MEDICINE RESIDENCY I (ML0146)

1. language

English.

2. course contents

Coordinator: Prof. GIACCARI ANDREA

Year Course: 2022/2023 (IV anno, 4th year)

Semester: 1st

UFC: 13

Modules and lecturers:
- ENDOCRINE AND METABOLIC DISEASES (ML0147) - 3 cfu - ssd MED/13
Prof. Andrea Giaccari, Alfredo Pontecorvi, Salvatore Maria Corsello, Peter Fenici
- ENDOCRINE AND METABOLIC DISEASES PROFESSIONAL TRAINING (ML0152) - 1 cfu - ssd MED/13
Prof. Teresa Mezza, Antonio Bianchi, Francesca Cinti, Sabrina Chiloiro
- GASTROENTEROLOGY (ML0148) - 3 cfu - ssd MED/12
Prof. Alfredo Papa, Luca Miele, Giovanni Cammarota, Franco Scaldaferri, Gianluca Ianiro, Cristiano Spada
- GASTROENTEROLOGY PROFESSIONAL TRAINING (ML0151) - 2 cfu - ssd MED/12
Prof. Maria Assunta Zocco, Cristiano Spada, Marco Biolato, Franco Scaldaferri, Alessandro Milani, Maria Elena Riccioni, Gianluca Ianiro, Ivo Boskoski, Giovanni Cammarota, Alfredo Papa, Francesca Romana Ponziani
- HEMATOLOGY (ML0149) - 3 cfu - ssd MED/15
Prof. Gina Zini, Stefan Hohaus, Patrizia Chiusolo, Andrea Bacigalupo, Luca Laurenti, Elena Rossi, Luciana Teofili
- HEMATOLOGY PROFESSIONAL TRAINING (ML0150) - 1 cfu - ssd MED/15
Prof. Elena Rossi, Gina Zini, Luciana Teofili, Luca Laurenti, Stefan Hohaus, Patrizia Chiusolo, Andrea Bacigalupo

3. BIBLIOGRAPHY

Harrison's principles of internal medicine, McGraw Hill, 20th Edition
Optional readings:
Haematology: Clinical Cases Uncovered, Wiley 2nd Edition
Endocrinology and Diabetes: Clinical Cases Uncovered, Wiley
Gastroenterology: Clinical Cases Uncovered, Wiley

4. learning objectives

Students are expected to work towards meeting the following objectives:
1. History skills. Gather the important information that is needed for the Endocrinology & Metabolism, Gastroenterology and Hematology history and complete a history in the medical record for at least 8 patients. (Dublin 1)
2. Physical examination skills. Complete a pertinent Endocrinology & Metabolism, Gastroenterology and Hematology physical examination on at least 30 patients. The student should demonstrate the ability to perform this pertinent physical examination while being observed by at least one attending or fellow. (Dublin 2)
3. Knowledge/diagnostic and treatment skills: Know about common endocrine, metabolic, gastroenterological, and hematologic conditions. (Dublin 3 and 5)

4. Attitude: Demonstrate professional responsibility in working as a team member with other members of the Endocrinology & Metabolism, Gastroenterology and Hematology care team, patients, and families. (Dublin 4)

5. PREREQUISITES

Students should be well acquainted with the main topics of Physiology, General Pathology and Biochemistry learned in previous years

6. teaching methods

The course is mainly based on lectures, aimed not so much at carrying out the program, as at understanding the pathophysiological mechanisms, the possible differential diagnoses and therapies of the diseases covered by the program (Dublin 1). The frontal course is followed by an intensive professional training course, where all students are divided into small groups to put into practice the acquired knowledge (Dublin 2), evaluate their clinical assessment skills (Dublin 3) and communication between colleagues and with the Patient (Dublin 4) and therefore self-assess their ability to learn (Dublin 5).

7. other informations

All teachers (including the coordinators Giaccari, Hohaus and Cammarota) are available to meet the students during office hours. Simply request an e-mail appointment (name.surname@unicatt.it)

8. methods for verifying learning and for evaluation

The exam is composed of multiple-choice questions (test items) regarding all modules. Student's evaluation might be assessed with Intermediate Tests. Items to be administered during the Intermediate Tests will address issues related to the content of each discipline (modules) and the number of items for each discipline will be proportional with the number of CFU/hours administered during the course. In order to pass the exam, students must pass all the Intermediate Tests. Tests will be particularly oriented in testing Knowledge and understanding (Dublin 1) and their practical application (Dublin 2) in making clinical judgements (Dublin 3) also understanding unwritten (in the test) information (Dublin 4) for a correct diagnosis and therapeutic approach (Dublin 5). Results will be compared with tests administered in previous academic years. Usually, the student with the best score receives 30/30 cum laude.

9. program

Endocrinology and Metabolic Diseases
Physiology of Anterior Pituitary Hormones and Hypopituitarism
Anterior Pituitary Tumor Syndromes
Disorders of the Neurohypophysis
Disorders of the Thyroid Gland
Disorders of the Testes and Male Reproductive System
Hypercorticism (including Cushing's Disease)
Other disorders of the Adrenal Cortex
Pheochromocytoma and secondary hypertension
Multiple Endocrine Neoplasia
Disorders of Sex Development
Disorders of the Female Reproductive System
Menopause and Postmenopausal Hormone Therapy
Bone and Mineral Metabolism in Health and Disease
Disorders of the Parathyroid Gland and Calcium Homeostasis, Osteoporosis, Paget's Disease and Other Dysplasias of Bone
Biology, Evaluation and Management of Obesity
The Metabolic Syndrome
Autoimmune Polyendocrine Syndromes
Diabetes Mellitus: Diagnosis, Classification, and Pathophysiology
Type 1 Diabetes Mellitus
Type 2 Diabetes Mellitus

Diabetic Complications
Hypoglycemia and Disorders of Lipoprotein Metabolism

Gastroenterology
Approach to the Patient with Gastrointestinal Disease
Gastrointestinal Endoscopy - Video Atlas of Gastrointestinal Endoscopy
Gut Microbiota and related Diseases
Diseases of the Esophagus, Peptic Ulcer Disease and Related Disorders
Disorders of Absorption, Diarrhea
Inflammatory Bowel Disease
Irritable Bowel Syndrome
Diverticular Disease
Emerging Infectious Colitis
Colon and Rectal Cancer
Gastrointestinal bleeding
Approach to the Patient with Liver Disease
Acute Viral Hepatitis
Chronic Hepatitis
Alcoholic Liver Disease
Nonalcoholic Fatty Liver Diseases and Nonalcoholic Steatohepatitis; Drug-Induced Hepatitis
Portal Hypertension and Ascites
Liver Cirrhosis
Liver Cancer
Diseases of the Gallbladder and Bile Ducts
Approach to the Patient with Pancreatic Disease
Acute and Chronic Pancreatitis
Pancreatic Cancer

Hematology
Hemopoiesis
The white cells: granulocytes, monocytes and their benign disorders
Myelodysplasia
Aplastic anaemia and bone marrow failure
Stem cell transplantation
Erythropoiesis and general aspects of anaemia
Genetic disorders of haemoglobulin
The white cells2: lymphocytes and their benign disorders
Blood transfusion
Pregnancy and neonatal haematology
Hypochromic anaemias
Iron overload
Megaloblastic anaemias and other macrocytic anaemias
The chronic lymphoid leukaemias
The spleen
The aetiology and genetics of haematological malignancies
Management of haematological malignancy
Hodgkin lymphoma
Non-Hodgkin lymphoma
Haematological changes in systemic disease
The non-leukaemic myeloproliferative neoplasms
Multiple myeloma and related disorders
Platelets, blood coagulation and haemostasis
Bleeding disorders causes by vascular and platelet abnormalities
Coagulation disorders
Thrombosis and antithrombotic therapy
Acute myeloid leukaemia
Chronic myeloid leukaemia
Acute lymphoblastic leukaemia