

28426 - General Pathology and Propaedeutics II

Información del Plan Docente

Academic Year	2017/18
Faculty / School	105 - Facultad de Veterinaria
Degree	451 - Degree in Veterinary Science
ECTS	6.0
Year	3
Semester	Second semester
Subject Type	Compulsory
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

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

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The learning process that has been designed for this course is based on the following:

Lectures, practical lessons, works, case presentations...

28426 - General Pathology and Propaedeutics II

-Lectures: 30 master type lectures of 50 minutes duration each will be given. They will be taught in the classroom that the Center determines, with students divided into two groups.

-Practical lessons: a total of 22 hours of practical lessons will be given in the classroom demonstrations of the building of the Clinical Veterinary Hospital, in the teaching ship of the Experimentation Animal Service and in the General Pathology teaching laboratory. Practices will be distributed in 11 sessions of 1'5-3 hours, in groups of 6-8 students.

-Clinical cases sessions are taught in the General Pathology teaching laboratory, in the library of the General Pathology Unit or in a classroom and include a total of 8 hours spread over several sessions.

5.2.Learning tasks

-Lectures: 30 hours of lectures will be given, including a first class of introduction and presentation of the subject. Throughout the course, the teacher offers students scripts, materials and/or bibliography appropriate in each case. It is interesting that in the development of these classes students have present the knowledge acquired in other subjects of the degree, which allowed a better understanding of the matter and will facilitate the assimilation of new content explained in each subject, allowing at the same time that the student developed its capacity for concepts analysis, synthesis and relationship.

-Practical lessons: prior to each of the practical sessions, the students will have scripts and materials needed for them, as well as the explanation of what it is to be performed in each one. This information must be consulted and analyzed by the student, so that when they arrive at the corresponding practice they make the most of the available time to perform practical activity. The session will begin with an explanation of the work to be carried out and subsequently the students run practice with available animals or in the laboratory, always under the supervision of the teacher.

- Clinical case sessions: they are sessions in which students must be the main protagonists and intervene actively. Prior to each session, will be available to students all material that is going to work, so that they can analyze and respond to the questions raised in each case. Seminar session will be a sharing and discussion session guided by the teacher, in which the proposals raised by the group will be assessed, and questions can be solved.

5.3.Syllabus

1: LECTURES PROGRAM

This program consists of 30 participatory master classes, distributed in 30 sessions of 1 hour.

MODULE I: Pathophysiology and biopathology of the digestive tract.

Lesson 1 - Pathophysiology and examination of the mouth, pharynx and salivary glands.

Lesson 2 - Pathophysiology of the esophagus and the stomach: dysphagias and regurgitation.

Lesson 3 - Vomiting syndrome (I).

Lesson 4 - Vomiting syndrome (II).

Lesson 5 - Pathophysiology of the bowel: Bowel ileus. Constipation. Diarrhea syndrome. Malabsorption syndrome.

Lesson 6 - Pathophysiology, biopathology and examination of the liver and biliary tract: Alterations of the bile, vascular, metabolic and detoxifier functions. Serum enzymes and functional tests.

Lesson 7 - Pathophysiology, biopathology and examination of the exocrine pancreas: Acute Pancreatitis. Exocrine pancreatic insufficiency.

Lesson 8 - Pathophysiology, biopathology and examination of the stomach of ruminants. Indigestions (I).

Lesson 9 - Pathophysiology, biopathology and examination of the stomach of ruminants. Indigestions (II).

28426 - General Pathology and Propaedeutics II

Lesson 10 - Pathophysiology, biopathology and examination of the stomach of ruminants. Indigestions (III)

Lesson 11 - Pathophysiology of digestive tract in horses. Colic syndrome. Endotoxemias.

MODULE II: Pathophysiology, biopathology and examination of urogenital tract

Lesson 12 - Pathophysiology of diuresis: Syndrome polyuria/polydipsia. Oliguria, anuria, and urinary incontinence.

Lesson 13 - Kidney failure: Etiology and pathogenesis.

Lesson 14 - Glomerulopathies.

Lesson 15 - Tubular syndromes and interstitial nephropathy.

Lesson 16 - Examination and biopathology of urinary system.

Lesson 17 - Examination of the male genital apparatus.

Lesson 18 - Examination of the female genital apparatus

Lesson 19 - Examination of the breast.

MODULE III: Pathophysiology and examination of the endocrine system and the nervous system.

28426 - General Pathology and Propaedeutics II

Lesson 20 - Pathophysiology, biopathology and examination of the hypothalamic-pituitary axis: Alterations in the secretion of somatotropin and antidiuretic hormone.

Lesson 21 - Pathophysiology, biopathology and examination of adrenal glands: Hyper and hipoadrenocorticism.

Lesson 22 - Pathophysiology, biopathology and examination of thyroid and parathyroid glands: Hyper and hypofunction.

Lesson 23 - Pathophysiology, biopathology and examination of the endocrine pancreas: Hyper and hipoinsulinism.

Lesson 24 - Pathophysiology and biopathology of the adaptation and the pain.

Lesson 25 - Examination of the nervous system: Identification of neurological signs and location of the lesion.

Lesson 26 - Pathophysiology of the brain: Pathogenesis of processes that affect the brain.

Lesson 27 - Pathophysiology of spinal cord: Pathogenesis of processes that affect the spinal cord.

Lesson 28 - Examination of the musculoskeletal system.

Lesson 29 - Examination of the eye.

Lesson 30 - Exploration of the ear.

28426 - General Pathology and Propaedeutics II

2: PROGRAM OF PRACTICAL LESSONS

This program consists of 30 hours of practical activities, distributed in 11 sessions of 1'5-3 hours working with animals or in the laboratory, and 4 sessions of 2 hours of clinical cases.

1. Examination of the abdomen in the dog (1'5 h).

2. Examination of the abdomen and nervous system in the horse (1'5 h).

3. Examination of the digestive system of ruminants and analysis of rumen fluid (3 h).

4. Examination of the genitourinary system and breast in ruminants and biological sampling (2 h).

5. Sampling and basic analysis of urine (2 h).

6. Examination of the nervous and muscle-skeletal systems in the dog (2 h).

7. Examination of the senses in the dog (2 h).

8. Assessment of farms and communities (2 h).

9. Applied examination in the horse (2 h).

10. Applied examination in the dog (2 h).

11. Applied examination in ruminants (2 h).

28426 - General Pathology and Propaedeutics II

A.- Clinical cases: Digestive biopathology (2 h).

B.- Clinical cases: Renal biopathology (2 h).

C.- Clinical cases: Endocrine biopathology (2 h).

D.- Clinical cases: Biopathology in large animals (2 h).

The detailed program of theoretical and practical activities is supplemented by:

-Personal work for the consolidation of knowledge and preparation of the written and practical exams and the resolution of clinical cases.

-Tutorials

-Examinations

5.4.Course planning and calendar

Calendar of sessions and delivery of tasks

Dates and key milestones of the subject are described in detail, together with those of the rest of the subjects of the third course in the degree of veterinary medicine, on the website of the Faculty of Veterinary Medicine (link: <http://veterinaria.unizar.es/gradoveterinaria/>). This link will be updated at the beginning of each academic year.

5.5. Bibliography and recommended resources

On the website of the library stays up-to-date bibliography associated with this discipline:

<http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a>

[BB: Bibliografía básica / BC: Bibliografía complementaria]

- [BB] Anamnesis y exploración corporal de pequeños animales / [editores], A. Rijnberk, H. W. de Vries ; traducido por Lorenzo Serrahima Formosa . Zaragoza : Acribia, D. L. 1997
- [BB] Canine & feline endocrinology and reproduction / Edward C. Feldman ... [et al.]. 4th ed. St. Louis (Missouri) : Elsevier, cop. 2015
- [BB] Examen y diagnóstico clínico en veterinaria / editores O. M. Radostits, I. G. Mayhew, D. M. Houston ; [revisor Manuel Rodríguez Sánchez] ; [traducción, Diorki] . Madrid : Harcourt, 2002
- [BB] Exploración clínica del ganado vacuno / Luis Miguel Cebrián Yague ... [et al.] Zaragoza : Servet, D.L. 2005
- [BB] Fernández Casasnovas, Antonio. La exploración clínica del caballo / Antonio Fernández Casasnovas, Tomás Conde Ayuda, Javier Fondevila Abenia . Zaragoza : Servet, 2011
- [BB] Fisiopatología veterinaria / editado por : Robert H. Dunlop, Charles-Henri Malbert ; [coordinador de la traducción : José Javier Aramayona Alonso] . - [1ª ed.], traducción de la 1ª ed. en inglés Zaragoza : Acribia, D.L. 2007
- [BB] Latimer, Kenneth S.. Duncan & Prasse's veterinary laboratory medicine : clinical pathology / Kenneth S. Latimer . 5th ed. Chichester (West Sussex) : Wiley-Blackwell, cop. 2011
- [BB] Manual de neurología práctica / Cheryl Chrisman ... [et al.] San Cugat del Vallés, Barcelona : MultiméDica, 2003
- [BB] Manual de prácticas de patología general / Carmen Aceña... [et al.] ; prólogo de Joaquín Pastor Meseguer . - 1ª ed. Zaragoza : Prensas Universitarias de Zaragoza, 2008
- [BB] Melián, Carlos. Manual de endocrinología de pequeños animales / Carlos Melián, María Dolores Pérez Alenza ; colaboradores: Mark E. Peterson, Montserrat Díaz, Hans Kooistra . Sant Cugat del Vallés (Barcelona) : MultiméDica Ediciones Veterinarias, 2008
- [BB] Meyer, Denny J.. Veterinary laboratory medicine : interpretation and diagnosis / Denny J. Meyer, John W. Harvey . 3rd ed. St. Louis : Saunders, cop.2004
- [BB] Nelson, Richard W.. Medicina interna de pequeños animales / Richard W. Nelson , C. Guillermo Couto . 4ª ed. Amsterdam [etc.] : Elsevier, 2010
- [BB] [Neurología] - Morales, Carles. Neurología canina y felina / Carles Morales Moliner, Patricia Montoliu Stevers . Sant Cugat del Vallés, Barcelona : MultiméDica Ediciones Veterinarias, D. L. 2012
- [BB] Oliver, John Eoff. Manual de neurología veterinaria / John E. Oliver, Michael D. Lorenz, Joe N. Kornegay ; [traducido por : Fernando Martínez Sánchez, Carles Morales Moliner] . - 1ª ed. española, traducción de la 3ª ed. en inglés. Sant Cugat del Vallés, Barcelona : MultiméDica, D.L. 2003
- [BB] Pastor Meseguer, Joaquín. Manual de propedéutica y biopatología clínicas veterinarias / Joaquín Pastor Meseguer ; ilustraciones de José Gómez Piquer . - 3ª ed. Zaragoza : Mira, D.L.2006
- [BB] Pérez Arellano, José Luis : Manual de patología general / José Luis Pérez Arellano . - 7ª ed. Amsterdam ; Barcelona [etc.] : Elsevier Masson, D. L. 2013
- [BB] Ramos Antón, Juan José. La exploración clínica del ganado ovino y su entorno / Juan José Ramos Antón, Luis Ferrer Mayayo . Zaragoza : Servet, D.L. 2007
- [BB] Schalm's veterinary hematology / editors, Douglas J. Weiss, K. Jane Wardrop. 6th ed. Ames (Iowa) : Wiley-Blackwell, cop. 2010
- [BB] Small animal internal medicine / [edited by] Richard W. Nelson, C. Guillermo Couto . - 4th ed. St. Louis, Missouri [etc.] : Mosby Elsevier, cop. 2009
- [BB] Willard, Michael D.. Diagnóstico clinicopatológico práctico en los animales pequeños / Michael D. Willard,

28426 - General Pathology and Propaedeutics II

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