**WEEKS 1, 2 & 3**

I. ALTERATION IN OXYGENATION / PROFESSIONAL ISSUES

 NEEDS OF THE CLIENT HAVING DEFICIENCY IN PROVIDING OXYGEN AND NUTRIENTS TO THE CELLS, NEEDS OF THE CLIENT WITH CARDIOVASCULAR DYSFUNCTION

 A. Outcomes

 At the completion of this unit of study, the student will be able to:

 1. Utilize the nursing process to develop an individualized nursing care plan for a client with alterations in cardiac function.

 2. Assess the client for early signs and symptoms of common cardiovascular dysfunction.

3. Identify the risk factors associated with potential or actual cardiovascular dysfunction.

4. Identify diagnostic tests used to assess cardiovascular function.

5. Assess clients for manifestations of selected cardiovascular dysfunction.

6. Discuss the etiology, signs, symptoms, treatment, and nursing care related to selected cardiac dysfunction.

7. Identify medications, including actions and side effects, which are useful in treating clients with cardiovascular dysfunction.

 8. Utilize previously learned nursing skills and interventions in client care.

 9. Assist clients in coping with emotional responses that may accompany cardiovascular dysfunction.

 10. Develop teaching strategies that will assist the client in understanding and complying with a prescribed

 treatment regimen.

 11. Discuss management of care and delegation for the client with a cardiovascular dysfunction.

B. Readings

 \*\* Review anatomy and physiology of the heart in anatomy textbook.

 Brunner Week 1: Chapters 21, 22, 23

 Week 2: Chapters 11, 25, 27

 Week 3: Chapter 24, 27, 26 (pg. 835-853)

 Davis Drug Refer to appropriate drug classifications relative to this area.

 C. College Laboratory: Laboratory readings are on weekly lab guide.

 OUTLINE

 II. Baseline data

A. Overview of the heart

1. Structure (review)

2. Function (review)

3. Fundamentals of electrocardiogram (MS Lab)

B. Predisposing factors related to heart disease

C. Common dysrhythmias

 III. Nursing process

A. Assessment: data collection

1. Diagnostic tests/laboratory data

2. Pharmacotherapy

3. Medical and surgical interventions

4. Needs assessment of a client with:

a. Cardiac dysrhythmias and conduction problems

b. Coronary Artery Disease

i. Angina pectoris

 ii. Acute coronary syndrome (myocardial infarction)

c. Cardiac dysfunctions (etiology, assessment, interventions)

i. Congestive heart failure

ii. Congenital cardiac defects

iii. Valvular heart disease

iv. Infectious and inflammatory heart disease

v. Cardiomyopathy

vi. Cardiogenic shock

vii. Septic Shock

viii. Pulmonary Edema

ix. Pulmonary Embolism

d. Vascular Dysfunction

i. Hypertension

ii. Aneurysms

iii. Arterial obstruction- arterial bypass

e. The maternity client and cardiac disorders

f. Clients undergoing cardiac surgery

i. Pacemaker insertion

ii. Repair and by-pass surgery

iii. Angioplasty

B. Data analysis: common nursing diagnoses

1. Altered cardiac output R/T dysfunctional electrical conduction

2. Fluid volume excess R/T decreased urinary output secondary to heart failure 3. Activity intolerance R/T imbalance between oxygen supply and demand

4. Anxiety R/T unknown outcome of diagnostic tests

5. Noncompliance R/T denial of illness

6. Altered tissue perfusion R/T impaired circulation

C. Expected outcomes

D. Nursing interventions/rationale

E. Evaluation