

DIET-2311: MEDICAL NUTRITION THERAPY II

Cuyahoga Community College

Viewing: DIET-2311 : Medical Nutrition Therapy II

Board of Trustees:

2018-03-22

Academic Term:

2018-08-27

Subject Code

DIET - Dietetic Technology

Course Number:

2311

Title:

Medical Nutrition Therapy II

Catalog Description:

Application of nutrition knowledge to specialized medical nutrition therapy. Moderate to high nutrition risk factors examined. Internal medical and renal disease examined.

Credit Hour(s):

3

Lecture Hour(s):

3

Requisites

Prerequisite and Corequisite

DIET-2301 Medical Nutrition Therapy I.

Outcomes

Course Outcome(s):

Perform specific activities of the Nutrition Care Process as assigned by registered dietitian nutritionists in accordance with the Scope of Nutrition and Dietetic Practice for individuals, groups and populations in a variety of settings.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Relate the disease conditions of the liver, pancreas, and gallbladder to nutritional status.
2. Apply evidence based research and nutrition practice in assigned case studies.
3. Evaluate specialized nutrition support: enteral and parental nutrition and impact on nutrition care and status.
4. Relate the disease conditions and disorders of the liver, gallbladder, and pancreas and nutrition care.
5. Relate the disease conditions of blood vessels, heart and lung disease to nutrition status.
6. Relate the disease conditions of cancer and nutrition care.
7. List the effects of cancer and HIV/AIDS on nutritional status.

Course Outcome(s):

Identify health care delivery (such as accountable care organizations, managed care, medical homes) and policies which impact technical level of practice.

Objective(s):

1. Demonstrate understanding of how care is provided in each type of health care delivery system.
2. Discuss the role of the Dietetic Technician in each type of health care delivery system.

Course Outcome(s):

Modify recipes and menus for acceptability and affordability that accommodates the cultural diversity and health status of various populations, groups and individuals.

Objective(s):

1. Discuss the dietary management for hyperlipidemia, congestive heart failure, acute myocardial infarction, and stroke.
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Course Outcome(s):

Modify recipes and menus for acceptability and affordability that accommodates the cultural diversity and health status of various populations, groups and individuals.

Objective(s):

1. Suggest ways to increase intake for clients with nausea and vomiting, early satiety, and oral and esophageal lesions.
 2. Explain reasons for the modifications of protein, sodium, and potassium in renal disease.
 3. Plan Heart healthy menus using American Heart Association, Nutrition Care Manual or other evidence based guidelines.
 4. List common food aversions and suggest ways to enhance food intake for clients with cancer or HIV/ AIDS.
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Methods of Evaluation:

1. Quizzes
2. Examinations
3. Student assignments
4. Case Studies

Course Content Outline:

1. Disorders of the liver, gallbladder, and pancreas
 - a. Fatty liver and hepatitis
 - b. Cirrhosis: alcohol and liver disease
 - c. Diseases of the gallbladder
 - i. cholecystitis
 - ii. cholelithiasis
 - d. Diseases of the pancreas
 - i. acute pancreatitis
 - ii. chronic pancreatitis
 - iii. nutritional concerns and care
 - e. Nutrition assessment
2. Nutrition and disorders of the blood vessels, heart, and lungs
 - a. Atherosclerosis and coronary heart disease
 - i. development of atherosclerosis
 - ii. risk factors for CHD
 - iii. diet therapy for atherosclerosis
 - b. Hypertension
 - c. Heart attacks, strokes, and congestive heart failure
 - d. Disorders of the lungs
 - i. chronic obstructive pulmonary disease (COPD)
 - ii. respiratory failure
 - e. Nutrition assessment
3. Nutrition and renal diseases
 - a. Physiology of the kidney
 - b. Consequences of renal failure
 - c. Treatment of acute renal failure
 - d. Treatment of chronic renal failure
 - e. Diet in chronic renal failure
 - f. Nephrotic syndrome: dietary interventions
 - g. Nutrition assessment
4. Nutrition and cancer

- a. Cancer
 - i. development of cancer
 - ii. prevention
 - iii. treatment
 - b. Nutritional consequences of cancer
 - i. cancer cachexia
 - ii. anorexia and inadequate nutrition intake
 - iii. nutrient losses and metabolic alterations
 - c. Nutrition support for people with cancer
 - d. Dietary intervention
 - e. Ethical issues in nutrition care
 - f. Nutrition assessment
5. Nutrition, HIV infection, and AIDS
- a. Nutrition consequences of HIV
 - i. wasting syndrome
 - ii. anorexia and inadequate nutrient intake
 - b. Nutrition support
 - c. Nutrition assessment
6. Specialized nutrition support: enteral and parenteral nutrition
- a. Review of tube feeding delivery
 - b. Parenteral feeding/clinical nutrition
 - i. basic technique
 - ii. TPN development
 - iii. indications for parenteral nutrition
 - iv. administration of TPN solution
 - c. Nutrition assessment
7. Inborn errors of metabolism
- a. Galactosemia
 - b. Phenylketonuria
8. Introduction and Reinforcement of use of Nutrition Care Process in Medical Nutrition Therapy.

Resources

Pronsky, Zaneta. *Food Medications Interactions*. 18th ed. PA: Food Medication Interactions, 2015.

American Dietetic Association. *Nutrition Care Manual*. Online ed. Chicago: Academy of Nutrition and Dietetics, 2106.

Academy of Nutrition and Dietetics. *eNCP*. Online ed. Chicago: Academy of Nutrition and Dietetics, 2017.

Nelms, Marcia, Sucher, Kathryn P., Roth, Sara Long. *Nutrition Therapy and Pathophysiology*. 3rd ed. Cengage Learning, 2015.

Resources Other

http://www.heart.org/HEARTORG/Conditions/Conditions_UCM_001087_SubHomePage.jsp

<https://www.nhlbi.nih.gov/>

<https://www.niddk.nih.gov/health-information/health-communication-programs/nkdep/learn/causes-kidney-disease/kidney-disease-basics/Pages/kidney-disease-basics.aspx>

<http> (<https://www.cancer.gov/>)<https://www.hiv.gov/s://www.cancer.gov/> (<https://www.cancer.gov/>)

<https://www.hiv.gov/>

<https://www.nutritioncare.org/>

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