

Pharmacology (B)
Chemotherapy, drug toxicity and clinical pharmacology

Benha University

Faculty of Veterinary Medicine

Course Specifications

Program on which the course is given: **Bachelor of Veterinary Medical Sciences**

Department offering the course: **Department of Pharmacology**

Academic year / Level : **Third Year, 2nd semester**

Date of specification approval: Ministerial decree No. 921 on 15/ 9/ 1987

Date of Dept approval;- 9-1-2011

A- Basic Information

Title: Pharmacology (B)

Code: Vet 00631b

Lecture: 3 hours/week

Practical: 3 hours/week

Total: 6 hours/week

B- Professional Information

1 – Overall Aim of the Course:

Is to provide the students with a basic education about chemotherapy, drug toxicity and clinical pharmacology.

2 – Intended Learning Outcomes of the Course (ILOs)

a- Knowledge and Understanding:

a1-know the basic information about drugs acting on bacteria, virus, fungus , parasites and insects.

a2-identify the basic knowledge of endocrine pharmacology.

a3- Awareness about drug toxicity.

a4- recognize the basic knowledge of treatment of some diseased animals.

a-5- define terms relating to pharmacology of hormones

a6- apply endocrine pharmacology in therapeutics

b- Intellectual Skills:

After successful completion of the course the students should be able to:

b1- confirm the use of hormones and their side effects

b2- confirm the advantages and disadvantages of hormones

b3- organize the hormones of choice

b4. discover the contraindications of hormones

- b5- hypothesize the suitable drug for treatment of diseased animals
- b6- confirm the right chemotherapeutic agent to cure diseased animals.
- B7- organize the drug of choice
- B8- discover the contraindications of drugs

c- Professional and Practical Skills:

After successful completion of the courts the students should be able to:

- c1- Prepare the prescribed pharmaceutical preparations.
- c2- Investigate different effects of drugs.
- c3-. interpret prescriptions for drugs and evaluate for safety, quality, efficacy, legality and economy
- c4- summarize in pharmacological terms the mechanisms by which drugs produce their effects
- c5- perform complex pharmaceutical calculations in order to be able to give advise on safe drug administration
 - c6-. investigate what is involved in preparing a prescription and dispensing of endocrine drugs

d-General and Transferable Skills

After successful completion of the courts the students should be able to:

- d1- cooperate with other members of Clinical Pharmacologist team.
- d2- utilize communicating skills and have access to the internet and retrieve the information.
- d3 - make appropriate decisions based on available information, with into the risks and benefits that may result from working with incomplete data

3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Endocrine Pharmacology	10	5	5
Chemotherapy	50	25	25
Drug toxicity	10	5	5
Clinical Pharmacology	12	6	6
Drug interaction	8	4	4
Total	90	45	45

4- content -ILOS matrix

content	ILOs			
	Knowledge And understanding	Intellectual	Professional and practical	General and transferable
1Endocrine pharmacology	a 5,a6	b1,b2,b3,b4	C6	d 1,d2,d3
2-chemotherapy	a 1,a4	b 5-b 6	C1	d 1-d 2,d3
3- Drug toxicity	a3	b7 ,b8	C3	d 1-d 2,d3
5- Clinical Pharmacology	a2,a4	b 5-b 6	C4	d 1-d 2,d3
6- Drug interaction	a3	b 5-b 6	C3	d 1-d 2,d3

5- Assesment-ILOs Matrix

Assesment	ILOs			
	Knowledge And understanding	Intellectual	Professional and practical	General and transferabl e
MID term exam	a 1- a 2,a3,a4,a5,a6	b 1-b 2,b3,b4,b5,b6,b7,b8,	-	-
Practical exam	a 1- a4	b 5-b 6,b8	C1c2,c3,c4,c5,c6	d3
oral exam	a 1- a2,a3,a4,a5,a 6	b1- b2,b3,b4,b5,b6,b7.b 8	-	-

6– Teaching and Learning Methods

- 4.1- Overhead Projector
- 4.2-CD's
- 4.3- Slides
- 4.4practical lesson on who to handel the animals
- 4-5 field trips for pharmaceutical company

7- Student Assessment Methods

- 5.1 Semester work (periodical exams and MCQ to assess knowledge and intellectual skills).
- 5.2 Practical exam to assess professional and practical skills.
- 5.3 Oral exam to assess intellectual skills.
- 5.4 Written exam to assess knowledge and intellectual skills.

Assessment Schedule

Assessment 1	Semester work	Week 4,6,8,10,12.
Assessment 2	Practical exam	Week 13
Assessment 3	Oral exam	Week 15
Assessment 4	Written exam	Week 15

Weighting of Assessments

Mid-Term Examination	
Semester Works	20 %
Practical Examination	15 %
Oral Examination.	15 %
Final-term Examination	50 %
Total	100%

6- List of References

6.1- Course Notes

Lectures of Pharmacology

6.2- Essential Books (Text Books)

1-Veterinary applied pharmacology and therapeutics. Brander, G. C. ; Pugh, D. M. and Bymater, R.J. , English Language Book Society and Longman, London.

2- Clinical Pharmacokinetics Handbook (2006): Larry A, Bauer, Pharm.D. Medical Publishing Division.

6.3- Recommended Books

Clinical Pharmacology and Therapeutics for the Veterinary Technican (3rd Edition) 2000. Robert L, Bill, DVM, PhD. Prineted in the United State of Amirica. Copyright 2000 By Mosby, INC, an affiliate of El-Serveier Inc.

6.4- Periodicals, Web Sites, ... etc

- Am. J. Vet. Res.
- J. Vet. Pharmacology and Therapeutics.
- Arch. Int. Pharmaco. Et Therap.

7- Facilities Required for Teaching and Learning

- Instrument for assay of drug efficacy.
- Data show
- HPLC

Course Coordinator:

Prof Dr. Asherf El-Koomy

Head of Department:

Prof Dr. Asherf El-Koomy.

Date: 9-1-2011