

**LAST REVIEW:** 2009-2010  
*(i.e. 2003-2004)*

**NEXT REVIEW:** 2014-2015  
*(i.e. 2008-2009)*

**STATUS:** A  
*(A, I, D)*

**COURSE TITLE:** Refresher Nurse Update

**COMMON COURSE NUMBER:** NUR2270 (NSP 2860)

**CREDIT HOURS:** 5

**CONTACT HOUR BREAKDOWN**

*(per 16 week term)*

**CLOCK HOURS:**  
*(Voc. Course ONLY)*

Lecture: 84    Lab:

Clinic:                      Other:

**PREREQUISITE(S):** Active Florida R. N. license, Current BLS Certificate (Health Care Provider), Physical Examination

**COREQUISITE(S):** NONE

**PRE/COREQUISITE(S):** NONE

**COURSE DESCRIPTION** *(750 characters, maximum):*

This course has been developed to review current theory in relation to nursing practice so that the inactive R.N. may be able to move with confidence into a staff nurse orientation and return to practice. The material presented will emphasize trends in nursing practice and nursing education today changes in the fundamentals of nursing skills necessary for providing effective nursing care in a variety of situation and a reasonable comprehensive review of the up to date nursing management of the adult patient with a medical surgical problem.

### **UNIT TITLES**

1. Introduction
2. Communication
3. Nursing Today
4. Human Needs
5. The Surgical Patient
6. G. I. and Endocrine
7. Cardiac
8. Respiratory
9. Neurology and Musculoskeletal
10. Oncology and Chemotherapy
11. Urological System

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## **UNITS**

### **Unit 1 Introduction**

**General Outcome:** Upon successful completion of this course, the students should be able to demonstrate safe, effective nursing care for medical-surgical patients.

**1.0 The student shall:** Be able to describe the purpose of the course.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 1.1** Identify other nurses in the course.
- 1.2** Interpret the philosophy of the course.
- 1.3** State the attendance policy.
- 1.4** Identify the requirements of continuing education for license renewal.
- 1.5** Use the units as tools for independent study.
- 1.6** Using the library skillfully.
- 1.7** Demonstrate familiarity with the learning resource program and audio visual equipment.
- 1.8** Define the role of the nurse.
- 1.9** Identify the professional organizations and publications currently available to nurse.
- 1.10** Give five other resources aside from text to supplement this course.
- 1.11** Complete the hospital orientation check list.
- 1.12** Complete the skills check list.
- 1.13** Identify codes and/or numbers used for emergencies.
- 1.14** Identify chart forms.
- 1.15** Identify the method of charting medications administered.
- 1.16** Complete a nursing history.
- 1.17** Demonstrate accuracy of taking V/S.
- 1.18** Demonstrate the selection of a vein and the insertion of the needle into a vein.
- 1.19** Demonstrate how to calculate the number of gtts/min. from a physician's order, with a given set.
- 1.20** Demonstrate aseptic technique when changing a sterile dressing.
- 1.21** Demonstrate aseptic technique when catherizing a simulated model.



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**Unit 2 Communication**

**General Outcome:**

- 2.0 The student shall:** Be able to describe methods for effective communication in nursing practice.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 2.1 Identify three types of charting.
- 2.2 Select specific information to be recorded.
- 2.3 Review charting as currently done.
- 2.4 Use concise medical terminology.
- 2.5 Evaluate the quality of charting.
- 2.6 Demonstrate knowledge of medical abbreviations.
- 2.7 Demonstrate the procedure for correcting errors when charting.
- 2.8 State several methods of promoting effective communications.
- 2.9 Name the two major types of communication.
- 2.10 Develop a nursing care plan.
- 2.11 Identify the components of the nursing process.
- 2.12 Define the nursing process.
- 2.13 Identify sources of information utilized in planning patient care.
- 2.14 Indicate the role of members of the health care team.
- 2.15 Understand the organization flow of the nurses station.
- 2.16 List the responsibilities of the team leader.
- 2.17 Indicate the role of the nursing in primary nursing.
- 2.18 Plan and evaluate teaching needs for a specific patient.
- 2.19 List the four processes used for physical assessment.
- 2.20 Give the steps to perform a complete physical assessment.
- 2.21 Care for a patient needing complete supportive care doing the following:
  - A. Obtain a nursing history.
  - B. Write a nursing care plan.
  - C. Implement nursing care plan.
  - D. Evaluate and revise nursing care plan.
  - E. Identify all drugs administered to the patient.
  - F. Identify patient teaching needs.
  - G. Demonstrate awareness of patient safety factors.
  - H. Perform ROM exercises.

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**Unit 3 Nursing Today**

**General Outcome:**

**3.0 The student shall:** Be able to describe current nursing practice.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 3.1** Identify the process of auditing.
- 3.2** Give three purposes to audit.
- 3.3** Define quality assurance.
- 3.4** Explain the purpose of the Nurse Practice Act.
- 3.5** State the legal responsibilities of a registered nurse in matters pertaining to:
  - A. Ethics
  - B. Confidentiality
  - C. Supervision
  - D. Patient safety
- 3.6** Identify the legal aspects of bedside care for a selected patient needing custodial care.
- 3.7** Discuss "Incident Report" procedures and forms.
- 3.8** Discuss "Medication Error" procedure and forms.
- 3.9** Name the three types of fires and extinguishers.
- 3.10** Review the code and procedure for fires at clinical facility.

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**Unit 4 Human Needs**

**General Outcome:**

- 4.0 The student shall:** Be able to describe methods utilized in meeting basic human needs.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 4.1** Administer medications safely.
- 4.2** Perform the following:
- A. Select the right medication.
  - B. Give medication at the right time.
  - C. Prepare the right dose.
  - D. Use safe and effective techniques for administering drugs via:
    - 1. Inhalator
    - 2. Oral
    - 3. Rectal
    - 4. Z-track
    - 5. Instillation of drops
    - 6. Subcutaneous
    - 7. Intramuscular
    - 8. Intradermal
    - 9. Intravenous
  - E. Give medication to the right person
  - F. Chart, record and report medications given
- 4.3** Demonstrate familiarity with:
- A. Medication kardex
  - B. IV flow sheets
  - C. Narcotic dispensing
  - D. Transcribing medication orders
  - E. Charting of medications given or omitted.
- 4.4** Demonstrate ability to transpose measurements from the apothecary, metric and household systems.
- 4.5** State signs and symptoms of hyponatremia, hypernatremia, hypokalemia, hyperkalemia, hypocalcemia, hypercalcaemia and hypochloremic.
- 4.6** Define metabolic and respiratory imbalance.
- 4.7** Identify five do's for administering blood.
- 4.8** Identify six don'ts for administering blood.
- 4.9** Name three common therapeutic diets and foods permitted on them.
- 4.10** Name the basic nutrients and their functions.
- 4.11** List the fat-soluble vitamins.
- 4.12** List four ways fluids are eliminated.

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- 4.13** Demonstrates awareness of three different religions and how their beliefs affect patient care.
- 4.14** Discuss attitudes towards death.
- 4.15** Identify their feelings towards death.
- 4.16** List the five stages of dying according to Kubler-Ross.
- 4.17** State ways of helping the family of the dying patient.

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**Unit 5 The Surgical Patient**

**General Outcome:**

**5.0 The student shall:** Be able to describe perioperative nursing care.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 5.1** Define medical and surgical asepsis.
- 5.2** Assess the needs of the patient with an inflammation as to:
  - A. Signs and symptoms identification.
  - B. Institution of appropriate nursing care measures.
  - C. Appropriate reporting and recording of data.
- 5.3** Assess the nursing needs of a patient with an infection.
- 5.4** Assess the patient's learning needs as regards prevention and treatment of infections.
- 5.5** Define the types of isolation technique and the purpose for the use of each.
- 5.6** Maintain sterile technique while doing procedures calling for surgical asepsis.
- 5.7** Identify the psycho-social needs of the pre-operative patient.
- 5.8** List the areas of teaching to be considered by the nurse when preparing the patient for surgery:
  - A. Information related to the specific surgical procedure to be performed.
  - B. Information related to the nurse patient activities before, during and after surgery.
- 5.9** List the reasons for the use of common diagnostic tests on the pre-operative patient, including X-rays, blood chemistry, CBC, urinalysis, EKG, and coagulation studies.
- 5.10** List the methods utilized for collection of specimens:
  - A. Urine
  - B. Stool
  - C. Wound
- 5.11** List the preparations that must be checked prior to surgery.
- 5.12** Discuss pre-operative check list.
- 5.13** Differentiate between the various types of anesthesia (general, spinal, local).
- 5.14** Assess the psychological and physical needs of the patient immediately following surgery.
- 5.15** Care for a post-operative patient:
  - A. Demonstrate nursing skills (ex. comfort, activity, fluid and electrolyte balance, and prevention of complications).
  - B. Write a nursing care plan.
  - C. Identify all drugs administered to patient.
  - D. Implement and evaluate care plan as needed.
- 5.16** Describe the functions of the infection control nurse.
- 5.17** Give the nursing measures to prevent infection.

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**Unit 6 G.I. and Endocrine**

**General Outcome:**

- 6.0 The student shall:** Be able to describe the care of a patient with an alteration G. I or Endocrine.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 6.1** Describe the individualized nursing care for persons experiencing common symptoms of diarrhea, constipation, nausea and vomiting.
- 6.2** Identify the categories of common medications, actions, side effects, etc. in the following:
- A. Antacids
  - B. Anticholinergics
  - C. sedatives
  - D. Antiemetics
  - E. Cathartics
  - F. Antidiarrheals
  - G. Antibiotics
  - H. Diuretics
- 6.3** Describe the systematic assessment including nursing history and physical assessment of a patient with a G. I. disorder.
- 6.4** Discuss the nurse's role in assisting with the following diagnostic procedures:
- A. Gastric analysis
  - B. Barium swallow Small bowel series
  - C. Barium enema
  - D. Endoscopy
  - E. Sigmoidoscopy
  - F. Colonoscopy
- 6.5** Describe or perform insertion of a Levine tube.
- 6.6** Describe or perform insertion of Salem-Sump.
- 6.7** Plan care for a patient with a nasal gastric and/or Salem Sump which is connected to suction.
- 6.8** Identify signs and symptoms, treatment and nursing care of a person with carcinoma of the stomach.
- 6.9** Care for a selected patient who has had a gastric resection:
- A. Write a nursing care plan.
  - B. Assess emotional factors.
  - C. Identify all medications administered to patient.
  - D. Identify patient teaching needs.

- 6.10** Identify principles and nursing measures when administering care to a person with a gastrostomy tube, including feeding, emotional factors, rehabilitation, patient and family teaching.

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- 6.11** Differentiate between the following intestinal and stomach tubes including their purposes and the nursing responsibilities:
- A. Miller-Abbott
  - B. Cantor
  - C. Salem Sump
  - D. Levine
- 6.12** Demonstrate the irrigation of a colostomy.
- 6.13** Identify the different types of colostomies.
- 6.14** Explain the nursing responsibilities for a patient who has had a liver biopsy.
- 6.15** Identify the etiology, incidence, signs and symptoms, treatment and nursing care for a patient with hepatitis (serum and infectious).

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**Unit 7 Cardiac**

**General Outcome:**

- 7.0 The student shall:** Be able to describe the care of a patient with an alteration in cardiac function.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 7.1** Define the electrophysiology of the heart.
- 7.2** State the physiologic cause of angina pectoris and describe the typical characteristics of a patient experiencing an attack of angina.
- 7.3** List signs and symptoms for a myocardial infarction.
- 7.4** Know significance of CPR, LDH and SGOT.
- 7.5** Compare the difference of the following D tests:
- A. Aortogram
  - B. Arteriogram
  - C. Cardiac catheterization
- 7.6** Define the following including treatment and nursing care:
- A. NSR
  - B. Atrial fibrillation
  - C. Ventricular tachycardia
  - D. Ventricular fibrillation
  - E. Cardiac standstill
- 7.7** List five complications of a M.I.
- 7.8** Describe classification, actions, mode of administration and side effects of the following drugs:
- A. Heparin
  - B. Demerol
  - C. Coumadin
  - D. Dicumarol
  - E. Mephyton
  - F. Aldactazide
  - G. Aldactone
  - H. Aldomet
  - I. Apresoline
  - J. Peritrate
  - K. Na Bicarbonate
  - L. Nitroprusside
  - M. Diuril
  - N. Hydrodiuril
  - O. Isuprel
  - P. Dilantin

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- Q. Regitine
  - R. Levophed
  - S. Quinidine
  - T. Calcium Gluconate
  - U. Cedilanid
  - V. Edecrin
  - W. Ismelin
  - X. Dopamine
  - Y. Aramine
  - Z. Protamine
  - AA. Digoxin
  - BB. Pronestyl
  - CC. Atropine
  - DD. Inderol
  - EE. Lidocaine
  - FF. Nitroglycerin
  - GG. Isordil
  - HH. Serpasil
- 7.9** Write a care plan for a patient with an M. I.; include the following:
- A. Diet
  - B. Rest
  - C. Activity
  - D. Health teaching
  - E. Emotional support
- 7.10** Differentiate between digitalization and digitalis toxicity.
- 7.11** Identify the signs and symptoms of cardiac arrest.
- 7.12** Take apical pulse.
- 7.13** Identify signs and symptoms found in patients with CHF and pulmonary edema.
- 7.14** Write a hypothetical plan for the use of rotating tourniquets; including purpose, rotation, direction, time span and removal.
- 7.15** Describe two theories about the etiology of hypertension.
- 7.16** Differentiate between the types of hypertension.
- 7.17** Identify foods that would be appropriate for a low sodium diet.
- 7.18** Given a list of the following blood or blood related disorders, describe the symptoms, treatment and nursing care of each:
- A. Pernicious anemia
  - B. Purpura
  - C. Polycythemia vera
  - D. Agranulocytosis
  - E. Hodgkins Disease
  - F. Infectious Mononucleosis
  - G. Lymphosarcoma
- 7.19** Compare a list of foods high in iron.

- 7.20** Compare the symptoms and treatment of anemia's due to blood loss, destruction of red blood cells, and bone marrow failure.

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**Unit 8 Respiratory**

**General Outcome:**

- 8.0 The student shall:** Be able to describe the care of a patient with an alteration in respiratory function.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 8.1** Define the following diagnostic tests and the nursing implications of each.
- A. Chest X-ray
  - B. Bronchography
  - C. Angiography
  - D. Lung scan
  - E. Bronchoscopy
  - F. Thoracentesis
  - G. Biopsy
  - H. Pulmonary echogram
  - I. Sputum examination
  - J. Blood gas analysis
  - K. Pulmonary function tests.
- 8.2** Define the following terminology:
- A. Abdominal respirations
  - B. Apnea
  - C. Bradypnea
  - D. Cheyne-Stokes
  - E. Dyspnea
  - F. Eupnea
  - G. Gasping
  - H. Hyperpnea
  - I. Hyperventilation
  - J. Mediastinal sheft
  - K. Pulse pressure
  - L. Flail chest
  - M. Rales
  - N. Kussmals Resp.
  - O. Phonchi
  - P. Tachypnea
  - Q. Hypoxia
  - R. Anoxia
  - S. Pneumothorax
  - T. Hydrothorax

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- U. Hemothorax
- V. Hemoptysis
- W. Hematemesis
- X. PEEP (positive end/expiratory pressure)
- Y. CPAP (continuous positive airway pressure)
- 8.3** Demonstrates a systematic approach in physical assessment of the respiratory system utilizing:
  - A. Inspection
  - B. Palpation
  - C. Percussion
  - D. Auscultation
- 8.4** Define the normal arterial blood gas values.
- 8.5** Define two causes for the following:
  - A. Respiratory acidosis
  - B. Respiratory alkalosis
  - C. Metabolic acidosis
  - D. Metabolic alkalosis
- 8.6** State the significance of given results of arterial blood gases in relationship to respiratory alkalosis and respiratory acidosis.
- 8.7** Following medications:
  - A. Adrenalin
  - B. Penicillin
  - C. Codeine
  - D. Tylenol
  - E. Benylin
  - F. Dimetapp
  - G. Chlortrimeton
  - H. Potassium
  - I. Iodine
  - J. Aminophylline
  - K. Tempra
  - L. Tetracycline
  - M. Bronchosol
  - N. Narcan
  - O. Atropine
  - P. Benedryl
  - Q. Keflin
  - R. Ampicillin
  - S. Robitussin
  - T. Morphine sulfate
  - U. Prednisone
  - V. Elixophylline
  - W. pavulon

X. Prostaphin

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Y. Erythromycin

Z. Kantrex

AA. Decadron

BB. Isuprel

CC. Valium

DD. Susphrine

EE. Mucomist

FF. Isoniazid (INH)

GG. Viomycin

**8.8** Discuss the nursing implications for patients receiving IPPB treatment.

**8.9** Provide for the safety of the patient receiving O<sub>2</sub> therapy.

**8.10** Identify signs and symptoms, treatment and nursing care involved in the following conditions:

A. COPD

B. Pneumonia

C. Pulmonary embolus

**8.11** Describe the incidence, causative agents, prognosis, medical and surgical treatment and signs and symptoms of carcinoma of the lung.

**8.12** Explain etiology, signs and symptoms, treatment and nursing care of a patient with the following:

A. Pneumothorax

B. Hemothorax

C. Pleural effusion

D. Tension pneumothorax

E. Sucking chest wound

F. Flail chest

**8.13** Explain the purpose and placement of one or more chest tubes.

**8.14** Give indications for and the nursing management for:

A. Pleuravac

B. Emerson Pump

C. Thoraflex (if available)

**8.15** Care for a selected patient with a respiratory disorder:

A. Write a care plan

B. Identify all drugs administered to patient.

C. Perform other activities such as: Collection of sputum, O<sub>2</sub> delivery systems, IPPB, suctioning (oral, tracheal), closed chest drainage, tracheostomy care, and ABG's.

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**Unit 9 Neurology and Musculoskeletal**

**General Outcome:**

- 9.0 The student shall:** Be able to describe the nursing care of a patient with an alteration in neurological or musculoskeletal function.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 9.1** Gather and record the following data about neurological patients and identify changes that would indicate improvement or regression of the patient's condition:
- A. Levels of consciousness
    - 1. Alert to drowsy
    - 2. Inability to cooperate with physical activities
    - 3. Disorientation to time, place and person
    - 4. Inability to obey simple commands
    - 5. Lack of response to painful stimuli (purposeful and non-purposeful)
    - 6. Absence of cough and gag reflex
  - B. Pupillary changes
    - 1. Size
    - 2. Equality
    - 3. Response to light
    - 4. Speed of response
  - C. Motor behavior
    - 1. Ability to move muscle
    - 2. Strength of muscle
    - 3. Coordination of muscle
  - D. Response to temperature, touch, pain
  - E. Variations to blood pressure, pulse and respirations
  - F. Temperature changes
  - G. Seizure activity
    - 1. Grand mal
    - 2. Petit mal
    - 3. Jacksonian
- 9.2** Explain the following diagnostic procedures:
- A. Lumbar puncture
  - B. Electroencephalogram
  - C. Brain scan
  - D. Myelogram
  - E. Angiogram
  - F. CAT scan

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- 9.3** Identify three or more questions under each of the following headings that could be asked of a neurological patient to determine his orientation:
- A. Orientation to time
  - B. Orientation to place
  - C. Orientation to person
- 9.4** Care for a patient having a CVA
- A. List behaviors which reflect his attitudes or feelings about his state of health. (Discuss these behaviors in relation to the stages of the patients reaction to loss (denial, anger, bargaining, acceptance).
  - B. Give a R. O. M. exercise
  - C. Write a nursing care plan
  - D. Identify all drugs administered to patient
- 9.5** State the purposes and demonstrate log rolling.
- 9.6** Identify the following for a patient with Parkinson's disease:
- A. Etiology
  - B. Patients behavior
  - C. Nursing care plans
  - D. Medications administered
- 9.7** Identify the dosage, route of administration, side effects, etc of the following in regard to a patient with a neurological disorder:
- A. Decadron
  - B. Valium
  - C. Dilantin
  - D. L-Dopa
  - E. Emeticon
  - F. Tigan
  - G. Compazine
  - H. Equagesic
  - I. Haldol
  - J. Indocin
  - K. Narcan
  - L. Noctec
  - M. Pantopan
  - N. Phenobarbital
  - O. Phenergan
  - P. Placidyl
  - Q. Tranxene
  - R. Tuinal
  - S. Vistaril
  - T. Doriden
- 9.8** List the twelve cranial nerves.
- 9.9** Identify and explain the function of the following structures:
- A. Bone

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- B. Muscle
  - C. Tendon
  - D. Ligament
  - E. Cartilage
  - F. Joint
- 9.10** Demonstrate by performance the understanding of the following:
- A. Abduction
  - B. Adduction
  - C. Dorsal
  - D. Eversion
  - E. Extension
  - F. External
  - G. Flexion
  - H. Hyperextension
  - I. Internal
  - J. Inversion
  - K. Lateral
  - L. Plantar
  - M. Pronation
  - N. Radial
  - O. Rotation
  - P. Supination
  - Q. Ulnar
- 9.11** Demonstrate effective R. O. M. exercise.
- 9.12** Identify at least four common principles that will guide the nurse in proper use of body mechanics.
- 9.13** Identify five symptoms that may occur with a fracture with the use of:
- A. Closed reduction
  - B. Open reduction
  - C. Skeletal traction
    - 1. Thomas Splint with Pearson attachment
    - 2. Steinman Pin
    - 3. Kirschner Wire
    - 4. Balanced traction vs. running traction
    - 5. Halo treatment
  - D. Skin traction
    - 1. Buck's
    - 2. Pelvis Sling
    - 3. Cervical
    - 4. Russell's
  - E. Cast
    - 1. Spica (body)
    - 2. leg or arm cast
- 9.15** Include the following when caring for a selected patient with a hip pinning.

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- A. Pre and post-operative care
  - B. Nursing care plan
  - C. Positioning
  - D. Fluid regulation and elimination
  - E. Medications administered to patient
  - F. Rehabilitation
- 9.16** Explain major causes for amputations. Describe nursing care of a patient, pre and post-op who is to have an amputation of an extremity. Include the following:
- A. Observation
  - B. Psychological shock
  - C. Positioning and turning
  - D. Dressing and bandaging stump
  - E. Physical therapy
  - F. Phantom pain
  - G. Prosthesis
  - H. Support and teaching for rehabilitation
- 9.17** Identify action, dosage, route of administration and side effects of the following drugs:
- A. Beremid
  - B. Celestone
  - C. Colchicine
  - D. Curare
  - E. Darvon
  - F. Darvon Compound
  - G. Darvon-N
  - H. Darvocet 100
  - I. Decadron
  - J. Hydrocortison
  - K. Keflin
  - L. Motrin
  - M. Pabalate
  - N. Prednesone
  - O. Quinamm
  - P. Robaxia
  - Q. Soma
  - R. Staphcillin
  - S. Vibramycin
  - T. Zyloprim
- 9.18** List five things to check on a post-operative patient with a leg cast.

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**Unit 10 Oncology and Chemotherapy**

**General Outcome:**

- 10.0 The student shall:** Be able to describe the care of a patient with an alteration in an oncologic problem.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 10.1** List the warning signs of cancer.
- 10.2** Give the three methods in treatment of cancer
- 10.3** Distinguish between malignant and benign.
- 10.4** Discuss the following diagnostic procedures:
- A. Brain Scan
  - B. Liver Scan
  - C. Bone Scan
  - D. Others relevant
- 10.5** List five side effects of chemotherapy.
- 10.6** List three side effects of radiation.
- 10.7** Outline the care of a terminally ill patient with specific attention to family involvement.
- 10.8** Identify the following categories of chemotherapy.
- A. Alkylating Agents
  - B. Mitotic Inhibitors
  - C. Antibiotics
  - D. Anti Metabolitis
  - E. Hormonal Agents.
- 10.9** Identify the following oncology drugs:
- A. BCNU
  - B. CCNU
  - C. Pipobroman
  - D. Cytosan
  - E. Thiotepa
  - F. Velban
  - G. Oncovin
  - H. Adriamycin
  - I. Mitromycin
  - J. Streptozotocin
  - K. Actinomycin
  - L. Bleomycin
  - M. Platinum
  - N. Cytosar
  - O. Methytrexate

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- P. 5 FU
- Q. Cortisone
- R. Prednisone
- S. Testosterone
- T. Estrogens
- U. Bromptons

**10.10** State the components and use of Brompton's Cocktail.

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## Unit 11 Urological System

### General Outcome:

- 11.0 The student shall:** Be able to describe the care of a patient with an alteration in the urological system.

### Specific Measurable Learning Outcomes:

**Upon successful completion of this unit, the student shall be able to:**

- 11.1** List three symptoms of urinary tract disease.
- 11.2** Describe the following tests used to diagnose problems of the urinary tract:
- A. Creatinine
  - B. BUN
  - C. 24 hour urine
  - D. Cystoscopy
- 11.3** State the maximum amount of urine that may be removed during catheterization.
- 11.4** List several measures to help a patient void.
- 11.5** Explain the closed urinary drainage system.
- 11.6** Discuss acute renal failure:
- A. Causes
  - B. Prevention
  - C. Signs and symptoms
  - D. Treatment
  - E. Dialysis
- 11.7** Discuss the purposes of dialysis.
- 11.8** Distinguish between internal and external devices for hemodialysis.
- 11.9** Discuss care of a shunt.
- 11.10** Describe how to check for patency of shunt.
- 11.11** Care for a dialysis patient.
- A. Write a nursing care plan
  - B. Identify:
    - 1. Dietary restriction
    - 2. Patient and family teaching
    - 3. Medications administered to patient
- 11.12** Demonstrate proper aseptic technique for insertion of an indwelling Foley catheter on a male and/or female.
- 11.13** Perform and record Foley catheter care.
- 11.14** Discuss the nursing management of a patient with renal calculi.
- 11.15** Obtain urine specimens for the following:
- A. Routine urinalysis
  - B. Clean catch

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- C. Culture and sensitivity
- 11.16** Identify three urological diseases and the nursing care for each.
- 11.17** Identify the action, route of administration, dosage, side effects, etc. of the following medications:
  - A. Garamycin
  - B. Mandelemine
  - C. Septra - D.S.
  - D. B & O Supp
  - E. Pyridium
  - F. Septra
  - G. Negram
  - H. Tobramycin