

29313 - General Physiopathology

Syllabus Information

Academic Year: 2019/20

Subject: 29313 - General Physiopathology

Faculty / School: 229 - Facultad de Ciencias de la Salud y del Deporte

Degree: 442 - Degree in Odontology

ECTS: 6.0

Year: 2

Semester: First semester

Subject Type: Basic Education

Module: ---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

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 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.

4.2.Learning tasks

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.

4.3.Syllabus

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.
- 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, 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
- 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.
5. Basic analytic interpretation

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

4.4.Course planning and calendar

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>

4.5.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