UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

General Surgery A

2526-6-H4101D336-H4101D207M

Aims

The course aims to equip students with the necessary tools and knowledge to make accurate clinical diagnoses of various surgical diseases, to formulate appropriate differential diagnoses among different pathological entities, and to establish the foundations for correct surgical (and non-surgical) treatment indications by providing technical and strategic tools for treating different diseases. The knowledge provided in the course will give students a clinical and practical basis for understanding surgical diseases through direct clinical evaluation and discussion of paradigmatic clinical cases.

Contents

1. Surgical Techniques: open surgery, laparoscopic surgery, robotic surgery
2. Perioperative Medicine and ERAS (Enhanced Recovery After Surgery)
3. Perioperative Risk Assessment, Principles of General Anesthesia, and Elderly Patients
4. Clinical Nutrition and Artificial Nutrition
5. Abdominal Wall Pathology: clinical approach to patients with hernia and its complications
6. Proctology: approach to patients with anal canal and sphincter apparatus diseases, including diagnostic and therapeutic pathways
7. Diverticular Disease of the Colon
8. Biliary Lithiasis: cholelithiasis and choledocholithiasis with acute complications
9. Transplant Surgery of Solid Organs: liver, pancreas, kidneys
10. Pediatric Surgery Overview

Oncological Surgery Module:

11. Malignant tumors of the colon and rectum and their multidisciplinary treatment
12. Malignant tumors of the stomach and esophagogastric junction and their multidisciplinary treatment
13. Primary liver tumors (HCC and cholangiocarcinoma) and their multidisciplinary treatment

14. Pancreatic tumors and their multidisciplinary treatment
15. Melanoma and its multidisciplinary treatment

Detailed program

1. Surgical Techniques: open surgery, laparoscopic surgery, robotic surgery
2. Perioperative Medicine and ERAS
3. Perioperative Risk Assessment, Principles of General Anesthesia, and Elderly Patients
4. Clinical Nutrition and Artificial Nutrition
5. Abdominal Wall Pathology: clinical approach to patients with hernia and its complications
    - Systematic notes (inguinal hernia, femoral hernia, umbilical hernia, incisional hernia)
    - Surgical indications and technical notes
    - Prosthetic materials
    - Day surgery concept
    - Emergency management of hernia complications
6. Proctology: approach to patients with anal canal and sphincter apparatus diseases, including diagnostic and therapeutic pathways
    - Hemorrhoids
    - Fissure
    - Fistulas
    - Prolapse
    - Obstructed defecation
7. Diverticular Disease of the Colon
    - Management of patients with diverticulosis
    - Treatment of complications (inflammation, stenosis, bleeding, perforation)
    - Elective surgical treatment
8. Biliary Lithiasis: cholelithiasis and choledocholithiasis with acute complications
    - Diagnosis and perioperative risk stratification and risk of choledocholithiasis
    - Surgical treatment
    - Endoscopic treatment
    - Treatment with interventional radiology techniques
9. Transplant Surgery of Solid Organs:
    - Indications and technical notes
    - Immunosuppressive treatment
    - Transplant oncology
10. Pediatric Surgery Overview:
    - General considerations of pediatric surgical patients and dedicated pathways, differences from adults
    - Notes on the treatment of the most frequent pathologies: hernia, phimosis, retained testicle

Oncological Surgery Module:
11. Malignant tumors of the colon and rectum and their multidisciplinary treatment
- Diagnosis and endoscopic treatment of lesions
- Surgical treatment
- Adjuvant and neoadjuvant therapy
- Treatment of metastatic disease and management of liver metastases
12. Malignant tumors of the stomach and esophagogastric junction and their multidisciplinary treatment
13. Primary liver tumors (HCC and cholangiocarcinoma) and their multidisciplinary treatment
14. Pancreatic tumors and their multidisciplinary treatment
15. Melanoma and its multidisciplinary treatment

Prerequisites

Knowledge related to the preparatory courses indicated in the Medicine and Surgery degree program regulations.

Teaching form

The course will be conducted as follows:

- Erogative and Interactive Teaching: Lectures with discussion of clinical cases and scenarios (27h)
- Multidisciplinary Erogative and Interactive Teaching: Involvement of multiple teachers from different disciplines (oncological surgery module) (12h)
- Supervised Didactics: Students will be provided with educational material (guidelines) to prepare at home in advance of the lectures (10 hours)
  Language: ITALIAN

Textbook and teaching resource

- Guidelines and scientific articles provided by the teachers
- Sabiston. Textbook of Surgery. Saunders
- F. Minni. Chirurgia Generale. Zanichelli
- F. D'Amico. Manuale di Chirurgia Generale. Piccin

Semester

First Semester

Assessment method

see description in the general Course

Office hours

By appointment via email contact.
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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING