

Diagnostic Imaging

Code: 103611
ECTS Credits: 3

2024/2025

Degree	Type	Year
2502442 Medicine	OT	5

Contact

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Teachers

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

There are no prerequisites, although it is highly recommended to have passed the subjects of Clinical Radiology and Physiopathology and Clinical Semiology.

The student will acquire the commitment to preserve the confidentiality and professional secrecy of the data that he may have access to because of the learning in the assistance services. Also in maintaining an attitude of professional ethics in all their actions.

Objectives and Contextualisation

Once the basic knowledge of image diagnosis has been achieved, this optional subject aims to deepen the diagnosis by the image and develop the knowledge for the resolution in front problem cases.

The subject provides the student with knowledge and methodology for:

- make a correct diagnosis by the image.
- establish an advanced differential diagnosis.

- make a correct decision making in the diagnostic algorithms of the most significant clinical processes in various organs and systems.

Students' communication skills are enhanced through oral presentations.

Competences

- 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. Seminars

15 one-hour sessions on the different topics in the different anatomical areas.

B. Asistencial Clinical Practices

15 hours of asistencial clinical practice in diagnostic imaging units.

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
ASISTENCIAL CLINICAL PRACTICES (PCAh)	15	0.6	1, 5, 9
Seminars (SEM)	15	0.6	1, 2, 3, 5, 6, 7, 11
Type: Autonomous			
READING ARTICLES /REPORTS OF INTEREST	26.25	1.05	1, 9
SELF-STUDY	15	0.6	1, 2, 3, 5, 6, 7, 9, 11

Teaching team

- Head of Faculty

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- UDH managers

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Responsible UDHPT

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A maximum of 25 students per course is established.

In asistencial clinical practices, a defined methodology of reading images in the different anatomical areas will be established.

In the seminars, groups of 2-3 students will be formed, who may be asked to prepare an oral presentation of a previously provided clinical-radiological problem case, leaving time for comments and questions.

Teaching will be face-to-face. Exceptionally and according to the criteria of the responsible teaching staff, the available resources and the health situation at each moment in the different Teaching Units, part of the content corresponding to the practices and seminars may be taught virtually.

Note: 15 minutes of a class will be reserved, within the calendar established by the center/degree, for the completion by the students of the evaluation surveys of the teachers' performance and the evaluation of the subject/module.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

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

This subject does not provide the single assessment System.

Weighting of the assessment of the skills achieved:

- Teamwork in the form of oral presentations (50%).
- Attendance and active participation in practices and seminars (50%).

Oral presentation. The content, the research carried out, the quality of the presentation, group work done and knowledge gained.

Participation in seminars/practices. Attendance, attitude and participation in the sessions will be assessed.

A minimum of 90% attendance is established in the directed training activities.

Final qualification The subject will be approved with a grade equal to or higher than 5.0 out of 10. Qualification qualitative: failed, passed, remarkable, excellent, MH.

Work review system. The revision of the work score will be done individually with the student.

When the provisional marks are published, the time and place where the review will take place will be indicated.

Students who do not take the assessment tests will be considered as no

assessable, exhausting the rights to register for the subject.

A recovery test with a format to be determined will be scheduled for students who do not pass the subject

This subject does not provide the single assessment system.

Bibliography

Essential Radiology. Spanish Society of Medical Radiology. Ed. Pan American 2nd edition (2013).

Each specific topic will be given a basic bibliography consisting of 2-3 up-to-date citations.

Software

No specific programs

Language list

Information on the teaching languages can be checked on the CONTENTS section of the guide.

PROVISIONAL