



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Pharmacokinetics of Intramammary Drugs and Their Use in Mastitis							
Course Code		VFT548		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	54 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		To learn the drugs used in mastitis, evaluation of mastitis drugs, selection of drugs in mastitis and therapy choices in mastitis..							
Course Content		Drugs used in mastitis and their pharmacokinetics, evaluation of mastitis drugs, pharmacokinetics of intramammary drugs, selection of drugs in mastitis and therapy are examined							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Adams H.R. (1995). Veterinary Pharmacology and Therapeutics, Iowa University Press
2	Kaya S. (2007). Kaya S, editor. Veteriner Farmakoloji. 4 ed. Ankara: Medisan Yayınevi.
3	2.Toutain P-L, Ferran A, Bousquet-Mélou A. (2010). Species Differences in Pharmacokinetics and Pharmacodynamics. Comparative and Veterinary Pharmacology. In: Cunningham F, Elliott J, Lees P, editors: Springer Berlin Heidelberg.
4	3.Andrews AH.(2004). Bovine Medicine and Husbandry of Cattle. Oxford: Blackwell Science, 2004:1035-44.
5	Kandur R. (2008) Türk Vademecum, Veteriner İlaç Rehberi, Cansız Hayal Kitabevi, İstanbul.
6	Andrews AH.(2004). Bovine Medicine and Husbandry of Cattle. Oxford: Blackwell Science, 2004:1035-44.

Week	Weekly Detailed Course Contents	
1	Theoretical	Mastitis
2	Theoretical	Mastitis
	Practice	The anatomy and physiology of the mammary gland
3	Theoretical	Mastitis
	Practice	Microorganism of the mastitis
4	Theoretical	Mastitis
	Practice	General therapy guidelines in mastitis
5	Theoretical	Mastitis
	Practice	Specifications requirement of the mastitis drugs
6	Theoretical	Mastitis
	Practice	Pharmacokinetics of the drugs at the mammary gland
7	Practice	Midterm exam
	Intermediate Exam	Midterm exam
8	Theoretical	Mastitis
	Practice	Therapy of the lactational cycle mastitis
9	Theoretical	Mastitis
	Practice	Therapy of the dry cycle mastitis
10	Theoretical	Mastitis
	Practice	Drug usage at acute mastitis
11	Theoretical	Mastitis
	Practice	Drug usage at subacute mastitis
12	Theoretical	Mastitis
	Practice	Supportive therapy at mastitis
13	Theoretical	Mastitis



13	Practice	Elimination of drugs from mammary gland
14	Theoretical	Mastitis
	Practice	Preventive measures in mastitis
15	Theoretical	Discussion
	Practice	General assessment
16	Final Exam	Final

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	12	1	1	24
Lecture - Practice	10	1	1	20
Midterm Examination	1	1	4	5
Final Examination	1	1	4	5
Total Workload (Hours)				54
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	Aetiology of mastitis
2	Drugs used at dry and lactation cycles
3	Preventive mastitis applications in animals
4	To find out and use resources about the profession in the area.
5	To give lectures and/or presentations and discuss with professionals in the area.

**Programme Outcomes (Veterinary Pharmacology and Toxicology Master's Without Thesis)**

1	to be able to comprehend expert knowledge on field of pharmacology and toxicology in veterinary medicine
2	to be able to define expert knowledge on interdisciplinary interaction in pharmacology and toxicology
3	to be able to formulate ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education
4	to be able to integrate and interpret information in the area of pharmacology and toxicology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems.
5	to be able to develop and use strategies in his/her field of expertise in Master's Program of Pharmacology and Toxicology
6	to be able to comprehend methods of obtained and submitted scientific knowledge
7	to be able to analyse current information related to his/her field of expertise (scientific information, procedures etc.) and use them when necessary.
8	to be able to apply technological tools in social relationships of vocational and professional environment
9	to be able to review, evaluate and interpret any data (field observations, available scientific information etc.) towards a specific purpose.
10	to be able to comprehend expert knowledge on the function and basic pharmacological features of pharmacology and sub-branches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship.
11	to be able to identify expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning
12	to be able to define and use laboratory equipment in a pharmacology and toxicology laboratory.

**Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High**

	L1	L2	L3	L4	L5
P1	5	5	4		
P2	4	4	4		
P3	3	3	4		5
P4	3	4	4		4
P5	4	4	4		5
P6	4	4	4	5	5
P7	5	5	4	4	
P8	2	2	3		4
P9	3	4	3	5	5
P10	5	5	5		



P11	2	3	3		
P12	4	5	5		

