UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Surgical Pathology

2627-3-H4101D258-H4101D180M

Aims

The course aims to provide the foundational knowledge for learning the pathophysiology of diseases of the digestive system and the endocrine system, as well as the systematic study of surgically relevant pathologies. Understanding pathophysiology serves as the basis for comprehending the relationships between diseases and their clinical manifestations, thereby enabling the interpretation of symptoms and clinical signs, laboratory tests, and instrumental and radiological diagnostics. The course provides the tools to learn the concepts of diseases limited to an organ, a system, or with systemic involvement, based on one or more underlying mechanisms of the disease itself.

Contents

Fundamentals of Surgical Pathophysiology and Stress Response

Clinical pathways of the surgical patient: elective patient, oncological patient
Fundamentals of oncological surgery: assessment, staging, and management of the oncological patient
SEMIOTICS AND SYSTEMATIC SURGERY
ABDOMINAL WALL HERNIAS
PATHOLOGY OF THE ESOPHAGUS AND DIAPHRAGM
PATHOLOGY OF THE STOMACH
PATHOLOGY OF THE COLON-RECTUM
PATHOLOGY OF THE LIVER
PATHOLOGY OF THE ANUS
PATHOLOGY OF THE BILE DUCTS
PATHOLOGY OF THE PANCREAS
ENDOCRINE PATHOLOGY OF SURGICAL RELEVANCE
NEUROENDOCRINE NEOPLASMS
PATHOLOGY OF THE BREAST

Detailed program

BASIC CONCEPTS

Fundamentals of surgical pathophysiology and stress response – basics of perioperative medicine
Clinical pathways of the surgical patient: elective patient, oncological patient
Fundamentals of oncological surgery: assessment, staging, and management of the oncological patient
SEMIOTICS AND SYSTEMATIC SURGERY
ABDOMINAL WALL HERNIAS:
a. General concepts, hernia
b. Inguinal hernia
c. Femoral hernia
d. Umbilical hernia
e. Epigastric hernia
f. Incisional hernia
g. Rare hernias: Spigelian, lumbar
PATHOLOGY OF THE ESOPHAGUS AND DIAPHRAGM:
a. Benign pathology: achalasia, esophageal diverticula
b. Esophageal tumor
c. Diaphragmatic hernias and hiatal hernia
PATHOLOGY OF THE STOMACH:
a. Peptic ulcer
b. Stomach tumors
PATHOLOGY OF THE COLON-RECTUM:
a. Congenital and adult megacolon
b. Appendicitis
c. Diverticula and diverticular disease of the colon
d. Polyps and polyposis, familial syndromes, and precancerous lesions
e. Colon-rectum tumors
f. intestinal occlusion
PATHOLOGY OF THE ANUS:
a. Prolapses and hemorrhoids
b. Fissure
c. Fistulas and ano-perianal abscesses
PATHOLOGY OF THE LIVER:
a. Benign lesions
b. Malignant lesions (primary and secondary)
PATHOLOGY OF THE BILE DUCTS:
a. Cholelithiasis and choledocholithiasis
b. Acute cholecystitis
c. Acute cholangitis
PATHOLOGY OF THE PANCREAS:
a. Pancreatic tumors
b. Pancreatitis and pancreatic pseudocysts
c. Cystic lesions and Intraductal Papillary Mucinous Neoplasms (IPMN)
ENDOCRINE PATHOLOGY:
a. Thyroid nodule and tumor
b. Adrenal nodule and tumor
NEUROENDOCRINE NEOPLASMS:
a. General pathogenetic assessment
b. Carcinoids, gastrinomas, pancreatic alpha and beta cell tumors
c. Overview of Multiple Endocrine Neoplasia (MEN) syndromes

PATHOLOGY OF THE BREAST:
a. Benign and malignant lesions

Prerequisites

Knowledge related to the preparatory courses indicated in the degree course regulations.
In particular, in-depth knowledge of anatomy, physiology and general pathology, General Genetics, General Biology and Molecular Biology.
Prerequisites: Passing the General Pathology and Immunology Exam.

Teaching form

In-person teaching in the classroom - Italian language

Textbook and teaching resource

Sabiston - Trattato di Chirurgia Generale, Edra Editore, 2019

Semester

Secon semester

Assessment method

There are no ongoing tests.
For the assessment method see the integrated course description

Office hours

By appointment (via email) with each individual teacher

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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY