

CLINICAL LECTURES ON SPECIES- DERMATOLOGY

Study program	Veterinary Medicine
Year of study	VI
Semester	I
Regime of discipline	DOB
Category of discipline	Dsc
Number of lectures hours per week	0
Number of seminar/laboratory/project hours per week	1
Total number of hours according to the curriculum: lectures/seminars/laboratory/project	14
Number of transferable credits	1

SPECIFIC SKILLS

Professional Competence	<p>Approaching the themes of veterinary dermatology will help students to understand and to elucidate the pathogenic mechanisms of various skin diseases ontogenesis.</p> <p>Also, attending the clinical stage will significantly contribute to the student habit to state and use the appropriate techniques to establish a proper diagnosis, and to choose the best therapeutic option for skin diseases.</p> <p>Clinical work aims to train students for the correct application of therapeutic principles in prescribing and performing treatments, in continuous evaluation of the health status of animals using appropriate methods of clinical, laboratory and histo-pathological diagnosis, respectively.</p> <p>In addition, it wants the development and implementation of new approaches in the formulation of alternatives with respect to animal health, but also application of the specific principles and methodologies of fundamental and applied scientific research in bio-medical sciences, as well as developing the capacity to capitalize scientific research.</p> <p>Going through the clinical stages and clinical essays drawing will be positively reflected in practice after graduating, mainly through an accurate diagnosis and a proper performing of medical dermatological techniques (skin scraping, cytological exam, trichogramme, culturing, skin biopsy etc).</p>
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LEARNING OUTCOMES

Knowledge	<p>Advanced knowledge of dermatological diseases in different animal species, correlated with their species-specific clinical features.</p> <p>Knowledge of etiopathogenic mechanisms, clinical manifestations, clinical and paraclinical diagnostic methods, as well as therapeutic options in veterinary dermatology.</p> <p>Knowledge of dermatological examination methods (clinical examination, cytology, skin scraping, trichogram, skin biopsy) and interpretation of results in a clinical context.</p> <p>Knowledge of the principles of integrating clinical and paraclinical data in order to establish a correct dermatological diagnosis and to select the most appropriate therapeutic approach.</p>
Skills	<p>1.4 Promote, monitor and contribute to maintaining health and safety of oneself, patients, clients, colleagues and the environment in the veterinary setting; demonstrate knowledge about the principles of quality assurance; apply principles of risk management in practice.</p> <p>1.5 Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the audience concerned and in full respect of confidentiality and privacy.</p> <p>1.6 Implement principles of effective interpersonal interaction, including communication, leadership, management, team working, mutual respect and other soft skills.</p> <p>1.9 Be able to review and evaluate literature and presentations critically.</p> <p>1.10 Understand and apply principles of One Health to ensure veterinary Good Clinical Practice, and research-based and evidence-based veterinary medicine.</p> <p>1.11 Demonstrate ability to critically analyse evidence, cope with incomplete information, deal with contingencies, and adapt knowledge and skills to varied scenarios and contexts.</p> <p>1.16 Obtain an accurate and relevant history of the individual animal or animal group, and its/their husbandry and environment.</p>

	<p>1.17 Handle and restrain animal patients safely and with respect of the animal and instruct others in helping the veterinarian to perform these techniques.</p> <p>1.18 Perform a complete clinical examination and demonstrate ability in clinical decision-making.</p> <p>1.19 Develop appropriate treatment plans and administer treatment in the interest of the animal under their care with regard to the resources available and to appropriate public health and environmental considerations.</p> <p>1.21 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry, feeding, reproduction, production, welfare, individual health, herd health and public health.</p> <p>1.22 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret and understand the limitations of the test results.</p> <p>1.23 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.</p> <p>1.25 Recognise signs of possible notifiable, reportable and zoonotic diseases as well as abuse of animals and take appropriate action, including notifying the relevant authorities.</p> <p>1.26 Access the appropriate sources of data on information and legislation relating to animal care and welfare, animal movement, notifiable and reportable diseases, use of medicines, including responsible use of antimicrobials.</p> <p>1.27 Prescribe and dispense medicines correctly and responsibly in accordance with legislation and latest guidance.</p> <p>1.29 Recommend and evaluate protocols for biosecurity, and apply these principles correctly.</p> <p>1.30 Perform aseptic procedures appropriately.</p> <p>1.32 Prevent, assess and manage pain.</p> <p>1.38 Advise on and implement preventive and eradication programmes appropriate to the disease and species, in line with accepted animal health, animal welfare, public health and environmental health standards.</p>
Responsibility and autonomy	<p>Apply responsibly and autonomously the principles of diagnosis, treatment and monitoring of dermatological diseases in different animal species, demonstrating the ability to make correct clinical decisions in real practice conditions.</p> <p>Assume responsibility for the veterinary medical act in dermatology, demonstrate appropriate professional conduct in clinical and laboratory activities, and critically integrate scientific information into medical practice.</p> <p>Actively participate in the investigation of clinical cases, in the preparation of medical documentation, and in the application of research methods, contributing to continuous professional development.</p>

COURSE OBJECTIVES

General objective of the course	<p>It is represented by the theoretical training and consolidation of practical skills on clinical examination of livestock and pets and the development of the capacity of correlative interpretation of clinical signs together with the laboratory exam results in order to establish the dermatological diagnosis and to take the most effective measures of prophylaxis.</p> <p>Another important objective is to provide the skills necessary to carry out scientific research in veterinary dermatology.</p>
Specific objectives	<p>To use properly the scientific language to describe skin diseases, respecting the approaching algorithm (definition, etiology, clinical manifestations, pathological changes, diagnosis, prognosis, treatment, prevention and control).</p> <p>To know and identify skin diseases of domestic and wild animals, according to their etiology.</p> <p>To explain the pathophysiological mechanisms of dermatological diseases.</p> <p>To acquire knowledge and skills on clinical and cytological diagnosis of skin diseases. Laboratory diagnosis is focused also on skin and hair growth, secretions and excretions, blood examination, etc. Based on</p>

	<p>identified characteristics of the lesions and on the presence or absence of pruritus, students are able to distinguish broad categories of skin diseases falling into the case.</p> <p>To argue the diagnosis in skin diseases, on the basis of selective interpretation of clinical and laboratory results.</p> <p>During clinical trial field trips in private practice are carried out, studying the diversity of casuistry and therapeutic approach.</p> <p>To integrate theoretical knowledge with practical results of epidemiological, clinical, pathological and laboratory investigations, to establish a correct diagnosis and, based on the results, to determine the best therapeutic approach.</p> <p>Learning the forms and wording of clinical documents (observation sheet, register of consultations, addresses for sending samples etc.).</p> <p>To strengthen knowledge and skills (intellectual and practical) for scientific investigation of skin diseases.</p> <p>To learn and follow the rules of composition and editing of clinical essays and how the collection and processing of scientific information is carried out for the same purpose.</p>
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COURSE CONTENT

LECTURES	Number of hours
-	0
SEMINAR/LABORATORY	Number of hours
Skin diseases in small animals	9
Skin diseases in large animals	2
Skin diseases in sheep, goats and swine	2
Skin diseases in poultry	1

BIBLIOGRAPHY:

- **Scott, D.W.; Miller, W.H.; Griffin, C.E.**, 1995 – Small animal dermatology, 5th edition. W.B. Saunders Company, Philadelphia, Pennsylvania.
- **Solcan, Gh., Miron, L., Mitrea, I.L., Carmen Solcan**, 2003 – Dermatopatologia animalelor de companie. Ed. “Ion Ionescu de la Brad”, Iași.
- **Morariu Sorin**, 2013 – Ghid practic dermatologic, Ed. Eurostampa, Timișoara.
- **Morariu Sorin**, 2013 – Dermatologie veterinara (2 ed.), Ed. Eurostampa, Timișoara.
- **Medleau, L., Hnilica, K.A.**, 2006 – Small animal dermatology: a color atlas and therapeutic guide. Saunders, 2nd ed.

ASSESSMENT

Activity type	Assessment criteria	Assessment methods	Percentage of final grade
Lectures	-	-	-
Seminar/laboratory/clinical sessions			
Other activities	The quality of information processed	Presentation	75%
	Abidance by the rules of composition and editing of clinical essays		25%

Course coordinator: -

Practical activities coordinator L/S/P: Assist. Prof. Plesko Anamaria