



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Internship in Gastroenterology - Uoc Gastroenterology and Endoscopy Asstpg23

2627-3-H4102D117

Aims

practical clerkship in the Gastroenterology & Endoscopy 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 gastroenterological & endoscopic setting

Learning outcomes according to the Dublin Descriptors

1. Knowledge and understanding

At the end of the internship, students will have consolidated their biomedical and clinical knowledge in the field of gastroenterology and digestive endoscopy, with particular reference to the management of patients in inpatient wards, outpatient clinics, Day Hospital/Day Service settings and specialist consultation activities.

Students will understand the principles of patient assessment in gastroenterology and hepatology, including medical history-taking, physical examination, clinical chart management, interpretation of laboratory, imaging and endoscopic reports, and the basic indications for specialist diagnostic and therapeutic procedures.

They will also acquire knowledge of the organization and functioning of a Gastroenterology and Endoscopy Unit, including multidisciplinary tumour boards, IBD multidisciplinary meetings, journal clubs, guideline updates and the role of different healthcare professionals within the clinical team.

Students will understand the ethical, professional and relational aspects of medical practice, including patient information, clarity of communication, consent acquisition, infection prevention measures and awareness of the National and Local Healthcare System.

2. Applying knowledge and understanding

Students will be able to apply biomedical and clinical knowledge to real clinical practice in gastroenterological and endoscopic settings, under direct tutor supervision.

They will be able to collect family, social, physiological and pathological history, perform a basic physical examination, assess relevant clinical parameters, manage clinical diaries and charts, and contribute to the

preparation of medical reports and discharge letters.

Students will progressively apply their knowledge to the interpretation of biochemical tests, imaging reports and endoscopic findings, and to the identification of appropriate diagnostic methods according to clinical hypotheses.

They will also be able to observe and understand basic clinical procedures, including vital signs assessment, venous access, injections, oxygen therapy, saturimetry, and the principles of liver biopsy, endoscopy and specialist testing in gastroenterology and hepatology.

3. Making judgements

Students will develop the ability to critically evaluate clinical information in order to distinguish urgent primary complaints from secondary problems and to frame the reason for admission or consultation within the broader context of chronic disease, frailty and comorbidities.

They will be able to formulate initial diagnostic hypotheses, identify diagnostic investigations with appropriate specificity and sensitivity, and contribute to decision-making regarding pharmacological treatment, hospital discharge, rehabilitation needs or referral to other care settings.

Students will also be encouraged to judge the appropriateness of clinical pathways, diagnostic requests, preventive measures and health education interventions.

The internship will promote autonomous judgement through supervised patient care, tutor feedback, multidisciplinary meetings, clinical case discussion, journal club activities and guideline updates.

4. Communication skills

Students will be able to apply the principles of the patient-doctor relationship, including presentation, active listening, medical interview, clear information, appropriate contact and acquisition of consent.

They will develop the ability to communicate effectively with patients, colleagues, nurses, technicians and other healthcare professionals, respecting the different roles within the medical team.

Students will be able to report clinical findings, diagnostic hypotheses and care plans in a clear, structured and professional manner, both orally and in written clinical documentation.

The internship will strengthen communication skills through bedside activities, outpatient encounters, multidisciplinary meetings, clinical documentation, case discussion and direct interaction with tutors and healthcare staff.

5. Learning skills

Students will acquire the learning skills necessary to progressively improve their clinical competence in gastroenterology and endoscopy during the subsequent years of medical training and future professional practice.

They will be able to learn from daily hospital and outpatient activities, operating protocols, tutor feedback, clinical cases, journal clubs, guideline updates, textbooks and scientific literature.

The internship will promote autonomous and continuous learning through direct clinical exposure, one-to-one tutoring, reflection on professional behaviour, participation in multidisciplinary activities and active involvement in patient care.

Students will progressively develop the ability to identify their learning needs, ask appropriate questions, participate actively in clinical activities and integrate theoretical knowledge with practical medical skills and professional conduct.

Contents

presence in the different sections of the Gastroenterology & Endoscopy unit with patient' involvement (student/tutor ratio 1:1):

- admitted patients (ordinary)
- specialistic outpatient care & multispecialistic outpatient clinic
- Day Hospital & Day Service setting
- consulting activities
- GI tumour Board multidisciplinary meetings (weekly)
- IBD multidisciplinary meetings (weekly)
- journal club (monthly)
- guidelines update (periodical)

Detailed program

to acquire initial skills(observe the following manouvres):

- patient-physician relationship (presentation, relationship, information, clearness, consent acquisition)
- Relationship with colleagues 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 & O2 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 specificity and sensitivity to confirm 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 facilities
- The 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 hospitalization 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 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 hepatogastroenterology

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
