



COURSE OUTLINE: PNG250 - PHARMACOLOGY II

Prepared: Gwen DiAngelo, Donna Alexander, updated by Andrew Metcalfe 2020

Approved: Bob Chapman, Chair, Health

Course Code: Title	PNG250: PHARMACOLOGY II
Program Number: Name	3024: PRACTICAL NURSING
Department:	PRACTICAL NURSING
Academic Year:	2022-2023
Course Description:	This course builds upon the concepts presented in PNG234 (Pharmacology I) and introduces additional select medication classifications as they relate to individuals experiencing illnesses/medical situations across the lifespan. The learner will study the mechanism of action, therapeutic indications and nursing responsibilities (including drug monitoring and management of adverse drug effects). In addition, this course will emphasize common medication dosages, drug calculations, nursing legislation and standards and health teaching. Furthermore, this course will detail the professional implications of medication administration, as learners prepare for their pre-graduate experience. This course is comprised of in-class lecture (theory) and simulation, which provides the learner the opportunity to discuss all pharmacologic concepts.
Total Credits:	3
Hours/Week:	3
Total Hours:	30
Prerequisites:	PNG233, PNG234, PNG236, PNG238
Corequisites:	PNG251, PNG252, PNG253
Vocational Learning Outcomes (VLO's) addressed in this course:	3024 - PRACTICAL NURSING
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 1 Communicate therapeutically with clients and members of the health care team.
	VLO 2 Assess clients across the life span, in a systematic and holistic manner.
	VLO 3 Plan safe and competent nursing care, based upon a thorough analysis of available data and evidence-informed practice guidelines.
	VLO 4 Select and perform nursing interventions using clinical judgment, in collaboration with the client and, where appropriate, the health care team, that promote health and well-being, prevent disease and injury, maintain and/or restore health, promote rehabilitation, and/or provide palliation.
	VLO 5 Evaluate the outcomes resulting from all interventions in the nurse-client interaction and modify the plan of care as required.
	VLO 6 Act equitably and justly with clients and members of the health care team.
	VLO 7 Adapt to a variety of health care settings, using different leadership skills and styles as appropriate to each setting.
	VLO 9 Practise in a self-regulated, professional and ethical manner, complying with relevant legislation and with the standards of both the regulatory body and the practice setting to provide safe and competent client care.
	Essential Employability



Skills (EES) addressed in this course:	<p>that fulfills the purpose and meets the needs of the audience.</p> <p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 3 Execute mathematical operations accurately.</p> <p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p> <p>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>EES 11 Take responsibility for ones own actions, decisions, and consequences.</p>								
Course Evaluation:	<p>Passing Grade: 60%, C</p> <p>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</p>								
Other Course Evaluation & Assessment Requirements:	<p>College of Nurses of Ontario (CNO) Registered Practical Nurse (RPN) Entry-to-Practice Competencies (ETPs) 1, 2, 18, 61, 62</p>								
Books and Required Resources:	<p>Roach`s Intro to Clinical Pharmacology by Ford Publisher: Lippincott Williams & Wilkins Edition: 11th ISBN: 9781496343567</p>								
Course Outcomes and Learning Objectives:	<table border="1"> <thead> <tr> <th data-bbox="508 734 800 769">Course Outcome 1</th> <th data-bbox="808 734 1435 769">Learning Objectives for Course Outcome 1</th> </tr> </thead> <tbody> <tr> <td data-bbox="508 777 800 1359"> 1. Relate the principles of basic pharmacological theory to the nursing process and the administration of medications. CNO ETP RPN 1, 2,8, 18, 61, 62 </td> <td data-bbox="808 777 1435 1359"> 1.1 Apply the nursing process to the administration of medications across the lifespan. 1.2 Apply the common terms used in pharmacology including the concepts of pharmaceuticals, pharmacokinetics, pharmacodynamics and pharmacotherapeutics. 1.3 Discuss the lifespan considerations associated with medication administration (including pregnant women, breastfeeding, infants, children and older adults). 1.4 Incorporate Canadian legislation which governs the administration of medication (including the Food and Drug Act and Controlled Substances Act. 1.5 Discuss the importance of patient education as a component of medication administration (including prescription medications, over the counter medications and natural health products). 1.6 Understand the importance of medication administration in the treatment plan. 1.7 Recognize assessment needs of the patient undergoing drug therapy. 1.8 Identify how drug therapy is integrated into the safe evidence-based care of clients. 1.9 Recognize gender, ethnic, and cultural influences impacting drug therapy. </td> </tr> <tr> <th data-bbox="508 1367 800 1402">Course Outcome 2</th> <th data-bbox="808 1367 1435 1402">Learning Objectives for Course Outcome 2</th> </tr> <tr> <td data-bbox="508 1411 800 1449"> 2. Explain the action, therapeutic indications and </td> <td data-bbox="808 1411 1435 1449"> 2.1 Discuss medications that directly affect the genitourinary system (including diuretics, anticholinergic, antispasmodics). </td> </tr> </tbody> </table>	Course Outcome 1	Learning Objectives for Course Outcome 1	1. Relate the principles of basic pharmacological theory to the nursing process and the administration of medications. CNO ETP RPN 1, 2,8, 18, 61, 62	1.1 Apply the nursing process to the administration of medications across the lifespan. 1.2 Apply the common terms used in pharmacology including the concepts of pharmaceuticals, pharmacokinetics, pharmacodynamics and pharmacotherapeutics. 1.3 Discuss the lifespan considerations associated with medication administration (including pregnant women, breastfeeding, infants, children and older adults). 1.4 Incorporate Canadian legislation which governs the administration of medication (including the Food and Drug Act and Controlled Substances Act. 1.5 Discuss the importance of patient education as a component of medication administration (including prescription medications, over the counter medications and natural health products). 1.6 Understand the importance of medication administration in the treatment plan. 1.7 Recognize assessment needs of the patient undergoing drug therapy. 1.8 Identify how drug therapy is integrated into the safe evidence-based care of clients. 1.9 Recognize gender, ethnic, and cultural influences impacting drug therapy.	Course Outcome 2	Learning Objectives for Course Outcome 2	2. Explain the action, therapeutic indications and	2.1 Discuss medications that directly affect the genitourinary system (including diuretics, anticholinergic, antispasmodics).
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<p>nursing responsibilities of select medication classifications. CNO ETP RPN 1, 2, 61, 62</p>	<p>2.2 Discuss medications that directly affect the neuromuscular system (including anticonvulsants, CNS stimulants, osmotic diuretics, antiparkinsonian agents, cholinesterase inhibitors, skeletal muscle relaxants). 2.3 Discuss medications that directly affect the male and female reproductive systems (including hormones, contraceptives). 2.4 Discuss medications that directly affect the immune system (including immunosuppressants, immunizations). 2.5 Discuss medications that directly affect the endocrine system (including antidiabetic agents, thyroid and antithyroid agents antidiuretic hormones, adrenocorticosteroids, parathyroid agents). 2.6 Discuss the medications used in the treatment of cancer (e.g. antineoplastics). 2.7 Discuss the pharmacological management of the side effects associated with anti-neoplastic agents. 2.8 Discuss the medications used in the treatment of psychiatric conditions (including antipsychotics, anxiolytics, antidepressants, hypnotics, mood stabilizers). 2.9 Discuss the medications used in the treatment of attention disorders and dementia. 2.10 Discuss the nursing responsibilities associated with the medications that are used in the treatment of alcohol withdrawal/substance abuse. 2.11 Discuss the nursing responsibilities associated with the medications that are used in the treatment of an allergic reaction.</p>
<p>Course Outcome 3</p>	<p>Learning Objectives for Course Outcome 3</p>
<p>3. Apply provincial nursing legislation and standards which impact medication administration and nursing care. CNO ETP RPN 1, 2, 8, 61, 62</p>	<p>3.1 Discuss the ethical principles associated with medication administration. 3.2 Discuss the professional implication of using medical directives. 3.3 Describe the role of effective communication as a component of safe medication administration. 3.4 Compare the role of the Registered Practical Nurse versus the role of the Registered Nurse in the administration of medications. 3.5 Explain the Registered Practical Nurse`s accountability in supervising Unregulated Care Providers who administer medications. 3.7 Explain the process of medication reconciliation. 3.8 Discuss the knowledge of pharmacology and principles of safe medication practice.</p>
<p>Course Outcome 4</p>	<p>Learning Objectives for Course Outcome 4</p>
<p>4. Apply basic math skills required to safely administer medications in the clinical setting to clients across the lifespan.</p>	<p>4.1 Perform basic drug calculations across the lifespan. 4.2 Perform advanced drug calculations across the lifespan. CNO ETP RPN 61, 62</p>



Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Drug Research Assignment	10%
Final Exam	40%
Mid-term Exam	40%
Quizzes (2 each worth 5%)	10%

Date:

December 13, 2022

Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.

