

STUDY GUIDE

Pharmacology II

1208312



Course coordination

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Course Identification

1. Credit hours	2
2. Level/year at which this course is offered	6th
3. Pre-requisites for this course	Pharmacology (I) (1208311)

Course committee members

1. Dr. Rahma Hamayun
2. Dr. Hassan Eltom
3. Dr. Muhammad Jan

Actual Learning Hours

No	Activity	Learning Hours
Contact Hours		
1	Lecture	30
2	Laboratory/Studio	
3	Tutorial	
4	Others (specify)	
	Total	30

Course Objectives

Course Description

During this course, the student will be familiar with different groups of medications, their indications, pharmacodynamics, pharmacokinetic, drug interactions, adverse drug reactions, contraindications and percussions; thereby the student will utilize the basic science literature of pharmacology to be able to prescribe medications rationally, communicate to the patients effectively, promotes the concept of compliance, counsel the patient about their medication use, and participate in patient and community education.

Course Main Objective

By the end of this course the students are able to:

1. Understand the scope of pharmacology in relation to different diseases including cancer chemotherapy and antimicrobial therapy.
2. Recognize the basic principles of pharmacokinetics and pharmacodynamics of drugs (including absorption, distribution, metabolism, excretion, elimination half-life, and bioavailability, how drugs produce their action, receptors, drug-receptor interactions, dose-response curve relationships, potency and efficacy of drugs, etc.)
3. Recall the scientific names of drugs and drug groups used in the treatment of important diseases of various body systems.
4. Acquire cognitive, motor, and communication skills that are necessary throughout the clinical career for rational therapeutics.

Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and Understanding	
1.1	Recognize the basic principles of Pharmacology that enable the providing of quality nursing care	K1
1.2	Recognize the general pharmacology of CNS, Respiratory, GIS, endocrine systems	K1
2	Skills :	
2.1	Demonstrate the skills of retrieving drug profile.	S1
3	Values:	
3.1	Demonstrate high level of integrity while preparing the required assignments.	V1
3.2	Employ the skill of self-learning through updated medical information from different approved sources	V2

Course Content

No	List of Topics	Contact Hours
1	Sedative hypnotics	1
2	Anti-epileptics	1
3	Antidepressants	1

4	Anti-psychotics	1
5	Anti-parkinsonian & Anti-Alzheimer	1
6	Local anesthetics	1
7	General anesthetics	1
8	NSAIDs & anti-rheumatics (DMARDs)	1
9	Drug treatment of arthritis and gout	1
10	Opioids analgesics	1
11	Drug addiction and poisoning	1
12	Bronchial asthma	1
13	Anti-tussives	1
14	Peptic ulcer, vomiting	1
15	Diarrhea & constipation	1
16	Thyroid and anti-thyroid drugs	1
17	Corticosteroids	1
18	Insulin	1
19	Oral antidiabetics	1
20	Pituitary & gonadal hormones	1
21	Contraceptives	1
22	Autacoids	1
23	Cancer Chemotherapy I	1
24	Cancer Chemotherapy II	1
25	Ant anemic drugs	1

26	Antibiotics 1	1
27	Antibiotics 11	1
28	Antiviral	1
29	Antifungals	1
30	Anti-tuberculosis	1
	TOTAL	30

Teaching strategies and Assessment Methods for Students

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
1.1	Recognize the basic principles of Pharmacology that enable the providing of quality nursing care	Direct instruction (Lectures)	MCQs
1.2	Recognize the general pharmacology of CNS, Respiratory, GIS, endocrine systems	Direct instruction (Lectures)	MCQs
2.0	Skills		
2.1	Demonstrate the skills of retrieving drug profile.	Assignments	Assignment rubric
3.0	Values		
3.1	Demonstrate high level of integrity while preparing the required assignments.	Assignments	Assignment rubric
3.2	Employ the skill of self-learning through updated medical information from different approved sources	Assignments	Assignment rubric

Assessment Tasks for Students (Copy and paste the table from courses specification)

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Midterm	6	30%
2	Assignment submitted before final exam	10	10%
3	Written Final Exam (MCQs)	14	50 %
4	Class participation and attendance		10%

Course blueprint (% of total summative marks in blue print is to be given in the range)

Topics	Teaching strategies	Assessment methods	Knowledge			% of total contact hours	% of total summative marks
			K1	K2	..		
Lectures						100%	80%
Sedative hypnotics	Lectures	Mcqs	K1			3.33	2-3%
Anti-epileptics	Lectures	Mcqs	K1			3.33	2-3%
Antidepressants	Lectures	Mcqs	K1			3.33	2-3%
Anti-psychotics	Lectures	Mcqs	K1			3.33	2-3%
Anti-parkinsonism & Anti-Alzheimer	Lectures	Mcqs	K1			3.33	2-3%
Local anesthetics	Lectures	Mcqs	K1			3.33	2-3%
General anesthetics	Lectures	Mcqs	K1			3.33	2-3%
NSAIDs & anti-rheumatics (DMARDs)	Lectures	Mcqs	K1			3.33	2-3%
Drug treatment of arthritis and gout	Lectures	Mcqs	K1			3.33	2-3%

Topics	Teaching strategies	Assessment methods	Knowledge			% of total contact hours	% of total summative marks
			K1	K2	..		
Opioids analgesics	Lectures	Mcqs	K1			3.33	2-3%
Drug addiction and poisoning	Lectures	Mcqs	K1			3.33	2-3%
Bronchial asthma	Lectures	Mcqs	K1			3.33	2-3%
Anti-tussives	Lectures	Mcqs	K1			3.33	2-3%
Peptic ulcer, vomiting	Lectures	Mcqs	K1			3.33	2-3%
Diarrhea & constipation	Lectures	Mcqs	K1			3.33	2-3%
Thyroid and anti-thyroid drugs	Lectures	Mcqs	K1			3.33	2-3%
Corticosteroids	Lectures	Mcqs	K1			3.33	2-3%
Insulin	Lectures	Mcqs	K1			3.33	2-3%
Oral antidiabetics	Lectures	Mcqs	K1			3.33	2-3%
Pituitary & gonadal hormones	Lectures	Mcqs	K1			3.33	2-3%
Contraceptives	Lectures	Mcqs	K1			3.33	2-3%
Autacoids	Lectures	Mcqs	K1			3.33	2-3%
Cancer Chemotherapy I	Lectures	Mcqs	K1			3.33	2-3%
Cancer Chemotherapy II	Lectures	Mcqs	K1			3.33	2-3%
Anti-anemic drugs	Lectures	Mcqs	K1			3.33	2-3%
Antibiotics 1	Lectures	Mcqs	K1			3.33	2-3%
Antibiotics 11	Lectures	Mcqs	K1			3.33	2-3%
Antiviral	Lectures	Mcqs	K1			3.33	2-3%
Antifungals	Lectures	Mcqs	K1			3.33	2-3%
Anti-tuberculosis	Lectures	Mcqs	K1			3.33	2-3%

Topics	Teaching strategies	Assessment methods	Knowledge			% of total contact hours	% of total summative marks
			K1	K2	..		
Log book (attendance and class participation)						0%	10%
Assignment						0%	10%

Learning Resources

Required Textbooks	Lippincott’s Illustrated Review of Pharmacology; 7 th ed.; Richard A Harvey & Pamela C Champe; Lippincott’s Williams & Wilkins; 2018.
Essential References Materials	Basic and clinical pharmacology; 15 th edition; Bertram G. Katzung; McGraw Hill Medical Company; 2020. Focus on Nursing Pharmacology, 8 th , Amy M. Karch;. Lippincott’s Williams & Wilkins, 2019
Electronic Materials	Digital Library
Other Learning Materials	Power points

Related check lists

Assignment rubric