Module title:	Clinical toxicology of large animals	ECTS	1
Polish translation:	Toksykologia kliniczna dużych zwierząt		
Course:	**Veterinary Medicine**		

Module language: English			Stage: JM
Form of studies: ■ intramural ☐ extramural	Type of module: ☐ basic ■ directional ☐ accessory ☐ rotation ☐ summer practice ☐ mandatory ■ elective	Semester: …9 Year 5	■ winter semester ☐ summer semester
Academic year:	**2023/2024**	Catalogue number:	FVM-V-JMSS-09W-E20_23

Module coordinator:	dr hab. Marta Mendel		
Teachers responsible for the module:	n/a		
Unit responsible for the module:	Department of Preclinical Sciences		
Faculty in charge:	Faculty of Veterinary Medicine		
Objectives of the module:	During the course student acquires detailed information in the field of veterinary toxicology, including clinical course, diagnostics, treatment and prevention of animals' poisonings; All presented data focuses on large animals, including horses, cattle, pigs, and small ruminants.		
Teaching forms, number of hours:	a) Lectures: 15 h b) … c) …		
Teaching methods:	The basic form of presentation of selected topics is a lecture given by a teacher. However, it should include student activity. Teaching methods involve: analysis of original papers, finding a solution to presented problems during discussions based on information presented by a teacher, presentation of short films showing specific symptoms of some most frequent poisonings.		
Formal prerequisites and initial requirements:	General toxicology, Animal physiology modules 1-2, Biochemistry modules 1-2, Veterinary pharmacology modules 1-2, Animal pathophysiology, Clinical and laboratory diagnostics modules 1-2 Student should know basic processes in regard to animal physiology and biochemistry and basic principles of toxicology		
Learning outcomes:	Knowledge: students describes the clinical course and the results of laboratory tests in animals intoxicated with individual poison students knows diagnostics procedures and basic therapeutical protocols of acute and chronic poisonings, including the knowledge of specific antidotes and principles of their use student knows how to distinguish between different poisonings that cause similar clinical symptoms (differential diagnostics)	Skills: …… ……	Competences: student knows the reasons of the most prevalent poisoning in large animals
Assessment methods:	Written test at the end of the course		
Formal documentation of learning outcomes:	Signed test papers, grade in eHMS		
Elements impelling final grade:	**All lectures are mandatory.** The attendance at 5 lectures or more will be benefited at the exam. One verification (written) exam at the end of semester – 3 questions for frequent lecture attenders of the lectures or 4 questions for other students. To pass the exam one must obtain at least 51% of total number of points (at least 8 out of 15 points or 10.5 out of 20 points in case of 3 and 4 questions, respectively). Failed test can be repeated once. Grading scale:		

3-question test	4-question test

	<table><tr><th>Number of points</th><th>Grade</th><th>Number of points</th><th>Grade</th></tr><tr><td>0-7.5</td><td>2 (failed)</td><td>0-10</td><td>2 (failed)</td></tr><tr><td>8-9</td><td>3 (sufficient)</td><td>10.5-12</td><td>3 (sufficient)</td></tr><tr><td>9.5-10.5</td><td>3.5 (sufficient +)</td><td>12.5-14</td><td>3.5 (sufficient +)</td></tr><tr><td>11-12</td><td>4.0 (good)</td><td>14.5-16</td><td>4.0 (good)</td></tr><tr><td>12.5-13.5</td><td>4.5 (very good)</td><td>16.5-18</td><td>4.5 (very good)</td></tr><tr><td>14-15</td><td>5.0 (excellent)</td><td>18.5-20</td><td>5.0 (excellent)</td></tr></table>
Teaching base:	Lecture hall of the Faculty of Veterinary Medicine, laboratories of the Division of Pharmacology and Toxicology
Mandatory and supportive materials : 1. Clinical Veterinary Toxicology, red. KH Plumlee, Mosby, 2003 2. Veterinary Toxicology, red. RC Gupta, Elsevier, 2007 3. Toxicology, red. GD Osweiler, Wiliams and Wilkins, 1996 4. FEI Equine Anti-Doping and Controlled Medication Regulations	
ANNOTATIONS	

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:	**…25……. h**
Total ECTS points, accumulated by students during contact learning:	**…1…. ECTS**

Learning outcomes of the module relative to the learning outcomes of the subject:

Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*)
Knowledge -	student knows the reasons of the most prevalent poisoning in large animals	Other 2	2
Knowledge -	students describes the clinical course and the results of laboratory tests in animals intoxicated with individual poison	WW_NP6, WW_NP7, W_NK2, W_NK7	2;2;2;2
Knowledge	students knows diagnostics procedures and basic therapeutical protocols of acute and chronic poisonings, including the knowledge of specific antidotes and principles of their use	WW_NP6, WW_NP7, WW_NP10, W_NK2, W_NK3, W_NK4	2;2;2;2;2;2
Knowledge	student knows how to distinguish between different poisonings that cause similar clinical symptoms (differential diagnostics)	W_NK4	2

*)

3 – Significant and detailed,

2 – Partial,

1 – Basic,

WNZ-ZT-1Z-08Z-03_19

Kod Wydziału-Kod kierunku-Kod poziomu i formy-numer semestru Z zimowy L letni-numer przedmiotu w planie semestru_rok akademicki, od którego obowiązuje opis / 2019-2020 →19/

WNZ – Wydział nauk o zwierzętach (kod HMS)

ROL	Rolnictwa i Biologii
WET	Medycyny Weterynaryjnej
LES	Leśny
OGR	Ogrodnictwa, Biotechnologii i Architektury Krajobrazu
BIS	Budownictwa i Inżynierii Środowiska
TDR	Technologii Drewna
WNZ	Nauk o Zwierzętach
EKR	Nauk Ekonomicznych
NoZ	Nauk o Żywności
ZCZ	Nauk o Żywieniu Człowieka i Konsumpcji
WIP	Inżynierii Produkcji
ZIM	Zastosowań Informatyki i Matematyki
WNH	Nauk Społecznych

ZT – zootechnika

A	architektura krajobrazu
B	biologia
BD	budownictwo
BT	biotechnologia
BW	bioinżynieria zwierząt
BZ	bezpieczeństwo żywnosci
D	dietetyka
E	ekonomia
ER	ekologiczne rolnictwo i produkcja żywności
F	finanse i rachunkowość
	weterynaria
GH	gastronomia i hotelarstwo
GP	gospodarka przestrzenna
H	hodowla i ochrona zwierząt towarzyszących i dzikich
IB	inżynieria systemów biotecchnicznych
IE	informatyka i ekonometria
IG	inżynieria i gospodarka wodna
IK	inżynieria ekologiczna
IN	informatyka
IS	inżynieria środowiska
L	logistyka
LS	leśnictwo
M	meblarstwo
O	ogrodnictwo
OR	ochrona zdrowia roślin
OS	ochrona środowiska
P	pedagogika
R	rolnictwo
S	socjologia
TD	technologia drewna
TE	technologie energii odnawialnej
TU	turystyka i rekreacja
TB	towaroznawstwo w biogospodarce
TZ	technologia zywnosci i zywienie człowieka
W	weterynaria
W-N	weterynaria
	weterynaria
Z	zarządzanie
ZC	żywienie człowieka i ocena żywnosci
ZP	zarządzanie i inżynieria produkcji
ZT	zootechnika

1Z – studia I stopnia niestacjonarne

1S – I st., stacjonarne;

2S – II st., stacjonarne;

2Z – II st., niestacjonarne