

29313 - General Physiopathology

Información del Plan Docente

Academic Year	2016/17
Academic center	229 - Facultad de Ciencias de la Salud y del Deporte
Degree	442 - Degree in Odontology
ECTS	6.0
Course	2
Period	First semester
Subject Type	Basic Education
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 is based on the following:

35 Theoretical Lectures of one hour.

20 Lessons resolution of cases and thematic seminars of one hour.

5 Workshops for 2 hours.

The content of the lectures will be based on a text or manual previously recommended and adapted to the level of student knowledge

In the seminars students work on related to the subject and the student must solve problems posed by personal and team

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work cases.

In the workshops the teacher will present the basic knowledge for the development of a clinical history with knowledge of basic physical examination and major signs of disease using audiovisual methods.

5.2.Learning activities

The program includes face teaching activities in classroom lectures, workshops and seminars cases prepared by the students.

Tutorials: The teacher of practical classes students will supervise group that has been assigned Seminars

In addition activities are complemented by autonomous student work devoted to the study and preparation of case studies for presentation.

5.3.Program

The program offers to the student to achieve the expected results includes the following activities:

45% face-to-face instruction 2.70 ECTS (67,50 hours) : (50%) 1.40 ECTS (35 hours) 35 lectures with the following program:

- 1 Introduction to pathology: concept of disease. General etiology of diseases
- 2 Pathophysiology of diseases triggered by environmental causes
- 3 Pathophysiology of immune response
- 4 General study of pathological inheritance. Concept of molecular diseases
- 5 Neoplasms. Concept, etiology and biological characteristics
- 6 Pathophysiology of the inflammatory response.
- 7 Thermoregulation. Febrile syndrom. Fever of unknown origin
8. Pathophysiology of cardiac contraction. Pathophysiology of cardiac output. Heart failure
- 9 Valvular disorders and arrhythmia
- 10 Pathophysiology of the coronary circulation. Coronary insufficiency.
- 11 Pathophysiology of blood pressure regulation. Arterial hypotension. High blood pressure.
- 12 Protective mechanisms of respiratory tract. Respiratory failure.

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13 Main symptoms of the respiratory system

14 Pulmonary syndromes. Pleura. Mediastinum.

15 Pathophysiology of the motor unit and the sensitivity.

16 Pathophysiology of the spinal cord, Brainstem and cerebellum.

17 Physiopathology of the cerebral cortex and the extrapyramidal system.

18 Pathophysiology of cerebral circulation. Intracranial hypertension syndrome. Meningeal syndrome

19 Pathophysiology of peripheral nervous system.and vegetative nervous system

20 Pathophysiology of the hypothalamus. Pathophysiology of pituitary gland

21 Pathophysiology of the adrenal gland.

22 Pathophysiology of the thyroid and parathyroid.

23 Pathophysiology of carbohydrates.

24 Pathophysiology of lipids and proteins

25 Pathophysiology of the erythrocyte

26 Pathophysiology of leukocytes. The lymphoid system.

27 Pathophysiology of haemostasis

28 Pathophysiology of swallowing, I pathology of esophagus and stomach

29 Pathophysiology of intestinal function

30 Jaundice. Liver failure. Pathophysiology of bile duct

31 Alterations in nutrition

32 Fluid and electrolyte balance , acid-base homeostasis.

33 Acute and chronic renal insufficiency. Etiology and pathophysiology

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34 Renal syndromes and diseases of urinary tract

35 Pathophysiology of muscle, bone and joints.

(40%) 1.04 ECTS (26 hours)

10 Seminars with the following program:

1 Fever

2. Loss of weight.

3 Dyspnea

4. Chest pain.

5 Cough, expectorating cough, hemoptysis.

6 Headache.

7 Melena, rectal bleeding

8. Jaundice.

9 Polyuria

10 Edema, ankle swelling

5 Workshops with the following program

1. Clinical history

2. General examination of the patient

3. Digital ring. Sources of information on human pathology.

4 Medical images medical. Signs of disease.

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5. Basic analytic interpretation

Tutorials: A teacher will be the guardian of the students of the group which has assigned

5.4.Planning and scheduling

The school calendar, schedule of the subject and the date of the overall evaluation of the course are found on the website of the faculty:

<https://fccsyd.unizar.es/academico/horarios-y- Calendarios>

5.5.Bibliography and recommended resources

BASIC BIBLIOGRAPHY

Fundamentos de fisiopatología / coordinadores, A. Esteller Pérez, M. Cordero Sánchez . - 1a. ed., 2a. reimpr. Madrid [etc.] : McGraw-Hill Interamericana, D.L. 2002
García-Conde, J.. Patología general : semiología clínica y fisiopatología / J. García-Conde, J. Merino Sánchez, J. González Macías . - 2ª ed., [reimp.] Madrid [etc.] : McGraw-Hill Interamericana de España, D.L. 2010
Laso Guzmán, F. Javier. Patología general : Introducción a la medicina clínica / F. Javier Laso Guzmán . - 1ª ed., reimp. Barcelona : Masson, 2005
Pérez Arellano, José Luis. Manual de patología general / José Luis Pérez Arellano . - 7ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Elsevier Masson , D. L. 2013

SUPPLEMENTARY BIBLIOGRAPHY

<http://www.freebooks4doctors.com/>

Farreras Rozman. Internal Medicine. ELSERVIER 2016

HARRISON. PRINCIPLES OF INTERNAL MED.

Dan Longo, Dennis Kasper, Larry Jameson, Anthony Fauci, Stephen Hauser

McGraw-Hill Spain S.L. .; Edition: 18, 2015