, local and regional anesthesia.
4. Preoperative procedures, surgical risk evaluation.
5. Basic techniques of surgery.
6. Biological response to surgery, trauma and infection. Systemic Inflammatory response syndrome and multi-organ failure.
7. Shock.
8. General preoperative care. Immediate postoperative care.

2. Trauma

9. Contusion and wounds. Wound healing, scarring complications.
10. Special etiology wounds. Gun shot wounds, bull horn wounds and animal bites.
11. Explosion wounds, crush syndrome and compartment syndrome.
12. Heat injuries, burns, electrical injuries.
13. Cold injuries: frostbite.
14. Initial assessment and treatment of multiple trauma patients.
15. General principles of plastic surgery, grafts, flaps, and pressure ulcers.

3. INFECTIONS

16. Surgical infections, general perspective.
17. Surgical site infections, phlegmons and abscess.
18. Distant infections, sepsis, severe soft tissue infections.

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19. OR transmitted diseases

4. TUMORS

20. Principles of surgical oncology

21. Surgical aspects of breast cancer, soft tissue tumors and melanoma

5. TRANSPLANTATION

22. Organ and tissue transplantation, general perspective.

6. RESEARCH

23. Surgical research

- Small groups activities

Seminars and Workshops.

The content of these seminars/workshops are related to the program of the course and will be organised in oral presentations, skills, and active involvement of the student.

Every seminar/workshop will be organised in groups of 20-22 students except seminar-3 (groups of 10-12 students).

Dates, distribution and timetable will be available in advance at the Department of surgery notice boards

The Department of surgery has scheduled the following seminars/workshops for the 5^o semester students that course the subject: Fundamentals of Surgery

Seminars and workshops

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Seminar-1 (Monday).

Venous lines and fluid therapy

Seminar-2 (Tuesday).

Videosurgery

Seminar-3. (Wednesday)

Group-1: **Anesthesia** HMS

Group-2: **Airway control** HCU

Seminar-4. (Thursday)

Group-2: **Anesthesia** HMS

Group-1: **Airway control** HCU

Seminar-5 (Friday).

Wound management

Clinical practice/case resolution

All the students will complete a period of clinical practice in the hospital, in contact with surgical wards, OR and outpatient clinic. All the students will be allocated in the different hospital services following the distribution previously scheduled in the Department of surgery

Duration: 5 days of clinical practice during the correspondent week (from Monday to Friday) along the semester, from 11.00 h. to 15.00 h.

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5.4.Planning and scheduling

Calendar of on-site activities and students scientific works presentation

-Classroom lessons : 3 classroom lessons (lectures) every week (Monday, Tuesday, Wednesday), from the 8.00 h. to 9.00 h.

-Seminars and workshops: 5 seminars and workshops along the two weeks period of the small groups activities (from 11.00 h. to 14.00 h.)

-Clinical practice: 5 days of clinical practice along the semester (from 11.00 h. to 15.00 h.)

- Students scientific work : All the students will develop a scientific work that will be presented at the end of the semester (before the final exam)

5.5.Bibliography and recommended resources

BB	Cirugía AEC : manual de la Asociación Española de Cirujanos / directores, P. Parrilla Paricio, J. I. Landa García. - 2ª ed. Madrid : Médica Panamericana, 2011
BB	Compendio de cirugía / H. Durán Sacristán ... [et al.] . - [1ª ed., 1ª reimp.] Madrid [etc.] : McGraw-Hill Interamericana, D.L. 2003
BB	Mulholland, Michael W. Greenfield's Surgery: Scientific Principles and Practice. Fourth Edition Williams & Wilkins publisher, 2011
BB	Principios de cirugía [10ª ed.] / editor en jefe, F. Charles Brunicardi ; editores asociados, Dana K. Andersen ... [et al.] ; traducción, Martha Elena Araiza Martínez, Rafael Blengio Pinto, José Luis González Hernández ; traductor de vídeos, Anahí Chong Hurtado. - 10ª ed. México ; Madrid [etc.] : McGraw-Hill Interamericana, cop. 2015

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BB	Tamames Escobar, Santiago. Cirugía : fisiopatología general, aspectos básicos, manejo del paciente quirúrgico / S. Tamames Escobar, C. Martínez Ramos ; colaboradores, D. Sánchez Vega, S. Tamames Gómez Madrid : Editorial Médica Panamericana, D.L. 1997
BB	Tratado de cirugía : fundamentos biológicos de la práctica quirúrgica moderna / [editor] Courtney M. Townsend, Jr. ; [editores asociados] R. Daniel Beauchamp, B. Mark Evers, Kenneth L. Mattox . 18ª ed. Barcelona [etc.] : Elsevier, cop. 2009 [Precede al tít: Sabiston]
BB	Zollinger, Robert M, Jr. Zollinger's Atlas of Surgical Operations: . McGraw-Hill Medical, 2011