Administration of Quality Assurance and Accreditation





إدارة ضمان الجودة والاعتماد

Course Syllabus of Pharmacology

Faculty : Medicine and health sciences Department: Basic Sciences Program : Bachelor of Medicine and Surgery

I. General information about the course instructor :Nameارد عبد الباسط طاهرLocation & phone
numberارد عبد الباسط طاهرLocation & phone
numberSatSunMonTueWedThuEmailImage: State State

]	II. General information about the course:							
1.	Course Title :	Pharmacology						
2.	Course Code and Number :	BMD09						
3.	Credit Hours :	Credit Hours						
		Theoretical	Seminar/ Tutorial	Practical	Clinical	Training	Total	
		3.5	-	0.5	-	-	4	
4.	Study Level and Semester:	3rd year/ 1 st semester						
5.	Pre-requisites	None						
6.	Co-requisites	None						
7.	Program in which the course is offered:	Bachelor of Medicine & Surgery						
8.	Teaching Language:	English						
9.	Instruction location:	University of Science and Technology, Sana'a						

العميد:

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III. Course Description

This course is designed to provide medical student with basic knowledge in pharmacology. In this course emphasis is placed on drug groups and prototypes in general. A brief introduction on the basic principles of pharmacokinetics and pharmacodyinamic are discussed in relation to different drug group. Mechanism of action and drug adjustment according to drug metabolism are also emphasized..

IV. Course Aims:

The aims of the course are :

1-To provide the students with basic knowledge of the pharmacokinetic and Pharmacodynamic of drugs.

2-To acquire the student knowledge about drugs and their sources concerning their identities, safety, optimum use in medication and contraindications.

3-To learn how the drug is worked.

4-To enable students to gain the skill of application of drugs from clinical aspect of view-with understand the safe use of drugs.

V. Course Intended Learning Outcomes (CILOs) :

1) Identify the pharmacokinetic, pharmacodynamics and pharmacotherapeutic properties of different groups of drugs affecting body systems.

2) Recognize the adverse and toxic effects of commonly used drug groups, and their managment.

3) Explain the limitations to the use of drugs such as contraindications and drug interactions.

4) Classify groups of drugs and their mechanism of action.

5) Predict drug adverse reactions

6) Obtain comprehensive drug history of the patient

7) Calculate accurately drug's dosage, bioavailability, plasma half -life and volume of distribution in different patient populations.

8) Perform with precision different technique of drug administration

9) Use current I.T for appropriate drug data base to each information about



VI. Course topics and sub-topics (theoretical and practical) with contact hours and alignment to CILOs							
Topics/Units of Course Contents							
First: Theoretical Aspects							
No	Course Topics/Units	Sub-topics	No. of lectures	Contact Hours			
1	Introduction of pharmacology	Drug receptors & Pharmacodynamics -Route of drug administration -Pharmacokinetic of drugs -Drug-Protein binding -Drug-Drug interactions -Some important pharmacological terms	7	14			
2	Autonomic Nervous System:	-Introduction of A.N.S -Sympathomimetic agents -Sympatholytic agents Parasympathomimetic agents -Parasympatholytic agents -Ganglion blocking & Stimulating agents	7	14			
3	Autocoids:	 -Histamine & antihistamines -Serotonin & drugs acting on its receptors -Prostaglandins & therapeutic uses of their analogs 	5	10			
4	Chemotherapeu tic drug	 A) -lactam antibiotics & other inhibitors of cell wall synthesis -Chloramphinicol, Tetracyclines, Macrolides and Clindamycin -Aminoglycosides -Sulfonamides, Trimethprim and Quinolones. B)-Antifungal agents 	7	14			
		Total	26	52=3.5 CH			

المراجع:

Second: Practical/Tutorial/Clinical Aspects						
No.	Practical/Tutorial/Clinical topics	No. of labs	Contact Hours			
1	Dosage form	1	2			
2	Route of drug administration	1	2			
3	Prescription writing	1	2			
4	Autonomic pharmacology: effects of adrenaline on heart	1	2			
5	Autonomic pharmacology: effects on mitotic & mydriatics	3	5			
6	Clinical case : organophosphorus poisioning	1	2			
	Total	8	15=0.5 CH			

المراجع:

الموصف: