

Course: AH 116

Also Listed As:

Term Effective: 200970, INACTIVE COURSE

Short Title: CORONARY CARE NURS

Full Title: Coronary Care Nursing

<u>Contact Hours/Week</u>	<u>Units</u>	<u>Number of Weeks</u>	<u>Total Contact Hours</u>
Lecture: 3	3	17.34	Lecture: 52.02
Lab: 0			Lab: 0
Other: 0			Other: 0
Total: 3			Total: 52.02

Credit Status: D - Credit - Degree Applicable

Grading Modes: L - Standard Letter Grade

Repeatability: N

Schedule Types: 02 Lecture and/or discussion

Course Description:

A fundamental course in the care of clients with cardiac disease. This will include cardiac anatomy and physiology, cardiac pathophysiology, medical and nursing management, interpretation of cardiac rhythm strips, and pharmacology of commonly used drugs in the treatment of these clients. Approved by the BRN for 54 hours of continuing education credit (BRN Provider #00892). PREREQUISITE: Must have completed prerequisites for licensure as a vocational nurse or registered nurse.

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 198770

UC TRANSFER:

Not Transferable

PREREQUISITES:

COREQUISITES:

STUDENT LEARNING OUTCOMES:

This class is designed to prepare non-intensive care nurses to function efficiently and comfortably in a coronary care setting. The most important goal is for each student to be proficient at recognizing, interpreting and treating life-threatening arrhythmias--within the nurse's limitations. Each student will also be able to evaluate patient status using lab values such as blood gases and electrolytes, with physical assessment. Each student will understand the importance of patient education and demonstrate ability to do so.

COURSE OBJECTIVES:

1. Identify basic anatomy of the heart as it applies to coronary care nursing.
2. Explain basic physiology of the heart as applied to CCU nursing.
3. Define the following drug actions: chronotropic, inotropic, alpha, cholinergic, adrenergic, beta 1, beta 2, parasympathomimetic, sympathomimetic, and parasympatholytic.
4. Explain each wave of an EKG complex in terms of electrical heart function.
5. Give normal measurements for each wave of an EKG complex and perform actual measurement.
6. Demonstrate correct lead placement for single lead monitoring and obtaining a 12 lead EKG.
7. List 7 rules or guidelines for assessing an EKG rhythm.
8. Explain how to use S-T, T, and Q waves to evaluate an EKG (12 lead).
9. Explain the difference between infarct, injury, and ischemia to the myocardium.
10. Recite normal lab values for cardiac enzymes including ckmb, electrolytes, abg's, cbc, blood glucose. Explain the pattern of elevation of cardiac enzymes post-MI.
11. Recognize and give correct treatment for the following arrhythmias: atrial fibrillation and flutter, 2nd degree AV block, sinus bradycardia and tachycardia, complete heart block, multi-focal PVCs, r on t phenomenon, ventricular bigeminy and trigeminy, nodal rhythm, V-tach and V-fibrillation.
12. Give indication, action and correct dose for 20 commonly used cardiac drugs, including oxygen.

13. Demonstrate correct procedure for cardioversion and defibrillation.
14. State the physiology behind, signs and symptoms as well as complications of: coronary artery disease, congestive heart failure, angina pectoris, myocardial infarction, peri-cardial tamponade.
15. State when, why and how to use a "crash cart."
16. List 5 legalities to be aware of as a CCU nurse.
17. Give a lesson to the class on prevention of heart disease.
18. List 5 important aspects of cardiac rehabilitation.

TOPICS AND SCOPE:

Inactive Date: 05/11/2009

Inactive Term: Fall 2009

- 1 3 History and goals of the CCU. Basic anatomy and physiology of the cardiac and respiratory systems.
- 2 3 Review of function of the parasympathetic and nervous systems (divisions of autonomic nervous system). Definition of receptor reactions.
- 3 3 Explanation of heart function as it relates to the EKG complex (P, QRS, T waves).
- 4 3 Normal measurements of each wave of an EKG complex. How to use EKG paper.
- 5 3 Review of first 4 weeks. Practical workshop using original EKG strips.
- 6 3 Obtaining a 12 lead EKG, including lead placement. Practice identifying MCL1 and Lead 2.
- 7-8 6 Rules for evaluating EKG, including normal measurements of a rhythm strip and "Q" and "S-T" wave changes on a 12 lead EKG. Infarct, Injury, Ischemia.
- 9 3 Diagnosing arrhythmias listed in "performance outcome." Practicum in same.
- 10 3 Practice diagnosing arrhythmias, lab values and their importance in the CCU patient.
- 11 3 Review of weeks 4 through 8. More practice recognizing arrhythmias.
- 12 3 Arterial blood gas interpretation. Treatment for abnormalities in ABG's. Practice with arrhythmias.
- 13 3 Indications, actions dose, route, contra-indications and side effects of cardiac drugs. Review of strips.
- 14 3 Physiology behind and assessment of the patient with: left ventricular failure, CHF, angina, MI, cardiac tamponade. Arrhythmia recognition.
- 15 3 Introduction to the "crash cart." Procedure for defibrillation and cardioversion.
- 16 3 Charting and legal aspects of CCU nursing.
- 17 3 Prevention of heart disease.
- 18 3 Cardiac rehabilitation. Recognition of arrhythmias.

ASSIGNMENTS:

Each week the student will read the appropriate chapters in the

text and complete the assigned exercises.

METHODS OF INSTRUCTION:

Instruction will include audio (lecture, filmstrips, aids), visual (also lecture, films, and aids), and group participation for activities such as recording a 12 lead EKG. Evaluation will come from performance and written examination.

REPRESENTATIVE TEXTBOOKS:

Andreoli, ^uCoronary Care^s
Reading level determined to be college level by KB.
Reference Materials: Journals.

SUPPLEMENTAL DATA:

Basic Skills: N
Classification: I
Noncredit Category: Y
Cooperative Education:
Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: AH
CSU Crosswalk Course Number: 116
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: B
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000456046
Sports/Physical Education Course: N
Taxonomy of Program: 123010