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NTARS 436 Adult Health

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NURS 436 Adult Health II**4c-01-4sh****Prerequisites:** NURS 336, 337**Prerequisite or corequisite:** NURS 412**Corequisite:** NURS 437

This course builds on Adult Health I, focusing on the adult/family coping with complex health problems. The relationships among disease states, treatment and associated nursing responsibilities are emphasized as students build their knowledge base of pharmacology, therapeutic procedures, rehabilitation needs and teaching-learning strategies. Principles underlying the use of technology in clinical practice provide a basis for the concurrent clinical course.

I. Course Description

NURS 436 Adult Health II

**4 lecture hours
0 lab hours
4 semester hours
(4c-01-4sh)**

Prerequisites: NURS 336, 337

Prerequisite or corequisite: NURS 412

Corequisite: NURS 437

This course builds on Adult Health I, focusing on the adult/family coping with complex health problems. The relationships among disease states, treatment and associated nursing responsibilities are emphasized as students build their knowledge base of pharmacology, therapeutic procedures

rehabilitation needs and teaching-learning strategies. Principles underlying the use of technology in clinical practice provide a basis for the concurrent clinical course.

II. Course Objectives

At the conclusion of the course students will be able to:

1. Explain the etiology, pathophysiology, clinical manifestations, sequelae and treatment of specific complex disorders
2. Analyze individual/family needs for nursing care based on patient responses to critical and/or complex disease states
3. Describe appropriate nursing interventions, including physiological and psychological rationale, for individuals with specific critical and/or complex health problems

E. Supporting the grieving family

II. Advanced Directives in Critical Care

A. Patients with sudden acute illness

C. Organ tissue donations

III. Current Trends/Issues in Complex Care

Unit II Problems Related to Physiologic Homeostasis

Weeks 2-3

I. Electrolyte imbalance

3 hrs.

A. Etiology

B. Pathophysiologic processes

1. Effects of aging

C. Clinical manifestations

D. Collaborative care

E. Independent nursing care

1. Patient education

F. Home care

II. Introduction to cardiac arrhythmias and hemodynamic monitoring

2 hrs.

III. Shock (hypovolemic, cardiogenic, anaphylactic, distributive)

2 hrs.

A. Etiology

B. Pathophysiologic processes

1. Effects of aging

C. Clinical manifestations

D. Acute collaborative care

E. Independent nursing care

Exam (Units I and II)

1 hr.

Unit III Problems with Cardiac Function

Week 4

I. Myocardial Infarction

2 hrs.

A. Etiology

B. Pathophysiologic process

1. Effects of aging

C. Clinical Manifestations

1. Complications – Cardiogenic shock

III. Cardiac Myopathies and Valvular Disease

1 hr.

- A. Etiology
- B. Pathophysiologic process
- C. Clinical manifestations
- D. Acute collaborative care
 - 1. Medical treatment
 - 2. Surgical treatment
- E. Independent nursing care
 - 1. Patient education
- F. Discharge planning/Home care

Unit IV Problems Related to Oxygenation

Week 5

I. Complex Respiratory Diseases

3 hrs.

(Acute Respiratory Failure, ARDS, Pulmonary Emboli, Pneumothorax)

- A. Etiology
- B. Pathophysiologic process
- C. Clinical manifestations
- D. Acute collaborative care
- E. Independent nursing care
 - 1. Patient education
- F. Discharge planning/Home care

Exam (Units III and IV)

1 hr.

Unit V Problems with Liver/Biliary Function

Weeks 6-7

I. Cirrhosis

3 hrs

- A. Etiology
- B. Pathophysiologic process
 - 1. Effects of aging
- C. Clinical manifestations
- D. Complications
 - 1. Varices
 - 2. Encephalopathy

III. Cholecystitis and Pancreatitis

2 hrs.

- A. Etiology
- B. Pathophysiologic process
 - 1. Effects of aging
- C. Clinical manifestations
- D. Complications
- E. Acute collaborative care
- F. Independent nursing care
 - 1. Patient education
- G. Discharge planning/Home care

Unit V Exam

1 hr.

Unit VI Problems with Renal Function

Weeks 8-11

I. Acute Renal Failure (ATN, Glomerulonephritis)

3 hrs.

- A. Etiology
- B. Pathophysiologic process

- D. Acute collaborative care
- F. Independent nursing care

- 1. Patient education
- F. Discharge planning/Home care

II. Chronic Renal Failure

3 hrs.

- A. Etiology
- B. Pathophysiologic process

- II. Principles of Autoimmunity 1 hr.
 - A. Theories of self tolerance
 - B. Theories of autoimmune diseases

- III. Transplantation 1 hr.
 - A. Immunologic principles of organ transplant
 - B. Transplant rejection (Type IV hypersensitivity)

- IV. Human Immunodeficiency Viral Infection 4 hrs.
 - A. Etiology
 - B. Pathophysiologic process
 - 1. Effects of aging
 - C. Stages of infection
 - D. Acute collaborative care
 - E. Independent nursing care
 - F. Discharge planning/Patient education

- Exam (Units VI and VII) 1 hr.**

Unit VIII Problems of Neurologic Function
Weeks 12-13

- A. Etiology
- B. Pathophysiologic process
 - 1. Atherosclerotic plaque
 - 2. Thrombi
 - 3. Intracranial bleeding/aneurysms
- C. Acute collaborative care
- D. Independent nursing care
 - 1. Patient education
- E. Discharge planning/Home care

- II. Increased Intracranial Pressure 2 hrs.
 - A. Etiology
 - 1. Head Trauma
 - 2. Tumors
 - 3. Infection
 - B. Acute collaborative care
 - 1. Medical intervention
 - 2. Surgical intervention
 - C. Independent nursing care

- III. Neurological Disorders (MS, Parkinson's Disease) 2 hrs.
 - A. Etiology
 - B. Pathophysiologic process

IV. Neuromuscular Disorders (Myasthenia Gravis, ALS)

2 hrs.

- A. Etiology
- B. Pathophysiologic processes
 - 1. Effects of aging
- C. Clinical manifestations
- D. Acute collaborative care
- E. Independent nursing care
- F. Discharge planning/Home care

Unit IV Problems of the Musculoskeletal System

Week 14

I. Rheumatoid and Osteo Arthritis

3 hrs.

- A. Etiology
- B. Pathophysiologic processes
 - 1. Effects of aging
- C. Clinical manifestations
- D. Acute collaborative care
 - 1. Medical interventions
 - 2. Surgical interventions
- E. Independent nursing care
- F. Discharge planning/Home care

II. Other Musculoskeletal Disorders

- A. Osteomyelitis, Osteoporosis, fractures

Exam (Units VIII and IX)

1 hr.

Finals Week Final Exam

IV. Evaluation Methods *

- 50% Unit Exams (multiple choice)
- 20% Final exam (multiple choice)
- 10% Written assignments
- 20% Individual or collaborative case study analysis

VI. Special Resource Requirements

None

VII. Bibliography

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Websites

AIDS http://www.cdc.gov/nchstp/hiv_aids/dhap.htm

American Heart Association. <http://www.americanheart.org/>

CABG surgery http://nursing.about.com/health/nursing/library/weekly/aa061798.htm?PM=68_193_T

Centers for Disease Control <http://www.cdc.gov/health/diseases.htm>

Heart Disease <http://heartdisease.about.com/health/heartdisease/mhodyv.htm>

Hepatitis Information Network www.hepnet.com

Renal Failure <http://www.kidneyworld.com/>

COURSE ANALYSIS QUESTIONNAIRE

Section A: Details of the Course

A1 This course will fit into the senior year of the Bachelor of Science degree in the Nursing program. It is a required course for students in the major.

A2 ~~This course is part of the curriculum revision in the Nursing program.~~

A3 This course has never been offered at IUP.

A4 This course is not intended to be offered as a dual-level course.

A5 This course is not intended to be taken for variable credit.

A6 This material on complex adult health problems would be included in other baccalaureate nursing programs.

A7 The content in this course is necessary to practice nursing in an acute care setting (Commission

C4 This course will be offered in both the Fall and Spring semesters.

C5 One section of the course will be offered at a time.

C6 Forty students will be accommodated in this course.

C7 ~~No professional society limits enrollment in course of this nature~~

