

28443 - Zoonosis, Preventive Medicine and Health Policy

Syllabus Information

Academic year: 2023/24

Subject: 28443 - Zoonosis, Preventive Medicine and Health Policy

Faculty / School: 105 - Facultad de Veterinaria

Degree: 451 - Degree in Veterinary Science

ECTS: 8.0

Year: 5

Semester: First semester

Subject type: Compulsory

Module:

1. General information

Infectious diseases are characterized by their capacity to spread in the population and by the speed with which they can do so, sometimes giving rise to large epidemics. The risk they pose to humans and animals requires a response capacity at the sanitary level that allows to anticipate at times of maximum risk by means of PREVENTION, or to minimize their evolution and impact, once they appear, by means of an early response of CONTROL or ERADICATION. The role played by the veterinary professional in the fight against these diseases is critical in animal health to avoid their impact on companion and food animals, on which part of the food supply of human populations depends, but also in public health due to the fact that some of these animal diseases are transmissible to humans.

"The approach of the subject is directly or indirectly aligned with all the Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>), so that the acquisition of the learning results of the subject provides training and competence to contribute to some extent to their achievement."

2. Learning results

- Know the factors that define the outbreak and evolution of contagious and transmissible diseases in domestic and wild animals and their role in the transmission process between them and the human species
- Understand the importance of the interaction between animals, humans and the environment in the emergence of animal diseases with impact on animal and public health.
- To be familiar with the mechanisms for assessing the risk and impact of disease in a population and its economic, health and ecological implications, both from a spatial and temporal perspective.
- To be able to use the tools provided by Preventive Medicine to act against the risk of disease occurrence, or to minimize its impact in case it already exists.
- To know the advantages and disadvantages of using these tools in animal populations and have the ability to discern when to use them in each pathological context presented.
- To understand and know the legal aspects that condition veterinary intervention in the face of the risk or appearance of diseases both from the perspective of animal health and public health.
- To know the structure and functioning of veterinary services in Spain and in the context of the European Union, as well as the functioning of international health organizations.
- To understand the role of the veterinarian and their intervention in the context of global health as a basis for the protection of the world's populations.

3. Syllabus

1- ZOONOSIS.

General information, distribution and evolution

Emergence of zoonoses; social determinants and the environment

Main Zoonoses according to transmission models

Public health and global health

2- PREVENTIVE MEDICINE AND HEALTH POLICY.

Components of health and disease from the perspective of Preventive Medicine

Health information systems and data use.

Risk analysis in Animal Health. The precautionary principle.

Preventive Medicine in the farm and Preventive Medicine in the Country (region)

Welfare and biosafety

Immunity, immunization and collective therapeutic strategies

Health Policy: Notifiable Diseases. Sanitary regulations.

4. Academic activities

The program includes two types of activities:

A- Theory sessions: They will be carried out in the classroom, developing theoretical concepts introduced through the study of real cases, which gives rise to discussions and contrast of opinions. In three specific sessions, three CONTROL cases will be proposed and each student will be asked individually to carry out the RESOLUTION of these cases in situ, preparing a written document that must be handed in to the corresponding teacher for evaluation.

B- Practical sessions: It will consist of NINE practical sessions, FIVE dedicated to work in Preventive Medicine in animals and FOUR sessions of work in Zoonosis. In all of them, the corresponding activity will be carried out in GROUP. In five of these practices, each group will carry out a work that will be part of the evaluation of the subject (See below).

Only the scripts of each theoretical and practical class will be uploaded to the University's ADD (Anillo Digital Docente), as well as the work case studies and articles or bibliographic references for review.

5. Assessment system

The evaluation will be CONTINUOUS without a theoretical exam. The student must have passed the following individual and group activities carried out during the theoretical and practical classes.

1. - THEORY CLINICAL CASES. 3 cases to be proposed in three of the theoretical sessions. Each case will be solved individually during the last half hour of these classes and a written document with the solutions will be handed in at the end of the class. Each case will amount to 1 POINT in the final grade (3 points for theory cases out of 10). In order to pass the subject, at least 2 OF THE 3 CASES must have been presented and a minimum of 1 point must have been obtained.
2. - PRACTICAL ACTIVITIES (carried out by groups). The evaluation will be completed with the activities of part of the practical sessions. In these (see practices that are graded at the end) the presentation of results will be made at the end of the practical session itself, except in two of them in which a technical report and the poster will be created. These activities will be finished in a non-face-to-face way. The evaluation will be made by the teacher of each practice (except for the poster where 50% will be assessed by the students themselves). In order to pass the subject it is necessary to have completed all the practices.

The assessable activities (7 points remaining) are:

Z1- risk analysis (1 point);

Z2 and Z3- ppt presentation (2 points);

Z4 poster (2 points),

MP3- technical report (1 point)

MP4- result presentation (1 point)

The subject is passed by obtaining 5 points and complying with the following requirements:

A minimum of 1 point of class cases and the delivery of solutions of at least two of the three cases

To have completed the 9 practical sessions and submitted the corresponding work for each assessable practice.

Students who, for exceptional reasons, do not take the continuous evaluation or who do not pass the subject by this procedure, are entitled to a global test that will consist of the resolution and exposition of a case study based on the theoretical contents presented in the subject. The presentation of the case to be evaluated will be made before the teachers of the subject.