

**Basic Surgical Techniques**

Code: 102892  
ECTS Credits: 3

Degree	Type	Year	Semester
2502442 Medicine	OT	3	0
2502442 Medicine	OT	4	0
2502442 Medicine	OT	5	0
2502442 Medicine	OT	6	0

**Contact**

Name: Eloy Espin Basany  
Email: Eloy.Espin@uab.cat

**Use of Languages**

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

**Teachers**

Salvador Navarro Soto  
Eduardo María Targarona Soler  
Francesc Espín Ordás

**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**

## Medicine

- 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 CATHETERING, CISTOSTOMY

3.- MANAGEMENT OF THE AIRWAY

4.- STOMAS

5.- BANDAGING AND IMMOBILIZATIONS

## Methodology

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

The first part of each module is the presentation, by the teacher, of the theoretical concepts, during a space of 30 minutes

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 will be announced.

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

## Activities

Title	Hours	ECTS	Learning Outcomes
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Type: Directed

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Type: Directed	15	0.6	1, 2, 4, 5, 11, 3, 7, 8, 6, 9, 10, 12, 13, 14
Type: Supervised			
Type: Supervised	15	0.6	1, 11, 3, 6, 9, 10, 13, 14
Type: Autonomous			
Type: Autonomous	44	1.76	1, 4, 5, 11, 7, 8, 6, 9, 10, 12, 13, 14

## Assessment

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.

## 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
Written work	10%	0	0	1, 6

## 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