

1-Basic information

Course Code:	S3-PHAR
Course title :	Veterinary pharmacology
Academic year:	3 rd Academic year
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	5 hours/week, (3Lect./week, 2 Practical/week)
Approval Date	2017-2018

2-Professional information

Overall aims of course:

By the end of this course the student is able to:

1-Recognize pharmacokinetics and pharmacodynamics of drugs affecting different systems of the body.

- 2- Set the side effect and toxicity of the drugs
- 3- Write correct prescription.
- 4- Formulate different drugs for treating diseased case.
- 5- Calculate the correct doses of different drugs.
- 6-Choose the correct route of drug administration.
- 7-Choose the suitable drugs for treating different diseases.
- 8-Describe different drug sources.

9-Perform different pharmaceutical drug forms necessary for treatment certain diseases.

3- Intended learning outcomes of course (ILOs)

A-Knowledge and understanding:

By the end of this course the student should be able to:

a-1-distinguish pharmacokinetics and pharmacodynamics of drugs.

a-2- Recognize drugs affecting ANS, CNS, Reproductive system (Autacoids and reproductive

Hormones), Urinary system, Respiratory system, Digestive system, Cardiovascular system,

Skin and eye and Metabolism.

a-3- Recognize Chemotherapy and Clinical pharmacology.

a-4- Recognize Drug toxicology and Fish pharmacology.

b-Intellectual skills

By the end of this course the student should be able to:

B-1-Formulate different prescriptions for treating diseases.

b-2-Suggest certain drugs for treating diseased cases



b-3-Differentiate the forms of drugs

c-Professional and practical skills

By the end of this course the student should be able to:

C-1 perform different route of administration of living laboratory animals with different

drugs.

- C-2-Assesse of the different chemotherapeutic agents
- C-3- Design a Prescription.

C-4-Perform different pharmaceutical drug forms necessary for treatment certain diseases.

- C-5-Detect the site of action of different drugs
- C-6- Detect the active principles present in plants.

d-General and transferable skills

By the end of studying the course, the student should be able to:

- d1- Work in a group and manage time.
- d2- Connection with drug companies, pharmacists and the friends in the career.
- d3- Communication with their professors and staff members.
- d4-Utilize computers and internet for research work

4-Topics and contents

Course	Торіс	No. of	Lectures	Practical
		hours		
	*General pharmacology	22	8	14
eek	*Drug affecting Autonomic Nervous System	10	6	4
vgo vy	* Drug affecting Central Nervous System	16	8	8
colo 2h.	* Drug affecting Reproductive System	2	2	-
ma ct.	* Drug affecting Skin and Eye	3	3	-
irst Iarı Pra	* Drug affecting Urinary System	2	2	-
k, l	* Drug affecting Cardiovascular System	3	3	-
eal ary vee	* Drug affecting Respiratory System	2	2	-
rins h./v	* Drug affecting digestive system	3	3	
3 7ete c. 3	* Drug affecting hormones	2	2	
Tee		Total		
		65	39	26



cond term 1armacology eek, Pract. eek)	*Drugs affecting metabolism	5	3	2
	*Antibiotics	8	6	2
	*Sulfonamides	4	2	2
	*Other antimicrobials	4	2	2
	*Anthelmintic drugs	6	4	2
-Se y p] 1./w	*Antifungal drugs	3	1	2
3 rd year. eterinary (Lec. 3 h 2h	*Antiprotozoal drugs	6	4	2
	*Disinfectants and antiseptics	14	2	12
	*Antiviral drugs	1	1	-
	*Ant tubercular drugs	1	1	-
	*Antitumor drugs	1	1	-
	* Clinical pharmacology	4	4	-
	*Drug toxicology	4	4	-
	*Fish pharmacology	4	4	-
		Total		
		65	39	26

5-Teaching and learning methods

- 1. Lectures
- 2. Practical sections.
- 3. Self-learning by assays and presentations.

6-Teaching and learning methods for the students with disabilities

Office hours, special meeting and practical course revision.

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods					
	K&U	I.S	P&P.S	G.S		
written Exam	1,2,3,4	1,2,3	1,2,4			
Practical Exam	1,2,3	1,2,3	1,3,4,5,6	1		
Oral Exam	1,2,3,4	1,2,3	1,2,3,4			
Student Activities				1,2,3,4		

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	15 th week
written exams	managed by administrations
Oral Exam	managed by the department
Student Activities	managed by the department



7.3. Weight of assessments:

Assessment	Weight of assessment
Practical exams	25%
written exams	50%
Oral Exam	%25
Student Activities	-
	100%

8- List of references

8.1. Notes and books

* Notes of pharmacology (part I and part II) by staff member.

* Note of practical pharmacology

8.2. Essential books:

(Available in library of Faculty of Veterinary Medicine, Beni-Suef University)

*Walker, D.G.; Renwick, A.G. and Hillier, K. (2001):

Medical pharmacology and therapeutics

First Ed. University of Southampton printed in Spain

*Mehdi Borougerdi. (2002):

Pharmacokinetics: Principles and applications.

Dep. of Pharmaceuitical Science-School of pharmacy, North Easten Univ. Bostom.

8.3. Recommended texts

(Available in library of Faculty of Veterinary Medicine, Beni-Suef University)

*Stockly, I.H. (1999):

Drug interactions, 5th Ed. University of Nottingham Medical School, Nottingham, UK

*Goodman, L.S. and Gilman, A. (2001):

The pharmacological basis of therapeutics, 10th Ed.

Iowa State University Press USA

*Nicholas H. Booth and E. Mcdonald (2005):

Jones Veterinary Pharmacology and Therapeutics, 5th Ed, Pharmaceutical press publisher ***Robert L. Bill (2006):**

Clinical Pharmacology and Therapeutics For The Veterinary Technician, 3rd Ed. Vet. Physiology and pharmacology. School of Vet. Medicine. Purdue Univ. indiana



*S. Giguere. J. F. (2006): Antimicrobial therapy in Veterinary Medicine, 4th ed. Black well publishing *Bertram. G. (2007): Basic and clinical pharmacology. 10th .ed. Dep. of cellular and molecular pharmacology. Unv. of calfornia, San Francisco.

8.4. Journals, Websitesetc Journals:

*Journal of Pharmaceutical Science *Journal of Veterinary Pharmacology and Therapeutics *Antimicrobial Agents and Chemotherapy *British Journal of Pharmacology *The Pharmacological Basis of Therapeutics *Journal of Antimicrobial Chemotherapy *Journal of Antibiotics

<u>Websites:</u> http//www.sciencedirect.com/scince ncbi.nlm.nih.gov/entrez/query.fcgi

Course Coordinators

Dr. Abeer Mohammed Radi

Head of Department

Prof. Dr. Mohammed AbdAlla Tohamy



Course specification

Tonia	Week	Intended learning outcomes of course (ILOs)			
Γορις		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
First term					
*General pharmacology	1,2,3	1		1,6	1,3,4
*Drug affecting Autonomic Nervous System.	3,4,5	2	1,2,3	5	1,3,4
* Drug affecting Central N.Sys.	5,6,7,8	2	1,2,3	5	1,3,4
* Drug affecting Reproductive Sys.	8	2	1,2,3		1,3,4
* Drug affecting Skin and Eye	9	2	1,2,3	4	1,3,4
* Drug affecting Urinary System.	10	2	1,2,3		1,3,4
* Drug affecting Cardiovascular System.	10,11	2	1,2,3		1,3,4
* Drug affecting Respiratory System.	11,12	2	1,2,3	4	1,3,4
* Drug affecting digestive system	12,13	2	1,2,3	4	1,3,4
* Drug affecting hormones	13	2	1,2,3		1,3,4
Second term				-	
*Antibiotics	1,2	3	1,2,3	2	1,3,4
*Sulfonamides	3	3	1,2,3	2	1,3,4
*Other antimicrobials	3,4	3	1,2,3	2	1,3,4
*Anthelmintic drugs	4,5	3	1,2,3	2	1,3,4
*Antifungal drugs	5	3	1,2,3	2	1,3,4
*Antiprotozoal drugs	6,7	3	1,2,3	2	1,3,4
*Drug affecting metabolism	7,8	3	1,2,3	2	1,3,4
*Disinfectants and antiseptics	8	3	1,2,3	2	1,3,4
*Antiviral drugs	9	3	1,2,3	2	1,3,4
*Antitubercular drugs	9	3	1,2,3	2	1,3,4



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*Antitumor drugs	9	3	1,2,3	2	1,3,4
* Clinical pharmacology	10,11	3	1,2	3,4	1,2,3
*Drug toxicology	11,12	4	1,2		1,2,3
*Fish pharmacology	12,13	4	1,2		1,3,4



Beni Suef University Faculty of Veterinary Medicine