

**QUINSIGAMOND COMMUNITY COLLEGE**  
**PRACTICAL NURSING PROGRAM**

**PNP 222 - CLINICAL PHARMACOLOGY**

**CLASS of 2006**

**COURSE OUTLINE**

**I. COURSE DESCRIPTION**

This course examines the actions, uses, common side effects, adverse reactions, contraindications, and average dosage of the most commonly prescribed drugs, utilizing the framework of the nursing process. Students study drug classifications and the effects of drugs on the body systems, with emphasis on techniques used for solving dosage problems. Students learn three systems of measurement associated with medication administration and dosage calculation.

## **II. LEVEL TWO OBJECTIVES**

- 1. Apply the nursing process when caring for clients with self-care deficits.**
- 2. Collect data to identify specific self-care needs.**
- 3. Apply common nursing diagnoses to communicate identified self-care needs.**
- 4. Identify resources within the community to assist with individual self-care needs.**
- 5. Demonstrate the ability to organize nursing care to meet the universal and/or health care deviation requisites of 2-3 clients.**
- 6. Demonstrate competency in the performance of advanced nursing care skills.**
- 7. Evaluate care given based on stated outcomes.**
- 8. Discuss proposed modifications in client's plan of care.**
- 9. Practice safely in all aspects of nursing care.**
- 10. Utilize principles of effective communication in the delivery of health care.**
- 11. Employ principles of recording.**
- 12. Practice effective communication with clients, families, and health team members.**
- 13. Practice applying critical thinking skills in providing nursing care.**
- 14. Employ principles of teaching to assist clients meet universal and/or health-deviation requisites.**
- 15. Develop interactive skills with other health team members to assist clients meet self-care needs.**
- 16. Compare one's own practice with the role expectations of practical nursing.**
- 17. Relate NAPNES Code of Ethics to client care situations.**

## **III. COURSE OBJECTIVES**

Upon successful completion of the course, the student will be able to:

- 1. Utilize the nursing process when administering medications.**
- 2. Describe the type, uses and general drug actions of non-narcotic analgesics.**
- 3. Explain the actions, uses, side/adverse effects of the several categories of medications used to treat musculoskeletal system disorders.**
- 4. Explain the actions, uses, side/adverse effects of antihistamines, decongestants, antitussives, expectorants, mucolytics and bronchodilators, intranasal steroids and antitubercular drugs.**
- 5. Identify the actions, uses, side/adverse effects of the several categories of antineoplastic drugs.**
- 6. Discuss actions, uses, side/adverse effects of the several categories of drugs utilized in treatment of selected neurologic disorders.**
- 7. Identify commonly used drugs associated with the treatment of selected endocrine disorders.**
- 8. Differentiate between the action, uses, side/adverse effects of insulin and the oral hypoglycemic agents**
- 9. Describe the action, use, and side/adverse effects of cardiotoxic and antiarrhythmic drugs.**
- 10. Discuss the action, uses, side/adverse effects of antianginal and peripheral vasodilating agents.**
- 11. Describe actions, uses, side/adverse effects of the several categories of antihypertensive medications.**

12. Differentiate between the action, uses, side/adverse effects of anticoagulant and thrombolytic drugs.
13. Describe actions, uses, side/adverse effects of the several categories of medications used in the management of Gastrointestinal Disorders.
14. Discuss the action, uses, side/adverse effects of thiazide and related diuretics; carbonic anhydrase inhibitors; loop diuretics; osmotic diuretics and potassium sparing diuretics; sulfonamides and antiinfectives.
15. Discuss the actions and uses of male and female hormones in the treatment of reproductive system disorders.
16. Differentiate between the action and uses of ophthalmic and otic drugs.
17. Identify the various topical, parenteral and oral medications utilized in the treatment of commonly seen skin conditions.
18. Instruct clients/family members with the information necessary to promote compliance with medication regimen.

#### IV. CURRICULUM DESIGN

Clinical Pharmacology is a course of study designed to assist the student to acquire knowledge about medications commonly utilized in the management of clients with acute and chronic medical/surgical conditions. The course content will parallel, and relate to, presentation of modules as given in the PNP 201 course titled "Medical-Surgical Nursing of the Adult Client".

- I. Nursing Process.
- II. Drugs utilized in the treatment of clients with Musculoskeletal Disorders.
- III. Medications used in the treatment of clients with Respiratory System Disorders.
- IV. Drugs utilized in the management of clients with Cancer and Immunological Disorders.
- V. Drugs utilized in the management of clients with Nervous System Disorders.
- VI. Medications used in the treatment of clients with Endocrine Disorders
- VII. Drugs utilized in the management of clients with Cardiovascular Disorders.
- VIII. Drugs utilized in the management of clients with Genito-Urinary Disorders.
- IX. Medications used in the treatment of clients with Gastrointestinal Disorders.
- X. Medications associated with the treatment of clients with Disorders of the Skin and Special Senses.
- XI. Medications associated with the treatment of clients with Emergent Conditions.

Placement: Semester II  
 Course Hours: 30 hours  
 Prerequisite: PNP 111

Curriculum Threads: The curriculum threads are concepts, which appear throughout the curriculum. Each thread develops in complexity from the first semester courses through succeeding courses. The curriculum threads are:

- |                        |  |
|------------------------|--|
| 1. Communication       | 6. Nursing Process                                 |
| 2. Critical Thinking   | 7. Nutrition                                       |
| 3. Cultural Diversity  | 8. Pharmacodynamics                                |
| 4. Health Education    | 9. Safety  |
| 5. Nursing Care Skills | 10. Standards of Practice & Trends in Health Care. |

#### IV. METHOD OF INSTRUCTION

Lecture

Discussion  
Written assignments  
Critical thinking exercises  
Textbooks  
Videos

## V. METHOD OF EVALUATION

Achievement of course objectives are measured by written examinations.  
Criteria for Grading and Evaluation:

Module Exams	80%
Final exam	<u>20%</u>
Total	100%

## VI. TEACHING PERSONNEL

Barbara Dunn, RN, MSN	(508) 854- 2736
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## VII. BIBLIOGRAPHY

### Required:

Curren, Anna, M.; Munday, Laurie D., Math for Meds, Dosages and Solutions, 9th Ed., W.I. Publications, Inc., San Diego, California, 2004

Deglin & Vallerand, Davis Drug Guide for Nurses, 8<sup>th</sup> ed., F. A. Davis, Philadelphia, 2003.

Roach & Scherer, Introductory Clinical Pharmacology, 7<sup>th</sup> ed., Lippincott, New York, 2004.

Roach & Scherer, Introductory Clinical Pharmacology Study Guide, 7<sup>th</sup> ed., Lippincott, New York, 2004.

### Reference:

Timby, Barbara and Smith, Nancy. Introductory Medical-Surgical Nursing 8<sup>th</sup> ed., Lippincott

Williams & Wilkins, Philadelphia, 2003.

Powell-Laney, Sharon. Study Guide to Accompany Timby and Smith's Introductory Medical-Surgical Nursing 8<sup>th</sup> ed., Lippincott Williams & Wilkins, Philadelphia, 2003.

## **MODULE II DRUGS USED IN THE TREATMENT OF CLIENTS WITH MUSCULOSKELETAL DISORDERS**

Learning objective: At the conclusion of this module the student will:

### **Salicylates**

1. Identify the primary action of Salicylates when used for musculoskeletal disorders.
2. Name two disorders for which salicylates are commonly prescribed.
3. Discuss two major adverse reactions commonly associated with salicylate use.
4. Describe two points to be included in a teaching plan for the client taking salicylates.

### **Non-narcotic analgesics**

5. Describe the types, uses and general drug actions of the non-narcotic analgesics.
6. List the general adverse reactions associated with the administration of the non-narcotic analgesics.
7. Use the nursing process when administering a non-narcotic analgesic.
8. Discuss the nursing implications to be considered when administering non-narcotic analgesics.

### **Gold Compounds**

9. Discuss the use of Gold Compounds related to musculoskeletal conditions.
10. Name one drug which is classified as a Gold Compound.

### **Non Steroidal Anti-inflammatory Drugs**

11. Identify three primary actions of nonsteroidal anti-inflammatory drugs.
12. Name the primary adverse reaction associated with the use of nonsteroidal anti-inflammatory drugs.
13. Discuss nursing management when administering a nonsteroidal anti-inflammatory drug.
14. Identify one nursing diagnosis appropriate for the client using a nonsteroidal anti-inflammatory drug.
15. Name four medications which are classified as nonsteroidal anti-inflammatory drugs.

### **Antigout Medications**

16. Identify two drugs used in the treatment of gout.
17. Discuss common adverse reactions associated with the drugs used in the treatment of gout.
18. Apply the nursing process when administering drugs effective against gout.

### **Corticosteroids**

19. Identify the primary action of corticosteroids when used for musculoskeletal conditions.
20. Name one corticosteroid drug commonly used against painful musculoskeletal conditions.
21. Describe a teaching plan appropriate for the client receiving a corticosteroid for treatment of a musculoskeletal condition.





## DISORDERS and CANCER

### A. IMMUNE SEGMENT

Learning objective: At the conclusion of this module the student will:

1. Describe the general actions and uses of antivirals, antiretrovirals, and antifungals.
2. List major adverse reactions associated with these drugs.
3. Identify dose ranges of selected antivirals, antiretrovirals and antifungals.
4. Describe common medications used in treating AIDS and AIDS-related fungal infections.
5. Name one drug in the categories listed: antiviral, antiretroviral and antifungal.
6. Discuss the nursing implications to be considered when administering these drugs.
7. Discuss the nursing process when administering drugs used in the treatment of AIDS and AIDS-related disorders/infections.
8. Discuss specific points to be included in a teaching plan for clients receiving medications to treat immune disorders.

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<p><u>Actions and uses of drugs:</u></p> <ul style="list-style-type: none"> <li>▪ Antivirals</li> <li>▪ Antiretrovirals</li> <li>▪ Antifungus</li> </ul> <p>For each of the above medications, exploration of:</p> <ul style="list-style-type: none"> <li>- actions &amp; uses</li> <li>- adverse reactions</li> <li>- nursing management</li> <li>- nursing process</li> <li>- teaching plan</li> </ul>	<p>Roach Chapter 14, 15 Roach: Student Handbook</p> <p>Critical thinking exercises</p> <p>Clinical objective: To administer medications to selected medical-surgical clients with immune disorders</p>	<p>Written examination</p> <p>Clinical medication experience</p> <p>Clinical conference</p>

## MODULE IV DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH IMMUNE DISORDERS and CANCER

### **B. CANCER SEGMENT**

Learning objective: At the conclusion of this module, the student will:

1. Identify the types of drugs utilized in the treatment of neoplastic disease.
2. List common adverse reactions associated with the administration of antineoplastic drugs.
3. Describe nursing management when administering an antineoplastic drug.
4. Apply the nursing process when administering an antineoplastic drug.
5. Define the terms antiemetic and antivertigo.
6. Identify the actions, uses and adverse reactions of antiemetic and antivertigo drugs.
7. Discuss nursing management of clients receiving these drugs.
8. Apply the nursing process when administering antiemetic and antivertigo drugs.
9. Identify safety protocols used to teach clients about drug administration.
10. Develop a teaching plan for a patient taking an antineoplastic drug.

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<p><b><u>Actions and uses of drugs:</u></b></p> <ul style="list-style-type: none"> <li>▪ Antineoplastics</li> <li>▪ Antiemetics</li> <li>▪ Antivertigo drugs</li> </ul> <p>For each of the above medications, exploration of:</p> <ul style="list-style-type: none"> <li>- actions &amp; uses</li> <li>- adverse reactions</li> <li>- nursing management</li> <li>- nursing process</li> <li>- teaching plan</li> </ul>	<p>Roach: Chapter 34, 55</p> <p>Roach: Student Workbook</p> <p>Critical thinking exercises</p> <p>Clinical objective: To administer medications to selected medical-surgical clients with immune disorders</p>	<p>Written examination</p> <p>Clinical medication experience</p> <p>Clinical conference</p>

## **MODULE V DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH NERVOUS SYSTEM DISORDERS**

**Learning objective: At the conclusion of this module the student will:**

### **AntiMigraine Drugs**

- 1. Identify general actions of antimigraine drugs.**
- 2. Describe common adverse reactions, with administration of antimigraine drugs.**
- 3. Apply the nursing process when administering an antimigraine**

### **Anti-convulsant Drugs**

- 4. Identify general actions of anticonvulsant drugs.**
- 5. Describe common adverse reactions associated with the administration of anti-convulsant drugs.**
- 6. Apply the nursing process when administering an anti-convulsant drug.**

### **Antiparkinsonian Drugs and Cholinergic Drugs Relating to Myasthenia Gravis**

- 7. List the major actions of antiparkinsonism drugs and cholinergic drugs relating to myasthenia gravis.**
- 8. Describe general adverse reactions that may accompany administration of these drugs.**
- 9. Apply the nursing process when administering an antiparkinsonism drug or a cholinergic drug relating to myasthenia gravis.**
- 10. Name two examples of medications from the following categories: sedatives, hypnotics, anti-convulsants, antiparkinsonism, and cholinergic drugs relating to myasthenia gravis.**

### **Sedatives/Hypnotics**

- 11. Differentiate between a sedative and hypnotic.**
- 12. Identify the drug actions of barbiturate and nonbarbiturate sedatives and hypnotics.**
- 13. List general adverse reactions that may accompany administration of these drugs.**
- 14. Apply the nursing process when administering a sedative or hypnotic.**

### **Cholinesterase Inhibitors**

- 15. List the uses, general drug actions, general adverse reactions, contraindications, precautions, and interactions associated with the administration of the cholinesterase inhibitors.**
- 16. Discuss important preadministration and ongoing assessment activities the nurse should perform on the client taking a cholinesterase inhibitor.**
- 17. Discuss ways to promote an optimal response to therapy, how to manage common adverse reactions, and important points to keep in mind when educating clients about the use of the cholinesterase inhibitors.**

**MODULE V DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH  
NERVOUS SYSTEM DISORDERS - Continued**

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<p><b><u>Anti-convulsant, antiparkinsonian and, cholinergic drugs relating to myasthenia gravis:</u></b></p> <ul style="list-style-type: none"> <li>- actions and uses of these drugs</li> <li>- adverse reactions associated with the administration of these drugs</li> <li>- nursing process applied to a client receiving sedatives, hypnotics, anti-convulsant, antiparkinsonian, or cholinergic drugs relating to myasthenia gravis</li> </ul> <p><b><u>Sedatives, hypnotic drugs:</u></b></p> <ul style="list-style-type: none"> <li>- actions and uses of these drugs</li> <li>- adverse reactions associated with the administration of these drugs</li> <li>- nursing process applied to a client receiving these drugs</li> <li>- nursing management</li> <li>- client teaching plan</li> </ul> <p><b><u>Cholinesterase Inhibitors</u></b></p> <ul style="list-style-type: none"> <li>- actions and uses of these drugs</li> <li>- adverse reactions associated with the administration of these drugs</li> <li>- nursing process applied to a client receiving a cholinesterase inhibitor</li> <li>- nursing management</li> <li>- client teaching plan</li> </ul>	<p>Roach: Chapter 28, 29, 24 (related to myasthenia gravis). Roach: Student Workbook</p> <p>Roach: Chapter 26 Roach: Student Workbook</p> <p>Roach: Chapter 33 Roach: Student Workbook</p> <p>Critical thinking exercises Clinical objective: To administer medication to Selected medical surgical clients, Focusing on drugs specific to Nervous system disorders.</p>	<p>Written examination</p> <p>Clinical medication experience</p> <p>Clinical conference</p>

**MODULE VI MEDICATIONS USED IN THE MANAGEMENT OF CLIENTS WITH**

## **ENDOCRINE DISORDERS.**

**2 hours**

**Learning objective: At the conclusion of this module the student will:**

### **Insulin, the oral hypoglycemic agents and glucagon**

- 1. Describe the action and uses of insulin, the oral hypoglycemic agents and the antagonist glucagon.**
- 2. Differentiate between the primary action of insulin and the primary action of the oral hypoglycemic agents.**
- 3. Distinguish client blood sugar levels with the onset, peak, and duration of action characteristic of both short acting and intermediate acting insulin.**
- 4. Identify three sources of insulin.**
- 5. Describe adverse reactions associated with the administration of insulin.**
- 6. Discuss the following factors associated with nursing management of a client receiving insulin; methods of insulin administration, concentration of insulin, mixing insulin, administering insulin, rotating sites, methods of terminating a hypoglycemic reaction, blood and urine testing.**
- 7. Name, and include dosage range for, the two commonly prescribed oral hypoglycemic agents for the older adult.**
- 8. Describe adverse reactions associated with the administration of oral hypoglycemic agents.**
- 9. Discuss the following factors associated with nursing management of a patient receiving OHA; administration, hypoglycemia, blood and urine testing.**
- 10. Utilize the nursing process when administering insulin or the oral hypoglycemic agents.**
- 11. Identify key points to include when teaching diabetic clients who are taking either insulin or oral hypoglycemic agents.**

### **Thyroid and antithyroid drugs**

- 12. Discuss the role of the thyroid gland in the regulation of physiologic processes.**
- 13. Describe the action and uses of thyroid replacement hormones and antithyroid drugs.**
- 14. List at least two examples of medications from each of the following categories; thyroid hormones, antithyroid preparations and iodine products.**
- 15. Describe the most common adverse reactions associated with the three categories of thyroid medications.**
- 16. Discuss nursing management when administering thyroid medications.**
- 17. Use the nursing process when caring for clients receiving thyroid medications.**
- 18. Identify at least five key points to include when teaching clients about thyroid hormone replacement therapy.**

## **MODULE VI DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH**



## **MODULE VII: DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH CARDIOVASCULAR SYSTEM DISORDERS**

**A. Learning objective:                    At the conclusion of this module the student will:**

### **Anticoagulant Drugs**

- 1.     Discuss the general action of anticoagulant drugs.**
- 2.     List three uses of anticoagulants.**
- 3.     Name the principle adverse reaction associated with the use of anticoagulants.**
- 4.     Discuss the nursing management of the client on anticoagulant medication.**
- 5.     Use the nursing process when administering an anticoagulant.**
- 6.     Differentiate between the use of oral and parenteral anticoagulants.**
- 7.     Identify two anticoagulant antagonists effective against overdose of these drugs.**
- 8.     Name two anticoagulants commonly used for clients with a hematologic disorder.**

### **Thrombolytic Drugs**

- 8.     Discuss the general action of thrombolytic drugs.**
- 9.     List two uses of thrombolytic drugs.**
- 10.    Name the principal adverse reaction associated with the use of thrombolytic drugs.**
- 11.    Discuss the nursing management for the client using thrombolytic drugs.**
- 12.    Use the nursing process when administering a thrombolytic drug.**
- 13.    Identify two thrombolytic drugs commonly used for clients with a hematological disorder.**

### **Peripheral Vasodilating Drugs**

- 14.    Discuss the general action of peripheral vasodilating drugs.**
- 15.    List two uses of peripheral vasodilating drugs.**
- 16.    Name three principal adverse reactions commonly associated with the use of peripheral vasodilating drugs.**
- 17.    Discuss the nursing management for clients using peripheral vasodilating drugs.**
- 18.    Use the nursing process when administering a peripheral vasodilating drugs.**
- 19.    Name two peripheral vasodilating agents.**

### **Anti-hyperlipidemic Drugs**

- 20.    Discuss two ways in which anti-hyperlipidemic drugs lower cholesterol and triglyceride levels.**
- 21.    State the primary use of anti-hyperlipidemic drugs.**
- 22.    Identify adverse reactions commonly associated with the use of anti-hyperlipidemic drugs.**
- 23.    Discuss nursing management for clients using anti-hyperlipidemic drugs.**
- 24.    Use the nursing process when administering an anti-hyperlipidemic drug.**
- 25.    Name three examples of anti-hyperlipidemic drugs.**

**MODULE VII: DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH  
CARDIOVASCULAR SYSTEM DISORDERS - *Continued***

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<p><b><u>Anticoagulant Drugs</u></b></p> <p><b><u>Thrombolytic Drugs</u></b></p> <p><b><u>Peripheral Vasodilating Drugs</u></b></p> <p><b><u>Anti-hyperlipidemic Drugs</u></b></p> <p><b><u>Iron Salts</u></b></p> <p>For each of the above medications, exploration of:</p> <ul style="list-style-type: none"> <li>- actions and uses</li> <li>- adverse reactions</li> <li>- nursing management</li> <li>- nursing process</li> <li>- teaching plan</li> </ul>	<p>Roach: Chapters 41 (pgs. 388-393) 43, 44, 45</p> <p>Roach: Student Workbook Math for Meds Chapter 21</p> <p>Lecture and discussion</p> <p>Critical thinking exercises</p> <p>Clinical objective:</p> <p>To administer medications to selected medical/surgical clients with disorders of the blood.</p>	<p>Written examination</p> <p>Clinical medication experience</p> <p>Clinical conference</p>

**MODULE VII: DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH  
CARDIOVASCULAR SYSTEM DISORDERS - *Continued***

- B. Learning objective: At the conclusion of this module the student will:**
1. Describe the actions of cardiotonics, antidysrhythmic, antianginal and antihypertensive drugs.
  2. Discuss the uses of cardiotonics, antidysrhythmic, antianginals and antihypertensive drugs.
  3. Identify dose ranges of selected antianginals, cardiotonic, antidysrhythmic and antihypertensive drugs.
  4. List symptoms of digitalis toxicity.
  5. Describe adverse reactions seen with the administration of an antiarrhythmic drug.
  6. Discuss the nursing implications to be considered when administering an antihypertensive drug.
  7. Apply the nursing process when administering antianginal, cardiotonics, antidysrhythmic and antihypertensive drugs.
  8. Discuss specific points to be included in a teaching plan for clients receiving antianginals, cardiotonics, antidysrhythmic and antihypertensive drugs.
  9. List some nursing diagnoses particular to a client taking adrenergic blocking drugs.
  10. Discuss ways to promote an optimal response to therapy, how to manage common adverse reactions, nursing actions that may be taken to minimize orthostatic or postural hypotension, and important points to keep in mind when educating clients about the use of adrenergic blocking agents.

**Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10**

CONTENT	LEARNING ACTIVITY	EVALUATION
<p><b><u>Actions and uses of drugs:</u></b></p> <ul style="list-style-type: none"> <li>▪ Antianginals</li> <li>▪ Cardiotonics</li> <li>▪ Antidysrhythmics</li> <li>▪ Antihypertensives</li> </ul> <p>Dose/ranges of selected drugs Digitalis toxicity Adverse reactions of antihypertensive, antianginal and antidysrhythmics Nursing process Teaching implications for client/family</p> <p><b><u>Adrenergic Blocking Agents</u></b></p> <ul style="list-style-type: none"> <li>- actions and uses of these drugs</li> <li>- adverse reactions associated with the administration of these drugs</li> <li>- nursing process applied to a client receiving a cholinesterase inhibitor</li> <li>- nursing management</li> <li>- client teaching plan</li> </ul>	<p>Roach: Chapters 39, 40, 41 (pgs, 380-388), 42</p> <p>Roach: Student Handbook</p> <p>.</p> <p>Roach: Chapter 23 Roach: Student Handbook</p> <p>Critical thinking exercises</p> <p>Clinical objective: To administer medication to Selected medical/surgical clients, With cardiovascular disorders</p>	<p>Written examination</p> <p>Clinical medication experience</p> <p>Clinical conference</p>

**MODULE VIII DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH  
GENITO-URINARY DISORDERS 4 hrs**

Learning objective      At the conclusion of this module the student will:

**Part A: Urinary Tract Disorders**

1. Describe the general uses and actions of sulfonamides.
2. List adverse reactions associated with the use of sulfonamides.
3. Differentiate among the general types, actions, and uses of diuretics.
4. Discuss the major adverse reactions associated with the administration of a diuretic.
5. List the general actions and use of the urinary anti-infectives.
6. Describe adverse reactions associated with the administration of the urinary anti-infectives.
7. Discuss the nursing implications to be considered when administering a drug to treat a urinary tract disorder.
8. Use the nursing process when administering drugs to treat urinary tract disorders.
9. Name two medications from each of the following categories:
  - sulfonamides
  - urinary anti-infectives
10. Differentiate among the several types of diuretics and name two diuretics from each category.

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<b>Sulfonamides</b>  <b>Diuretics</b>  <b>Urinary anti-infectives</b>  <b>Side effects/adverse reactions associated with diuretics and medications used to treat urinary tract disorders</b> <b>Actions and uses of these drugs</b> <b>Nursing implications</b> <b>Nursing process related to administration of above medications that treat urinary tract disorders</b> <b>Teaching plan for clients taking diuretics, sulfonamides or urinary anti-infectives</b>	<b>Roach: Chapters 6, 46, 47</b>  <b>Roach: Student Workbook</b>  <b>Lecture and discussion</b>  <b>Critical thinking exercises</b>  <b>Clinical objective: To administer medications to selected medical/surgical clients requiring diuretic medications or with urinary tract disorders</b>	<b>Written examination</b>          <b>Clinical medication experience</b>   <b>Clinical conference</b>

**MODULE VIII DRUGS UTILIZED IN THE MANAGEMENT OF CLIENTS WITH**

## GENITO-URINARY DISORDERS

### Part B: Reproductive System Disorders

1. Discuss the medical uses of the male and female hormones.
2. Describe the major adverse reactions associated with the administration of male and female hormones.
3. List the commonly used anti-infectives employed in the treatment of sexually transmitted diseases.
4. Describe adverse reactions associated with the administration of anti-infectives.
5. Use the nursing process when administering anti-infective medications.
6. Discuss nursing management associated with the administration of male and female hormones.
7. Use the nursing process when administering male or female hormones.
8. Name at least two female hormones and two male hormones.
9. Discuss specific points to be included in a teaching plan for clients receiving anti-infectives and/or hormone drugs.
10. Describe nursing responsibility related to drugs used in the treatment of disorders of male/female reproductive system.

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<b>Male and female hormones/ Anti-infectives</b>  <b>Androgen hormone antagonists</b>  <b>Uses, actions, adverse reactions and nursing management</b>  <b>Nursing process applied to a client receiving a hormone/anti- infective.</b>  <b>Miscellaneous drugs</b>	<b>Roach: Chapter 52, 53</b>  <b>Roach: Student Workbook</b>   <b>Critical thinking exercises</b> <b>Clinical objective:</b> <b>To administer medications to selected medical/surgical clients with disorders of the reproductive system</b>	<b>Written examination</b>     <b>Clinical medication experience</b>  <b>Clinical conference</b>

**MODULE IX MEDICATIONS USED IN THE TREATMENT OF CLIENTS WITH  
GASTROINTESTINAL DISORDERS. 2 hrs**

Learning objective: At the conclusion of this module the student will:

**Antacids**

1. Discuss the general action of antacids.
2. Identify the one primary use of antacids.
3. Differentiate between the adverse effects of magnesium-containing antacids and aluminum-containing antacids.
4. Relate timing of antacid administration to administration of other medications.
5. Use the nursing process when administering an antacid.
6. Name one magnesium containing antacid and one aluminum-containing antacid.

**Gastrointestinal Stimulants**

7. Differentiate between the action and uses of gastrointestinal stimulants.
8. Describe adverse reactions associated with these drugs.
9. Discuss nursing management of clients receiving gastrointestinal stimulants.
10. Use the nursing process when administering these drugs.
11. Name two gastrointestinal stimulant drugs.

**Histamine H<sub>2</sub> Antagonists**

10. Describe the primary action of these drugs.
11. Identify the three conditions for which H<sub>2</sub> Antagonists are prescribed.
14. Discuss adverse reactions to these drugs.
15. Use the nursing process when administering Histamine H<sub>2</sub> Antagonists.
16. Name four Histamine H<sub>2</sub> Antagonists

**Antidiarrheals**

17. Identify the one common action of antidiarrheal medications.
18. Discuss adverse effects associated with Diphenoxylate.
19. Discuss nursing management of a client receiving antidiarrheal medications.
20. Use the nursing process when administering these drugs.
21. Name two antidiarrheal agents.

**Antiflatulents**

22. Differentiate between the two actions of antiflatulent drugs.
23. Name the one most common antiflatulent drug.

**Digestive Enzymes**

24. Describe the action and use of digestive enzymes.
25. Discuss nursing management of a client receiving digestive enzymes.
26. Use the nursing process when administering these drugs.

**Emetics**

27. Name two emetic drugs.
28. Differentiate between the action of each.
29. Differentiate between situations in which emetics are safe to use and those situations in which emetic drugs should not be used.

**MODULE IX MEDICATIONS USED IN THE TREATMENT OF CLIENTS WITH GASTROINTESTINAL DISORDERS - *continued.***

**Laxatives**

30. Discuss the action and use of each of the following types of laxatives: bulk-producing, emollient, irritant or stimulant and saline laxatives, also fecal softeners and hyperosmolar agents.
31. Identify the two most common adverse effects associated with laxative use.
32. Discuss what is meant by the "laxative habit".
33. Describe nursing management of clients receiving laxative medications.
34. Use the nursing process when administering laxatives.
35. Identify five key points that must be included when teaching clients and family members about laxative use.
36. Name at least one medication from each of the laxative categories identified in objective #30.

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<p><u>Antacids</u></p> <p><u>Gastrointestinal stimulants</u></p> <p><u>Histamine H<sub>2</sub> antagonists</u></p> <p><u>Antidiarrheals</u></p> <p><u>Antiflatulents</u></p> <p><u>Emetics</u></p> <p><u>Laxatives</u></p> <p><u>Pancreatic Enzymes</u></p>	<p>Roach: Chapter 48</p> <p>Roach: Student Workbook</p> <p>Lecture and discussion</p>	<p>Written examination</p>
<p>For each of the above types of medications, exploration of:</p> <ul style="list-style-type: none"> <li>- action and uses</li> <li>- adverse reactions</li> <li>- nursing management</li> <li>- nursing process</li> <li>- teaching plan</li> </ul>	<p>Critical thinking exercises</p> <p>Clinical objective: To administer medications to Selected medical/surgical clients With gastrointestinal disorders.</p>	<p>Clinical medication experience</p> <p>Clinical conference</p>

## MODULE X      MEDICATIONS ASSOCIATED WITH THE TREATMENT OF CLIENTS WITH DISORDERS OF THE SKIN AND SPECIAL SENSES.

Learning objective: At the conclusion of this module the student will:

1. Discuss the actions and uses of otic and ophthalmic preparations.
2. Describe the adverse reactions associated with the use of otic and ophthalmic preparations.
3. Discuss the nursing management of a client receiving an otic or ophthalmic preparation.
4. Use the nursing process when administering an otic or ophthalmic preparation.
5. Discuss the actions and uses of drugs used in the treatment of skin disorders.
6. Describe adverse reactions associated with medications used in the treatment of skin disorders.
7. Discuss the nursing implications to be considered when administering topical medications.
8. Use the nursing process when administering drugs utilized in the treatment of skin disorders.
9. Name one medication from each of the following categories:
  - otic preparations
  - ophthalmic preparations
  - topical medications

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<u>Otic preparations</u> <u>Ophthalmic preparations</u> <u>Topical medications</u>  Actions and uses of medications used for disorders of the skin and special senses Adverse reactions associated with administration of these drugs Nursing process applied to a client receiving medications for disorders of the skin and special senses. Teaching plan for clients requiring otic, ophthalmic and topical medications. Allergic and skin testing Examples	Roach: Chapters 56, 57 Roach: Student Workbook  Critical thinking exercises  Clinical objective:  To administer medications to Selected medical/surgical clients With disorders of the skin and Special senses.	Written examination   Clinical medication experience  Clinical conference

## MODULE XI MEDICATIONS ASSOCIATED WITH THE TREATMENT OF CLIENTS WITH EMERGENT CONDITIONS.

Learning objective: At the conclusion of this module the student will:

1. Discuss the general action of adrenergic drugs.
2. Discuss the use of adrenergic drugs as treatment for emergency situations.
3. Describe adverse reactions associated with the use of these drugs.
4. Discuss two (2) vaccines which may be potentially utilized to combat bio-terrorism.

Threads: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

CONTENT	LEARNING ACTIVITY	EVALUATION
<u>Adrenergic Drugs</u> -actions and uses of these drugs -adverse reactions associated with administration of these drugs -nursing management  <u>Selected Immunologic Agents</u>	Roach: Chapter 22  Handouts  Critical thinking exercises	Written examination   Clinical medication experience  Clinical conference

**PNP 222 EXAM SCHEDULE DAYS**

<b><u>MODULE</u></b>	<b><u>DATE</u></b>
<b>Drugs used with:</b>	
I.	
II. Musculoskeletal	1/23/06
III. Respiratory	1/30/06
IV. Cancer/Immune	2/06/06
V. Nervous System	2/15/06
VI. Endocrine	2/27/06
VII. Hematologic (Blood) Cardiac Segment	3/06/06 3/20/06
VIII. Genitourinary	4/03/06
IX. Gastrointestinal System	4/12/06
X. Sensory	4/19/06
<b>FINAL EXAM (INCLUDING MODULE XI Emergent)</b>	<b>4/26/06</b>

**PNP 222 EXAM SCHEDULE INTERCARE**

<b><u>MODULE</u></b>	<b><u>DATE</u></b>
<b>Drugs used with:</b>	
I.	
II. <b>Musculoskeletal</b>	<b>1/25/06</b>
III. <b>Respiratory</b>	<b>2/01/06</b>
IV. <b>Cancer/Immune</b>	<b>2/08/06</b>
VI. <b>Nervous System</b>	<b>2/22/06</b>
VI. <b>Endocrine</b>	<b>3/01/06</b>
VII. <b>Hematologic (Blood)</b>	<b>3/08/06</b>
<b>Cardiac Segment</b>	<b>3/22/06</b>
VIII. <b>Genitourinary</b>	<b>4/05/06</b>
IX. <b>Gastrointestinal System</b>	<b>4/12/06</b>
X. <b>Sensory</b>	<b>4/19/06</b>
<b>FINAL EXAM (INCLUDING MODULE XI Emergent)</b>	<b>4/27/06</b>