



Entitlement Veterinary Pathology, 7 cr.

Prerequisites

B1 level of English language

Main aim

To provide knowledge about the pathological processes, changes in functions of animals, diagnostics of diseases in biopsies, body fluids or autopsy.

Summary

To develop competence to understand and explain the pathological processes occurring in cells, tissues, organs, processes, mechanisms, causes and consequences of the organism. Students will prepare animal cadavers, analyze biological preparations and other visual means.

Learning Outcomes

1. Be able to demonstrate knowledge of pathological processes, to distinguish the functional changes they cause in cells, tissues, organs, organ systems and in all organism.
2. Be able to dissect animal carcasses on the instructions of a veterinarian.
3. Be able to take samples for pathological anatomical examination.
4. Be able to recognize diseases, their symptoms, describe the course of diseases, end mechanisms.
5. Be able to identify and describe disorders of individual body systems.
6. Be able to understand the body's defense mechanisms, describe the role of immunity in the development of diseases.

Syllabus

1. Disease classification, course, symptoms, periods, outcome. Pathology of cardiovascular, blood and blood-producing organs. Local circulatory disorders. Respiratory system organ pathology. Pathology of the organs of the digestive system. Pathology of urinary excretion and genitals. Endocrine and nervous system pathology. Developmental disorders of the body. Principles of inheritance of animal genetic diseases and defects. Genetic diseases, defects, causes.
2. Barrier functions of the organism and their significance for the course of the pathological process. Immunity and its significance for the onset and course of diseases. Tumors. Biology and diagnosis of tumor growth and development.

3. Diseases. External and internal pathogens. Methods of entry and spread of pathogenic agents in the body. Inflammation. Analysis of changes during ignition. Thermal regulation disorders. Fever. Compensatory and adaptive processes. Hypovitaminosis.

4. Object, aims, research methods of pathological anatomical examination. Animal carcass testing technique. Pathological anatomical examination of organs and tissues. Sampling.

Evaluation procedure of knowledge and abilities

Cumulative assessment (intermediate settlements, laboratory work, self-study, examination)