



**KING SAUD UNIVERSITY
COLLEGE OF NURSING**

MEDICAL SURGICAL DEPARTMENT
(NURS 424) APPLIED PHARMACOLOGY
Course Description and Syllabus 2nd Semester AY 1439-1440

Course No.: NURS 424

Course Title: Applied pharmacology

Credit Hours: 2 (2+0+0)

Pre-requisite: PHL 366

Co-requisite: None

Level: Eight

Faculty: Dr. Latifah Almater (Latifah@ksu.edu.sa)

Course Description:

This course is designed to introduce students to the nurse's role and responsibilities of medication administration and the basic principles of pharmacology. It presents introductory body systematic concept of pharmacological applications, including drug regulations, delivery systems calculations and drug administration in order to maintain safe practice.

Course Objectives:

At the end of the course, the students will be able to:

1. Describe the concepts related to Pharmacology, and Principles of Drug Action that contribute to health promotion among individuals across the life span
2. Analyze methods on preventing neglect and abuse and protection of clients, patients, the public and colleagues from the risk of harm when administering medications
3. Write the Nursing Process based on Pharmacological management to provide evidence-based plans of care for clients with different disease conditions.
4. Define the role of the nurse in administering medications necessary for health promotion, illness prevention, care of individuals, families, groups, communities and populations across the lifespan and across the health illness continuum.
5. Demonstrate the skills to apply decisions, which are ethically sound, based on the best available evidence to prevent medication Errors and practice Safe Administration of Medication
6. Evaluate knowledge of social and cultural factors to the care of diverse individuals, families, groups, and communities
7. Integrate knowledge and methods drawn from a variety of disciplines related to the nursing field to inform decision-making
8. Demonstrate Competence in numerical skills Dosage and Drug Calculation necessary for safe patient and client care
9. Document therapeutic and non-therapeutic effects of medications taking cognizance of the legal and ethical aspects of medication administration.
10. Show how to communicate effectively both orally and in writing, using a range of media presenting reports.
11. Interpret Research processes and findings related to Drug Developments relevant to nursing including their utilization and application in nursing practice

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Course Outline:

Week	Date	Topic	Activity
1	3.9.18		Registration
2	10.9.18	Introduction to the Course	I. Group Assignment II. Individual Assignment 1. Reaction Paper on Tuskegee Syphilis Study
3	17.9.18	Legal and Ethical Aspects of Medication Administration	Reflection assignment submission
4	24.9.18	National Day	No Class
5	01.10.18	Bio-cultural Aspect of Drug Therapy	Individual Assignment • Drug dosage and calculate
6	8.10.18	Overview of the Central Nervous System <ul style="list-style-type: none"> • Analgesics • Anaesthetics • Antianxiety, Sedative, and Hypnotic Drugs • Antiepileptic Drugs 	No presentation
		Quiz 1	
7	15.10.18	DRUGS AFFECTING THE CARDIOVASCULAR SYSTEM <ul style="list-style-type: none"> • Overview of the Cardiovascular System Agents used in the treatment of Heart Failure • Antidysrhythmics, Antihypertensive • Vasodilators and Blood Viscosity Reducing Agents 	Presentation – Nursing Process (Drugs affecting CVS) Hanan Alkurashi Rawan Alquhtani
8	22.10.18	Midterm	
9	29.10.18	DRUGS AFFECTING THE BLOOD <ul style="list-style-type: none"> • Overview Of The Blood • Antiplatelet • Anticoagulants, • Antihyperlipidemic 	Presentation – Nursing Process (Drugs affecting Blood) Alanood Sarah Albandari
10	5.11.18	DRUGS AFFECTING THE URINARY SYSTEM	Presentation – Nursing Process (Drugs affecting Urinary System)

		<ul style="list-style-type: none"> • Overview Of The Urinary System Diuretics, • Uricosuric Drugs • Drug Therapy for Renal System Dysfunction 	Rawan AL Othman Fatimah Mohamed
11	12.11.18	DRUGS AFFECTING THE RESPIRATORY SYSTEM <ul style="list-style-type: none"> • Overview Of The Respiratory System • Bronchodilator • Antiasthmatic • Mucolytic Drugs 	Presentation – Nursing Process (Drugs affecting Resp. System) Sahar Fauzia Saudi Health Policy on Administration of High Alert Medication assignment
12	19.11.18	DRUGS AFFECTING THE GASTROINTESTINAL SYSTEM <ul style="list-style-type: none"> • Overview of the Gastrointestinal Tract • Drugs Affecting The Gastrointestinal Tract 	Presentation – Nursing Process (Drugs affecting GI System) Jwaher Reem Zhrah
13	26.11.18	OVERVIEW OF THE DRUGS AFFECTING THE ENDOCRINE SYSTEM <ul style="list-style-type: none"> • Overview Of The Endocrine System • Drugs Affecting the Pituitary, Parathyroid • Thyroid Glands • Drugs Affecting the Adrenal Cortex, Pancreas 	Presentation – Nursing Process (Drugs for GIT / Endocrine System) Latifah Sultanh
		Quiz 2	
14	3.12.18	OVERVIEW OF THE DRUGS USED IN NEOPLASTIC DISEASES <ul style="list-style-type: none"> • Principles of Antineoplastic Chemotherapy • Antineoplastic Chemotherapy Agents 	Presentation – Nursing Process (Drugs for Neoplastic Diseases) Shatha Arwaa
15	10.12.18	Technology and safe medication administration	Reading and discussion
		Final	

Course Evaluation:

Group Presentation & reading assignment	15
Reflection Paper & Drug Calculation assignment	15
Quizzes	10
Midterm Exam	20

Final Written Exam	40
Total	100

Required References:

Leda M. McKenry, Ed Tessier, and Mary Ann Hogan. *Mosby's Pharmacology in Nursing*, 22nd Edition.

Essential References:

Lilley, Collins, Harrington & Snyder. *Pharmacology and the Nursing Process*. Mosby. 6th Ed. Copyright 2011

Nursing Pharmacology Made Incredibly Easy. Wolters Kluwer 3rd Edition © 2013 Lippincott Williams & Wilkins.

Crawford, M., Mullan, J., Vanderveen, T. (2005). Technology and Safe Medication Administration. *American Journal of Nursing*: March 2005 - Volume 105 - Issue 3 - p 37-41