

Academic Year/course: 2021/22

26720 - Surgical Diagnoses and Therapy Procedures

Syllabus Information

Academic Year: 2021/22

Subject: 26720 - Surgical Diagnoses and Therapy Procedures

Faculty / School: 104 - Facultad de Medicina

Degree: 304 - Degree in Medicine

ECTS: 6.0

Year: 3

Semester: Second semester

Subject Type: Compulsory

Module:

1. General information

1.1. Aims of the course

This course is the first contact with the surgical clinics

2. Learning goals

3. Assessment (1st and 2nd call)

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

- Multiple choice questions exam (40 items, 5 possible answers, no negatives for failed answers) gives 9 over 10 points
- Scientific work (to be undertaken by groups of 5 students) gives 1 point over 10 points.
- Seminar/workshops and hospital practice: continuous assessment . All the students has to pass the seminars/workshops and hospital practice before examinations

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as

- Classroom lessons
- Clinical practice
- Seminars and workshops
- Scientific work
- Tutorials

Activities:

Face to face activities

- Big groups activities (45 %)

- Small groups activities (45 %)

- Seminars
- Workshops
- Clinical practice
- Tutorials

- Evaluation

Non face to face activities

Credit distribution

Credits 6,00

Hours 150,00

| | % | | Hours | Credits |
|------------------|-------|------------------|--------|---------|
| Face to face | 45,00 | Face to face | 67,50 | 2,70 |
| Non-face to face | 55,00 | Non-face to face | 82,50 | 3,30 |
| | | | 150,00 | 6,00 |

| | % | Face to face | | Non-face to face | | | Total | |
|--------------------------------|-------|--------------|---------|------------------|-------|---------|-------|---|
| | | Hours | Credits | Factor | Hours | Credits | Hours | C |
| Big groups (45%) | 45,00 | | | | | | | |
| Lectures | | 30,38 | 1,22 | 1,50 | 45,56 | 1,82 | 75,94 | 3 |
| Small groups (45%) | 45,00 | 30,38 | 1,22 | | | | | |
| Seminars | 20,00 | 6,08 | 0,24 | 1,50 | 9,11 | 0,36 | 15,19 | 0 |
| Workshops | 20,00 | 6,08 | 0,24 | 0,50 | 3,04 | 0,12 | 9,11 | 0 |
| Clinical Practice | 20,00 | 6,08 | 0,24 | 0,50 | 3,04 | 0,12 | 9,11 | 0 |
| Scientific work and assessment | 20,00 | 6,08 | 0,24 | 1,50 | 9,11 | 0,36 | 15,19 | 0 |
| Clinical case-based learning | 10,00 | 3,04 | 0,12 | 1,50 | 4,56 | 0,18 | 7,59 | 0 |
| Tutorials | 10,00 | 3,04 | 0,12 | 0,50 | 1,52 | 0,06 | 4,56 | 0 |
| Subtotal | | 30,38 | 1,22 | | 30,38 | 1,22 | 60,75 | 2 |

4.2. Learning tasks

The course includes the following learning tasks:

Face to face learning activities (45%).

- Big Groups learning activities (Classroom activities)

The subject is divided into 5 major sections subdivided into 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 'Transplantation' (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 to one of the 12 groups of activities. The first week includes 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

| | 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 potentially dangerous materials and also what to do in case of an 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-face to face learning activities (55%)

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

*Tutorials

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

In groups, tutorials could also be 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 the tutor's assignment is to obtain appropriate academic guidance.

4.3. Syllabus

The course will address the following topics:

1- Fundamentals of Surgery

- 1. History of surgery
- 2. Asepsis and antisepsis, The operation room.
- 3. General, local and regional anesthesia.
- 4. Haemostasis, bleeding control in surgery
- 5. Preoperative procedures, surgical risk evaluation.
- 6. General preoperative care, immediate postoperative care
- 7. Basic techniques of surgery.
- 8. Scope of modern surgery (major ambulatory surgery, minimally invasive, fast-track)

2-Trauma

- 9. Biological response to surgery, trauma and infection. Systemic Inflammatory response syndrome and multi-organ failure.
- 10. Shock.
- 11. Contusion and wounds. Wound healing, scarring complications.
- 12. Special etiology wounds.
- 13. Explosion wounds, crush syndrome and compartment syndrome.

- 14. Heat injuries, burns, electrical injuries.
- 15. Cold injuries: frostbite.
- 16. Initial assessment and treatment of multiple trauma patients.
- 17. Damage control surgery
- 18. General principles of plastic surgery, grafts, flaps, and pressure ulcers.

3-Infections

- 19. Surgical infections, general perspective.
- 20. Surgical site infections, phlegmons and abscess.
- 21. Distant infections
- 22. Severe soft tissue infections

4-Oncology

- 23. Principles of surgical oncology
- 24. Surgical aspects of breast cancer
- 25. Surgical aspects of soft tissue tumors

5-Surgical research

- 26. Organ and tissue transplantation, general perspective.
- 27. Surgical research

- Small group 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

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 6^o semester students that course the subject: Fundamentals of Surgery

Seminars and workshops

- Seminar-1 (Monday). Videosurgery
- Seminar-2 (Tuesday). Wound management
- Seminar-3. (Wednesday). Airway control
- Seminar-4. (Thursday). Procedures of Anesthesia
- Seminar-5 (Friday). Bleeding control

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 relevant week (from Monday to Friday) along the semester, from 11.00 h. to 15.00 h.

4.4. Course planning and calendar

Calendar of on-site activities and students scientific work 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 one week period of the small group activities (from 11.00 h. to 14.00 h.)
- Clinical practice: 5 days of clinical practice along the one week period of clinical practice (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)

Final exams: <https://medicina.unizar.es/tercer-curso#horario5>

Final evaluation June

Final evaluation September

4.5. Bibliography and recommended resources

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=26720>