



## GENERAL SURGERY

**Course:** General Surgery  
**Year:** 3<sup>rd</sup>  
**Period:** 1<sup>st</sup> Semester  
**Credits:** 3 credits

### Objectives

#### *Knowledge and understanding*

By the end of the course, the students will:

- Know the principles of the surgical approach to patients
- Understand the criteria for evaluating a surgical candidate
- Understand the rules for a correct surgical approach to oncological diseases and trauma patients
- Know the different surgical approaches
- Know the principles of postoperative management
- Understand the main postoperative risks
- Know some of the commonest surgical diseases, i.e., hernia, intestinal obstruction, and acute abdomen
- Know the main metabolic alterations related to surgery
- Understand the quality check in surgery and the approach to clinical research in surgery
- Understand the indication and outcome of solid organ transplantation
- Know the principles of a global surgery approach
- Know available technologies in surgery

Knowledge acquired during this course is essential to reach an overview of surgical sciences and the surgical approach to patients. This exam is propaedeutic to the beginning of the professional activity as a Medical Doctor.

#### *Application of knowledge and understanding*

By the end of the course, the students will be able to:

- Provide a global evaluation of the operative risk
- Identify fragile patients
- Approach patients in their postoperative setting
- Face the commonest postoperative complications (bleeding/sepsis)
- Plan the preliminary step of management of some of the commonest surgical diseases, i.e., hernia, intestinal obstruction, and acute abdomen
- Check for safety and quality of surgery



## **Prerequisites**

To better understand the course content, students should have passed the exams of:

BUILDING BODIES  
BODY ARCHITECTURE  
THE CELL: FUNCTIONS AND CONTROL  
BODY AT WORK 1-2  
MECHANISM OF DISEASES 1-2

Nevertheless, the abovementioned courses are not mandatory to attend the exam of General Surgery

## CONTENTS

	Subject
Intro	Introduction - Presentation of the course
	Overview of Modern Surgery
Preop	Principles of Surgical Evaluation
	Frail Patients & Prehabilitation
	Principles of Surgical Oncology
	Principles of Trauma Surgery
Technique	Minimally Invasive Surgery
	Solid Organ Transplantation
Postop	Postoperative course / Complications and classifications
	ERAS protocol
	Metabolism in Surgery
	Septic complications
	Hemorrhagic complications
Diseases	Hernia
	Intestinal obstruction
	Acute abdomen
Education & Future	Technology and AI in Surgery
	Global surgery
	The residency - The surgeon's life
	Quality & Safety in Surgery
	Research in Surgery
Interactive activity	Discussion of Clinical Cases



## **Teaching Methods**

### Lectures

The main purpose of lectures is to transfer knowledge to students by guiding them through the most relevant subjects of the disciplines included in the course of General Surgery.

Students are expected to participate proactively and to take notes as part of the learning process.

All lectures will be held synchronously and in presence. Lectures will be available online using Teams and will be recorded.

### Clinical case discussion

The purpose of this activity is to activate and solidify knowledge acquired during lectures and independent study, in a collaborative learning setting.

Some clinical cases will be presented and a step-by-step discussion of patient management will be performed, moving from clinical presentation to diagnosis and treatment.

The students will actively participate through interactive questionnaires.

Participation is mandatory and is strongly recommended in presence. Students who are not able to attend the discussion in presence can participate online through Teams

## **Attendance**

To access the final exam, the students must attend  $\geq 75\%$  of the lectures

If the required attendance will not be reached, the final exam will include a mandatory oral evaluation

## **Verification of learning**

The final evaluation will be done according to the following rules:

Written Exam

Multiple choice (5 options, one correct)

Number: 33 questions

Duration: 1 hour

Correct answer: +1 point

Wrong answer: 0 points

*30 cum laude if  $>30$  points*

*Exam failed if score  $<18$  points*



## **Texts**

Townsend, et al.  
Sabiston Textbook of Surgery, 20th Edition  
Publisher: Elsevier

### ***Online resource***

UpToDate  
<https://www.uptodate.com>