

# KINGSBOROUGH COMMUNITY COLLEGE

of  
The City University of New York  
Department of Nursing

Nursing 21 Nursing the Ill Adult I

Prerequisites: NUR 17, 18

Pre or Corequisite: BIO 51

NOTE: BIO 51 must be taken before or with NUR 21.

Nursing students cannot continue in NUR 21 if they withdraw from BIO 51.

Course Syllabus – 2009-2010

Credit Hours: 9 credits. 16 hours

## Catalog Description

Nursing the adult client with common recurring health problems includes nursing interventions based on physiological and psychological needs of adult patients.

Laboratory sessions are on campus and in hospitals or other health agencies.

## Course Overview

This course is designed to build on concepts, facts, principles, and experiences presented in Fundamentals of Nursing: Man as a Holistic Being. Maslow's Hierarchy of Needs, the health-illness continuum, and the nursing process. It focuses on nursing the adult client with Acute/Chronic Health Alterations, in the areas of immune, respiratory, cardiovascular, endocrine/metabolic, gastrointestinal, integumentary, musculoskeletal and renal/urinary disorders. Classroom instruction and laboratory sessions, at the college, in the community and in selected health agencies, are held weekly throughout the semester. During the college laboratory, concepts and principles discussed in previous classes are used as the basis for performing therapeutic nursing interventions. The community and other health agency experiences are utilized to extend learning. Each clinical experience is preceded and followed by a conference where the objectives for that learning experience are discussed and evaluated. Individual and group assignments are utilized for laboratory experiences. Class work for the typical week consists of: five (5) hours of classroom instruction, eleven (11) hours of community and health agency experiences. It is essential for students to engage in additional practice for further development of skills. Provisions are available for additional time in the college laboratory for practice.

**Course Objectives:** Upon completion of the course, the student will:

1. Apply knowledge from the biological, physical and behavioral sciences in assessing the adult client experiencing acute and chronic health alterations.
2. Include the influence of culture in the delivery of nursing care.
3. Demonstrate knowledge of adaptive responses of adult clients experiencing acute and chronic health alterations.
4. Further develop critical thinking skills in the application of the nursing process.
5. Demonstrate the ability to use the nursing process in assisting the adult client across the health-illness continuum.
6. Communicate accurately and effectively with adult clients and health team members.
7. Demonstrate appropriate behavior based on legal regulations and ethical guidelines of nursing practice.
8. Apply principles of safety when caring for the adult client.
9. Demonstrate competencies in performing therapeutic nursing interventions.
10. Apply knowledge of pharmacological agents in the administration of medications.
11. Apply teaching learning principles to adult clients across the health illness continuum
12. Identify the need for community resources for adult clients.
13. Utilize organizational skills in the management of nursing care.

NUR 21

Topical Outline

Unit I - Orientation to Nursing Care of the Ill Adult I

Unit II - Assessment & Management of the client who has a Fluid and Electrolyte Imbalance

Unit III - Assessment & Management of the client who has a Respiratory Disorder

Unit IV - Assessment & Management of the client who has a Cardiovascular Disorder

Unit V - Assessment & Management of the client who has a Gastrointestinal Disorder

Unit VI - Assessment & Management of the Perioperative Client

Unit VII - Assessment & Management of the client who has a Metabolic/Endocrine Disorder

Unit VIII - Assessment & Management of the client who has a Genitourinary Disorder

Unit IX - Assessment & Management of the client who has a Immune Response Disorder

Unit X - Assessment & Management of the client who has an Integumentary and Muscular Skeletal Disorder

Teaching Strategies

Lecture Discussion

Simulated Laboratory Experiences

Demonstration/Return Demonstration

Case Studies

Multimedia

Computer Assisted Instruction

Pre and Post Conference

Health Agency Experiences

NUR 21

Course Requirements

**Textbooks**

### Course required textbooks:

Ignatavicius, Donna & Workman, M. Linda. (2010). Medical Surgical Nursing. Patient Centered Collaborative Care, 6<sup>th</sup> Edition, Elsevier/Saunders

### Program Required texts:

Carpenito, L. (2007) Nursing Diagnosis Handbook, 12<sup>th</sup> Edition. Lippincott.

Abrams, A. C. (2007) Clinical Drug Therapy, 9<sup>th</sup> edition, Lippincott.

Dudek, Susan G (2006) Nutrition Handbook for Nursing Practice, 5<sup>th</sup> Edition, Philadelphia, Pa: J.B. Lippincott.

Thomas, Clayton L, editor. (2009) Taber's Cyclopedic Medical Dictionary, 21<sup>st</sup> edition. Philadelphia, Pa. F.A, Davis Company

LeFevre-Key, Joyce (2010) Laboratory and Diagnostic Tests with Nursing Implications, Pearson

Carpenito, L. (2006). Nursing Diagnosis Handbook, 12<sup>th</sup> Edition, Philadelphia, Pa: Lippincott.

### Optional References

Deglen, Judith Hopter and Vallerand, April Hazard (2004) Med Notes, Nurses= Pocket Pharmacology Guide, Philadelphia, Pa: F.A. Davis Company.

Hopkins, Tracey & Myers, Ehren, (2008) MedSurg Notes Nurse's Clinical Pocket Guide, 2<sup>nd</sup> Edition, Philadelphia, PA: F.A. Davis Company.

Springhouse, Nursing Drug Guide, 9<sup>th</sup> Edition, (2008).

## 2. Attendance

Complete participation in class is possible only when students are able to focus attention on the class, therefore entering class after it has begun is disrespectful to Faculty and classmates. Talking out of turn or exhibiting other disruptive behaviors is not tolerated and students will be asked to leave the classroom or lab. All pagers, wireless phones, electronic games, radios, tape or CD players or other devices that generate sound must be turned off when any member of the academic community enters a classroom. Cellular devices are allowed to be on in the classroom only if the owner is using the caller ID, voice messages or a vibrating battery or universal clip mechanism. **NO TEXTING IS ALLOWED AT ANY TIME DURING CLASS AND/OR LABS.** Members of the academic community must exit the classroom to make or receive calls.

A student is deemed excessively absent in any course when he or she has been absent 15% of the number of contact hours a class meets during a semester. **More than five hours lecture, one campus lab or one agency laboratory experiences constitute excessive absence in nursing 21.** When a student is excessively absent, a grade of "W" or "WU" will be assigned as described in the college catalogue.

Attendance at pre and post conference for laboratory experience is required. Absence from either pre or post conference constitutes an absence for the day's experience.

Fatigue can certainly impair a health care worker's ability to provide safe, professional nursing care. Thus KCC 's Nursing Department states : All students need to carefully assess his/her level of fatigue, school requirements in terms of lecture, on-campus labs and clinical experiences and own work schedules. This assessment should carefully consider the potential impact of excessive employment on his/her ability to provide safe, professional nursing care. Each student has an ethical responsibility to ensure that fatigue does not negatively impact student nurse responsibilities.

## 3. Malpractice Insurance, Health Clearance and CPR Certification

Students are required to have malpractice insurance, health clearance and CPR certification prior to registration. During the semester, any change in the student's health clearance (e.g. serious illness, accident, pregnancy, etc.) necessitates evaluation by student health service. Student responsibility includes notification of the clinical instructor and course coordinator. Health clearance must be maintained to continue course enrollment.

4. Evaluation

*Grades will be calculated according to college policy as follows:*

A+ 97 - 100%	A 93 - 96%	A- 90 - 92
B+ 87 - 89%	B 83 - 86%	B- 80 - 82
C+ 78 - 79%	C 75 - 77%	C- 70 - 74
D+ 66 - 69%	D 60 - 65%	
F 59% and below		
INC -Incomplete (counts as an F unless work is completed within six months)		
WU -Withdrew Unofficially (counts as failure)		
W -Withdrew without penalty		

**Nursing 21 Grades will be determined as described below:**

Lecture Examinations average (5)	60%
Final Examination	40%
Nursing Care Plans	Satisfactory/ unsatisfactory
Clinical Competency	Satisfactory/ unsatisfactory
Teaching Plan	Satisfactory/ unsatisfactory
Reaction Papers	Satisfactory/ unsatisfactory

**NOTE WELL: Completion of the mandatory NLN examination as scheduled is required. Failure to take the exam as scheduled will result in a grade of incomplete for the course.**

**All Students must use the Test Taking Strategies Program located in M220 within the first two weeks of the course.**

Student's performance in health agency experiences and clinical competencies will be evaluated as satisfactory or unsatisfactory. Performance that has been designated as unsatisfactory at the end of the course will result in failure of the course.

Nursing assessments, nursing care plan and narrative nursing notes must be submitted weekly. At least three satisfactory sets are necessary for course completion.

Students who do not take an exam on the scheduled date are required to take a makeup. All makeup exams will be given at the end of the semester. Students who fail to take the scheduled makeup exam will receive a grade of zero for that test.

All written assignments must comply with college standards for written work. Written assignments are to be turned in during the class period on the date that they are due.

All assignments, numerically or "U/S" graded, must be handed in by the end of the course to complete the requirements of the course. A late assignment will meet the requirements of the course but will not receive full credit. If written assignments are not submitted by the end of the course, the student will receive a grade of "F" for the course.

A conference with the instructor is required at mid-semester, and at the end of the course at which time the student's progress in the course will be discussed. In addition, students may initiate conferences with the instructor at other times.

Clinical Competency:

Student must demonstrate satisfactory performance of the following skills:

- I. Comprehensive physical assessment.
- II. IVPB administration.
- III. Suctioning.
- IV. Nursing care plan development.

5. Clinical Agency Experience Requirements

To fulfill the clinical agency experience requirements, the student will:

- a. be on time for the scheduled pre-conference in full uniform.
- b. have a written nursing care plan for the assigned client as designated.
- c. have drug information for the assigned client's medication needs.
- d. attend and participate in pre and post conferences.
- e. attend a practice laboratory at the college when requested to do so by the clinical instructor.
- f. students may not bring audio or visual recording devices, or cellular phones during clinical agency experience.

If these requirements are not met, the student may be requested to leave the clinical area; which will be considered an absence.

6. Dress Requirements: Students must present themselves as professional role models. "In Uniform" refers to standard uniform of KCC, Department of Nursing:

1. Man - white surgical shirt, matching trousers, hose and shoes.
2. Women - knee length dress or pantsuit, plain white or sheer opaque hose and closed white nursing shoes.
3. The uniform is to be properly fitted, clean, pressed and/or in good repair.
4. Current KCC Student photo ID card is to be worn.
5. Watch with second hand.
6. Bandage scissors.
7. Stethoscope.
8. No jewelry other than plain wedding ring.
9. Nails should not extend beyond the fingertips and should be rounded and clean. Extension, acrylics or nail tips are not permitted.
10. Hair is to be clean, neat, off the face and above the collar line. Decorative and painted hair ornaments are not permitted.
11. Subdued makeup.

Dress requirements must be met prior to leaving the locker area and maintained until returning to locker area.

Drug Calculation Policy:

Nursing 17 "Drug Calculation in Nursing" is a pre or co-requisite of Nursing 18, and a pre-requisite to all other Nursing Courses. Throughout the rest of the program, drug knowledge and skills will be integrated and tested in every Nursing Course.

**Effective Fall 2009      Criteria for retention in the Nursing Program mandates that students:**

1. Earn a minimum of a "C" grade in every required Nursing and co-requisite course. **Students who achieve a C- grade in a required nursing course may apply to repeat the course one time only in the semester immediately following, subject to space availability. The online "Intent to Return to Nursing Course" form** must be completed and include a plan for success that demonstrates significant changes in how they will approach the course when repeated. Only one required nursing course may be repeated.
2. Students who enter Nursing 18 **MUST** complete the Nursing Program within four years from the date of entry into this course. Any student who has not attended required nursing courses for two or more consecutive semesters cannot be readmitted into the Nursing Program unless qualifying examinations have been passed in the required nursing courses previously successfully completed. Qualifying examinations may be taken only once.

(Required nursing courses: nursing 17, 18, 19, 20, 21, 22, 23, 24. Co-requisite courses: biology 12, biology 51, English 24, psychology 32, sociology 31)

(1993; revised 2003; revised 2008; revised 2009)

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
Upon completion of the unit the learner will be able to:		Nursing 21 Syllabi Course Outline Dates to Remember	<b>College Lab # 1</b>
1. Identify course requirements.	1. <b><u>OVERVIEW</u></b> 1.1 Course overview 1.2 Course syllabi 1.3 Course requirements	Review: N18, PSY11 & 32 BIO 11 & 12	The learner will: 1. Discuss the components of a client assessment. 2. Identify arterial pulse locations. 3. Demonstrate palpation of arterial pulses. 4. Describe normal and adventitious breath sounds. 5. Demonstrate measurement of oxygen saturation. 6. Describe normal and abnormal heart sounds. 7. Identify correct landmarks for heart sounds. 8. Auscultate lung sounds. 9. Describe the principles of abdominal assessment. 10. Demonstrate palpation of the abdomen 11. Auscultate abdomen for bowel sounds.
2. Discuss concepts of health and the physiological and psychological response to illness.	2.1 <b><u>CONCEPTS</u></b> A. Man as a Holistic Being B. Maslow's Hierarchy of Needs C. Health-Illness Continuum D. Nursing Process E. Stress and Adaptation F. Acute/Chronic Illness G. Developmental Needs	<b><u>Required Readings:</u></b>  Ignatavicius, Donna & Workman, M. Linda. (2006). <u>Medical-Surgical Nursing. Critical Thinking for Collaborative Care.</u> 5 <sup>th</sup> Edition. St Louis, MO: Elsevier Saunders. Chap. 1-5, pp. 2-44 Chap. 13, pp. 170-197 Chap. 14, pp. 199-211 Chap. 15, pp. 213-238	
3. Identify adaptive responses for a client who has physiological and psychological illness.	3.1 <b><u>FACTORS AFFECTING HEALTH/ILLNESS</u></b> A. Developmental needs B. Lifestyle risk factors C. Health maintenance behaviors D. Stages of acute/chronic illness E. Transcultural considerations	Le Fever Kee, Joyce (2005). <u>Laboratory and Diagnostic Tests with Nursing Implications, 7<sup>th</sup> Edition.</u> Upper Saddle River, NJ: Prentice Hall. pp. 83-84, 93-95, 102-103, 119-123, 142-145, 200-206, 336-338 347-351	

**Unit 1                      Orientation to Nursing Care of the Ill Adult I**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
4. Describe the nursing assessment for clients who have physiological and psychological responses to illness.	4.1 <b><u>ASSESSMENT</u></b> A. Nursing B. Physical Assessment C. Diagnostic/Lab Tests D. Legal/Ethical Considerations	<b><u>Required Readings:</u></b>  Dudek, Susan G., (2007) <u>Nutrition Handbook for Nursing Practice</u> , 5 <sup>th</sup> Edition. Philadelphia, PA: Lippincott Co. pp. 347-370	<b>College Lab #2</b>  The Learner will:  1. Describe the principles of administration of .intravenous piggyback medication. 2. Demonstrate the administration of an intravenous piggyback medication. 3. Describe the method of administering medication via normal saline lock. 4. Explain the procedure. for venipuncture/IV access. 5 Describe the principles. of administration of medication via an enteral tube (NG/GT) 6. Demonstrate the administration of medication via NG/GT tube. 7. Describe the method of administering medication via NG/GT tube. 8. Explain the procedure of administering medication via NG/GT tube.
5. Identify nursing diagnoses for clients with physiological and psychological responses to illness.	5.1 <b><u>NURSING DIAGNOSES</u></b> A. Risk for Injury B. Self Care Deficit C. Ineffective Protection D. Ineffective Tissue Perfusion E. Ineffective Coping F. Disturbed Body Image		
6. Develop a plan of care for clients who have physiological and psychological responses to illness.	6.1 <b><u>PLANNING</u></b> A. Expected Outcome Criteria B. Health Promotion Activities C. Therapeutic Interventions		



**UNIT 2A      Assessment & Management of the Client who has a Fluid/Electrolyte Imbalance**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
<p>Upon completion of the unit the learner will be able to:</p>			<p><b>College Lab # 3</b> The Learner will via case study and simulation:</p>
<p>1. Discuss the function, distribution, movement and regulation of fluid and electrolytes</p>	<p>1.1 <b><u>OVERVIEW OF FLUIDS AND ELECTROLYTES</u></b>            A. Review fluid &amp; electrolytes structure &amp; function            B. Definitions            C. Pathophysiology            D. Etiological factors            E. Complications                a) Fluid &amp; electrolyte imbalances                b) Shock</p>	<p><u>Review:</u> BIO 11/12 fluids and electrolytes</p> <p><b><u>Required Readings:</u></b></p> <p>Ignatavicius and Workman:             Chap. 13, pp. 170-197            Chap. 39, pp. 826-845</p>	<p>1. Demonstrate the ability to use the nursing process in assisting clients with fluid and electrolyte imbalances</p> <p>2. Demonstrate competencies in performing therapeutic nursing interventions</p>
<p>2. Identify the adaptive responses for a client who has a fluid and/or electrolyte imbalance</p>	<p>2.1 <b><u>FACTORS AFFECTING</u></b>            A. Age            B. Gender &amp; body size            C. Environmental temperatures            D. Co-morbid conditions            D. Lifestyle            E. Medications            F. Treatments</p>	<p>Le Fever Kee, Joyce             pp. 83-84, 93-95, 102-103, -119,123-124, 142-145, 200-206, 336-338, 347-351</p>	<p>3. Apply knowledge of pharmacological agents in the administration of medication.</p> <p>4. Apply knowledge of pharmacological agents in the administration of medication</p>
<p>3. Describe the nursing assessment for a client who has a fluid and/or</p>	<p>3.1 <b><u>ASSESSMENT</u></b>            A. Nursing            B. Physical Assessment</p>	<p>Abrams, A.C. (2007)  <u>Clinical Drug Therapy</u>            Philadelphia, Pa: Lippincott</p>	

electrolyte imbalance

- C. Diagnostic/Lab Tests
- D. Legal/Ethical Considerations

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4. Identify nursing diagnoses for a client who has a fluid and/or electrolyte imbalance

- 4.1 **NURSING DIAGNOSES**
- A. Deficient Fluid Volume
  - B. Decreased Cardiac Output
  - C. Ineffective Tissue Perfusion
  - D. Ineffective Thermoregulation
  - E. Anxiety
  - F. Disturbed Thought Processes

**UNIT 2A      Assessment & Management of the Client who has a Fluid/Electrolyte Imbalance**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
5. Develop a plan of care for a client who has a fluid and/or electrolyte imbalance.	6.1 <b><u>PLANNING</u></b> <ul style="list-style-type: none"><li>A. Expected Outcome Criteria</li><li>B. Health Promotion Activities</li><li>C. Therapeutic Interventions</li></ul>		
Implement a plan of care for a client who has a fluid and/or electrolyte imbalance.	6. <b><u>IMPLEMENTATION</u></b> <ul style="list-style-type: none"><li>6.1 Independent Activities<ul style="list-style-type: none"><li>A. Health promotion</li></ul></li><li>6.2 Collaborative Activities<ul style="list-style-type: none"><li>A. Fluid Management<ul style="list-style-type: none"><li>1. Crystalloids</li><li>2. Colloids</li></ul></li><li>B. Medications<ul style="list-style-type: none"><li>1. Diuretics</li><li>2. Electrolyte replacement</li><li>3. Vasoconstrictors</li><li>4. Agents enhancing contractility</li><li>5. Agents enhancing myocardial perfusion</li><li>6. Antibiotics</li><li>7. Anticoagulants</li></ul></li><li>C. Nutritional support</li><li>D. Treatments/procedures</li></ul></li></ul>		

1. Oxygen Therapy
2. Hemodynamic monitoring
3. Intra-aortic balloon pump

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

**UNIT 2B      Assessment & Management of the Client who has a Burn Injury**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
1. Discuss burn injuries.	<p>1.1 <b><u>OVERVIEW OF BURN INJURIES</u></b></p> <p>A. Definition</p> <p>B. Pathophysiology</p> <p>C. Etiological factors</p> <p>D. Types</p> <ol style="list-style-type: none"> <li>1. Dry heat</li> <li>2. Moist heat</li> <li>3. Contact</li> <li>4. Chemical</li> <li>5. Electrical</li> <li>6. Radiation</li> </ol> <p>E. Classification</p> <ol style="list-style-type: none"> <li>1. Superficial thickness</li> <li>2. Partial thickness</li> <li>3. Full thickness</li> <li>4. Deep full thickness</li> <li>5. Complications               <ol style="list-style-type: none"> <li>a. Vascular</li> <li>b. Cardiovascular</li> </ol> </li> </ol>	<p><u>Review:</u> BIO 11/12 Integumentary system</p> <p><u>Review:</u> PSY 11 Self esteem &amp; body image</p> <p><b><u>Required Readings:</u></b></p> <p>Ignatavicius and Workman: Chap 28, pp. 519-547</p> <p>LeFever Kee: pp. 83-84, 93-95, 102-103, 119-123, 142 145, 200-206, 336-338 347-351</p> <p>Dudek: Chap. 16, pp. 465 - 68</p> <p>Abrams: Chap. 51 Chap. 57</p>	

- c. Pulmonary
- d. Gastro-intestinal
- e. Metabolic

**UNIT 2B                      Assessment & Management of the Client who has a Burn Injury**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
2. Identify the adaptive responses for a client who has a burn injury.	2.1 <b><u>FACTORS AFFECTING</u></b> A. Age B. Stage <ul style="list-style-type: none"> <li>1. emergent</li> <li>2. acute</li> <li>3. rehabilitative</li> </ul>		
3. Describe the nursing assessment of a client who has a burn injury.	3.1 <b><u>ASSESSMENT</u></b> A. Nursing history B. Physical assessment <ul style="list-style-type: none"> <li>1. Rule of nines</li> <li>2. LUND-Browder assessment</li> </ul> C. Diagnostic/lab tests <ul style="list-style-type: none"> <li>1. Serum studies</li> <li>2. Electrolytes</li> <li>3. Liver enzymes</li> </ul>		

- 4. Coagulation studies
- D. Transcultural considerations

4. Identify nursing diagnoses for a client who has a burn injury.

- 4.1 **NURSING DIAGNOSES**
- A. Impaired tissue integrity
  - B. Deficient fluid volume
  - C. Pain
  - D. Risk for infection
  - E. Disturbed body image
  - F. Ineffective protection

**UNIT 2B                      Assessment & Management of the Client who has a Burn Injury**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
5. Develop a plan of care for a client who has a burn injury injury.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions D. Legal ethical considerations		
6. Implement a plan of care for a client who has a burn.	6. <b><u>IMPLEMENTATION</u></b>  6.1 Independent Activities A. Health promotion  6.2 Collaborative Activities A. Fluid Management		

1. Crystalloids
2. Colloids
- B. Medications
  1. Analgesics
  2. Histamine 2 Blockers
  3. Antacids
  4. Topical agents
    - a. Sulfamylon
    - b. Silvadene
- C. Nutritional support
  1. Vitamins A, C, E
  2. Minerals; zinc, folate, iron
  - 3 TPN

**UNIT 2B**

**Assessment & Management of the Client who has a Burn Injury**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
6. (Con't).	D. Treatments/procedures <ol style="list-style-type: none"> <li>1. Grafts               <ol style="list-style-type: none"> <li>a. Porcine</li> <li>b. Cadaveric</li> <li>c. Autogenic</li> <li>d. Synthetic</li> </ol> </li> <li>2. Wound care (hydrotherapy)</li> <li>3. Hyperbaric chamber</li> </ol> E. Referrals/Community Resources <ol style="list-style-type: none"> <li>1. PT</li> </ol>		

- 2. OT
- 3. Rehabilitation
- 4. Support Groups

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of the Plan

**Unit 3A      Assessment & Management of the Client who has a Respiratory Disorder**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
<p>Upon completion of this unit the learner will be able to:</p> <p>1. Describe respiratory dysfunction as it relates to altered oxygen exchange.</p>	<p>1.1 <b><u>OVERVIEW</u></b></p> <p>A. Review respiratory system, structure and function</p> <p>B. Definitions</p>	<p><b><u>Required Readings:</u></b></p> <p>Ignatavicius &amp; Working            Chap. 29, pp. 552-570            Chap. 30, pp. 571-580            Chap. 34, pp. 677-697</p>	<p>The learner will</p> <ol style="list-style-type: none"> <li>1. Perform a nursing assessment.</li> <li>2. Analyze data.</li> <li>3. Formulate nursing diagnoses.</li> <li>4. Prioritize nursing diagnoses.</li> </ol>

- C. Pathophysiology
- D. Etiological factors
- E. Complications
  - a) Respiratory failure
  - b) Pulmonary embolus
  - c) Acute Respiratory Distress Syndrome (ARDS)

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- 5. Formulate a plan to achieve client outcomes.
- 6. Implement a plan.
- 7. Evaluate client outcomes.
- 8. Communicate and collaborate with the client, family, and healthcare providers.
- 9. Teach client:
  - a) Preventative health strategies.
  - b) Health maintenance
    - 1. Dietary
    - 2. Medication use
    - 3. Lifestyle modifications

2. Identify adaptive responses for client who has a respiratory dysfunction disorder .

2.1 **FACTORS AFFECTING RESPIRATORY FUNCTION**

- A. Age
- B. Sex
- C. Nutritional status
- D. Genetics
- E. Environment (smoke, pollen)
- F. Drug therapy
- G. Health status
- H. Allergic reactions
- I. Surgery
- J. Trauma

**College Lab #4**

- 1. Discuss oxygen delivery systems.
- 2. Demonstrate correct oral, nasopharyngeal, and endotracheal suctioning technique.
- 3. Demonstrate tracheostomy care,
- 4. Describe principles of pulse oximetry measurement.

**Unit 3A                      Assessment & Management of the Client who has a Respiratory Disorder**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
3. Describe the nursing assessment in meeting the client's needs who has altered oxygen exchange.	3.1 <b><u>ASSESSMENT</u></b> A. Nursing history B. Physical assessment C. Diagnostic/Lab tests	CAI: 1. Physical Assessment of the Lungs, Thorax, and Heart Sounds (CD)	

1. Pulmonary function tests
2. Bronchoscopy
3. Arterial blood gas
4. Cultural sensitivity
- D. Cultural considerations

Video shown in class:

4. Identify nursing diagnoses for the client who has respiratory distress.

4.1 **NURSING DIAGNOSES**

- A. Ineffective airway clearance
- B. Impaired gas exchange
- C. Impaired spontaneous ventilation

1. Mechanical Ventilation  
Part II: Complications of Weaning

5. Develop a plan of care to meet the needs of a client who has altered oxygen exchange.

5.1 **PLANNING**

- A. Expected outcome criteria
- B. Health promotion activities
- C. Therapeutic interventions
- D. Legal/Ethical considerations

6. Implement a plan of care to meet the needs of a client who has altered oxygen exchange.

6 **IMPLEMENTATIONS**

- 6.1 Independent Activities
  - A. Health promotion

Video to be viewed by student at Media Center:

1. Physical Assessment: Thorax and Lungs # 809
2. Mechanical Ventilation  
Part I: Essentials in Nursing Care # 845

**Unit 3A                      Assessment & Management of the Client who has a Respiratory Disorder**

**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

6. (Con't).

6.2 Collaborative Activities

- A. Medications
  - 1. Antihistamines
  - 2. Anti-tussus
  - 3. Mucolytics
  - 4. Decongestants
  - 5. Expectorants
  - 6. Bronchodilators
- B. Procedure/Treatment
  - 1. Oxygen administration
  - 2. Mechanical ventilation
- C. Referrals/Community Resources
- D. Discharge Planning

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of Plan

- 
1. Discuss infections respiratory disorders:
    1. Acute Bronchitis
    2. Pneumonia
    3. Tuberculosis

### 1.1 **OVERVIEW**

- A. Definition
- B. Pathophysiology
- C. Etiological factors
- D. Classification pneumonia

1. Viral
2. Mircoplasma
3. Parasitic
4. Chemical
5. Community acquired
6. Hospital acquired

#### E. Complications

1. Pleurisy
2. Pleural effusion
3. Atelectasis
4. Lung abscess
5. Empyema
6. Pericarditis

### **Required Readings:**

Ignatavicius & Workman  
Chap. 33, pp. 659-666  
pp. 668-672

Abrams, A.C.

Chaps. 29-33

Video to be viewed by students in  
Media Center:

1. # 866 TB or Not TB
2. # 785 Tracheostomy care

2. Identify adaptive responses for a client who has respiratory infections.

### 2.1 **FACTORS AFFECTING OF RESPIRATORY INFECTIONS**

- A. Age
- B. Sex
- C. Immunosuppression
- D. Malnutrition
- E. Debilitating illness
- F. Smoking
- G. Environmental conditions

Learner Objective	Content Outline	Related Learner Experiences	Clinical Objectives
3. Describe the nursing assessment in meeting the needs of a client who has respiratory infections.	3.1 <b><u>ASSESSMENT</u></b> A. Nursing History B. Physical assessment C. Diagnostic/Lab tests 1. chest x-ray 2. gram stain sputum 3. culture and sensitivity 4. ABGs 5. Complete blood count 6. Blood cultures D. Cultural considerations		
4. Identify nursing diagnoses for a client who has respiratory infections.	4.1 <b><u>NURSING DIAGNOSES</u></b> A. Ineffective breathing pattern B. Ineffective airway clearance C. Ineffective health maintenance D. Activity intolerance		
5. Develop a plan of care to meet the needs of client who has a respiratory infection.	5.1 <b><u>PLANNING</u></b> A. Expected Outcome criteria B. Health promotion activities C. Therapeutic intervention D. Legal/Ethical considerations		
6. Implement a plan of care to meet the client's need who has a respiratory infection.	6. <b><u>IMPLEMENTATION</u></b> 6.1 Independent Activities A. Health promotion		

Learner Objective	Content Outline	Related Learner Experiences	Clinical Objectives
6. (Con't).	6.2 Collaborative Activities <ul style="list-style-type: none"> <li>A. Medications               <ul style="list-style-type: none"> <li>1. Antibiotics</li> <li>2. Penicillins</li> <li>3. Cephalosporins</li> <li>4. Macrolides</li> <li>5. Fluoroquinolones</li> <li>6. Lincosamides</li> </ul> </li> <li>B. Procedure/Treatment               <ul style="list-style-type: none"> <li>1. Clindamycin</li> <li>2. Bronchodilators</li> <li>3. Steroids</li> <li>4. Antituberculars</li> </ul> </li> <li>C. Referral/Community Resources</li> <li>D. Discharge Planning</li> </ul>		
7. Evaluate plan of care for a client with tuberculosis.	7. <b><u>EVALUATION</u></b> <ul style="list-style-type: none"> <li>7.1 Evaluation of Outcome Criteria</li> <li>7.2 Revision of Plan</li> </ul>		

**UNIT 3C****Assessment and Management of the Client who has a Constrictive Respiratory Disorder**

<b>Learner Objective</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
1. Discuss constrictive respiratory disorders: 1. Emphysema 2. Chronic Bronchitis 3. Asthma	1.1 <b><u>OVERVIEW OF ASTHMA</u></b> A. Definition B. Pathophysiology C. Etiological factors D. Classification 1. Mild intermittent 2. Mild persistent 3. Moderate persistent 4. Severe persistent 5. Complications a. Hypoxemia b. Respiratory acidosis c. Atelectasis d. Respiratory infections e. Cardiac failure f. Status asthmaticus	<b><u>Required Reading:</u></b>  Ignatavicius & Workman: Chap. 32, pp. 610-635  Dudek: Chap. 16, pp. 468 - 474  Videos to be viewing student in Media Center.  1. Caring for Patients with Chronic Obstructive Pulmonary Disease. # 835  2. Asthma, Emphysema, and Chronic Bronchitis. #1180	
2. Identify adaptive responses for a client who has constrictive respiratory disorders.	2.1 <b><u>FACTORS AFFECTING THE DEVELOPMENT OF NON-INFECTION RESPIRATORY DISORDERS.</u></b> A. Age B. Genetics C. Environmental exposure D. Transcultural considerations	Abrams: Chap. 44	

**UNIT 3C****Assessment and Management of the Client who has a Constrictive Respiratory Disorder**

<b>Learner Objective</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
3. Discuss chest trauma and thoracic injuries.	3.1 <b><u>ASSESSMENT</u></b> A. Nursing History B. Physical assessment C. Diagnostic/Lab tests 1. Pulmonary function tests 2. Peak expiratory flow monitoring 3. ABG's D. Transcultural considerations	CAI: 1. Nursing Care of Elderly Patients with COPD (CD)  2. Clinical Simulations in Med-Surg III  3. Nursing Management of the Adult Asthmatic	
4. Identify nursing diagnoses for a client with asthma.	4.1 <b><u>NURSING DIAGNOSES</u></b> A. Impaired gas exchange B. Ineffective breathing pattern C. Ineffective airway clearance D. Anxiety E. Risk for infection F. Activity intolerance G. Imbalanced nutrition: less than body requirements		
5. Develop a plan of care meet a client who has a constrictive respiratory disorder.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions		

D. Legal/Ethical considerations

**UNIT 3C                      Assessment and Management of the Client who has a Constrictive Respiratory Disorder**

<b>Learner Objective</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
6. Implement a plan of care for a client who has a constrictive respiratory disorder.	6.1 Independent Activities A. health promotion  6.2 Collaborative Activities A. Medications 1. Bronchodilators 2. Anticholinergics 3. Corticosteroids 4. Cromolyn Sodium 5. Mucolytics 6. Leukotrine modifiers B. Procedures/ treatments C. Referral/Community Resources D. Discharge planning	<u><b>Required Readings:</b></u>  Abrams: Chap 44	
7. Evaluate the plan of care.	7. <u><b>EVALUATION</b></u>  7.1 Evaluation of Outcome Criteria  7.2 Revision of Plan		

**Unit 3D      Assessment & Management of the Client who has a Traumatic Respiratory Disorder**

Learner Objective	Content Outline	Related Learner Experiences	Clinical Objectives
1. Discuss chest trauma and thoracic injuries.	1.1 <b><u>OVERVIEW</u></b> A. Definition B. Pathophysiology C. Etiological factors equipment D. Complications 1. Pneumothorax a. open pneumothorax b. closed pneumothorax c. tension pneumothorax	<b><u>Required Reading:</u></b>  Ignativicius & Workman: Chap. 32, pp. 646-649 Chap. 34, pp. 697-700  Videos to be viewed in Media Center	<b>College Lab # 5</b>  The Learner will: 1. List the  needed to support the insertion of a chest tube.
2. Identify adaptive responses for a client with trauma who has chest trauma.	2.1. <b><u>FACTORS AFFECTING CHEST TRAUMA AND THORACIC INJURIES</u></b> A. Age B. Sex C. Lifestyle D. Trauma	1. Care of Client with Chest Tubes # 1100  2. Airway Management # 407	2. Provide assistance to the medical personnel authorized to insert chest tubes. 3. Explain nursing responsibilities related to the care of the client with a chest drainage system. 4. State the client assessment criteria. 5. Prepare a plan of care for clients with chest
3. Describe the nursing	3.1 <b><u>ASSESSMENT</u></b>		

assessment in meeting the needs of a client who has chest trauma.

- A. Nursing history
- B. Physical assessment
- C. Diagnostic/Lab tests
  - 1. ABG
  - 2. Serum and urine electrolytes
  - 3. Pulmonary function tests
  - 4. Chest X-ray
- D. Transcultural considerations

- tubes.
- 6. Document chest tube insertion in the client record.
- 7. Describe the process of chest tube removal.

4. Identify nursing diagnoses for client who has chest trauma.

- 4.1 **NURSING DIAGNOSES**
  - A. Impaired gas exchange
  - B. Impaired spontaneous ventilation
  - C. Dysfunctional ventilator weaning
  - D. Ineffective breathing pattern

5. Develop a plan of care to meet the needs of a client who has chest trauma.

- 5.1 **PLANNING**
  - A. Expected outcome criteria
  - B. Health promotion activities
  - C. Therapeutic intervention
  - D. Legal/Ethical Considerations

**Unit 3D      Assessment & Management of the Client who has a Traumatic Respiratory Disorder**

<b>Learner Objective</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
6. Implement a plan of care to meet the needs of a client who has chest trauma.	6. <b><u>IMPLEMENTATION</u></b>  6.1 Independent Activities a. Health promotion  6.2 Collaborative Activities A. Medications B. Procedure/Treatment 1. Needle venting 2. Mechanical ventilation 3. Chest tube insertion 4. Surgery C. Referral/ Community Resources D. Discharge planning	CAI: 1. Chest Tube Therapy (CD)	
7. Evaluation the plan of care	7. <b><u>EVALUATION</u></b>		

for a client who has chest trauma.

7.1 Evaluation of Outcome Criteria

7.2 Revision of Plan

**Unit 4A      Assessment & Management of the Client who has a Cardiovascular Disorder : CAD and Dysrhythmias**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
<p>Upon completion of the unit the learner will be able to:</p> <p>1. Discuss peripheral vascular disease (PVD).</p>	<p>1.1 <b><u>OVERVIEW</u></b></p> <p>A. Review A &amp; P</p> <p>B. Definition</p> <p>C. Pathophysiology</p> <p>D. Etiological factors</p> <p>E. Classifications:</p> <ol style="list-style-type: none"> <li>1. Arteriosclerosis</li> <li>2. Atherosclerosis</li> <li>3. Varicose veins</li> <li>4. Thrombophlebitis</li> <li>5. Venous stasis ulcers</li> </ol> <p>F. Complications</p> <ol style="list-style-type: none"> <li>1. Pulmonary Emboli</li> </ol>	<p><u>Review:</u> Bio 11/12 Cardiovascular System</p> <p><b><u>Required Readings:</u></b></p> <p>Ignatavicius &amp; Workman:</p>	<p>The student will:</p> <ol style="list-style-type: none"> <li>1. Perform a nursing assessment.</li> <li>2. Analyze data.</li> <li>3. Formulate nursing diagnoses.</li> <li>4. Prioritize nursing diagnoses.</li> <li>5. Formulate a plan to achieve client outcome.</li> <li>6. Implement the plan.</li> <li>7. Evaluate client outcomes.</li> <li>8. Communicate &amp; collaborate with the client, family &amp;</li> </ol>

2. Identify adaptive responses for a client who has PVD.

2.1 **FACTORS AFFECTING THE DEVELOPMENT OF PERIPHERAL VASCULAR DISEASE**

- A. Age
- B. Sex
- C. Nutritional status
- D. Genetics

Chap. 35, pp. 704-729  
Chap. 38, pp. 793-796  
pp. 804-824

LaFever Kee  
pp.123-123,158-160,  
423-424, 640-645

- health care providers.
9. Teach client:
- a. Preventive health care strategies
  - b. Health Maintenance
    - 1. Dietary
    - 2. Medications
    - 3. Lifestyle modifications

**Unit 4A      Assessment & Management of the Client who has a Cardiovascular Disorder : CAD and Dysrhythmias**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
3. Describe the nursing assessment in meeting the needs of a client with PVD.	3.1 <b><u>ASSESSMENT</u></b> <ul style="list-style-type: none"><li>A. Nursing history</li><li>B. Physical assessment</li><li>C. Diagnostic/Lab tests<ul style="list-style-type: none"><li>1. Segmental systolic BP</li><li>2. Arteriography</li><li>3. Venography</li><li>4. Doppler studies</li></ul></li><li>D. Cultural considerations</li></ul>		

4. Identify nursing diagnosis for a client who has PVD.

- 4.1 **NURSING DIAGNOSES**
- A. Ineffective tissue perfusion
  - B. Pain
  - C. Activity intolerance
  - D. Impaired tissue integrity

5. Develop a plan of care to meet the needs of a client who has PVD.

- 5.1 **PLANNING**
- A. Expected outcome criteria
  - B. Health promotion activities
  - C. Therapeutic interventions
  - D. Legal/Ethical considerations

6. Implement a plan of care to meet the needs of a client who has PVD.

6. **IMPLEMENTATION**
- 6.1 Independent Activities
- A. Health promotion

**Unit 4B      Assessment & Management of the Client who has a Cardiovascular Disorder : CAD and Dysrhythmias**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
6. (Con't).	6.2 Collaborative Activities <ul style="list-style-type: none"><li>A. Medications<ul style="list-style-type: none"><li>1. Vasodilators</li><li>2. Antiplatelet aggregation therapy</li><li>3. Anticoagulants</li></ul></li><li>B. Procedures/Treatments</li></ul>		

1. Angioplasty
  2. Atherectomy
  3. Vein stripping and ligation
  4. Bypass surgery
  5. Amputation
- C. Referral/Community resources  
D. Discharge planning

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of Plan

**Unit 4B      Assessment & Management of the Client who has a Cardiovascular Disorder : CAD and Dysrhythmias**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
1. Discuss hypertension.	1.1 <b><u>OVERVIEW</u></b> A. Definition B. Pathophysiology C. Etiological factors	<u>Review:</u> Bio 11/12  <b><u>Required Readings</u></b>	

- D. Classifications
  - 1. Primary (essential)
  - 2. Secondary
- E. Complications
  - 1. Malignant Hypertension
  - 2. CVA, MI, PVD, Renal Failure

Ignatavicius & Workman:  
Chap. 38, pp. 796-804

LeFever Kee:  
pp. 290-292, 415-416

Abrams:  
Chap. 47 -50  
Chap. 52-55

2. Identify adaptive responses for a client who has hypertension.

2.1 **FACTORS AFFECTING THE DEVELOPMENT OF HYPERTENSION**

- A. Age
- B. Sex
- C. Nutritional status
- D. Genetics
- E. Chronic health problems

Dudek:  
Chap. 18 pp. 529-567

Videos be viewed by students in Media Center:

3. Describe the nursing assessment to meet the needs of a client who has hypertension.

3.1 **ASSESSMENT**

- A. Nursing history
- B. Physical assessment
- C. Diagnostic/Lab tests
  - 1. Chest X-ray
  - 2. ECG
- D. Transcultural considerations

- 1. Arrhythmia #1179
- 2. Hypertension #1187
- 3. Coronary Artery Disease #1115
- 4. Bypass Surgery #1116
- 5. Cardiac Rehabilitation #1117
- 6. Hemodynamic Monitoring #295

**Unit 4B      Assessment & Management of the Client who has a Cardiovascular Disorder : CAD and Dysrhythmias**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
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4. Identify nursing diagnosis for

4.1 **NURSING DIAGNOSES**

Videos shown in class

a client who has hypertension.

- A. Ineffective tissue perfusion:  
peripheral, cerebral, renal  
cardiopulmonary
- B. Decreased cardiac output
- C. Ineffective health management

1. CAD and Angina # 1181

5. Develop a plan of care to meet the need of a client who has hypertension.

51. **PLANNING**
- A. Expected outcome criteria
  - B. Health promotion activities
  - C. Therapeutic interventions
  - D. Legal/ethical considerations

6. Implement a plan of care to meet the needs of a client who has hypertension.

6. **IMPLEMENTATION**
- 6.1 Independent Activities
- 6.2 Collaborative Activities
- A. Medications
    - 1. Diuretics
    - 2. Adrenergic inhibitors
    - 3. Direct Vasodilators
    - 4. Beta Blockers
    - 5. Angiotensin converting enzyme
    - 6. Calcium channel blockers
  - B. Procedures/Treatments
  - C. Referrals/Community Resources
  - D. Discharge Planning

**Unit 4B      Assessment & Management of the Client who has a Cardiovascular Disorder : CAD and Dysrhythmias**

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**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of Plan

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
<p>1. Discuss/review coronary artery disease (CAD).</p>	<p>1.1 <b><u>OVERVIEW</u></b>                      A. Definition                      B. Pathophysiology                      C. Etiological factors                      D. Complications                          1. Angina                          2. Myocardial infarction                          3. Dysrhythmias                          4. Sudden cardiac death                          5. Heart Block</p>	<p>Review: BIO 11/12</p> <p><b><u>Required Readings:</u></b></p> <p>Ignatavicius &amp; Workman:                      Chap. 40, pp. 847-874</p> <p>LeFever Kee:                      pp 138-142, 290-292, 415-416, 640-646</p>	
<p>2. Identify adaptive responses for a client who has CAD.</p>	<p>2.1 <b><u>FACTOR AFFECTING THE DEVELOPMENT OF CORONARY ARTERY DISEASE</u></b>                      A. Age                      C. Nutritional status                      D. Genetics                      E. Chronic health problems</p>	<p>CAI:                      1. Essentials of Cardiac Rhythm Recognition (CD)</p>	
<p>3. Describe the nursing assessment in meeting the needs of a client who has CAD.</p>	<p>3.1 <b><u>ASSESSMENT</u></b>                      A. Nursing history                      B. Physical assessment                      C. Diagnostic/Lab tests                          1. EKG                          2. Serum enzymes (CK-MB, troponin, LDH, AST)                          3. Serum lipids (cholesterol, triglycerides)                          4. Nuclear imaging (Thallium scan)                          5. Holtor monitor</p>	<p>2. Dysrhythmia Recognition (CD)</p> <p>3. Clinical Simulations in Med-Surg 1 (CD) II Cardio-Pulmonary Diseases.</p>	

Unit 4C      Assessment & Management of the Client who has a Cardiovascular Disorder: CAD and Dysrhythmias

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
3. (Con't).	6. Telemetry 7. Echocardiography 8. Angiography 9. Cardiac catheterization D. Transcultural considerations		
4. Identify nursing diagnoses for a client who has CAD.	4. 1 <b><u>NURSING DIAGNOSES</u></b> A. Pain B. Decreased cardiac output C. Activity intolerance D. Ineffective tissue perfusion: cardiopulmonary		
5. Develop plan of care to meet the needs of a client who has CAD.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions D. Legal/Ethical considerations		
6. Implement plan of care to meet the needs of a client who has CAD.	6. <b><u>IMPLEMENTATION</u></b>  6.1 Independent Activities A. Health promotion  6.2 Collaborative Activities A. Medications 1. Nitrates 2. Analgesic 3. Thrombolytic therapy 4. Digitalis preparations 5. Potassium chloride		

- 6. Drugs that prolong repolarization
- 7. Drugs that depress upstroke of action potential.

**Unit 4C      Assessment & Management of the Client who has a Cardiovascular Disorder: CAD and Dysrhythmias**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
6. (Con't).	<ul style="list-style-type: none"> <li>B. Procedures/Treatments               <ul style="list-style-type: none"> <li>1. PTA</li> <li>2. CABG</li> <li>3. Stent placement</li> <li>4. Atherectomy</li> <li>5. Laser angioplasty</li> <li>6. CPR</li> <li>7. Pacemaker</li> <li>8. Cardioversion</li> <li>9. Defibrillation</li> </ul> </li> <li>C. Referrals/Community Resources</li> <li>D. Discharge planning</li> </ul>		
7. Evaluate the plan of care.	<ul style="list-style-type: none"> <li>7. <b><u>EVALUATION</u></b> <ul style="list-style-type: none"> <li>7.1 Evaluation of Outcome Criteria</li> <li>7.2 Revision of Plan</li> </ul> </li> </ul>		

**Unit 4D      Assessment & Management of the Client who has a Cardiovascular Disorder: CAD and Dysrhythmias**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
1. Discuss cardiac dysrhythmias.	<p>1.1 <b><u>OVERVIEW</u></b></p> <ul style="list-style-type: none"> <li>A. Definition</li> <li>B. Pathophysiology</li> <li>C. Etiological factors</li> <li>D. Classifications               <ul style="list-style-type: none"> <li>1. Atrial</li> <li>2. Ventricular</li> <li>3. Heart block</li> </ul> </li> <li>E. Complications               <ul style="list-style-type: none"> <li>1. Sudden cardiac death</li> <li>2. Ventricular fibrillation</li> </ul> </li> </ul>	<p><u>Review:</u> Bio 11/12 Anatomy, physiology, and electro-physiology of the heart</p> <p><b>Required Readings:</b></p> <p>Ignatavicius and Workman: Chap. 36, pp. 730-762</p>	<p><b>College Lab # 6</b></p> <p>The Learner will:</p> <ol style="list-style-type: none"> <li>1. Properly place the client on the cardiac monitor.</li> <li>2. Identify the parts of the cardiac cycle on the cardiac monitor.</li> <li>3. Identify specific cardiac dysrhythmias.</li> <li>4. Demonstrate appropriate client assessments.</li> <li>5. Implement appropriate nursing interventions.</li> <li>6. Evaluate effectiveness of client care.</li> </ol>
2. Identify adaptive responses for a client with a cardiac dysrhythmias.	<p>2.1 <b><u>FACTOR AFFECTING IN DEVELOPING CARDIAC DYSRHYTHMIAS</u></b></p> <ul style="list-style-type: none"> <li>A. Age</li> <li>B. Sex</li> <li>C. Nutritional status</li> <li>D. Genetics</li> <li>E. Chronic health problems</li> </ul>	<p>Abrams: Chap. 49</p>	
3. Describe the nursing assessment to meet the needs a client with cardiac dysrhythmias.	<p>3.1 <b><u>ASSESSMENT</u></b></p> <ul style="list-style-type: none"> <li>A. Nursing history</li> <li>B. Physical assessment</li> <li>C. Diagnostic/Lab tests               <ul style="list-style-type: none"> <li>1. EKG</li> </ul> </li> </ul>		

- 2. Holtor monitoring
- 3. Telemetry
- D. Cultural considerations

**Unit 4D      Assessment & Management of the Client who has a Cardiovascular Disorder: CAD and Dysrhythmias**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
4. Identify nursing diagnoses for a client with a cardiac dysrhythmias.	4.1 <b><u>NURSING DIAGNOSES</u></b> A. Decreased cardiac output B. Fatigue C. Altered cardiopulmonary tissue perfusion D. Fear		
5. Develop plan of care to meet the needs of a client with cardiac dysrhythmias.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions D. Legal/Ethical considerations		
6. Implement a plan of care to meet the needs of a client with dysrhythmias.	6. <b><u>IMPLIMENTATION</u></b>  6.1 Independent Activities A. Health promotion  6.2 Collaborative Activities A. Medications 1. Drugs that depress up stroke of action potential 2. Beta-adrenergic blockers		

3. Drugs that prolong repolarization
4. Calcium channel blockers
5. Potassium channel openers
6. Digitalis preparations

**Unit 4D      Assessment & Management of the Client who has a Cardiovascular Disorder: CAD and Dysrhythmias**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
6. (Con't).	B. Procedures/Treatments <ol style="list-style-type: none"> <li>1. CPR</li> <li>2. Pacemaker</li> <li>3. Cardio version</li> </ol> C. Referrals/Community Resources D. Discharge planning		
7. Evaluate the plan of care.	7. <b><u>EVALUATION</u></b>  7.1 Evaluation of Outcome Criteria  7.2 Revision of Plan		

**Unit 4E      Assessment & Management of the Client who has a Cardiovascular Disorder: CAD and Dysrhythmias**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
1. Discuss heart failure.	1.1 <b><u>OVERVIEW</u></b> A. Definition B. Pathophysiology C. Etiological factors D. Classifications 1. Left sided failure 2. Right sided failure 3. Biventricular failure E. Complications 1. Pulmonary edema	<u>Review:</u> Bio 11/12  <b>Required Readings:</b>	
2. Identify adaptive responses for a client with a heart failure.	2.1 <b><u>FACTOR AFFECTING IN DEVELOPING CARDIAC DYSRHYTHMIAS</u></b> A. Age B. Sex C. Nutritional status	Ignativicius and Workman: Chap. 37, pp. 765-779, 786  Abrams: Chap. 53	

- D. Genetics
- E. Chronic health problems-  
Valvular disease
- F. Transcultural considerations

- CAI:
- 1. Nursing Care of Elderly  
Patients with Cardiac  
Disorders (CD)

3. Describe the nursing assessment to meet the needs a client with heart failure.

- 3.1 **ASSESSMENT**
- A. Nursing history
  - B. Physical assessment
  - C. Diagnostic/Lab tests
    - 1. chest x-ray
    - 2. Swan Ganz
    - 3. Telemetry
  - D. Transcultural considerations

Videos to be viewed in Media Center:

- 1. Heart Failure and Pulmonary Edema #1185

**Unit 4E      Assessment & Management of the Client who has a Cardiovascular Disorder: CAD and Dysrhythmias**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
4. Identify nursing diagnoses for a client with heart failure.	4.1 <b><u>NURSING DIAGNOSES</u></b> A. Impaired gas exchange B. Decreased cardiac output C. Activity intolerance D. Ineffective health maintenance		
5. Develop plan of care to meet the needs of a client with heart failure.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions D. Legal/Ethical considerations		
6. Implement a plan of care to	6. <b><u>IMPLIMENTATION</u></b>		

meet the needs of a client with heart failure.

- 6.1 Independent Activities
  - A. Health promotion
- 6.2 Collaborative Activities
  - A. Medications
    - 1. Diuretics
      - a. Thiazides
      - b. Loop diuretics
      - c. Potassium sparing agents
      - d. Combination agents
    - 2. Potassium chloride
    - 3. Nitrates
    - 4. Cardiac glycosides
  - B. Procedures/Treatments
  - C. Referrals/Community Resources
  - D. Discharge planning

7. Evaluate the plan of care.

**7. EVALUATION**

- 7.1 Evaluation of Outcome Criteria
- 7.2 Revision of Plan

**Unit 4F      Assessment & Management of the Client Undergoing Cardiac Surgery**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
1. Discuss cardiac surgery.	1.1 <b><u>OVERVIEW</u></b> A. Definition B. Pathophysiology C. Etiological factors D. Classifications <ul style="list-style-type: none"> <li>1. myocardial revascularization</li> <li>2. valvular surgeries</li> <li>3. ventricular surgeries</li> <li>4. cardiac transplantation</li> </ul> E. Complications	<b><u>Required Readings:</u></b>  Ignatavicius and Workman: Chap. 40, pp. 863-874	

2. Identify adaptive responses for a client experiencing cardiac surgery.

- 2.1 **FACTORS AFFECTING CARDIAC SURGERY**
- A. Age
  - B. Sex
  - C. Nutritional statuses
  - D. Genetics
  - E. Chronic health problems
  - F. Transcultural considerations

3. Describe the nursing assessment to meet the needs of a client experiencing cardiac surgery.

- 3.1 **ASSESSMENT**
- A. Nursing history
  - B. Physical assessment
  - C. Diagnostic/Lab tests
  - D. Transcultural considerations

4. Identify nursing diagnoses for a client experiencing cardiac surgery.

- 4.1 **NURSING DIAGNOSES**
- A. Risk for infection
  - B. Acute pain
  - C. Impaired physical mobility
  - D. Impaired skin integrity

**Unit 4F      Assessment & Management of the Client Undergoing Cardiac Surgery**

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**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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5. Develop plan of care to meet the needs of a client experiencing cardiac surgery.

- 5.1 **PLANNING**
- A. Expected outcome criteria
  - B. Health promotion activities
  - C. Therapeutic interventions
  - D. Legal/Ethical considerations

6. Implement a plan of care to meet the needs of a client experiencing cardiac surgery.

6. **IMPLEMENTATION**

6.1 Independent Activities

A. health promotion

6.2 Collaborative Activities

A. Medications

1. Analgesia

B. Procedures/Treatments

C. Referrals/Community Resources

D. Discharge Planning

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of Plan

**UNIT 5A      Assessment & Management of the Client who has a Gastric Disorder**

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**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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1. Describe gastric disorders:  
1. Hiatal hernia  
2. Gastroesophageal reflux disease (GERD)

1.1 **OVERVIEW**

A. Definition

B. Pathophysiology

C. Etiological factors

**Required Readings:**

Ignatavicius and Workman:  
Chap. 57, pp. 1243-1254

The student will:

1. Perform a nursing assessment  
2. Analyze data

3. Peptic ulcer disease (PUD)

- D. Types
  - 1. Gastric
  - 2. Duodenal
  - 3. Stress
- E. Complications
  - 1. Hemorrhage
  - 2. Perforation
  - 3. Obstruction
  - 4. Dumping syndrome
  - 5. Intractable disease

Chap. 58, pp. 1265-1279

LeFever Kee:  
pp. 216-17,

- 3. Formulate nursing diagnoses
- 4. Prioritize nursing diagnoses
- 5. Formulate plan to achieve client outcome
- 6. Implement the plan
- 7. Evaluate client outcome
- 8. Communicate and collaborate with client family, and healthy care providers.
- 9. Teach client:
  - a. Prevention health care strategies
  - b. Health maintenance
    - 1. Dietary
    - 2. Medications
    - 3. Lifestyle modifications

2. Identify the adaptive responses in the development of gastric disorders.

2.1 **FACTORS AFFECTING**

- A. Age
- B. Sex
- C. Infectious agents (H. Pylori)
- D. Smoking
- E. Alcohol
- F. Nutritional status
- G. Stress
- H. Radiation
- I. Transcultural considerations

**UNIT 5A      Assessment & Management of the Client who has a Gastric Disorder**

**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

3. Describe the nursing

3.1 **ASSESSMENT**

**Required Reading:**

assessment in meeting the needs of a client with who has a gastric disorder.

- A. Nursing history
- B. Physical assessment
- C. Diagnostic/lab tests
  - 1. CBC
  - 2. G.I. series
  - 3. Esophagogastro--duodenoscopy (EGD)
  - 4. Breath test for H.pyloni
- D. Transcultural considerations

Dudek:  
Chap. 17 pp. 477-528

4. Identify nursing diagnoses to meet the needs of a client who has a gastric disorder. regimen management .

- 4.1 **NURSING DIAGNOSES**
- A. Pain: Acute/chronic
  - B. Ineffective therapeutic
  - C. Imbalanced nutrition: less than body requirements

5. Develop a plan of care to meet the needs of a client who has a gastric disorder.

5. 1 **PLANNING**
- A. Expected outcome criteria
  - B. Health promotion activities
  - C. Therapeutic interventions
  - D. Legal /Ethical considerations

6. Implement a plan of care to meet the needs of a client who has a gastric disorder.

6. **IMPLEMENTATION**
- 6.1 Independent Activities
- A. Health promotion

**UNIT 5A      Assessment & Management of the Client who has a Gastric Disorder**

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**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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6. (Con't).

6.2 Collaborative Activities

A. Medications

1. Antibiotics
2. Histamine H<sub>2</sub> receptor antagonists:
  - a. Cimetidine (Tagamet)
  - b. Ranitidine (Zantac)
  - c. Famotidine (Pepcid)
  - d. Nizatidine (AXID)
3. Antacids
4. Proton pump inhibitors:
  - a. Omeprazole (Prilosec)
  - b. Pantoprazole (Pantoloc)
5. Anticholinergics
6. Mucosal barrier fortifiers:
  - a. Sucralfate (Carafate)
7. Vitamin B<sub>12</sub> supplementation.

B. Procedures/Treatment

1. N/G tube placement
2. IV therapy
3. Physical/emotional rest
4. Surgery: vagotomy or pyloroplasty; subtotal or total gastrectomy

**Required Readings:**

Abrams:  
Chap. 56-57, 59, 62

**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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6. (Con't).

- C. Referrals/Community resources
- D. Discharge planning

7. Evaluate the plan of care

- 7. **EVALUATION**
- 7.1 Evaluation of Outcome Criteria
- 7.2 Revision of Plan



**UNIT 5B      Assessment & Management of the Clients who has an Intestinal Disorder**

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<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
2. Identify adaptive responses for a client who has an intestinal disorder.	2.1 <b><u>FACTORS AFFECTING THE DEVELOPMENT OF INTESTINAL DISORDERS</u></b> A. Age B. Sex C. Nutritional status D. Genetic predisposition E. Psychological factors		
3. Describe the nursing assessment in meeting the needs of a client who has an intestinal disorder.	3.1 <b><u>ASSESSMENT</u></b> A. Nursing history B. Physical assessment C. Diagnostic/lab tests 1. Serum studies : CBC, electrolytes, protein 2. Stool studies: occult blood 3. Barium enema 4. Sigmoidoscopy D. Transcultural considerations		
4. Identify nursing diagnoses for a client who has an intestinal disorder.	4.1 <b><u>NURSING DIAGNOSES</u></b> A. Pain: acute/chronic B. Diarrhea C. Impaired skin integrity D. Imbalanced nutrition : less than body requirements E. Deficient fluid volume F. Ineffective management		

- Of therapeutic regimen
- G. Body image disturbance

**UNIT 5B      Assessment & Management of the Clients who has an Intestinal Disorder**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
5. Develop a plan of care to meet the needs of a client who has an intestinal disorder.	5.1. <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions D. Legal/Ethical considerations	<b><u>Required Readings:</u></b>  Dudek: Chap. 17	
6. Implement a plan of care to meet the needs of the client who has an intestinal disorder.	6. <b><u>IMPLEMENTATION</u></b>  6.1 Independent Activities A. Health promotion  6.2 Collaborative Activities A. Medications 1. Salicylate compounds: (Asocol, pentasa) 2. Corticosteroids 3. Anticholinergics 4. Antidiarrheals (Lomotil) 5. Immunosuppressives (Imuran)		

**UNIT 5B      Assessment & Management of the Clients who has an Intestinal Disorder**

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<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
6. (Con't).	B. Procedures/Treatments 1. Diet therapy 2. Rest 3. Surgery: total proctocolectomy with permanent or continent ileostomy or ileoanal reservoir C. Referrals/community resources D. Discharge planning		
7. Evaluate the plan of care.	7. <b><u>EVALUATION</u></b>  7.1 Evaluation of Outcome Criteria  7.2 Revision of Plan		

**UNIT 5C      Assessment & Management of the Client who has a disorder of the Liver, Gallbladder and Pancreas**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
1. Describe disorders of the liver and pancreas.	<p>1.1 <b><u>OVERVIEW</u></b></p> <ul style="list-style-type: none"><li>A. Definition</li><li>B. Pathophysiology</li><li>C. Etiological factors</li><li>D. Classification<ul style="list-style-type: none"><li>1. Hepatitis A, B, C, D, E</li><li>2. Acute Cholecystitis</li><li>3. Chronic Cholecystitis</li><li>4. Acute Pancreatitis</li><li>5. Chronic Pancreatitis</li></ul></li><li>E. Complications<ul style="list-style-type: none"><li>1. Chronic persistent hepatitis</li><li>2. Portal Hypertension</li><li>3. Ascites</li><li>4. Hepatitis encephalopathy</li><li>5. Coagulation defects</li><li>6. Cancer</li><li>7. Shock</li></ul></li></ul>	<p><b><u>Required Readings:</u></b></p> <p>Ignatavicius and Workman: Chap. 61, pp. 1344-1360 Chap. 62, pp. 1366-1379</p> <p>LeFever Kee: pp. 17, 19, 34-38, 288-289, 365-366, 369-372, 656-664</p>	

2. Identify adaptive responses.

2.1 **FACTORS AFFECTING  
THE DEVELOPMENT OF  
HEPATITIS**

- A. Age
- B. Sex
- C. Nutritional status
- D. Lifestyles
- E. Transcultural considerations

3. Describe the nursing assessment of a client who has a disorder of the liver and pancreas.

3.1 **ASSESSMENT**

- A. Nursing history
- B. Physical assessment
- C. Diagnostic/lab tests
  - 1. Serologic Markers
  - 2. Coagulation studies

**UNIT 5C      Assessment & Management of the Client who has a disorder of the Liver, Gallbladder and Pancreas**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
3. (Con't).	3. Liver function studies: <ul style="list-style-type: none"><li>a. Transaminases -     AST (SGOT)     ALT (SGPT)     GGT</li><li>b. Alkaline phosphatase</li><li>c. Serum protein</li><li>d. Total serum bilirubin</li><li>e. Urinary bilirubin</li><li>f. Urinary urobilinogen</li></ul> 4. Liver scan		
	5. Liver biopsy		
	6. Pancreas <ul style="list-style-type: none"><li>a. Serum amylase,</li><li>b. Serum lipase</li></ul>		

D. Transcultural considerations

4. Identify nursing diagnoses for a client with a disorder of the liver and pancreas.

4.1 **NURSING DIAGNOSES**

A. Imbalanced nutrition: less than body requirements

B. Activity intolerance

C. Risk for infection

D. Excess fluid volume

E. Deficient fluid volume

F. Ineffective tissue perfusion; gastrointestinal

**UNIT 5C      Assessment & Management of the Client who has a disorder of the Liver, Gallbladder and Pancreas**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
5. Develop a plan of care to meet the needs of a client who has a disorder of the liver and pancreas.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions D. Legal-ethical considerations	<b><u>Required Reading:</u></b>  Dudek: Chap. 17	<b>Clinical Lab # 7</b>  The Learner will: 1. Identify risk factor for a client with complications of cirrhosis. 2. Interpret Laboratory test findings commonly seen 3. Identify emergency interventions for the client with bleeding esophageal varices. 4. Identify the priority nursing diagnoses 5. Evaluate the care with cirrhosis.
6. Implement a plan of care to meet the needs of a client who has the disorder of the liver and pancreas.	6. <b><u>IMPLEMENTATION</u></b>  6.1 Independent Activities A. Health promotion  6.2 Collaborative Activities	Abrams: Chap. 56-57	

- A. Medications:
1. antiemetics -
    - a. Trimethobenzamide Hydrochloride (Tigan)
    - b. dimenhydrinate (Dramamine)
  2. antiviral agents
    - a. Interferon, ribavirin (virazole)
  3. immunoglobins,
    - a. Immunoglobulin IM (gamastan, gammar) Hepatitis B
    - b. Immunoglobulin (H-BIG, H-BIGIV Hyper-Hep)
  4. Viral vaccines -
    - a. Hepatitis A vaccine inactivated (VAQTA)

**UNIT 5C      Assessment & Management of the Client who has a disorder of the Liver, Gallbladder and Pancreas**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
6. (Con't).	hepatitis A vaccine inactivated (Havtix) hepatitis B vaccine (Energix-B, recombivax- HB) 5. Vitamins -B complex, K 6. Diuretics 7. Ammonia detoxicants Lactulose		

- 8. Analgesics
- 9. Pancreatic enzymes
- 10. Insulin
- B. Procedures/Treatments
  - 1. Nutritional therapy
  - 2. Balloon tamponade
  - 3. Paracentesis
  - 4. Portocaval shunt
  - 5. Transportation
- C. Referrals/community resources
- D. Discharge planning

7. Evaluate the plan of care

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of Plan

**UNIT 6A      Assessment & Management of the Perioperative Client**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
<p>Upon completion of this unit the learner will be able to:</p> <p>1. Discuss the purpose of surgery.</p>	<p>1.1 <b><u>OVERVIEW</u></b></p> <ul style="list-style-type: none"> <li>A. Definition</li> <li>B. Purposes</li> </ul>	<p><b><u>Required Readings:</u></b></p> <p>Ignatavicius, &amp; Workman</p>	<p>The student will:</p> <ol style="list-style-type: none"> <li>1. Perform a nursing assessment.</li> <li>2. Analyze data.</li> <li>3. Formulate nursing diagnoses.</li> <li>4. Prioritize nursing diagnoses.</li> </ol>

- C. Types
  - 1. Elective
  - 2. Emergency
- D. Settings
  - 1. Inpatient
  - 2. Outpatient (same day surgery, ambulatory surgical centers, physicians offices, ambulatory care center)
- E. Complications
  - 1. Hemorrhage
  - 2. Shock
  - 3. Paralytic ileus

Chap. 16, pp. 242-263  
 Chap. 17, pp. 264-283  
 Chap. 18, pp. 285-301  
 Chap. 39, pp. 826-846  
 Chap 59, pp. 1302

CAI: Pre and post operative surgical care  
 Dudek: Chap. 16, pp. 477-486

Video to be viewed by student in Media Center:

- 1. Patient Controlled Analgesia # 858
- 2. Preoperative and postoperative care # 405

- 5. Formulate a plan to achieve client outcomes.
- 6. Implement the plan.
- 7. Evaluate client outcomes.
- 8. Communicate & collaborate with the client, family & health care providers.
- 9. Teach clients:
  - A. Preventative health care strategies
  - B. Health Maintenance
    - 1. Dietary
    - 2. Medications
    - 3. Lifestyle modifications

2. Describe the adaptive response of a client undergoing surgery.

- 2.1 **RELATED FACTORS**
  - A. Age
  - B. Nutritional Status
  - C. General Health
  - D. Prior Surgical Experience

**UNIT 6A      Assessment & Management of the Perioperative Client**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
3. Describe the nursing assessment of the client during the perioperative period.	3.1 <b><u>ASSESSMENT</u></b> A Nursing history B. Physical assessment C. Diagnostic/lab tests		<b>College Lab # 8</b>  The learner will: 1. Explain the concept of perioperative

1. CBC
2. Urinalysis
3. Chest X-ray
4. Pulmonary studies
5. EKG
6. Serum studies
  - a. CBC
  - b. Electrolytes
  - c. PT/PTT, INR
  - d. Creatinine, BUN
  - e. Liver function studies
  - f. Type & cross-match
  - g. Pregnancy
- D. Transcultural considerations

- nursing.
2. Describe the phases of the perioperative period.
3. Identify the components of a comprehensive preoperative assessment.
4. Identify personal factors that increase the client's risk for complications during and immediately following surgery.
5. Use effective communication when teaching clients and family members about what to expect during the surgical experience.
6. Identify pertinent nursing diagnoses for surgical clients
7. Identify interventions to ensure the clients' safety during surgery.
8. Recognize the clinical manifestations of malignant hyperthermia
9. Prioritize nursing interventions for the client in the post-operative period.
10. Identify potential complications
11. Identify nursing implications for pain management for the surgical client

4. Identify nursing diagnoses to meet the needs of the perioperative client.

4.1 **NURSING DIAGNOSES**

- A. Deficient knowledge
- B. Anxiety
- C. Risk for perioperative positioning injury.
- D. Impaired tissue integrity
- E. Risk for infection
- F. Ineffective thermoregulation
- G. Deficient fluid volume
- H. Delayed surgical recovery

**UNIT 6A      Assessment & Management of the Perioperative Client**

**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

5. Develop a plan of care to  
61

5.1 **PLANNING**

**Required Readings:**

meet the needs of a perioperative client.

- A. Expected outcome criteria
- B. Health promotion activities
- C. Therapeutic interventions
  - 1. Pre-op teaching
  - 2. Dietary restrictions
  - 3. Skin preparation
  - 4. Administering regularly scheduled medication
    - a. Medications:
      - 1. Anti-anxiety
      - 2. Anticholinergic
      - 3. Analgesics
      - 4. Antibiotics
      - 5. Plasma expanders
  - 5. Post-operative procedures & exercises
- D. Legal/Ethical considerations

Abrams:  
Chaps. 6, 8, 20

6. Implement a plan of care to meet the needs of the perioperative client.

## 6. IMPLEMENTATION

### 6.1 Independent Activities

A. Health promotion

### 6.2 Collaborative Activities

A. Medications

B. Anesthesia

1. General Anesthesia

a. intravenous induction agents

b. inhalation agents

## UNIT 6A      Assessment & Management of the Perioperative Client

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**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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6. (Con't).

- 2. Local Anesthesia
- 3. Regional Anesthesia
- 4. Conscious Sedation
- C. Procedures/Treatments
  - 1. positioning
  - 2. wound care
  - 3. management of tubes and drains
  - 4. pain management
    - patient controlled analgesia (PCA)
- D. Referrals/Community Resources
- E. Discharge Planning
- F. Transcultural Considerations

7. Evaluate the plan of care.

- 7. **EVALUATION**
  - 7.1 Evaluation of Outcome Criteria
  - 7.2 Revision of Plan



Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
4. Identify nursing diagnoses for a client undergoing abdominal surgical interventions.	4.1 <b><u>NURSING DIAGNOSES</u></b> A. Pain B. Risk for infection C. Deficient fluid volume	<u>CAI:</u> Clinical Simulation in Medical Surgical Nursing 1 (CD) I. Abdominal Pain II. Surgical Patient with Abdominal Pain	
5. Develop a plan of care to meet the needs of a client undergoing abdominal surgical interventions.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions D. Legal/Ethical considerations	<b>MEDICATIONS</b> 1. Antibiotics 2. Analgesics 3. Antiemetics 4. Cholesterol Solvents	
6. Implement a plan of care to meet the needs of a client undergoing abdominal surgical interventions.	6. <b><u>IMPLEMENTATION</u></b>  6.1 Independent activities A. Health promotion  6.2 Collaborative Activities A. Medications 1. Antibiotics 2. Analgesics 3. Antiemetics 4. Cholesterol Solvents B. Procedures/treatments 1. Surgery 2. Sitz bath 3. Intestinal intubation (Miller-Abbott, Cantor) 4. Disimpaction 5. Lithotripsy C. Referrals/community resources D. Discharge planning	Abrams: Chap. 6.	

7. Evaluate the plan of care

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of Plan

**Unit 7A      Assessment & Management of the Client who has Diabetes Mellitus**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
1. Discuss diabetes mellitus.	<p>1.1 <b><u>OVERVIEW</u></b></p> <p>A. Definition</p> <p>B. Pathophysiology</p> <p>C. Etiological factors</p> <p>D. Classification</p> <p>    a. Type 1</p> <p>    b. Type 2</p> <p>    c. Gestational Diabetes Mellitus (GDM)</p> <p>E. Complications</p> <p>    a. Acute</p> <p>        1. Hyperglycemia</p> <p>        2. Hyperglycemic hyperosmolar nonketotic syndrome (HHNS)</p> <p>        3. Diabetic Ketoacidosis (DKA)</p> <p>        4. Hypoglycemia</p> <p>    b. Chronic</p> <p>        <u>Macrovascular</u></p> <p>            1. Cardiovascular disease</p> <p>            2. Peripheral vascular</p> <p>            3. Cerebrovascular disease</p> <p>        <u>Microvascular</u></p> <p>            4. Retinopathy</p> <p>            5. Nephropathy</p> <p>            6. Neuropathy</p> <p>            7. Male erectile dysfunction</p>	<p><b><u>Required Readings</u></b></p> <p>Ignatavicius and Workman: Chap. 67, pp. 1465-1518</p> <p>LeFever Kee: pp. 200-209, 222-223</p> <p>Abrams: Chap. 26</p> <p>Dudek: Chap. 19, pp. 570-603</p>	<p><b>Clinical Lab # 9</b></p> <p>The Learner will:</p> <p>1. Describe the pathophysiology of diabetes mellitus.</p> <p>2. Identify risk factors and diagnostic tests to diagnose and monitor the disease.</p> <p>3. Identify the relationship between diabetic medications and disease progression.</p> <p>4. Correctly calculate and prepare doses of insulin.</p> <p>5. Describe manifestations of DKA and HHNS including relevant lab data.</p> <p>6. Describe micro and macro complications of diabetes</p> <p>7. Develop a teaching plan including strategies to prevent complications.</p>

**Unit 7A      Assessment & Management of the Client who has Diabetes Mellitus**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
2. Identify adaptive responses for client who has diabetes mellitus.	2.1 <b><u>FACTORS AFFECTING THE DEVELOPMENT OF DIABETES MELLITUS</u></b> A. Age B. Nutritional status C. Obesity D. Genetics E. Hypertension F. Transcultural considerations	CAI:  1. Clinical Simulation in Med-Surg 111 (CD) Diabetic Foot Care	Videos to be viewed by students in Media Center:
3. Describe the nursing assessment in meeting the needs of a client who has diabetes mellitus.	3.1 <b><u>ASSESSMENT</u></b> A. Nursing history B. Physical assessment C. Diagnostic/lab tests 1. Fasting blood glucose 2. Glucose tolerance test 3. Post-prandial blood glucose 4. Glycosylated serum proteins and albumen 5. Microalbuminuria test 6. Capillary blood glucose monitoring 7. Urine tests a. Ketones b. Renal function D. Transcultural considerations	1. Diabetes Mellitus # 1183  2. Expert Drug Therapy: DM # 1182	

**Unit 7A      Assessment & Management of the Client who has Diabetes Mellitus**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
4. Identify nursing diagnoses for a client who has diabetes mellitus.	4.1 <b><u>NURSING DIAGNOSES</u></b> A. Imbalanced nutrition: less than body requirements B. Risk for infection C. Ineffective health maintenance D. Ineffective therapeutic regimen management E. Disturbed body image F. Ineffective tissue perfusion G. Sexual dysfunction		
5. Develop a plan of care to meet the needs of a client who has diabetes mellitus.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health promotion activities C. Therapeutic interventions D. Legal/Ethical considerations		
6. Implement a plan of care to meet the needs of a client who has diabetes mellitus.	6. <b><u>IMPLEMENTATION</u></b>  6.1 Independent Activities A. Health promotion B. Health teaching		

- 6.2 Collaborative Activities
  - A. Medications
    - 1. Oral agents
      - a. Sulfonylureas
      - b. Meglitinides
      - c. Biguanides
      - d. Alpha glucosidase inhibitors
      - e. Thiazolidinediones

**Unit 7A      Assessment & Management of the Client who has Diabetes Mellitus**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
6. (Con't).	<ul style="list-style-type: none"> <li>2. Insulin Therapy               <ul style="list-style-type: none"> <li>a. Rapid-acting(Lispro)</li> <li>b. Short-acting (Regular)</li> <li>c. Intermediate-acting (NPH or Lente)</li> <li>d. Long-acting (Ultra-lente)</li> <li>e. Buffered Insulins (for external pumps)</li> </ul> </li> <li>B. Procedures/Treatments               <ul style="list-style-type: none"> <li>1. Lifestyle modifications</li> <li>2. Nutrition therapy</li> <li>3. Drug therapy</li> <li>4. Exercise therapy</li> <li>5. Surgery</li> </ul> </li> <li>C. Referrals/Community Resources</li> <li>D. Discharge Planning</li> </ul>		

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of the Plan

**Unit 7B      Assessment & Management of the Client who has a Metabolic/Endocrine Disorder**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
Upon completion of this unit the learner will be able to:		<u>Review</u> Bio 11&12	The student will:
1. Review the structure and function of the endocrine system.	1.1 <b><u>OVERVIEW</u></b> A. Major endocrine glands and hormones 1. Adrenal 2. Pituitary 3. Thyroid 4. Pancreas B. Classifications	<b><u>Required Readings:</u></b>  Ignatavicius and Workman: Chap. 64, pp 1412-1424 Chap. 65, pp. 1425-1447 Chap. 66, pp. 1448-1464	1. Perform a nursing assessment 2. Analyze data 3. Formulate nursing diagnoses 4. Prioritize nursing diagnoses 5. Formulate plan to achieve client outcome 6. Implement the plan 7. Evaluate client outcome 8. Communicate and collaborate with client, family, and healthy care providers 9. Teach client: a. Prevention health care
1B. Discuss common health problems associated with the endocrine system: 1. Pituitary Disorders 2. Thyroid Disorders	1. Pituitary Disorders a. Definition b. Pathophysiology c. Etiological factors d. Types	LeFever Kee: pp. 14-16, 22-23, 51-53, 324-325 408-412, 420-421	

- 3. Parathyroid Disorders
- 4. Adrenal Cortex Disorders

- e. Complications
- 2. Thyroid Disorders
  - a. Definition
  - b. Pathophysiology
  - c. Etiological factors
  - d. Types
    - 1. Hyperthyroidism
    - 2. Hypothyroidism
    - 3. Goiter
  - e. Complications
- 3. Adrenal Cortex Disorders
  - a. Definition
  - b. Pathophysiology
  - c. Types
    - 1. Cushing's Syndrome
    - 2. Addison's Disease

Abrams:  
Chaps. 21-26  
Chaps. 27-28

- strategies
- b. Health maintenance
  - 1. Dietary
  - 2. Medications
  - 3. Lifestyle modifications

**Unit 7B      Assessment & Management of the Client who has a Metabolic/Endocrine Disorder**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
2. Identify adaptive responses for the client who has an endocrine disorder.	2.1 <b><u>FACTORS AFFECTING ENDOCRINE FUNCTIONING:</u></b> A. Age B. Nutritional status C. Elimination pattern D. Activity-exercise E. Sleep-rest F. Drug therapy G. Surgery H. Chronic diseases (cardiac, renal, diabetes)		

3. Describe the nursing assessment in meeting the needs of a client who has an endocrine disorder .

3.1 **ASSESSMENT**

- A. Nursing history
- B. Physical assessment
- C. Diagnostic/lab tests
  - 1. Serum T<sub>3</sub>&T<sub>4</sub>
  - 2. TSH levels
  - 3. Radioactive Iodine Uptake
  - 4. Thyroid scan
  - 5. CT scans & MRI (ECG)
  - 6. ACTH- stimulation test
- D. Transcultural considerations

**Unit 7B      Assessment & Management of the Client who has a Metabolic/Endocrine Disorder**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
4. Identify nursing diagnoses for client with an endocrine disorder.	4.1 <b><u>NURSING DIAGNOSES</u></b> <ul style="list-style-type: none"> <li>A. Activity intolerance</li> <li>B. Imbalanced nutrition less/more than body requirements</li> <li>C. Ineffective thermoregulation</li> <li>D. Constipation</li> <li>E. Risk for infection</li> <li>F. Disturbed body image</li> <li>G. Sexual dysfunction</li> </ul>		

5. Develop a plan of care to meet the needs of a client who has an endocrine disorder.

6. Implement a plan to care to meet the needs of a client who has an endocrine disorder.

5.1 **PLANNING**

- A. Expected outcome criteria
- B. Health promotion activities
- C. Therapeutic Interventions
- D. Legal/Ethical considerations

6. **IMPLEMENTATION**

6.1 Independent Activities

- A. Health promotion

6.2 Collaborative Activities

A. Medications

1. Thyroid

- a. Iodine
- b. Beta blockers
- c. Thyroxine
- d. Anti thyroid medications

**Unit 7B      Assessment & Management of the Client who has a Metabolic/Endocrine Disorder**

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**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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6. (Con't).

- 2. Adrenal
  - a. Vasopressors
  - b. Steroids
  - c. Hypothalamic
  - d. Serotonin antagonist
- B. Procedures/Treatment:

- 1. Radiation
- 2. Surgery
- C. Referrals/Community Resources
- D. Discharge planning

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of the Plan

**Unit 8A      Assessment and Management of the Client who has Renal Failure**

**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

Upon completion of this unit the learner will be able to:

Review:  
Nur-18  
Biology 11 & 12

The student will:  
1. Perform a nursing assessment.

1. Discuss the structure and function of the urinary system.
2. Discuss common genitourinary disorders:
  1. Infections
  2. Renal calculi
  3. Nephrotic Syndrome

1. **OVERVIEW**

2.1. **COMMON GENITOURINARY DISORDERS**

1. Infectious and Inflammatory
  - A. Disorders of the Urinary System:
    - a. UTI, Cystitis,
    - b. Pyleonephritis
    - c. Urethritis,
    - d. Nephrotic Syndrome
  - B. Definition
  - C. Pathophysiology
  - D. Classifications
  - E. Etiological factors
  - F. Complications
2. Urolithiasis-Renal calculi
  - A. Definition
  - B. Pathophysiology
  - C. Classifications
  - D. Etiological factors
  - E. Complications Pattern
  - F. Chronic diseases

**Required Readings**

Ignatavicius and Workman:  
 Chap. 68, pp. 1526-1549  
 Chap. 69, pp. 1550-1579  
 Chap. 70, pp. 1586-1590

Le Fever-Kee:  
 pp. 430-436, 652-655,  
 34-5

Dudek:  
 Chap. 20 pp. 605-633

2. Analyze data.
3. Formulate nursing diagnoses.
4. Prioritize nursing diagnoses.
5. Formulate a plan to achieve client outcomes.
6. Implement the plan.
7. Evaluate client outcomes.
8. Communicate and collaborate with client, family and health care providers.
9. Teach client:
  - a. Preventive health care strategies
  - b. Health maintenance
    1. dietary
    2. Medications
    3. Lifestyle modifications

**College Lab # 10**

The Learner will:

1. Describe Chronic Renal Failure.(CHF)
2. Identify clients at risk.
3. Identify the three basic stages of CHF.
4. Use lab data and clinical assessment to determine the effectiveness of therapy.
5. Prioritize nursing care for the client with ESRD
6. Discuss the mechanisms for peritoneal and hemodialysis.
7. Prioritize teaching needs for Clients with PD

**Unit 8A      Assessment and Management of the Client who has Renal Failure**

**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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3. Identify adaptive responses for the client who has a genitourinary disorder.

3.1 **FACTORS AFFECTING URINARY FUNCTIONING**

- A. Age
- B. Elimination patterns
- C. Nutritional status
- D. Activity- Exercise pattern
- E. Drug therapy
- F. Chronic disease

- 8. Discuss the criteria for kidney donation.
- 9. Prioritize nursing care for the client post kidney transplant.

4. Describe the nursing assessment of the client who has a genitourinary disorder.

4.1 **ASSESSMENT**

- A. Nursing history
- B. Physical history
- C. Diagnosis/Lab tests
  - 1. Urinalysis & cultures
  - 2. Blood Chemistries
  - 3. Radiological Procedures
  - 4. Renal Radio-nuclide Imaging
  - 5. Endoscopy/Cystoscopy
  - 6. Urodynamics
  - 7. Invasive procedures
  - 8. Stone analysis
  - 9. KUB x-rays
  - 10. Intravenous Pyelogram (IVP)
- D. Transcultural Considerations

Unit 8A      Assessment and Management of the Client who has Renal Failure

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**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

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5. Identify nursing diagnoses for a client who has a genitourinary disorder.

- 5.1 **NURSING DIAGNOSES**  
A. Pain  
B. Impaired Urinary Elimination  
C. Risk for Infection  
D. Ineffective tissue perfusion: renal  
E. Disturbed Body Image

6. Develop a plan of care to meet the needs of a client who has a genitourinary disorder.

- 6.1 **PLANNING**  
A. Expected outcome criteria  
B. Health promotion activities  
C. Therapeutic Interventions  
D. Legal/Ethical considerations

7. Implement a plan of care to meet the needs of a client who has a genitourinary disorder.

7. **IMPLEMENTATION**  
7.1 Independent Activities  
A. Health promotion

**Unit 8A      Assessment and Management of the Client who has Renal Failure**

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<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
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7. (Con't).

- 7.2 Collaborative Activities
  - A. Medications
    - 1. Antimicrobial agents
    - 2. Sulfamethoxazole
    - 3. Systemic Antibiotics
      - a. Nitrofurantoin
      - b. Fluoroquinolones
    - 4. Phenazopyridine
    - 5. Metronidazole
    - 6. Antispasmodics
  - B. Procedures/Treatments
    - 1. Drug therapy
    - 2. Nutritional therapy
    - 3. Lithotripsy
    - 4. Nephrolithotomy
    - 5. Pyelolithotomy
  - C. Referrals/Community Resources
  - D. Discharge Planning

8. Evaluate the care plan.

- 8. **EVALUATION**
  - 8.1 Evaluation of Outcome Criteria
  - 8.2 Revision of Plan

**Unit 8B      Assessment & Management of the Client who has Renal Failure**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
1. Discuss renal failure .	1.1 <b><u>OVERVIEW OF RENAL FAILURE</u></b> A. Definition B. Pathophysiology C. Etiological factors D. Classifications 1. Acute renal failure 2. Chronic renal failure E. Complications	<b><u>Required Readings:</u></b>  Ignatavicius and Workman: Chap 71, pp. 1600-1636  Video be viewed by students in Media Center: 1. Acute and Chronic Renal Failure #1178	
2. Identify adaptive responses for the client who has renal failure.	2.1 <b><u>FACTORS AFFECTING ONSET OF RENAL FAILURE:</u></b> A. Age B. Chronic disease C. Drug therapy D. Lifestyle E. Transcultural considerations		
3. Describe the nursing assessment in meeting the needs of client who has acute/chronic renal failure	3.1 <b><u>ASSESSMENT</u></b> A. Nursing history B. Physical assessment C. Diagnostic/Lab tests 1. Renal Ultrasound 2. Renal Scan 3. CT Scan 4. Blood Chemistries & Electrolytes 5. Urinalysis and urine culture 6. BUN/Creatinine levels 7. Complete Blood Count (CBC)		

D. Transcultural Considerations

**Unit 8B      Assessment & Management of the Client who has Renal Failure**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
4. Identify nursing diagnoses for a client who has acute/chronic renal failure.	4.1 <b>NURSING DIAGNOSES</b> A. Risk for imbalanced fluid volume B. Impaired Skin Integrity C. Risk for Injury D. Activity Intolerance E. Imbalanced Nutrition less than body requirements F. Impaired urinary elimination G. Disturbed body image		
5. Develop a plan of care to meet the needs of a client who has acute/chronic renal failure.	5.1 <b><u>PLANNING</u></b> A. Expected outcome criteria B. Health Promotion Activities C. Therapeutic Interventions D. Legal/Ethical considerations		
6. Implement a plan of care to meet the needs of a client who has acute/chronic renal failure.	6. <b><u>IMPLEMENTATION</u></b> 6.1 Independent Activities A. Health promotion		

**Unit 8B      Assessment & Management of the Client who has Renal Failure**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
6. (Con't).	6.2 Collaborative Activities A. Medications: 1. Diuretics 2. Cadiotonics 3. Vitamins & minerals 4. Phosphate binders 5. Stool softeners & laxatives B. Procedures/Treatments 1. Drug therapy 2. Nutritional therapy 3. Dialysis a. Hemodialysis b. Peritoneal dialysis 4. Transplantation a. Pre-op/Post-op care b. Rejection C. Referrals/Community Resources D. Discharge Planning		
7. Evaluate the plan of care.	7. <b><u>EVALUATION</u></b>  7.1 Evaluation of Outcome Criteria  7.2 Revision of Plan		

**Unit 9A. Assessment & Management of the Client who has an Immune Response Disorder: Inflammation, Infection, Allergy**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
<p>Upon completion of this unit the learner will be able to:</p> <p>1. Discuss local and systemic immune responses.</p>	<p>1.1 <b><u>OVERVIEW</u></b></p> <p>A. Definitions</p> <p>a. Cell Injury response</p> <p>    Local immune response</p> <p>    Systemic immune response</p> <p>b. Inflammation Response</p> <p>c. Infections</p> <p>    1. Community acquired</p> <p>    2. Hospital acquired (nosocomial infection)</p> <p>d. Antigen - antibody interactions</p> <p>e. Allergic – anaphylactic reactions</p> <p>B. Pathophysiology</p> <p>C. Etiological Factors</p> <p>D. Complications</p> <p>    1. Shock</p>	<p>Review Topics-Nur18, BIO 11, 12 &amp; 51</p> <p><b><u>Required Readings:</u></b></p> <p>Ignatavicus &amp; Workman: Chap.19, pp 306-321 Chap.22, pp 387-394 Chap.25, pp.440-456</p> <p>LeFever Kee: pp. 731-733</p> <p>Abrams:</p>	<p>The learner will:</p> <ol style="list-style-type: none"> <li>1. Perform a nursing assessment</li> <li>2. Analyze data</li> <li>3. Formulate a nursing diagnoses</li> <li>4. Prioritize nursing diagnosis</li> <li>5. Formulate a plan to achieve client outcomes.</li> <li>6. Implement the plan</li> <li>7. Evaluate client outcomes.</li> <li>8. Communicate and collaborate with client, family, and healthcare providers.</li> <li>9. Teach clients             <ol style="list-style-type: none"> <li>a. preventative health strategies</li> <li>b. health maintenance                 <ol style="list-style-type: none"> <li>1. dietary</li> <li>2. medication use</li> </ol> </li> </ol> </li> </ol>

- 2. Transfusion reactions
- 3. Anaphylaxis

Chap. 35  
Chap.45

3. lifestyle modifications

- 2. Identify adaptive responses for the client who has immune response disorder: Inflammation/Infection.

2.1 **RELATED FACTORS**

- A. Age
- B. Sex
- C. Nutritional Status
- D. Genetics
- E. Status of Immune System
- F. Chronic Disease
- G. Environmental Factors
- H. Transcultural considerations

**Unit 9A. Assessment & Management of the Client who has an Immune Response Disorder: Inflammation, Infection, Allergy**

Learner Objectives	Content Outline	Related Learner Experiences	Clinical Objectives
3. Describe the Nursing assessment in meeting the needs of a client who has an immune response disorder: Inflammation/Infection.	3.1 <b><u>ASSESSMENT</u></b> A. Nursing History B. Physical Assessment C. Diagnostic Tests 1. Complete Blood Count (CBC) 2. Culture and Sensitivity of Body Fluids. 3. Allergy Testing D. Legal/Ethical Consideration		
4. Identify nursing diagnoses for a client who has immune response disorder: Inflammation/Infection.	4.1 <b><u>NURSING DIAGNOSES</u></b> A. Risk for Infection B. Impaired tissue Integrity C. Impaired Physical Mobility D. Imbalanced Nutrition: greater than or less than		

body Requirements.

5. Develop a plan of care to meet the needs of a client who has immune response disorder: Inflammation/Infection.

6. Implement a plan of care to meet the needs of a client with an immune response disorder: Inflammation/Infection.

5.1 **PLANNING**

- A. Expected Outcome Criteria
- B. Health Promotion Activities
- C. Therapeutic Interventions
- D. Legal/Ethical Considerations

6. **IMPLEMENTATION**

- 6.1 Independent Activities
  - A. Health Promotion

**Unit 9A. Assessment & Management of the Client who has an Immune Response Disorder: Inflammation, Infection, Allergy**

<b>Learner Objectives</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
6. (Con't).	6.2 Collaborative Activities <ul style="list-style-type: none"><li>A. Medications<ul style="list-style-type: none"><li>1. Anti-Inflammation<ul style="list-style-type: none"><li>a. Tetracyclines</li><li>b. Aminoglycosides</li><li>c. Cephalosporins</li><li>d. Macrolides</li><li>e. Penicillins</li><li>f. Quinolones</li><li>g. Sulfonamides</li></ul></li><li>2. Anti-virals</li><li>3. Anti-histamines</li><li>4. Corticosteroids</li></ul></li></ul>		

- 5. Vaccines
- 6. Sympathomimetics
  - a. Epinephrine

- B. Procedures and Treatments
  - 1. Desensitization
- C. Referrals/Community Resources
- D. Discharge Planning/  
Community Resources
- E. Transcultural Considerations

7. Evaluate the plan of care for a client with an immune response disorder: Inflammation/Infection.

- 7. **EVALUATION**
- 7.1 Evaluation of Outcome Criteria
- 7.2 Revision of Plan

**Unit 9B      Assessment & Management of the Client who has HIV and AIDS**

Learner Objective	Content Outline	Related Learner Experiences	Clinical Objectives
1. Describe concepts related to an immune disorder: Acquired Immune Deficiency Syndrome (AIDS).	1. <b><u>OVERVIEW</u></b> A. Definition B. Pathophysiology C. Etiological Factors D. Complications <ul style="list-style-type: none"> <li>1. Opportunistic Infections Overview</li> </ul>	<b><u>Required Readings:</u></b>  Ignatavicus & Workman Chap. 21, pp. 362-386  LeFever Kee: pp. 240-249, 730-731	The learner will: <ul style="list-style-type: none"> <li>1. Perform a nursing assessment.</li> <li>2. Analyze data.</li> <li>3. Formulate a nursing diagnoses.</li> <li>4. Prioritize nursing diagnoses.</li> <li>5. Formulate a plan to achieve client outcomes.</li> <li>6. Implement the plan.</li> </ul>

2. Identify adaptive response for a client who has immune response disorder: AIDS.

2.1. **RELATED FACTORS**

- A. Exposure route
- B. Frequency of exposure
- C. Type of HIV virus
- D. Time elapsed between infection and treatment
- E. Age-related factors
  - 1. perinatal transmission
  - 2. adult
  - 3. older adult
- F. Viral replication time
- G. Concurrent infections
- H. Transcultural considerations

- 7. Evaluate client outcomes.
- 8. Communicate and collaborate with client, family, and healthcare providers.
- 9. Teach clients.
  - A. preventive health strategies
  - B. health maintenance
    - 1. dietary
    - 2. medication use
    - 3. lifestyle modifications

3. Describe the nursing assessment in meeting the needs for a client who has Immune Response Disorder: AIDS.

3.1 **ASSESSMENT**

- A. Nursing History
- B. Physical Assessment

**Unit 9B      Assessment & Management of the Client who has HIV and AIDS**

Learner Objective	Content Outline	Related Learner Experiences	Clinical Objectives
3. (Con't).	C. Diagnostic Tests/Labs <ul style="list-style-type: none"> <li>1. HIV Antibody Tests               <ul style="list-style-type: none"> <li>a. ELISA</li> <li>b. Western Blot Test</li> </ul> </li> <li>2. HIV-RNA Viral Load Testing</li> </ul>	<b><u>Required Readings:</u></b>  Abrams: Chap. 34 -37	

3. CD4- T cell count

Dudek: Chap. 21

4. Identify the nursing diagnosis for a client with an immune response disorder: AIDS.

- 4.1 **NURSING DIAGNOSIS**
- A. Ineffective Protection
  - B. Risk for Infection
  - C. Ineffective Health Maintenance
  - D. Imbalanced Nutrition: Less than Body Requirements
  - E. Diarrhea
  - F. Social Isolation

CAI:

- 1. Clinical Simulations in Med Surg III (CD) I - Nursing Management in HIV Testing and Counseling
- 2. Nursing care of the Patient with Comprised Immunity Series (CD)

5. Develop a plan of care to meet the needs of a client who has immune response disorder: AIDS.

- 5.1 **PLANNING**
- A. Expected Outcome Criteria
  - B. Health Promotion Activities
  - C. Therapeutic Interventions
  - D. Legal/Ethical Considerations

6. Implement a plan of care to meet the needs of a client with an immune response disorder: AIDS.

6. **IMPLEMENTATION**
- A. Health promotion-Teaching

**Unit 9B      Assessment & Management of the Client who has HIV and AIDS**

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<b>Learner Objective</b>	<b>Content Outline</b>	<b>Related Learner Experiences</b>	<b>Clinical Objectives</b>
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6. (Con't).

- 6.1 Collaborative Activities
- 1. Anti-virals

- 2. Nucleoside Reverse Transcriptase Inhibitors (NRITs)
- 3. Non-Nucleoside Reverse Transcriptase Inhibitors (NNRITs)
- 4. Protease Inhibitors
- 5. Nutritional Supplements

- 6.2 Procedures/Treatments
  - A. Parental Nutritional
  - B. Referral/Community Resources
  - C. Discharge Planning and Community Resources
  - D Transcultural Considerations

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of Plan

**UNIT 10A                      Assessment of a Client who has a Fracture**

**Learner Objectives**

**Content Outline**

**Related Learner Experiences**

**Clinical Objectives**

1. Discuss common fractures, dislocations, sprains and rotator cuff injuries.

1.1 **OVERVIEW OF FRACTURES**

- A. Definition
- B. Pathophysiology
- C. Etiological factors
- D. Complications\_
  - 1. infection
  - 2. compartment syndrome
  - 3. venous thrombosis
  - 4. fat embolism

1.2 Classification:

- A. Complete
- B. Incomplete
- C. Compound
- D. Comminuted

2. Identify adaptive responses for a client with a fracture.

2.1 **FACTORS AFFECTING THE OCCURRENCE OF A FRACTURE**

- A. Age
- B. Sex
- C. Lifestyle
- D. Nutrition
- E. Disease

Review BIO 11/BIO 12  
Musculoskeletal system

**Multi-Media shown in class**

- 1. Nursing care of the Orthopedic Patient  
Part I - Casts #812
- 2. Nursing Care of the Orthopedic Patient  
Part II – traction

**Required Readings:**

Ignatavicius & Workman:  
Chap. 20, pp. 328-335  
Chap. 52, pp. 1153-1160,  
1164-1167  
Chap. 54, pp. 1178-1209

Abrams:  
Chap. 6  
Chap. 7  
Chap. 13  
Chap. 57

LeFever Kee:  
pp 675-678

Videos to be viewed by students  
in Media Center:

- 1. Traction: Checks and Balances #810
- 2. Pre and Post Care of the Orthopedic Patient. #1107

**College Lab # 11**

The Learner will:

- 1. Explain typical clinical manifestations of client who has a fractured hip.
- 2. Perform an assessment of a client who has a fractured hip.
- 3. State the nursing interventions in the client's care.
- 4. Formulate nursing diagnoses.
- 5. Describe nursing care of a client who is in traction.
- 6. Discuss the pre and post nursing care of a client who has a fractured hip.
- 7. Discuss potential complications t in a client who had a hip replacement
- 8. List interventions that would prevent complications is the post operative client who had a hip replacement.

- 
- |  |  |
|--|--|
| 3. Describe the nursing assessment of a client who has a fracture. | 3.1 <b><u>ASSESSMENT</u></b> <ul style="list-style-type: none"><li>A. Nursing history</li><li>B. Physical assessment</li><li>C. Diagnostic/lab tests<ul style="list-style-type: none"><li>1. X-Ray</li><li>2. CT Scan</li><li>3. MRI</li></ul></li><li>D. Transcultural considerations</li></ul>                   |
| 4. Identify nursing diagnoses for a client who has a fracture.     | 4.1 <b><u>NURSING DIAGNOSES</u></b> <ul style="list-style-type: none"><li>A. Risk for peripheral neurovascular dysfunction</li><li>B. Impaired physical mobility</li><li>C. Pain</li><li>D. Risk for disuse syndrome</li><li>E. Risk for infection</li><li>F. Ineffective therapeutic regimen management</li></ul> |
| 5. Develop a plan of care for a client who has a fracture.         | 5.1 <b><u>PLANNING</u></b> <ul style="list-style-type: none"><li>A. Expected outcome criteria</li><li>B. Health promotion activities</li><li>C. Therapeutic interventions</li><li>D. Legal ethical considerations</li></ul>  |

**Learner Objectives****Content Outline****Related Learner Experiences****Clinical Objectives**

6. Implement a plan of care for a client who has a fracture.

6. **IMPLEMENTATION**

6.1 Independent Activities

A. Health promotion

6.2 Collaborative Activities

A. Medications

1. analgesics/PCA

2. anti coagulants

3. stool softeners

B. Procedures/treatments

1. casts

2. traction

3. surgery (ORIF Prosthesis)

C. Referrals/community resources

1. OT

2. PT

3. Rehabilitation

D. Discharge planning

7. Evaluate the plan of care.

7. **EVALUATION**

7.1 Evaluation of Outcome Criteria

7.2 Revision of the Plan of Care

**College Lab # 12**

The Learner will:

1. Describe the clinical manifestations associated with the compensatory mechanisms of shock.

2. Identify clients who are at risk for hypovolemic, septic and anaphylactic shock.

3. Use laboratory data and clinical manifestations that will determine the effectiveness of interventions.

4. Explain the basis for intravenous

5. Describe the mechanisms of action, side effect and nursing implications for the pharmacologic management of shock.

6. Prioritize nursing interventions for non-progressive stage of shock

7. Evaluate the effectiveness of The nursing interventions

