

Master of Veterinary Medicine in Veterinary Medicine - UGent

Learning outcomes

Academic year 2021-2022

Competence in veterinary sciences

1. To have insight into the causes and pathogenesis of infectious and non-infectious diseases in animals, including diseases of international importance that can pose a risk to national and international biosecurity and trade
2. To compile a case history, to conduct a clinical examination in domestic animals and to develop a (differential) diagnosis
3. To have knowledge of the etiology, pathogenesis, clinical symptoms, diagnosis and treatment of the most common disorders in the most common animal species
4. Requesting, conducting and interpreting additional examinations (including medical imaging) and laboratory examinations
5. Develop and implement a treatment and preventive strategy based on evidence-based veterinary literature
6. Provide assistance in an emergency situation and be able to administer first aid to the most common animal species
7. Performing and interpreting an autopsy on a domestic animal
8. Being able to perform a sedation safely as well as general and local anesthesia; implement chemical restriction methods, correctly assess and treat pain. To be able to consult the information sources about licensed veterinary medication and know the channels for reporting (suspected) side effects
9. Recognize when euthanasia is appropriate and properly administer it with respect for the animal and for the emotions of owners and others, ensuring the safety of those present, as well as advise on removal of the cadaver
10. Understanding and correctly applying veterinary legislation, biosafety principles and responsible use of antimicrobial (antibiotics and deworming) drugs
11. To have insight into and application of the veterinary and legal aspects of food safety in the monitoring of the food chain
12. To have knowledge and recognition of emerging and re-emerging diseases, transboundary epizootic diseases, zoonotic and food-borne diseases that can influence public health and food safety
13. Apply the principles of genetics in animal breeding, production and keeping
14. Applying the zootechnical principles in animal breeding and keeping
15. Interpreting the behavior of domestic animals
16. Evaluate animal welfare in all aspects of animal husbandry
17. Developing measures to improve animal welfare
18. To have knowledge of the veterinary legislation concerning animal care and animal welfare
19. Recognizing signs of abuse and being able to take appropriate action, as well as informing the relevant authorities.
20. Being able to apply knowledge of practice management (business structures, financial management, ...)
21. To have knowledge of the principles of disease prevention and promotion of health and welfare
22. Advise on, and implement, preventive and eradication programmes appropriate to the species and in line with accepted animal health, welfare and public health standards
23. To be familiar with the current applications of artificial intelligence in veterinary medicine and veterinary management

Scientific competence

1. Critically collect, analyze and synthesize international research results and use this data creatively in their own context
2. Compose a research question based on literature data and clinical data
3. Independently design, implement and adjust scientific research
4. Having insight into research methodology and being able to apply the most suitable techniques and methods in own research
5. Critically analyze own research results and correctly display these results in a report or publication
6. To have an insight into and apply the rules of scientific integrity

Intellectual competence

1. Analyze and solve clinical and scientific issues
2. Critical handling of scientific and clinical data
3. Demonstrate the ability of logical reasoning both in veterinary practice as in a broader scientific setting
4. Being convinced of and applying lifelong training in both a professional as in a broad intellectual context
5. Approaching scientific and clinical cases from multiple perspectives (multiperspectivism)
6. Being aware of personal and professional limitations and being able to find to the right professional support

Competence in collaboration and communication

1. Communicate the results of (own) scientific research and clinical examination in writing to colleagues and other higher educated people in Dutch or English
2. Communicate the results of (own) scientific research and clinical examination orally to colleagues and other higher educated people in Dutch and English
3. Communicate scientific and clinical information in a comprehensible manner to persons without a clear scientific background, including clients in a veterinary practice with respect for confidentiality and privacy
4. Function well in a team context, both with colleagues and in a multidisciplinary environment
5. Master basic skills to perform managerial and management tasks in a professional context
6. To be convinced of the added value of international contacts and exchanges
7. Possess communication skills in order to be able to deal with difficult situations in practice (unsatisfied customers, bad news conversation, ...)

Social competence

1. Exhibit an ethical, professional and socially responsible behavior both inside and outside the veterinary environment
2. To be convinced of and to apply the social role of the veterinarian in all aspects of animal husbandry and food production
3. Having sufficient entrepreneurial spirit to develop a professional career
4. To be aware of the issue of animal welfare in society
5. To implement measures to promote the sustainability of veterinary medicine in particular and society in general
6. To be able to function in a multicultural context and to be convinced of the added value of diversity in both the profession and in society
7. Contribute to the advancement of veterinary knowledge and the concept of One Health, with the aim of promoting animal health and welfare, the quality of animal care and veterinary public health