



UNIVERSIDADE DE LISBOA
Faculdade de Medicina Veterinária

Veterinary Public Health

Curricular Year: 5th

Duration: Annual

Credits: 12 ECTS

Teachers: Miguel Cardo (CCP e R), Fátima Lopes, João Cota, Marta Videira, Telmo Nunes.

Contact Hours: 142H Total.

0H Theoretical Teaching (T); 80H Practical and Laboratory Teaching; 62H Seminar;

Learning objectives:

The course unit (UC) has the general objective of developing critical analysis skills in the following areas:

- Veterinary public health.
- Hygiene and sanitary safety of the food production chain of animal origin and their respective by-products.

The specific objectives of the UC are:

Knowledge of international, EU, and national organization in the field of veterinary public health and food safety.

Current issues on the veterinary public health agenda.

Clinical signs of zoonotic diseases, official notification, and their impact on food safety.

Sanitary requirements applicable to food.

Ante-mortem and *post-mortem* inspection and animal welfare.

Programs for monitoring, surveillance, and control of animal diseases and hazards in products of animal origin.

Methodologies for sample collection, transport, diagnostic testing, and interpretation.

Integration of animal and human health controls.

The role of the veterinarian in official certification for export purposes.

Program contents:

Basic Principles of Veterinary Public Health and Food Control – Relationship between Veterinary Public Health (VPH) and sanitary control of food. Human-animal interaction and public health hazards, prevention and control measures.

Food Control System – Biological, chemical, and physical hazards transmitted through food. Technical requirements applicable to the production of meat from ungulates, domestic poultry, and lagomorphs, and to the production of other products of animal origin: eggs, milk, fishery products, live bivalve mollusks, and less conventional products of animal origin.

Veterinary Public Health – Prevention, control, epidemiological surveillance, eradication, and control plans for zoonoses. Preparedness and response to sanitary emergencies. Environmental policies and the environmental impact of livestock farming. Comparative medicine and the therapeutic use of animals. The “One Health” concept. Disaster and public emergency response.



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Bibliography:

- Gil, J. I. (2000). Manual de Inspeção Sanitária de Carnes. Vols, 1 e 2. Fundação Calouste Gulbenkian (2ª ed)
- Gracey's Meat Hygiene (2015). David S. Collins & Robert J. Huey. Eleventh Edition. Wiley Blackwell
- Lora, R. P. (1986). El sistema linfático en la inspección de la carne. Imprenta San Pablo Cordoba.
- Bremner, A. P. & Johnston, M. (1996). Poultry Meat Hygiene and Inspection. W. B. Saunders Company, Ltd.
- Holvoet, C. & Jamet, J. (2001). Les produits de la pêche. Informations Techniques des Services Vétérinaires Français.
- Atlas, R. M. & Maloy, S. (2014). One Health: People, Animals and the Environment. ASM Press.
- Buncic, S. (2005). Integrated Food Safety and Veterinary Public Health. CABI
- Hugh-Jones M.E., Hubbert W.T., Hagstad H.V. (2000). Zoonoses – recognition, control and prevention. Wiley-Blackwell, Hoboken.
- Schwabe C.W. (1984). Veterinary Medicine and Human Health. Williams & Wilkins.
- Swabe J. (2014). Animals, Disease and Human Society. Routledge.

Assessment:

The evaluation of the Seminar component (S) will be carried out through:

- A mandatory written exam with short-answer questions (short answer, multiple choice, true or false, fill-in-the-blank, and one essay question).
- Active participation through the submission of three questions in three or six seminars (optional) – flipped classroom model.

The practical component (P) will be assessed through continuous evaluation during practical classes and the completion of a thematic project:

- Verified through an individual record of participation in practical classes (at-tendance sheet);
- Completion of a mandatory group thematic project, which will be presented, discussed, and evaluated in the end-of-year seminar.

The final grade will be calculated using the formula: $CF = 0.5 S + 0.5 P$, where:

$$S = (FE + AA)/2$$

•FE = Grade of the mandatory final exam (minimum passing grade of 9.5 required to pass the course unit)

•AA = Active learning participation in seminars

if the student did not participate: AA = FE

if the student actively participated in 3 seminars: AA = 17

if the student actively participated in 6 seminars: AA = 20

$$P = (PE + TP)/2, \text{ where:}$$

•PE = Practical exam. Students who attend all practical classes are exempt from the practical exam (PE = TP). Absence from any practical class requires taking the practical exam, and absence from all practical classes disqualifies the student from taking the final exam.

•TP = Grade of the mandatory thematic group project