GASTROENTEROLOGIA E CHIRURGIA DIGESTIVA (DIU007)

1. language

Italian.

2. contenuti/course contents

Coordinator: Prof.ssa Eleonora Gaetani

Year Course: III° anno

Semester: 1

UFC: 6

Modules and lecturers:
- CHIRURGIA APPARATO DIGERENTE (DIU011) - 2 ufc - ssd MED/18
Prof. Giuseppe Quero
- CHIRURGIA GENERALE (DIU010) - 1 ufc - ssd MED/18
Prof. Giorgio Maria
- GASTROENTEROLOGIA 1 (DIU008) - 1 ufc - ssd MED/12
Prof. Gian Ludovico Rapaccini
- GASTROENTEROLOGIA 2 (DIU009) - 1 ufc - ssd MED/12
Prof. Eleonora Gaetani
- MICROBIOLOGIA DELLA NUTRIZIONE (A000018) - 1 ufc - ssd MED/07
Prof. Brunella Posteraro

3. bibliography

Students can make use of the material provided by individual teachers via ***Slides.***

*For further information on individual topics "****UptoDate****".*

Mandatory text for the form of ***Chirurgia Generale*** *(Prof. G. Maria) and for the form of* ***Chirurgia dell'apparato digerente*** *(Prof. Quero):* ***"Chirurgia Generale"*** *di Bellantone, De Toma, Montorsi, ed. Minerva Medica (****solo i capitoli relativi agli argomenti trattati****);* ***Microbiologia della Nutrizione (****Prof. B. Posteraro****)*

M. MADIGAN, J. MARTINKO, D. STAHL, D. CLARK, Brock Biologia dei microrganismi—Vol. 1 Microbiologia generale, I edizione, Pearson Italia, 2012, **Capitoli 1, 35, 9, 10, 12**

FOOD MICROBIOLOGY, 5th Edition [[VitalSource Bookshelf version]], **Capitoli 1, 2, 3**

4. learning objectives

Knowledge and understanding (Dublin 1)

Students must demonstrate that they have knowledge of technical terms and know how to use appropiate language to the topics

Applying knowledge and understanding (Dublin 2)

Students must demonstrate that they know how to use technical terms in a detailed context and that they know how to use them through simulation of clinical cases.

Making judgements (Dublin 3)

Students must demonstrate the ability to communicate, in a detailed context, also through the proposal of personalized and alternative strategies, including simulation of clinical cases.

Communication skills (Dublin 4)

Students must demonstrate that they know how to communicate their knowledge and therapeutic proposal in detailed context, also by miming to deal with patients and caregivers of different culture, also through simulation of clinical cases.

Learning skills (Dublin 5)

Student must demonstrate that they know how to interact proactively with teachers and repeat what was explained to them during lesson.

5. PREREQUISITES

The student must have the main notions of anatomy, biochemistry and physiology

of the digestive system. Attention: “basic school education and basic scientific knowledge are required: anatomy biochemistry and physiology.”

6. teaching methods

Making judgements (Dublin 3): have the ability to collect, interpret and use data to propose personalized therapeutic dietary solutions, with respect to the situations to be faced.

Communication skills (Dublin 4): Through the simulation and demonstration of the patient care approach, the teachers will verify the students’ ability to “take Charge” of their patients and induce strong clinical change in terms of compliance.

Learning skills (Dublin 5): a part of the final exam will require the student to give a frontal lesson in Powerpoint, based on the model proposed by the teachers. You will have to demonstrate that you know how to explain the topics to your "target audience" (teachers and colleagues) and document your ability to draw on updated sources.

7. other informations

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8. methods for verifying learning and for evaluation

The final test will take place through an oral exam on a specific topic developed in form of oral presentation with slides in this way: title, definition of disease, etiology, pathogenesis, epidemiology, clinical manifestations, diagnosis, differential diagnoses, medical/surgical therapy, dietary therapeutic approach. Each slide must be accompanied by a specific bibliography. In addition, the student will answer orally to one or more questions relating to other topics of the general program.

Knowledge and understanding (Dublin 1): the verification of model proposed during the exam trough the presentation of Power Piont slide, like a real lesson done by the student, based on the indications and specifications provided by the teacher, will allow both the knowledge of the subject matter to be verified the exam, as well as the degree of understanding of it.

Applying knowledge and understanding (Dublin 2): the student will be asked

to develop a therapeutic dietary proposal as a result of the knowledge acquired on the pathology being examined.

Making judgements (Dublin 3): the verification of independent judgment will be implemented on the basis of the ability to develop and propose a diet therapeutic approach to the pathology being examined on the basis of the knowledge acquired through updated bibliographical references, also being able to propose any alternative approaches.

Communication skills (Dublin 4): the student's communication skills will be verified through the preparation and presentation through slides, as if it were a lesson.

Learning skills (Dublin 5): t he quality of the presentation of the requested paper will allow the student's learning ability to be verified and measured. knowledge acquired on the pathology being examined.

The quality of the presentation of the requested paper will allow the student's learning ability to be verified and measured. The final grade of exam will be expressed out of thirty and the grade will be obtained from the average of the grades expressed by the teacher of the integrated course. The final score will be the result of the agreement of the judging commission on the basis of the result obtained from the elaboration and development of the topic assigned at the end of the course and the grade obtained in the unscheduled question.

9. program

Chirurgia generale 1 (Prof. G. Maria):

Chirurgia per patologie benigne

- Ernie

- Proctologia

- Obesità

Gastroenterologia 1 (Prof. GL Rapaccini)

Liver diseases and inflammatory bowel diseases:

- liver stetosis;
- metabolic syndrome;
- cirrosis;
- Chron disease;
- ulcerative colitis;

Chirurgia apparato digerente (Prof. G. Quero)

- Patologie del pancreas esocrino ed endocrino: diagnosi e trattamento
- Patologie chirurgiche dello stomaco
- Patologie benigne e maligne del colon retto
- La nutrizione enterale
- Le emorragie digestive
- Patologie del fegato: diagnosi e trattamento

Gastroenterologia 2 (Prof.ssa E. Gaetani)

The diseases of digestive tract that the dietitian cannot ignore:

- gut brain axis diseases;
- gastro esophageal reflux disease;
- gastritis and peptic ulcer;
- celiac disease;
- diverticular disease;

Microbiologia della Nutrizione (Prof.ssa B. Posteraro)

Structure, diversity and function of microbial cells(basic elements of cellular structure and phylogenetic tree of life);

Microbial growth and growth control (essential characteristics of microbial metabolism, necessary to understand how microorganism transform energy;

Behavior of microorganisms in food: growth, survival and death.

- Spores and their meaning.
- Microbiological profile of food product (diversity of fermented foods and technological objectives of food fermentation).
- Microbiologica criteria and indicator microrganisms.
- Diseases of common origin linked to contaminated food and water (to enphasize common models of trasmission).
- Pathogens of alimentary origins (in particolar: Clostridium, Salmonella, Escherichia coli, Vibrio cholerae and Listeria monocytogenes).

The intestinal microbiota and the production of metabolites (with special emphasis on probiotics and prebiotics).