Internal medicine clinic and clinical lectures on species 2

Study program	Veterinary Medicine
Year of study	IV
Semester	II
Regime of discipline	DOB
Category of discipline	Dsc
Number of lectures hours per week	2
Number of seminar/laboratory/project hours per week	2
Total number of hours according to the curriculum: lectures/seminars/laboratory/project	28 hours of lectures/28 hours of laboratory
Number of transferable credits	3

SPECIFIC SKILLS

Professional Competence	C_1 - strengthening the theoretical knowledge and practical skills regarding clinical examination of the animals by semiological techniques species-specific ; - explaining the occurrence of clinical signs by physiological and pathological mechanisms underlying digestive medical disease outbreak; - application of laboratory diagnostic techniques to establish and implement a treatment as early and effectively; - application of therapeutic principles and drug administration techniques (route of administration, frequency and duration of treatment, persistence), correlated with the diagnosis and prognosis of the digestive medical diseases; C_5 – indication of the nutritional and metabolic status in consonance with the principles of maintenance, feeding, production, reproduction C_6 – providing skills necessary to perform scientific research in veterinary medicine

LEARNING OUTCOMES

Knowledge	The student/graduate describes the main pathological mechanisms and structures of the animal body. The student/graduate defines the methods of clinical examination, signs of diseases in animals, as well as the means of diagnosing internal diseases (including diagnostic imaging).
Skills	The student or graduate explains the main techniques of clinical examination of animals The student/graduate applies the main methods of diagnosis of internal bile Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the audience concerned. Work effectively as a member of a multidisciplinary team in the provision of services. Ability to critically review and evaluate literature and presentations. Understand and apply the principles of clinical governance and the practice of evidence-based veterinary medicine. Use their professional capabilities to contribute to the advancement of veterinary knowledge, with the aim of improving the quality of animal care and veterinary public health. Demonstrate that they recognize personal and professional limitations and know how to request professional advice, assistance and support when necessary Obtain an accurate and relevant history of the individual animal or group of animals and its/their environment. Handle and restrain animal patients safely and with respect for the animal and train others to assist the veterinarian in performing these techniques. Perform a complete clinical examination and demonstrate the ability to make clinical decisions. Develop appropriate treatment plans and administer treatment in the best interests of the patients and taking into account available resources.

	Understand the contribution that imaging and other diagnostic techniques can make in obtaining a diagnosis. Use basic imaging equipment and perform an effective examination, as appropriate, in accordance with good health and safety practice and current regulations. Care for all species in emergencies and administer first aid. Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on the principles of husbandry and feeding.
Responsibility and autonomy	The student/graduate assesses the patient's health status through various semiological methods, clinical, paraclinical and imaging examinations. The student/graduate prepares clinical observation sheets The student/graduate develops, adapts and evaluates veterinary medicinal treatments, safely, in the necessary doses, avoiding adverse reactions and ensuring food safety and environmental protection Correctly apply the principles of biosecurity, including equipment sterilization and clothing disinfection

COURSE OBJECTIVES

General objective of the course	Consolidating theoretical training and practical skills regarding clinical examination in animals. Also, development of correlative interpretation skills of the clinical signs and paraclinical exams to establish diagnosis of diseases, indifferent of their causal nature, also to prevent them with efficiency. Ensuring skills necessary to perform scientific research in the field of veterinary medicine.
Specific objectives	Proper use of medical scientific language to describe digestive medical diseases using an approach algorithm (definition, etiopathogenesis, clinical, pathological changes, diagnosis, prognosis, development, prevention, treatment). Explaining the pathophysiological mechanisms that lead to digestive disorders. Arguing or ruling out diagnosis of digestive disorders basis on clinical and laboratory results interpretations. Integrating the theoretical knowledge and results of clinical and paraclinical investigations with diagnosis, also to establish a correct therapeutic management in digestive disorders. Learning the specific language and writing the clinical documents (observation sheet, consulting register, recipes, sending specific notes for blood, urine, faecal, rumen liquid tests etc.). Strengthening the knowledge and skills (intellectual and practical) of scientific investigations of the digestive system disorders

COURSE CONTENT

LECTURES	Number of hours
Diseases of liver, pancreas and abdomen (Hepatic failure syndrome, Jaundice syndrome , Hepatic congestion, Hepatitis: parenchymal, amyloid and supurative, Chronic hepatitis, Hepato-encephalic syndrome, Hepatic steatosis, Angiocolitis, Colecistita, Colelitiaza, Pancreatitis, Peritonitis, Ascita)	8
Nasal cavity, larynx and trachea diseases (nasal haemorrhage, rhinitis and cortisol, laryngotracheite, laryngeal edema and spasm), normal and pathological breathing	6
Pulmonary diseases (Bronchitis, Bronchiectasia, Bronchial obstruction and bronchial asthma, Bronchial asthma, Pulmonary congestion, Edema and pulmonary haemorrhage, Bronchial pneumonia, purulent, gangrene, chronic, Fibrinic pneumonia, Mucosis bronhopneumonia, Allergic pneumopathy, Pulmonary atelectasis, Acute and chronic pulmonary emphysema, Chronic Syndrome)	8

Diseases of the chest, pleura and diaphragm (Pleurites-pleurisy, Hydrotrox, Mediastinal Syndrome, Diaphragmatic Dyskinesia)	6

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SEMINAR/LABORATORY	Number of hours
Clinical cases, observation sheet in the hepatic disorders in horses, clinical examination.	2
Clinical cases, observation sheet in the hepatic disorders in horses, paraclinical examination, biological samples prelevation and analization the blood, urine, faces, peritoneal fluid.	2
Clinical cases, observation sheet in the hepatic disorders in ruminants, clinical examination.	2
Clinical cases, observation sheet in the hepatic disorders in ruminants, paraclinical examination, biological samples prelevation and analization the blood, urine, faces, peritoneal fluid.	2
Clinical cases, observation sheet in the hepatic disorders in small animals, clinical examination.	2
Clinical cases, observation sheet in the hepatic disorders in small animals clinical and paraclinical examination, biological samples prelevation and analization the blood, urine, faces, pertoneal fluid.	2
Clinical cases, observation sheet in the hepatic disorders in exotic animals clinical examination.	2
Clinical cases, observation sheet in the hepatic disorders in exotic animals clinical and paraclinical examination, biological samples prelevation and analization the blood, urine, faces, pertoneal fluid	2
Clinical cases, observation sheet in the pancreatic disorders in animals, paraclinical examination, biological samples prelevation and analization the blood, urine, faces.	2
Clinical cases, observation sheet in the respiratory disorders in horses, paraclinical examination, biological samples prelevation and analization the blood.	2
Clinical cases, observation sheet in the respiratory disorders in ruminants, paraclinical examination, biological samples prelevation and analization the blood	2
Clinical cases, observation sheet in the respiratory disorders in small animals, paraclinical examination, biological samples prelevation and analization the blood.	2
Clinical cases, observation sheet in the respiratory disorders in exotic animals, paraclinical examination, biological samples prelevation and analization the blood	2
Clinical cases with sheet completation at animals	2

BIBLIOGRAPHY:

1. ▪Cours notices
2. Ettinger, S.J., Feldman, E.C. -2010- Veterinary internal medicine, Ed. Saunders
3. Nelson, R.W., Couto, C.G. – 2009 – Small animal internal medicine (4th edition), Ed. Mosby
4. Willard, M.D., Tvedten, H. -2004- Small animal clinical diagnosis by laboratory methods (4th edition), Ed. Saunders

Harold E. Amstutz, David P: Anderson, Sir James Armour, L.B. Jeff Cott, Franklin M. Loew, Alice M. Wolf - 1998-The Merck Veterinary Manual, Ed. VIII.. Merial

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ASSESSMENT

Activity type	Assessment criteria	Assessment methods	Percentage of final grade
Lectures	Description of the digestive medical diseases using an adequate language Applying characteristic pathophysiology knowledge common to systemic disorders and ability to integrate this knowledge into clinical context of gastrointestinal diseases in animals Diagnostic establishment and therapeutic management by integration of theoretical knowledge and clinical and	Written exam, followed by oral exam for the students who not promoted the written exam	50%

	laboratory investigation		
Seminar/laboratory/clinical sessions	Clinical examination plan with completion of the clinical examination chart	Multiple choise	50%
Other activities			

Course coordinator: Lecturer Florin Dan Simiz

Practical activities coordinator L/S/P:

Lecturer Florin Dan Simiz
Asist drd. Florea Bogdan