



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Fluid Balance and Electrolyte Disorders Diseases and It's Therapy								
Course Code	VİH550		Course Level		Second Cycle (Master's Degree)				
ECTS Credit	4	Workload	103 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course	Dehydration, acid-base balance, and / or electrolyte imbalance, and the preparation of effective and rational solutions to be used for treatment, route of administration, dose, rate, and complications, processing and application issues in patients admitted to the clinic.								
Course Content	See weekly course topics								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Assignment	3	15
Midterm Examination	1	25
Final Examination	1	60

Recommended or Required Reading

1	DiBartola, Stephen P. Fluid Therapy in Small Animal Practice. 4th ed. Philadelphia, W. B. Saunders, 2011
2	C. M. Kahn, S. Line; The Merck Veterinary Manual, 10th Edition. Merck, 2010
3	K. Turgut. Veteriner Klinik Laboratuvar Teşhis Kitabı. 2000

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical	Regulation of body fluids
	Preparation Work	Clinical rating of dehydration
2	Theoretical	Indication of fluid and electrolyte therapy
	Preparation Work	Rating of dehydration with laboratory results
3	Theoretical	Complication of fluid and electrolyte therapy
	Preparation Work	Oral rehydration solution administration
4	Theoretical	Basic principle of fluid and electrolyte therapy
	Preparation Work	Using an infusion pump
5	Theoretical	Parenteral fluid therapy
	Preparation Work	Isotonic crystalloid solution administration
6	Theoretical	Oral fluid therapy
	Preparation Work	Hypertonic crystalloid solution administration
7	Theoretical	Calculation of the amount of fluid, (Mid term Exam)
	Preparation Work	Colloid solution administration
8	Theoretical	Calculation of the amount of fluid
	Preparation Work	Blood gas analyse
9	Theoretical	Administration rate of fluids
	Preparation Work	Blood gas analyse
10	Theoretical	Rehydration
	Preparation Work	Case study
11	Theoretical	Metabolic acidosis therapy
	Preparation Work	Case study
12	Theoretical	Metabolic alkalosis therapy
	Preparation Work	Case study
13	Theoretical	Regulations of hyponatremia and hypernatremia
	Preparation Work	Case study
14	Theoretical	Regulations of hypocalcemia and hypercalcemia



14	Preparation Work	Case study
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Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	3	0	10	30
Reading	14	0	1	14
Midterm Examination	1	5	1	6
Final Examination	1	10	1	11
Total Workload (Hours)				103
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Knows the pathophysiology of fluid and electrolyte balance
2	Selects appropriate equipment, methods and solutions, for the treatment of disorders of fluid and electrolyte balance,
3	Performs effective and rational fluid-electrolyte treatment.
4	Recognize the fluids used in fluid treatment.
5	Fluid treatment determines the prognosis of the applied animal.

Programme Outcomes (Internal Diseases (Veterinary Medicine) Master)

1	Among veterinary medicine master of science sufficiency, increasing and deepening relevant knowledge
2	Developing and deepening theoretical and practical knowledge in the field of use, integrating knowledge from different disciplines for interpretation.
3	For Large and Small Animal Internal Medicine, taking into account the systemic clinical examination, realizing the true diagnosis for interpreting the clinical and laboratory findings, and the need to implement effective and rational treatment for taking prophylactic measures.
4	Learning how to access and evaluate relevant information.
5	Quoting updated novelty relevant to Veterinary Internal Medicine by incisive, oral and visually.
6	Planning a relevant research study by use of quantitative and qualitative data collection, continuing by taking care of scientific ethics, and by evaluation of appropriate statistical methods chosen, converting the investigational and project results into report/thesis.
7	Information obtained in accordance with the requirements of the country and the level of expertise of the region for usage of research public and animal health.

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

	L1	L2	L3
P1	4	5	5
P2	3	5	5
P3	5	5	5
P4	4	4	4
P5	3	4	4
P6	3	4	4
P7	3	3	4

