UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Internship in Hepatology - Uoc Gastroenterology Hepatology and Transplantation Asst Pg23

2627-3-H4102D116

Aims

practical clerkship in the Hepato-Gastroenterology & Transplantology Unit: consolidation, verification of learning and assessment of the student's skills relating to "know-how and knowing how to be a doctor": applying biomedical and clinical knowledge to medical practice, in solving questions of professional ethics and medical ethics, in demonstrating aptitude for solving clinical problems in the hepatogastroenterological setting

dublin descriptors
**1 Knowledge and understanding: **

Acquire knowledge of the clinical management of patients with hepatological and gastroenterological diseases, including diagnostic pathways, therapeutic approaches, liver transplantation, and multidisciplinary care.

2 Applying knowledge and understanding:

Apply biomedical and clinical knowledge during supervised clinical activities, including history taking, physical examination, interpretation of laboratory and imaging findings, formulation of diagnostic hypotheses, and participation in clinical decision-making.

**3 Making judgements: **

Develop the ability to critically evaluate clinical information, identify priorities in patient management, recognize ethical and professional issues, and contribute to appropriate diagnostic and therapeutic decisions under tutor supervision.

**4 Communication skills: **

Demonstrate effective communication with patients, caregivers, and members of the multidisciplinary healthcare team, ensuring appropriate information delivery, informed consent, and professional behaviour.

**5 Learning skills: **

Develop autonomous learning skills through participation in bedside teaching, multidisciplinary meetings, journal clubs, and guideline updates, fostering lifelong learning and evidence-based clinical practice.

Contents

presence in the different sections of the hepato-gastro unit with patient' involvement (student/tutor ratio 1:1):

- admitted patients (ordinary & semi-intensive care)
- specialistico outpatient care & multispecialistic outpatient clinic
- Day Hospital & Day Service setting
- consulting activities
- liver/intestine transplant multidisciplinary meetings (weekly)
- liver cancers multidisciplinary meetings (weekly)
- journal club (monthly)
- aggiornamento linee guida (periodical)

Detailed program

to acquire initial skills(observe the following manouvres):

- patient-physician relationship (presentation, relationship, information, clearness, consent acquisition)
- Relationship with collegues and health personell
- how to collect a family, physiosocial, past and present pathologic history
- Diary & chart management (to observe the following manouvres):
  - central & peripheral hearth rate
  - respiratory rate, features of respiratory functions
  - arterial pressuse measurement in differen clinical conditions
  - Thermic courve
  - Positiong of a venous vascular access
  - how ti practice e.v. , i.m, s.c. injections
  - saturimetry & 02 therapy
- initial knowledge on how to compile a clinical chart, define a medical history, prepare a medical report, consent request
- learning the correct infection protection measures
- phisical examination of the patient:
  - Examination of the abdomen
  - State of conscousness / Syncope - Hepatic Hencephalopathy
  - Diuresis, Bowel alterations Diarrhea and constipation (stool exam)
  - Vomiting, Indigestion,
  - Pruritus, skin alterations-pigmentation- Jaundice/Skin disorders /Infectious exanthemas
  - Fatigue /Anemia/Gastrointestinal bleeding
  - Body conformation/Grade of sexual development/differentiationLibido and sexual activity
  - Nutritional Status /Idratation/ Unintentional weight loss- BMI, waist circumference / Thirst / Hunger
  - Edemas Abdominal swelling and ascites
  - Enlargement of lymph nodes and spleen
  - Bleeding and thrombosis
- basics of the indications and interpretation of Liver biopsy (principles)

- basics of requesting specialistic & biochemical tests (Gastroenterology & Hepatology)
- basics on how to read imaging reports ((Gastroenterology & Hepatology)
- basics of indications and Interpretation of the endoscopic procedures of the GI Tract

"Aspects of the medical profession

"The student is able to put into practice the principles of the patient-doctor relationship: medical interview, contact, information, clarity, acquisition of consent.
"The student is capable to obtain medical history and perform a physical examination in the outpatient context
"The student has knowledge and capacity to apply the clinical reasoning: to distinguish between primary urgent complaints and secondary problems; to suggest a diagnostic hypothesis and to individualise the diagnostic methods of greater speci?city and sensitivity to con?rm or reject the hypothesis
"The student is skilled to interpret the laboratory exams

- The student is skilled to interpret the medical reports of the diagnostic imaging examinations
- The student is oriented in decision-making regarding the pharmacological treatment
- The student is able to judge the appropriateness of the hospital discharge and to suggest the rehabilitation solutions or recovery in other facilitiesThe student is able to compile the report of hospital admission/discharge and to write a discharge letter
- The student is capable to frame the reason of ospitalization taking into account possible chronic illnesses, further critical conditions and patient’s frailty
- The student is able to demonstrate the skills of prevention and sanitary education
- The student demonstrates the knowledge and awareness of the National Healthcare System and Local Healthcare System
- The student respects the shift schedule, wears appropriate clothes and is well-equipped
- The student shows knowledge and awareness of the ward and/or ambulatory
- The student interacts in an appropriate manner with medical personnel, nurses and technicians
- The student demonstrates the awareness and knowledge of the different roles of the medical team members
- The student demonstrates active attitude: makes questions, candidates to perform activities
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Prerequisites

the internship can be attended by students at the 3rd, 4th, 5th & 6th year of SMS course (as indicated according with the SMS study course plan)

Teaching form

Tutor : Student ratio = 1:1
10 hours of Attendance in the inpatient ward, outpatient clinic, day hospital (tutored activity)

- Bed side activities
- participation at multidisciplinary meetings
- participation at journal club & guidelines adjournment in epatogastroenterology

Textbook and teaching resource

Daily activities in hospital and outpatient settings (operating protocols of the facility)
Internal Medicine

- Digestive Diseases book: coordinamento nazionale docenti universitari di Gastroenterologia (UNIGASTRO ed 2022-20225 e successive) available upon request at the secretery
- Seidel's physical examination handbook 9?? Ed.- Solomon, Ball et al. 2018
- Harrison’s Principles of Internal Medicine 20?? ed- Fauci et Al 2018
- Oxford Handbook of Clinical and Laboratory Investigation, Drew Provan Oxford University press, 2018
- Physical Examination for Surgeons: An Aid to the MRCS OSCE. Petrut Gogalniceanu, James Pegrum, William Lynn. Cambridge University Press; 1st edition. ISBN-10: 1107625548; ISBN-13: 978-1107625549.

Semester

whole year

Assessment method

intermediate evaluation from the tutor, in accordance with the Coordinator, uring the following letters for a synthetic evaluation: A: Excellent; B: Very good; C: Good; D: Satisfactory; E: Suf?cient; F: Insuf?cient.

Final evaluation by from the tutor, in accordance with the Coordinator: ELIGIBLE/NOT ELIGIBLE

Office hours

by appointment by e-mail

Sustainable Development Goals

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