

## Basic Surgical Techniques

Code: 102892  
ECTS Credits: 3

**2025/2026**

| Degree   | Type | Year |
|----------|------|------|
| Medicine | OT   | 3    |

### Contact

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### Teachers

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Francesc Espín Ordás

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### Teaching groups languages

You can view this information at the [end](#) of this document.

### Prerequisites

It is advisable that the student has attained the basic competences of the first and second year subjects. It is advisable to have finished the practices of the subject Bases of the Clinical Surgery.

### Objectives and Contextualisation

The objectives are: to know and achieve general competencies in the main basic surgical techniques: sepsis and

local anesthesia and basic procedures in the treatment of surgical patients: airway management, bandaging and

of minimally invasive surgery.

## Competences

- Demonstrate an understanding of the fundamentals of action, indications, efficacy and benefit-risk ratio of therapeutic interventions based on the available scientific evidence.
- Demonstrate sufficient supervised clinical experience in hospitals or other healthcare centres, and familiarity with patient-centred care management and the correct use of tests, medicines and other resources of the healthcare system.
- Demonstrate understanding of the importance and the limitations of scientific thought to the study, prevention and management of diseases.
- Engage in professional practice with respect for patients' autonomy, beliefs and culture, and for other healthcare professionals, showing an aptitude for teamwork.
- Establish a diagnostic approach and a well thought-out strategy for action, taking account of the results of the anamnesis and the physical examination, and the results of the appropriate complementary tests carried out subsequently.
- Establish the diagnosis, prognosis and treatment, basing decisions on the best possible evidence and a multidisciplinary approach focusing on the patient's needs and involving all members of the healthcare team, as well as the family and social environment.
- Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
- Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
- Obtain and prepare a patient record that contains all important information and is structured and patient-centred, taking into account all age and gender groups and cultural, social and ethnic factors.
- Perform a general and a system-by-system physical examination appropriate to the patient's age and sex, in complete and systematic way, and a mental evaluation.
- Recognise and take action in life-threatening situations and others that require an immediate response.
- Use information and communication technologies in professional practice.

## Learning Outcomes

1. Adapt the therapy procedure and the surgical technique, if appropriate, in accordance with the available data.
2. Apply basic surgical manoeuvres in practice with simulated models.
3. Approach the physical examination not only from the diagnostic perspective, but also the therapeutic perspective, with special emphasis on surgical procedures.
4. Calculate the surgical risk indices, both general and by apparatus, and adjust the indications accordingly.
5. Distinguish the bases of the different surgical specialisations to integrate and lead the treatment in acute and chronic patients with multiple conditions.
6. Encourage the search for answers to the questions that arise during surgery.
7. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
8. Identify the ethical bases for decision-making in the field of surgery.
9. Integrate all pre-operative information for decision-making.
10. Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
11. Make a critical analysis of the objectives to be achieved with surgery, contrasting this with the adverse effects that may be involved.
12. Perform the initial assessment automatically and acknowledge the actions that require an immediate response.
13. Transmit the information on the surgical procedure to be performed and draw up a document of informed consent.
14. Use information and communication technologies in professional practice.

## Content

This subject aims to help you learn the basic surgical techniques. This learning is based on theoretical basic concepts

followed by a practice (150 minutes).

The 3 hours class modules are the following:

1.- SURGICAL TECHNIQUES: SEPSIS AND ANTISEPSIS. LOCAL ANESTHESIA. SURGICAL INSTRUMENTATION

2.- MINIMALLY INVASIVE SURGERY. VESICAL CATHETERIZATION, CISTOSTOMY

3.- MANAGEMENT OF THE AIRWAY

4.- STOMAS

5.- BANDAGING AND IMMOBILIZATIONS

### Activities and Methodology

| Title            | Hours | ECTS | Learning Outcomes                             |
|------------------|-------|------|---|
| Type: Directed   |       |      |   |
| Type: Directed   | 15    | 0.6  | 1, 2, 4, 5, 11, 3, 7, 8, 6, 9, 10, 12, 13, 14 |
| Type: Autonomous |       |      |   |
| Type: Autonomous | 59    | 2.36 | 1, 4, 5, 11, 7, 8, 6, 9, 10, 12, 13, 14       |

The subject is based, in the first place, on directed activities, which consist in the realization of five modules of the

The first part of each module is the presentation, by the teacher, of the theoretical concepts, during a space of 3

the same concepts are developed in a practical way in the second part of each module,

in the form of clinical laboratory practices, whose duration is 120 minutes and, finally, 30 minutes for the evaluation

Typology of activities: PLAB: 15 hours (directed)

The student can also do 15 hours of supervised voluntary practice in group

This methodology is a basic model and the final organization of the subject

Likewise, the final list of all teachers involved in the subject in each teaching unit will be announced.

In the current exceptional circumstances, at the discretion of the teachers and also depending on the resources available and the public health situation, some of the theoretical classes, practicals and seminars organized by the Teaching Units may be taught either in person or virtually.

Departament(s) responsable(s): Surgery

Faculty main officer: : Eloy Espin

Unit main officer

UD Vall d'Hebron: Eloy Espin Basany

UD Germans Trias i Pujol: Francesc Espín Ordas

UD Sant Pau: Sonia Fernandez Ananin

UD Parc Taulí: Salvador Navarro

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Assessment

### Continous Assessment Activities

| Title   | Weighting | Hours | ECTS | Learning Outcomes               |
|---|-----------|-------|------|---------------------------------|
| Attendance and active participation in class and seminars | 40%       | 0     | 0    | 7, 10, 14                       |
| Practical type evaluation: simulations                    | 50%       | 1     | 0.04 | 1, 2, 4, 5, 11, 3, 8, 9, 12, 13 |

Laboratory practices represent 90% of the final score. The participation of the students in the laboratory practices counts 40%. The practical contents represent 50%, which will be evaluated in a multi-seasonal test or simulation.

If the student wants to upload a grade or obtain an honors degree, he / she will have to do a paper on one of the subjects of the laboratory practices (10% of the final grade: narrative work).

Non-participation in laboratory practices will be counted as not evaluable.

This subject does not provide the single assessment system.

## **Bibliography**

Specific bibliography:

- Kirk RM. Basic surgical techniques. Ed Elseveier.
- Sherris D. Basic Surgical Skills. Ed Mayo

Consultation bibliography

- Schwartz. Principles of Surgery. Ed McGraw Hill
- Sabiston Treatise for Surgery, CM Townsend. Ed Elsevier SA.
- Balibrea Ed Marfan Surgery

Internet resources -

- Aecirujanos.es
- scc.org

## **Software**

None

## **Groups and Languages**

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.