



Pharmacology in Nursing Module

Bachelor of Science (Honours) in Nursing Degree
Department of Nursing and Midwifery
Faculty of Allied Health Sciences
University of Sri Jayewardenepura

PHARMACOLOGY IN NURSING MODULE

Published by Dept. of Nursing and Midwifery
Year 2021

1

FB/ FAHS
57

Module Development Committee

Dr I.M.P.S. Ilankoon

Dr M.K.D.L. Meegoda

Dr S.M.K.S. Seneviratne

Dr. A.A.T.D. Amarasekara

Dr. M.R.S. Jayathilaka

Dr. R.M.T.B Abeyrathne

Mrs. L.C. Damayanthi

Mrs. T.L.C. Lasanthika

Mrs. T.H.K.P. Dharmasena

Mrs. V. Daluwakgoda

PHARMACOLOGY IN NURSING MODULE

No of credits: 02

Placement: Term 3 (1st year)

Prerequisites: None

Teaching Unit: Department of Nursing and Midwifery

Subject	Lecture/ Tutorial	Lec. credits	Lab Hrs	Lab. credits	Practice Hrs	Prac. credits	Total Hrs	Total cred
Pharmacology in Nursing	15	1	15	0.5	25	0.5	55	02

Course objectives:

At the end of the course the students will be able to;

1. define common terms used in pharmacology
2. describe the differences in the ways that drugs are named
3. identify nursing responsibilities related to medication administration
4. apply knowledge in administration of medication under supervision
5. identify adverse effects of commonly used drugs
6. calculate the drug doses accurately

Main Content Areas

Main Content Area	Lectures (Hours)	Practical sessions (hrs)	Tutorials/SG (hrs)
1. Introduction to pharmacology in nursing	02		
2. Nomenclature of drugs	01		
3. Nursing responsibilities related to medication administration	03		01
4. Drug responses	02		01
5. Calculation of drug dosages and preparing	02		01

solutions			
6. The nursing process and medication administration	02		
7. Administration of Medication 7.1 Skills in preparation and administration of oral medications 7.2 Instillation of drops ear, eye, throat 7.3 Emergency trolley, medication trolley 7.4 Introduction to administration of medications by parenteral route (Invasive devices, cannula, IV fluids etc..) 7.5 Devices use in drug administration (Inhalers, Spacer) 7.6 Commonly use drugs		10	
8. Drug classification		05	

1. Introduction to pharmacology in nursing

Intermediate Objectives	Broad Content Areas	Activity	Duration
To describe discovery and the development of the drugs	<ul style="list-style-type: none"> - Significant historical events in the development of pharmacology - Sources of drugs - General properties of drugs - Properties of ideal drug 	L	02

2. Nomenclature of drugs

Intermediate Objectives	Broad Content Areas	Activity	Duration
To describe basic pharmacological terminologies.	<ul style="list-style-type: none"> • The International Nonproprietary Names (INN) nomenclature system • Three classes of drugs <ul style="list-style-type: none"> - the Chemical/Molecular/Scientific name - the Generic or Non-Proprietary name, - the Brand or Trade or Proprietary name • Common terms used in pharmacology • Using correct abbreviations 		01

3. Nursing responsibilities related to medication administration

Intermediate Objectives	Broad Content Areas	Activity	Duration
To describe the responsibilities of nurses in administration of drugs.	<ul style="list-style-type: none"> • Eight rights in drug administration • Compliance and self-administration • Safety of medication and medication errors • Storage and distribution • Recording and reporting • Drug books maintained in the ward • Legal responsibility • Observation of a patient following drug administration • Communication skills relation to drug administration 		04

4. Drug responses

Intermediate Objectives	Broad Content Areas	Activity	Duration
To describe significant drug responses, reactions and interactions and the importance of medication safety.	<ul style="list-style-type: none"> • Factors modifying drug responses • Drug effects: <ul style="list-style-type: none"> - Therapeutic effects - Side effects - Adverse effects - Adverse drug reactions - Toxic effects • Antidotes • Medication Safety 	02 hrs (L) 01 hr (T)	02

5. Calculation of drug dosages and preparing solutions

Intermediate Objectives	Broad Content Areas	Activity	Duration
To apply knowledge in basic drug calculations.	<ul style="list-style-type: none"> • Review of basic drug calculations • Calculating drug dosages 	02hrs (L) 01 Hrs (T)	03

6. The nursing process and medication administration

Intermediate Objectives	Broad Content Areas	Activity	Duration
To describe the different routes of drug administration, nursing responsibilities in drug administration and the importance of documentation in medication safety.	<ul style="list-style-type: none"> • Routes of drug administration • Administration of oral medication • Administering medications by parenteral route • Application of local agents (lotions, cream) in the skin • Documenting medication administration 	10hrs (L) 01 (T)	11

7. Drug classification

Intermediate Objectives	Broad Content Areas	Activity	Duration
To explain the classification of drugs and commonly used drugs in managing common medical conditions.	<ul style="list-style-type: none"> • Commonly used drugs <ul style="list-style-type: none"> - Antipyretics - Analgesics - Antibiotics - NSAIDS - Drugs used in hyperglycemia - Drugs used in hypercholesteremia - Drugs used in cardiac conditions - Drugs used in hypertension • Special nursing considerations in administering drugs • Health education 	02 (L)	02

Teaching/ Learning activities: Lecture /Tutorials / Small group discussions/ Practicals
(Demonstrations and return demonstrations)

Assessments:

Continuous Assessment I : (end of Term 2 Year 1) OSPE(10 stations) - 40%
 BScHons (Nursing) Part 1 Examination (end of Term 3 Year 1)

Clinical skills assessment:	In practice - 20 minutes	- 45%
	Viva - 10 minutes	- 15%

Recommended Books:

- Karch, A.M., Focus on Nursing Pharmacology, 8th Edition
- Vallerand, A.H., Nursing Pharmacology
- Paul, B & Deborah, R. Essentials of Pharmacology For Nurses, 2nd Edition, McGraw Hill Education (UK)