

# Pharmacology Curriculum Content And Logbook (1<sup>st</sup> Term)

Student's Name:

Section:



جامعة المنصورة كلية الطب البيطرى قسم الادوية

Personal Data	
Student's name:	Photo
Adress:	Thoto
Telephone No:	
E-mail:	
Serial No:	
Attended Ratio:	

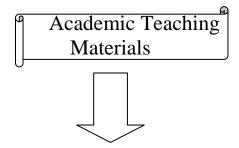


# Cerriculum content

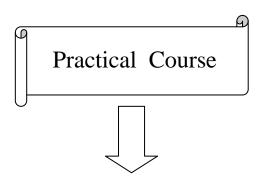


# Pharmacology Course

- Theoretical Topics (Leactures):3 hours\ weak.
- Practical Course: 2 hour\ week.



General Pharmacology
Urinary system
Drug affect Autonomic
nervous system
Drug affect Central nervous
system
Autacoids
Skin
Anti-inflammatory drugs
Drug affecting respiratory
system



- \* Drug sources
- \*Drug forms
- \*Routes of drug administration
- \*Effect of drug on isolated tissue preparation
- \* Effect of drug on CNS
- \*Action of drug on isolated skeletal muscle
- \*Effect of general anaesthesia on rat
- \*Action of drug on isolated uterus
- \*Action of drugs on rabbit eye
- \*Effect of drugs on isolated rabbit duodenum
- \*Site of drug actions on isolated rabbitrabbit duodenum



### Intended learning outcomes of course

### Knowledge and understanding.

- 1. Define what is the drug and how it work.
- 2.Recognize the word pharmacodynamics and pharmacokinetics.
- 3.Identify the adverse effects of commonly used drug groups, and their management.
- 4. Identify general mechanisms of drug action.
- 5. Describe the word receptor and how the drug act on it.
- 6.ecognize drug interaction and contraindications of drugs in order to avoid harm to patients.
- 7.Describe species variations in pharmacodynamic activity or pharmacokinetic behavior that contribute to differences in drug dosage requirement.

### **Intellectual Skills**

- 1. Distinguish the different units which help weight and measure ingredients.
- 2. Compare the dose of the drug in different animals.
- 3. Choose the proper drugs in proper dosage based on patient's age, weight and species.
- 4. Monitor the effectivness and side effects of therapy.
- 5. Proficiently and develop problem lists and diagnosis in order to reach the most appropriate solution(s) of drug residues in animal products.



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### Professional and practical skills

- **1.**Employ all the gained knowledge and understanding in clinical practice in a skillful pattern.
- 2. Preparation many drug formula used in treatment of many cases .
- 3. Identify different routes of drug administration.
- 4. Estimate therapeutic effect of the drug.
- 5. Show different method to, analyze the drug residues.
- 6. Illustrate the word Bioavailability of the drug.
- 7. Show different drug sources as herpes and medicinal plants which have many therapeutic effect.

### General and Transferable Skills.

- **1.**Work under pressure and / or conditionary conditions.
- 2. Function in multidisciplinary team.
- 3. Communicate appropriately verbally and nonverbally.
- 4. Organize and control tasks and resources.
- 5. Search for new information and technology as well as adopt life-long self learning ethics.



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Week 1	Date:

1-Where do drug come from.

- 2- Natural source of drugs(Animal-Micro-organism-Mineral-Plant).
- 3-Classification of active principle of plants according to their physicochemical properties.
- 4-synthetic source of drugs

Meicinal plants as a source of drug

Samples	Depict(Draw)	Remaks	Signature

### **Assesment Questions:**

Discuss briefly different sources of drugs?



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Week 2	Date:
Drug forms	
A- Gaseous form of drug	
B-liquid form of drug	
C-Semisolid form of drug	
D-Solid form of drug	

### Solid drug samples

Samples	Dewpict(draw)	Remarks	Signature



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Liquid form

samples	Depict(draw)	Remarks	Signature

Assesment Questions:		
Infusion can be defined a	s While decoction is	
The vehicle in pessaries i	swhile in suppository is	



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Week 3 Date

Routes of drug administration:

### Assessment question:

Mention advantage and disadvantage of oral administration of drug



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Week 4	Date:
Effect of drug on isolated tissue preparation	
Assessment Question:	
Illustrate with drawing Glass Jar apparatus	



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Week 5	Date:
Effect of drug on Central nervous system	

- 1-Classification of CNS stimulant drug and their mechanism of action.
- 2- Types of convulsion result from toxicity of CNS stimulant drugs.
- 3- Treatment of strychnine toxicity

### 1-Cerebral cortex stimulant drug

procedure	Observation	Result & conclusion
	Spontaneous,	Epileptic
Inject 0.5ml	coordinated,	convulsion
Caffeine solution	symmetrical	
(10%) in the dorsal	convulsion	
lymph sac of frog		
and wait for 3-5		
minutes.		
Pithing:by		
introducing the		Conclusion
needle into the		
cranial cavity(to		
destroythe brain and		
the medulla)		
Pith th spinal cord	$\Longrightarrow$	
D'4 4 1 11		
Pith the medulla		
Pith cerebral cortex		
Tim colonial colox		



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### 2- Medullary stimulant drug

Procedure	Observation	Result & conclusion
Inject 0.5 ml	Spontaneous	Result
Picrotoxin solution	,coordinated,	Clonic convulsion
(10%) into the	asymmetrical	
dorsal lymph sac of	convulsions	<u>Conclusion</u>
a frog and wait for		
3-5 minutes		
Pithing:		
Pith the spinal cord		
Pith cerebral cortex		
Pith the medulla		

3- Spinal cord stimulant drug

e spinar cora sciniciana aras		
observation	Result&conclusion	
Reflex, non	Result	
coordinated,	Tonic convulsion	
symmetrical		
convulsions		
	observation Reflex, non coordinated, symmetrical	

### **Assessment Question:**

Mention mechanism of action of Xanthines-picrotoxin-strychnine



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Date:

Action of drug on skeletal muscle(frog rectus abdominus)

Identify dose response relationship

Week 7:



Date:....

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Stage of anaesthesia	Duration(1	Duration(min)	
	Ether	Chloroform	
1-Analgesia			
2-Excitation			
3- surgical anesthesia			
4- Medullary paralysis			
Recovery			

Assesment Question:

Compare between ether and chloroform?



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Week 7	Date:		
Action of drug on isolated uterus			
Study the effect of drugs( oxytocin) on uterine tone and motility.			
Curve showing effect of drug on u	terus		



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Wast 0	Doto
Week 8	Date:

Action of drug on isolated intestine and detection site of action of unknown drugs.



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Week9	Date:

Action of drugs on rabbit eye

Parameter	Normal	Physostigmine	Atropine
1- Pupil			
size			
2- tears			
3- color of			
m.m			

### **Assesment Question:**

compare between passive and active mydriasis?



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### Student Activity

The Ty	ype of student activity:	
The to	pic of the Activity:	
Superv	visor of the activity:	
	Date	Signature



### Student Assessment Methods

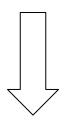
- 1. Final Written exam.
- 2. Oral exam (Viva Card Method).
- 3.Practical Exam
- 4. Attendance criteria: The minimum accepatble attendance is 75%
- 5. Formative assessment
  - a. Test after each chapter.
  - b. Log book and practical book.
  - c. Students activities (Presentation &Essays)

Assassments	Assessment	Weight	Degree
Assessment 1	Practical	30%	15
	Exam		
Assessment2	Oral Exam	20%	10
Assessmenta3	Final Written	50%	25
	Exam		
Total		100%	50



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### Summetive Assessment



Assessment	Mark	Signature
Practical Exam		
Oral Exam		
Final written exam		