

25424 - Image Diagnosis Techniques

Información del Plan Docente

Academic Year	2016/17
Academic center	127 - Facultad de Ciencias de la Salud 275 - Escuela Universitaria de Enfermería de Huesca 375 - Escuela Universitaria de Enfermería de Teruel
Degree	281 - Degree in Nursing 559 - Degree in Nursing 561 - Degree in Nursing 560 - Degree in Nursing 273 - Degree in Nursing
ECTS	6.0
Course	---
Period	Indeterminate
Subject Type	Optional
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

The learning process which is proposed for this subject is the next one:

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MD 1 Lectures and participatory classes.

MD 4 Learning based on problems.

MD 5 Exemplification and cases study.

5.2.Learning activities

Learning activities which are used in this subject, they include:

- Lectures: It's encouraged the participation of students.
- Practical sessions of solving problems and test diagnostic imaging clinical cases.
- Periodical tutorial tracking: Presential sessions through platforms of the ADD of Zaragoza's University.

5.3.Program

Thematic Block 1: Imaging Diagnostic Introduction

Lesson 1. Concept and historical evolution of Imaging Diagnostic Techniques.

Lesson 2. Nursing activities in the Imaging Diagnostic Techniques.

Lesson 3. Patient radiation preparation.

Lesson 4. Radiodiagnosis Quality Control.

Thematic Block 2: Physical bases of Imaging Diagnostic

Lesson 5. The matter.

Lesson 6. The Electromagnetic Radiation.

Lesson 7. Ionizing Radiation.

Lesson 8. Concept and Rx Properties.

Lesson 9. Radiation Interactions with the Matter.

Lesson 10. Biological Effects of the Radiation.

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Lesson 11. The radiation Im>= Digital Imaging.

Thematic Block 3: Radiological Protection

Lesson 12. Radiological Protection Concept and Radiosensitivity.

Lesson 13. Radiological Protection Measures.

Lesson 14. Specific Protection Measures in Children and Pregnant Women.

Thematic Block 4: Contrast Agents use in the Imaging Diagnostic Techniques

Lesson 15. Contrast Agents.

Lesson 16. Ultrasound Contrast.

Lesson 17. Magnetic Resonance Contrast Agents.

Lesson 18. Nursing Care in the Administration of Contrast Agents.

Thematic Block 5: Nursing Care in the Imaging Diagnostic Techniques

Lesson 19. Conventional Radiology.

Lesson 20. Contrast Radiology.

Lesson 21. Interventional and Vascular Radiology.

Lesson 22. Ultrasound.

Lesson 23. Computed Tomography.

Lesson 24. Magnetic Resonance.

Lesson 25. Nuclear Medicine.

Seminars:

First Seminar. Care Plan in Patients with Ultrasound Study.

Second Seminar. Care Plan in Patients with Tomography Computed.

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Third Seminar. Care Plan in Patients with Magnetic Resonance.

Fourth Seminar. Care Plan in Patients with Nuclear Medicine.

Fifth Seminar. Utility of Ultrasound in canalization venous catheters.

Sixth Seminar. Radiological Protection Measures in patients and
professionals exposed to ionizing radiation

Seventh Seminar. Radiologic studies in U.C.I.

Eighth Seminar. Mamography. Utility of Breast Cancer.

5.4.Planning and scheduling

The calendar of this subjects activities proposed for the Course 2016-2017 is the following one:

- Theory Classes: September 2016 - January 2017.

- Seminars: October 2016 - January 2017.

5.5.Bibliography and recommended resources

BB	Bontrager, Kenneth L., Lampignano, John P.: Proyecciones radiológicas con correlación anatómica. 8ª ed. Barcelona, Elsevier, 2014.
BB	Ecografía básica : utilidad en la inserción de catéteres venosos centrales de acceso periférico. Directores, Enrique Tobajas Asensio, José Antonio Tobajas Asensio. Zaragoza, Enrique Tobajas Asensio, 2010.
BB	Fernández Solá, Cayetano: Enfermería radiológica. Almería, Universidad de Almería, 2007.
BB	Frank, Eugene D., Long, Bruce W., Smith, Barbara J.: Merrill atlas de posiciones radiográficas y procedimientos radiológicos. 11ª ed. Barcelona, 2010.

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- BB** Medios de contraste en radiología. Coordinadores, Luis Martí-Bonmatí, Yolanda Pallardó Calatayud. Madrid, Editorial Médica Panamericana, 2008.
- BB** Moller, Torsten B., Reif, Emil: Imágenes normales de TC y RM. 3ª reimp. Madrid, Editorial Médica Panamericana, 2010.
- BB** Möller, Torsten B.. Reif, Emil: Atlas de bolsillo de anatomía radiográfica. 3ª ed. Madrid, Editorial Médica Panamericana, 2010.
- BB** Radiología esencial. Directores, J. L. del Cura, S. Pedraza, A. Gayete. Madrid, Editorial Médica Panamericana, 2009.
- BB** Sartor, Klaus, Kress, Bodo: Diagnóstico por la imagen del encéfalo. Madrid, Editorial Médica Panamericana, 2011.
- BB** Técnicas de diagnóstico por la imagen. Editor y coordinador, Enrique Tobajas Asensio. Zaragoza, Enrique Tobajas Asensio, 2011.