

Corso di Laurea Magistrale a ciclo Unico in Medicina e Chirurgia

Insegnamento **General Surgery**

SSD Insegnamento **MED/18**

Numero di CFU **10**

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PREREQUISITES

Background knowledge of cervical, thoracic and abdominal anatomy, physiology and physiopathology as well as of common signs/symptoms and principal diagnostic techniques is required.

LEARNING OBJECTIVES

Acquisition of adequate knowledge of surgical pathologies, learning the methodological tools for a correct clinical diagnosis, through the interpretation of laboratory tests, instrumental tests, invasive and non-invasive endoscopic and radiological procedures, and the most appropriate personalized surgical treatment. Ability to analyze and solve clinical problems of a surgical nature by evaluating the relationships between benefits, risks and costs based on the principles of evidence-based medicine.

LEARNING OUTCOMES

Knowledge and understanding – The course is based on the acquisition of the following knowledge and understanding:

- knowledge of diagnostic criteria and the principles of treatment concerning general, thoracic, bariatric, endocrine and breast surgery;
- appropriate use of diagnostic techniques, findings interpretation and integration into patient management;
- knowledge of surgical indications, timing, strategies, approaches, operative planning, techniques, and complications.

Background knowledge of cervical, thoracic and abdominal anatomy, physiology and physiopathology as well as of common signs/symptoms and principal diagnostic techniques is required.

COURSE SYLLABUS

THORACIC SURGERY

Introduction to the Thoracic Surgery

Lung cancer. Epidemiology, clinical presentation, diagnosis, staging and treatment of Non-Small Cell Lung Cancer. General features and technical aspects of pulmonary resections.

Secondary tumors of the lung. Surgical indication in pulmonary metastases.

Pleural disease. Epidemiology, clinical presentation, diagnosis, staging and treatment of malignant pleural mesothelioma. Surgical principles in benign and malignant pleural effusion.

Pneumothorax. Diagnosis and management of the patient with primary or secondary spontaneous pneumothorax. Tension pneumothorax. Placement and management of pleural drainage.

Benign and malignant tracheal disease. Surgical principles of tracheal resection and reconstruction. Diagnosis and management of tracheoesophageal fistula.

Thoracic Trauma. Blunt and penetrating injuries of the chest wall, pleura and lungs. Diaphragmatic injuries.

Primary mediastinal tumors and syndromes associated with mediastinal lesions. Epidemiology, clinical presentation, diagnosis, staging and treatment of thymic tumors.

Acute mediastinal infections. Mediastinal involvement in caustic ingestion.

GENERAL SURGERY

Clinical presentation, patient selection, preoperative assessment and surgical approach of: right colon cancer, left colon cancer, rectal cancer, gastric cancer, pancreatic cancer.

Inflammatory bowel diseases (IBD): surgical indications.

Diverticular disease of the colon: surgical treatment options.

Focus on: minimally-invasive surgery (laparoscopic, robotic), stoma construction, management and complications, colorectal surgical complications, ERAS protocol.

Gallstone disease: surgical indications.

Appendicitis: differential diagnosis and treatment options.

Colon polyps: indication for surgical treatment.

Anorectal abscess, fistula-in-ano, pilonidal disease: surgical treatment.

Abdominal wall surgery: inguinal hernia, incisional hernia.

ENDOCRINE AND BARIATRIC SURGERY

Principles of surgery of the thyroid gland (surgical anatomy, hyperthyroidism, nodular goiter, thyroid cancer).

Surgery of the parathyroid glands (surgical anatomy, primary, secondary and tertiary hyperparathyroidism).

Surgery of the adrenal glands (surgical anatomy, Cushing's syndrome, primary hyperaldosteronism, pheochromocytoma, adrenal incidentaloma, adrenocortical carcinoma).

Neuroendocrine tumors of the gastro-entero-pancreatic tract.

Surgery for obesity and related disorders (including diabetes).

BREAST SURGERY

Benign and malignant breast diseases: principles of surgical treatment.

Principles of modern oncoplasty.

COURSE STRUCTURE

The course is divided into 100 hours of classroom teaching divided into two-hour lectures. The lectures will take place with the aid of teaching tools such as presentations organized in



powerpoint/keynote files with explanatory diagrams, illustrations and images to describe the clinical pictures and the anatomical and pathophysiological assumptions. Films and animations will be used to integrate the processes described in class. Attendance is mandatory.

COURSE GRADE DETERMINATION

The exam will be based on a cumulative written test with 31 multiple-choice questions (MCQ) concerning all teaching modules with only one correct choice for each quiz. Students will have 60 minutes to take the exam. To pass, it is necessary to answer correctly to a minimum of 18 questions. To get the maximum score (30/30), students should give 30 correct answers. To get "laude" students should give 31 correct answers.

The written test will eventually be integrated with an oral interview to improve the score.

OPTIONAL ACTIVITIES

In addition to the lectures, the student will be given the opportunity to participate to seminars, research internships, departmental internships.

READING MATERIALS

- DeVita et al. Cancer: Principles & Practice of Oncology;
- Shields et al. General Thoracic Surgery;
- Sabiston Textbook of Surgery, 19th Edition. The Biological Basis of Modern Surgical Practice.