

## SYLLABUS DEL CORSO

### **Gastroenterology and Hepatology I**

**2526-5-H4102D060-H4102D156M**

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#### **Aims**

The aim of the Clerkship 9 (subdivided in two sections: Gastroenterology & Hepatology I e II) are:

A) To integrate the knowledge of the digestive tract (liver, pancreas & intestine) completing and elaborating on the argument presented during the frontal lessons through:

1. To provide the basic knowledge the digestive system in health and disease. Provide the necessary knowledge of the aetiology, pathophysiology, diagnosis, differential diagnosis of the digestive systems.
2. To understand the indications for the diagnostic testing, and the role of endoscopy and of imaging. To provide the theoretical and practical knowledge for the correct prescription of diagnostic imaging based on the clinical question, and for correct interpretation of first level diagnostic imaging.
3. To understand the principle of medical treatment of digestive system diseases and the concepts of prevention and the relevant life-style measures.

B) to acquire skills on semeiology, diagnosis, treatment and management of the digestive disease tract

practical skills to be acquired:

- History taking and diary & chart management
- physical examination of the patients (digestive tract diseases)
- Interpretation of biochemical and serological tests to be utilized in evaluating the GI tract
- interpretation of imaging techniques related to the GI tract
- indications and Interpretation of the endoscopic procedures of the GI Tract
- medical therapies of the GI Tract
- physician-patient communication
- relationship with colleagues and health personell

#### **Contents**

Main description of Liver, Pancreas & Digestive disease tract diseases: epidemiology, pathophysiology, clinical presentation, diagnosis & management, integrated by the acquisition of practical skills the management of patients with digestive tract diseases

## **Detailed program**

### Hepatology

- Chronic hepatitis (Pathology & Diagnostic Clinical Hepatology): Viral Hepatitis, Storage diseases, Acute & Chronic alcoholic hepatitis; Cholestatic liver diseases;
- Autoimmune liver disease, Drug Induced Liver disease (DILI); Non-alcoholic Fatty liver disease (NAFLD/MAFLD/DAFLD)
- Cirrhosis: Staging systems; Portal hypertension (Ascites, Collateral circles, Hepatic encephalopathy)
- Acute on Chronic Liver Failure (ACLF): Physiopathology, Clinic & Management
- Acute Liver Failure: Physiopathology, Clinic & Management
- Hepatocellular Carcinoma (HCC): Pathology & Diagnostic Clinical Hepatology; Interventional Radiology; Surgery
- Cholangiocarcinoma: Pathology & Diagnostic; Clinical Gastroenterology; Endoscopy; Surgery
- Liver transplant: Indications/Complications

## **Prerequisites**

Propaedeutic skills & Advanced knowledge in anatomy, semeiology, biology and molecular biology.

## **Teaching form**

the clerkship sessions are subdivided in the following teaching modality, alternating practical sessions in the medical units and interactive activities as follows:

Lectures with interactive presentation and discussion.

PBL sessions

Multidisciplinary cases discussions

attendance of the following activities:

Inpatients & Outpatients:

- patient History (supervised activity)
- acquisition/interpretation of biochemical, microbiological, instrumental reports ( supervised activity)
- physical examination of the patient (supervised activity)  
US Scan (observation & acquisition of basic theoretical Skills)  
Endoscopy (observation & acquisition of basic theoretical Skills)  
the ratio Student/Tutor is 1:1

In case of pandemic resurgence the lessons will be through webinar.

## Textbook and teaching resource

- Harrison's Principles of Internal Medicine: The 20th edition of the book, edited by Dennis Kasper, Anthony Fauci, Stephen Hauser, Dan Longo, J. Larry Jameson and Joseph Loscalzo, (17 August 2018). The 21st edition of the book to be released on 28 March 2022
- Zakim and Boyer's Hepatology. A Textbook of Liver Disease. Seventh Edition (2018) (Edited by: Arun J. Sanyal, Thomas D. Boyer, Norah A. Terrault, and Keith D. Lindor)
- Sleisenger and Fordtran's Gastrointestinal and Liver Disease- 2 Volume Set Pathophysiology, Diagnosis, Management. 11th Edition - June 9, 2020. Authors: Mark Feldman, Lawrence Friedman, Lawrence Brandt
- Clinical Gastrointestinal Endoscopy: A Comprehensive Atlas. (2018) Ed. Hoon Jai Chun, Suk-Kyun Yang, Myung-Gyu Choi
- Malattie Dell'apparato Digerente 2019-2022: Unigastro (Editrice Gastroenterologica Italiana)
- Reviews

## Semester

Second semester

## Assessment method

The exam will be carried out in an integrated manner according to the modality envisaged by the digestive disease vertical track which is based on:

End of Clerkship evaluation, which includes: >70% attendance and confirmation by the tutor of the required practical skills

these requirements shall allow the access to:

- Multiple Choice Test (45 questions)

All assessments will be done in English language

The evaluation of clerkship 9 shall be: Idoneous or Non Idoneous (and is considered propedeutic to the general exam of the Digestive disease Tract exam (Oral exam on the topics covered during the lectures, discussion on clinical problem solving and clinical case analysis)

- In the event of pandemic emergency period, only telematics exams may be available. They will be carried out using the WebEx platform and on the e-learning page there will be displayed a public link where possible virtual spectators may get access and assist to the examination

### Clerkship 9 VT Gastro SKILLS ASSESSMENT:

PATIENT-PHYSICIAN RELATIONSHIP: practical implementation of the good clinical practices of patient-physician relationship: listening, dialogue, information, clearness, consent acquisition.

Relationship with colleagues and health personnel

MEDICAL HISTORY: family, social, physiological, pathological, current problems

Diary & chart management

PARAMETERS assessment: central & peripheral heart rate, Respiratory rate, features of breathing, Blood arterial pressure in clino & ortho, central & peripheral pulses, interpretation of a thermic curve

SKILLS: INJECTIONS: venous catheter placement, ev. infusions, arterial infusions, i.m. injections, s.c. injections

O2: principles of O2 therapy - Saturimetry

ECG: to execute an ECG

Interpretations of the main ECG pictures

ADMINISTRATIVE ISSUES: How to fill a medical chart (written & electronic), build a discharge letter & SDO how to request informed consent

Compile a medical prescription or a biochemical & imaging test request

**CONTAGION & PREVENTION:** Knowledge & application of protection measures from infection.

Knowing the actions of prevention and health education

**PHYSICAL EXAMINATION** Examination of the abdomen

State of consciousness - Hepatic Encephalopathy

Diuresis, Bowel alterations Diarrhea and constipation (stool exam)

Pruritus, skin alterations-pigmentation- Jaundice/Skin disorders /Infectious exanthemas

Gastrointestinal bleeding

Nutritional Status /Hydration/ Unintentional weight loss/Thirst / Hunger

Edemas

Nutrition - fluid balance

identifications of objective signs of dehydration

**SPECIALISTIC TESTING:**

imaging interpretation of the main Hepato & GI pathologies

Interpretation of biochemical tests

Indication to & interpretation of the endoscopic procedures of the GI Tract

Diagnostic hypothesis formulation & therapeutical plan design

Principles of Liver biopsy

**THERAPY** principles of medical therapy in Hepat-Gastroenterology

**OUTPATIENT CARE:** Assisting to Hepatologic, Traumatologic, Gastroenterologic outpatient visit

Simulation of an Hepatologic, Traumatologic, Gastroenterologic outpatient visit

**CLINICAL REASONING:** Capability of framing the reason for admission within the context of complex chronicity conditions of the patient. concepts of Frailty

To show knowledge and application of clinical reasoning: capability of identifying priority & urgent issues. proposing diagnostic hypothesis and to plan diagnostic algorithms

## **Office hours**

The professor receives by appointment upon agreement by e-mail

## **Sustainable Development Goals**

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

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