



كلية الطب البيطري

وحدة ضمان الجودة والإعتماد

جامعة جنوب الوادي

Course Specifications

University: south valley university

Faculty: veterinary Medicine

Course Specifications

Programme(s) on which the course is given: **Bachelor of Veterinary Sciences.**

Major or Minor element of programmes: major

Department offering the programme: **Pharmacology Department**

Department offering the course: **Pharmacology Department**

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

Date of specification approval: 2009-2010

A- Basic Information

Title: Special Veterinary Pharmacology

Code: 324

Credit Hours: Lecture: 3 hours/week

Practical: 2 hours/week

Total: 5 hours/week

B- Professional Information

1 – Overall Aims of Course

- 1- Provide the students with a basic education about pharmacokinetics and pharmacodynamics, of drugs affecting on Digestive, Respiratory, Urinary and Reproductive systems, skin, Eye and Ear.
- 2- Provide the students with a basic education about Chemotherapy and drug toxicity.

2 – Intended Learning Outcomes of Course (ILOs):

a- Knowledge and understanding:

- 1- Understand pharmacokinetics and pharmacodynamics of drugs affecting on Digestive, Respiratory, Urinary and Reproductive systems, skin, Eye and Ear.
- 2- List and classify common drugs used in veterinary medicine and understand actions, mechanism of action, adverse effects and precautions for use of each drug.
- 3- Understand the indications and contraindications of the principal drugs.
- 4- Be familiar with interactions between drugs.
- 5- Be familiar with drug residues and how to minimize their hazard effects.

6- Be familiar how to deal with a case of drug toxicity.

b- Intellectual Skills:

- 1- Understand the use of drugs, adverse effects and antidotal therapy.
- 2- Be familiar with the advantages and disadvantages of chemotherapeutic agents.
- 3- Select the drug of choice.
- 4- Be familiar with drug-drug and food-drug interactions.
- 5- Be familiar with contraindications of drugs.
- 6- Be familiar with drug residues and the hazard effects on human.

c- Professional and Practical Skills:

- 1- Be familiar with the many types of drug forms available.
- 2- Be familiar with the routes and techniques of drug administration.
- 3- Have knowledge about the systems of measurements and understand how to perform conversions using the metric system and other systems of measurements as well as understand how to perform dosage calculations.
- 4- Know what is involved in preparing a prescription and dispensing.

d- General and Transferable Skills:

1. Be familiar with all drugs administered and dispensed.
2. Have information about how medications should be administered, why it has been prescribed, and any adverse reactions that may occur.
3. Select the optimal route of drug administration to obtain the maximal bioavailability.
4. Describe how drugs affect the body.
5. Understand the clinical indications for the drugs.

3- Contents:

Topic		N0. of hours	Lecturer	
Hormones affecting reproduction functions	Drugs act on reproductive system	2	Dr. Ashraf	
Appetite stimulants, antacids and digestants	Drugs act on digestive system	1	Dr. Hazem	
Drugs used to control estrous cycle, drugs used to prevent pregnancy, drugs used to maintain pregnancy and drugs used to terminate pregnancy.	Drugs act on reproductive system	1	Dr. Ashraf	Dr. Ashraf
Emetics and antiemetics, laxative and purgatives	Drugs act on digestive system	2	Dr. Hazem	Dr. Hazem
Diuretics, antidiuretics, uricosurics, urinary antiseptics and urinary sedatives	Drugs act on urinary system	2	Dr. Ashraf	Dr. Ashraf
Antidiarrheal drugs	Drugs act on digestive system	1	Dr. Hazem	Dr. Hazem
Respiratory stimulants and depressants, cough and antitussive drugs and drug acting on bronchi	Drugs act on respiratory system	2	Dr. Hazem	Dr. Hazem
Drugs acting on rumen	Drugs act on digestive system	1	Dr. Hazem	Dr. Hazem
Introduction to chemotherapy	Chemotherapy	1.5	Dr. Ashraf	Dr. Ashraf
B-Lactam antibiotics	Drugs act on skin, ears and eyes	1.5	Dr. Hazem	Dr. Hazem
Drugs acting on skin and ears				
Drugs acting on eyes				
Aminoglycoside, aminocyclitol and tetracycline antibiotics	Chemotherapy	1.5	Dr. Ashraf	Dr. Ashraf
Sulfonamides	Chemotherapy	1.5	Dr. Hazem	Dr. Hazem
Chloramphenicol and macrolide antibiotics	Chemotherapy	1.5	Dr. Ashraf	Dr. Ashraf
Quinolones and fluoroquinolones	Chemotherapy	1.5	Dr. Hazem	Dr. Hazem
Lincosamide, polypeptide and miscellaneous antibiotics	Chemotherapy	1.5	Dr. Ashraf	Dr. Ashraf
Antifungal and antiviral agents	Chemotherapy	1.5	Dr. Hazem	Dr. Hazem
Antinematodes	Chemotherapy	1.5	Dr. Hazem	Dr. Hazem
Anticestodes and antitrepatodes	Chemotherapy	1.5	Dr. Ashraf	Dr. Ashraf
Drugs act on blood parasites	Chemotherapy	1.5	Dr. Ashraf	Dr. Ashraf
Anticoccidial drugs	Chemotherapy	1.5	Dr. Hazem	Dr. Hazem
External antiparasitic drugs	Chemotherapy	1	Dr. Ashraf	Dr. Ashraf
Drug toxicity	Drug toxicology	2	Dr. Hazem	Dr. Hazem
Hormones, vitamins and minerals affecting metabolism	Drugs affecting metabolism	1.5	Dr. Ashraf	Dr. Ashraf

Clinical Pharmacology	Clinical Pharmacology	1.5	Dr. Ashraf	Dr. Ashraf
		36		

Topic	No. of hour	Demonstrator
Drug forms	2	Dr. Ashraf Dr. Hazem Reda Saber
Prescription	2	Dr. Ashraf Dr. Hazem Reda Saber
Posology, Metrology and Medical dosage	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing solutions	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing lotions	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing emulsions	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing solutions linaments	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing ointments	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing bolus and electuaries	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing powders	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing mixtures	2	Dr. Ashraf Dr. Hazem Reda Saber
Dispensing ophthalmic preparations	2	Dr. Ashraf Dr. Hazem Reda Saber
Total	24	

4- Teaching and Learning Methods

4.1- Overhead Projector

4.2- Slides

5- Student Assessment Methods

5.1 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,
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- Pharmacology for Veterinary Technicians. Mosby-Year Book, Ins.USA

2- Veterinary Applied Pharmacology and therapeutics. Brander, G. C.; Pugh, D. M. and Bymater, R.J., English Language Book Society and Longman, London.

3-Veterinary Pharmacology and Therapeutics, 7th Edition , edited by H.Richard Adams, Iowa State University Press/ Ames.

6.3- Recommended Books

6.4- Periodicals, Web Sites, ... etc

1- J. Vet. Pharmacology and Therapeutics.

2- Am. J. Vet. Res.

7- Facilities Required for Teaching and Learning

- 1- Data Show.
- 2- Instruments for drug assay.

Course Coordinator:

Dr.Ashraf El-Ghoneimy and Dr. Hazem Shaheen.

Head of Department: Prof.Dr. Abd El-Latif Shaker Seddik

Date: 6 / 6 / 2009