26788 - Learning and improvement of clinical reasoning

Información del Plan Docente

Academic Year	2016/17
Academic center	104 - Facultad de Medicina
Degree	304 - Degree in Medicine
ECTS	5.0
Course	5
Period	First semester
Subject Type	Optional
Module	---

1.Basic info

1.1.Recommendations to take this course

This subject is taught through the University of Zaragoza teaching platform.

It is available for students 24hs per day, the whole year.

It is recommended to select this subject in those who are in their fourth or fifth year of the medical degree so as to have clinical training.

1.2.Activities and key dates for the course

The subject is organized in 5 theory courses and 5 clinical cases

Every student have to prepare a final clinical case with clinical reasoning methodology

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

Relationship skills basic that the student must acquire

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CB1 - Students have demonstrated knowledge and understanding in a field of study that part of the basis of general secondary education, and is typically at a level which, although it is supported by advanced textbooks, includes some aspects involving knowledge of the forefront of their field of study

CB2 Students can apply their knowledge to their work or vocation in a professional manner and have competences typically demonstrated through devising and defending arguments and solving problems within their field of study

CB3 - Students have the ability to gather and interpret relevant data (usually within their field of study) to inform judgments that include reflection on relevant social, scientific or ethical

CB4 - Students can communicate information, ideas, problems and solutions to an audience both skilled and unskilled

CB5 - Students have developed those learning skills necessary to undertake further studies with a high degree of autonomy

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

6 Theoretical and practical modules: clinical reasoning and CRL (Clinical Reasoning Learning) sessions, learning clinical reasoning errors in the process of reasoning, clinical interview, use of diagnostic tests, rational prescribing

5 clinical cases with CRL session structure.

End of course work: developing an CRL session with a case itself

Teaching-learning methodology

Study of materials for each module. Participation in discussion forum, reading a scientific article and comment it into the forum in each module. Complete a test of 10 questions per module (8/10 min). To perform 5 CRL clinical cases and prepare and present a final case in CRL format. Therefore, to work on clinical cases and promote personal reflection to apply CRL methodology in any clinical case.

Number of Credits

ECTS = 5 (150 hours)

18 hours a theoretical and practical module: 8 hours to study theory, 5 hours reading articles, web pages and preparation of summaries, 4 hours of participation in the forum, one hour for self-assessment test (18 * 6 = 108)

3 hours for each of the clinical cases (3 * 5 = 15).

27 hours of personal work for the final review of cases from previous years and design and development of the final event of ARC itself.

Clinical Reasoning (CR) is a cross competence for any medical-surgical speciality into the medical degree. The most efficient way to acquire this competence is when the specific knowledge of clinical subjects are acquired and these knowledge has to be used in the clinical patient contact through rotations in hospitals and health centres. As soon as the methodology is used, greater the benefit for the students to improve their competence in clinical reasoning.

The combination of CR methodology with the acquisition of knowledge allows students to begin to develop their own action scripts for the diagnosis and treatment process. Hence the temporary location should be between 4 and 6 grade year.

The course takes place in the Digital Teaching Ring. The course has 6 theoretical and 5 practical modules. The 5 clinical cases and a personal final work of developing a clinical case with ARC methodology (Learning Clinical Reasoning) .There is a forum for discussion per module, a required reading per module with comment and self-assessment test for each module. It is essential to pass the test and send the summary of the articles in each module to move to the next one. Students must make 5 prewritten clinical cases and submit their own clinical case as final work.

5.2.Learning activities

Personal study of materials

Personal Reflection on particular scientific papers

Forum discussions

CRL session: clinical reasoning learning sessions

Final CRL case created and performed by the students.

5.3.Program

1. Development of theoretical and practical modules from 19 September to 19 December 2016

2. Development of a clinical cases with practical learning methodology of clinical reasoning from December 19 until January 21, 2017.

Scheduled sessions and presentation of works as follows:

THEORETICAL MODULE 1. Professor Maria Pilar Astier - pastier@unizar.es

Objective: 1. Clinical reasoning: concepts and models of knowledge organization.

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Start date of this module: September 19, 2016

THEORETICAL MODULE 2. Professor Maria Pilar Astier - pastier@unizar.es

Objective: 1. Frequent Errors in the process of reasoning.

Start date of this module: September 26, 2016

THEORETICAL MODULE 3. Professor Maria Pilar Astier - pastier@unizar.es

Objective 1. To Know and enhance clinical tools to improve clinical reasoning process.

Start date of this module: October 3, 2016

THEORETICAL MODULE 4. Professor Maria Pilar Astier - pastier@unizar.es

Objectives: 1. To know the methodology of the clinical interview. 2. How to properly manage the clinical interview to improve clinical reasoning process.

Start date of this module: October 17, 2016

THEORETICAL MODULE 5. Professor Javier Sangrós e-mail: jsangros@unizar.es

Objectives: 1. Understand the basic interpretation of diagnostic tests to improve our clinical reasoning process.

Start date of this module: October 24, 2016

THEORETICAL MODULE 6. Professor José Manuel Millaruelo - Email: millarue@unizar.es

Objectives: 1. Develop skills for the reasoning of the treatment decision.

Start date of this module: November 7, 2016

SCENARIO No. 1. Professor Maria Teresa Delgado Email: maitedelgadom@gmail.com

Objectives: Apply the clinical reasoning process in a sequence considering a particular clinical case.

Start date of this module: November 14, 2016

SCENARIO No. 2. Professor Maria Teresa Delgado Email: maitedelgadom@gmail.com

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Objectives: Apply the clinical reasoning process in a clinical case.

Start date of this module: November 21, 2016

SCENARIO No. 3. Professor Javier Sangros E-mail: jsangros@unizar.es

Start date of this module: November 28, 2016

4. CLINICAL SCENARIO. Professor Maria Pilar Peña Astier. Email: pastier@unizar.es

Objectives: Case to deepen the clinical reasoning of abdominal pain

Subjects: Clinical Reasoning acute abdominal pain

Activities: Answering the questions of the case make learning personal reflection

Start date of this module: December 5, 2016

SCENARIO No. 5. Professor Maria Pilar Peña Astier. Email: pastier@unizar.es

Objectives: Case to deepen joint pain clinical reasoning versus somatic pain

Topics: Clinical Reasoning joints pain versus somatic

Activities: To answer the questions of a case. To make learning personal reflection

Start date of this module: December 12, 2016

FINAL CASE:

Objectives: To create and conduct a clinical case explaining the clinical reasoning process that has been followed in the diagnostic phase, application of testing and a more likely approach to diagnosis and treatment.

Start date of this module: December 19, 2016

DATE OF COURSE WILL BE ENDING 23 JANUARY 2017.

DATE OF COMPLETION OF SEPTEMBER WILL CALL FOR SEPTEMBER 5, 2017.

ALL MODULES DEVELOPED IN THE RING DIGITAL TEACHING (ADD) ZARAGOZA UNIVERSITY THROUGH 2 platform MOODLE: https://moodle2.unizar.es/add/

5.4.Planning and scheduling

5.3.-

5.5.Bibliography and recomended resources