



PATOLOGIA SISTEMATICA E CLINICA - MALATTIE DELL'APPARATO DIGERENTE - channel 2

5 CFU - 1° Semester

Teaching Staff

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LEARNING OBJECTIVES

▪ Gastroenterology

The learning objectives of the teaching of Gastroenterology are the knowledge of epidemiology, etiopathogenesis, symptoms, diagnosis, elements of therapy and complications of the main diseases of the digestive system.

▪ Surgery of the Digestive Tract and Hepato-Biliary and Pancreatic system

The course will provide the student the theoretical knowledge of the surgical diseases of the gastrointestinal tract and the hepato-biliary and pancreatic system.

In particular modern approach to surgical science will be given to the students through "up to front" lectures and surgical videos focusing on new developments of surgery.

Last but not least particular emphasis will be posed on the modern tools of learning such as PubMed research and multidisciplinary guidelines.

COURSE STRUCTURE

▪ Gastroenterology

- The Gastroenterology Course will provide the learner with an updated summary on the main diseases of the gastrointestinal tract, liver, biliary tract and pancreas in relation to: epidemiology, etiopathogenesis, symptoms, diagnosis and elements of drug therapy. The

course also aims to start a process of critical maturation of knowledge of the diagnostic options applicable to pathologies of gastroenterological relevance. Knowledge will also be supported by the vision of explanatory iconographic material, slides of: X-ray images, CT, MRI, Endoscopy of the digestive system. Diagnostic algorithms, and national and international guidelines will be discussed.

- *The lectures will be held in frontal mode with the help of slides in Power-Point format, illustration and commentary on the images of instrumental investigations, report on clinical cases.*
- *If the teaching is given in a mixed or remote mode, the necessary changes may be introduced with respect to what was previously stated, in order to respect the program envisaged and reported in the syllabus.*

▪ **Surgery of the Digestive Tract and Hepato-Biliary and Pancreatic system**

Up to front lectures with slides and videos presentation.

Availability to host students for clinical rotation, at the medical center where the Professor has his clinical appointment.

DETAILED COURSE CONTENT

▪ **Gastroenterology**

- Elements of digestive pathophysiology.
- Chest pain, abdominal pain, nausea and vomiting, dyspepsia, constipation, diarrhea, ascites, jaundice and cholestasis.
- Blood chemistry tests, imaging techniques and instrumental investigations in gastroenterology.
- Gastroesophageal reflux disease and hiatal hernia; prevention and non-drug therapy of gastroesophageal reflux and esophagitis. Outline of drug therapy.
- Helicobacter pylori pathologies. Acute and chronic gastritis. Drug gastropathies.
- Peptic ulcer.
- Celiac disease and malabsorption.
- Chronic infectious and dysendocrine diarrhea.
- Constipation.
- Irritable bowel syndrome.
- Chronic inflammatory bowel diseases: Crohn's disease, Ulcerative Rectum-Colitis and their complications
- Diverticular disease of the colon.
- Hematochemical indices of liver function.
- Hereditary hyperbilirubinemias.
- Acute viral hepatitis. Acute liver failure.
- Chronic viral hepatitis.
- Steatosis (NAFLD), Non alcoholic steatohepatitis (NASH).
- Alcohol liver disease. Liver damage from drugs.
- Autoimmune diseases of the liver (autoimmune hepatitis, primary biliary cholangitis, sclerosing cholangitis).
- Wilson's disease.
- Hereditary hemochromatosis and secondary hepatic siderosis.

- Cirrhosis of the liver and its complications.
 - Acute pancreatitis.
 - Chronic pancreatitis.
 - Causes of gastrointestinal bleeding.
 - Hematemesis, melaena, rectorrhagia, hematochezia.
- **Surgery of the Digestive Tract and Hepato-Biliary and Pancreatic system**
Main Topics to be treated:

Liver:

Anatomy and functional evaluation

Liver cyst and benign neoplasm

Primary and secondary tumours of the liver

End stage liver disease

Biliary tree and peri-ampullary region:

Anatomy and functional evaluation

Calculous biliary disease and iatrogenic lesion of the bile duct

Biliary neoplasm

Pancreas:

Anatomy and functional evaluation

Neoplasm of the exocrine pancreas

Neoplasm of the endocrine pancreas

Stomach:

Gastric neoplasm

Colon and rectum:

Colorectal cancer

TEXTBOOK INFORMATION

▪ **Gastroenterology**

Manuale di Gastroenterologia, UNIGASTRO, Editrice Gastroenterologica Italiana, edizione 2020-23

▪ **Surgery of the Digestive Tract and Hepato-Biliary and Pancreatic system**

MANUALE DI CHIRURGIA GENERALE (D.F.D'AMICO) -

SURGERY -Greenfield's

Scientific Principles & Practice
