2020/2021

Diagnostic Imaging

Code: 103611
ECTS Credits: 3

Degree	Type	Year	Semester
2502442 Medicine	OT	5	0
2502442 Medicine	OT	6	0

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: catalan (cat)

Some groups entirely in English: No

Some groups entirely in Catalan: Yes

Some groups entirely in Spanish: No

Prerequisites

None

Objectives and Contextualisation

Once the basic diagnostic knowledge of the image has been obtained, this optional subject intends to deepen the diagnosis of the image and develop the knowledge for the resolution in case-problem. The subject provides the student with knowledge and methodology for: - Make a correct diagnosis for the image - Establish an appropriate differential differential diagnosis - Correctly make decisions in the diagnostic algorithm of the most significant clinical processes in various organs and systems. It is powered by oral presentations the communicative qualities of the students.

Competences

Medicine
- Demonstrate understanding of the causal agents and the risk factors that determine states of health and the progression of illnesses.
- Demonstrate understanding of the manifestations of the illness in the structure and function of the human body.
- Demonstrate understanding of the mechanisms of alterations to the structure and function of the systems of the organism in illness.
- Demonstrate understanding of the structure and function of the human organism in illness, at different stages in life and in both sexes.
- Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
- Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
- Indicate the basic diagnosis techniques and procedures and analyse and interpret the results so as to better pinpoint the nature of the problems.
- Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.

- Perform the basic practical procedures of examination and treatment.

Learning Outcomes

1. Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
2. Describe the basic radiological and anatomopathological characteristics of infections and the factors that favour their development.
3. Describe the general and local factors that affect the development of diseases.
4. Explain the mechanisms of radiological image and anatomopathological alterations of the commonest diseases of the different body systems.
5. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
6. Identify the biochemical, cytogenetic and molecular biology markers applied to clinical diagnosis of importance in diagnostic imaging: radiological-anatomopathological.
7. Identify the radiological and anatomopathological alterations of the commonest diseases in the different body systems, at different stages in life and in both sexes.
8. Interpret the most specific images in the most common pathologies.
9. Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
10. Relate clinical findings to those of imaging tests.
11. Understand the manifestations of the main pathologies on the structure and function of the human body.

Content

A. Virtual classes

A1- Introduction to the subject. Basic concepts of the image test report. S
A2- Systematized reading of the imaging techniques in thoracic patholog
A3- Systematized reading of the imaging techniques in the abdominal pa
A4- Systematic reading of image techniques in osteo-muscular pathology
B. Supervised field practices
Stays in diagnostic units for the thoracic, abdominal and osteo-muscular
C. Seminars
15 one-hour sessions of the different subjects in the areas of thoracic, ab

Methodology

Focus activities

In the current exceptional circumstances, at the discretion of the teachers and also depending on the resources available and the public health situation, some of the theoretical classes, practicals and seminars organized by the Teaching Units may be taught either in person or virtually.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Specialized seminars (SEM)	15	0.6	11, 1, 3, 2, 5, 6, 7
Type: Supervised			

CARE PRACTICUM WITHOUT GUIDELINES	11	0.44	1, 5, 9
VIRTUAL CLASSES (VIRT)	4	0.16	1, 9
Type: Autonomous			
READING ARTICLES /REPORTS OF INTEREST	26.25	1.05	1, 9
SELF-STUDY	15	0.6	11, 1, 3, 2, 5, 6, 7, 9

Assessment

The competencies achieved will be evaluated:
60% for teamwork in the form of oral presentations.
40% active participation in the presentations in the seminars.
Oral presentation: It will be assessed according to established heading: t

the group work carried out and the knowledge obtained.
Participation in seminars: It will be assessed according to the attitude and
Minimum requirements: A minimum attendance is established in the dire
Final grade: The subject will be approved with a mark equal to or greater

Qualification: Fail, pass,good, remarkable, Honour Distinction
Job review system: The revision of the work score will be done individual

the time and place where the review will be carried out will be indicated.
Students who fail to carry out the theoretical and practical evaluation test
A recovery test will be programmed in a format to be determined by stud

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Attendance and active participation in class and in seminars	50%	2.75	0.11	11, 1, 3, 2, 4, 5, 6, 7, 8, 9, 10
ORAL PRESENTATION/EXPOSITION OF WORKS	50%	1	0.04	11, 1, 3, 2, 4, 5, 6, 7, 8, 9, 10

Bibliography

In each specific subject, a basic bibliography consisting of 2-3 updated appointments will be given