HIM-2510: THE CANCER DISEASE PROCESS AND MANAGEMENT

Cuyahoga Community College

Viewing: HIM-2510 : The Cancer Disease Process and Management

Board of Trustees:
March 2021

Academic Term:
Fall 2021

Subject Code
HIM - Health Information Management

Course Number:
2510

Title:
The Cancer Disease Process and Management

Catalog Description:
Introduction to the Pathophysiology of the cancer disease process. Ascertainment of presenting symptomatology, diagnostic evaluations, extent of disease, evaluations and treatment modalities to include surgery, chemotherapy, radiation therapy, hormonal therapy, immunotherapy, palliative therapies, and alternative therapies. Introduction to the role of clinical research trials in development of cancer treatments.

Credit Hour(s):
3

Lecture Hour(s):
3

Requisites

Prerequisite and Corequisite
Departmental approval.

Outcomes

Course Outcome(s):
Identify specific presentation and pathophysiology of cancer disease process.

Essential Learning Outcome Mapping:
Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):
1. Review the pathophysiology of cancer disease processes
2. Identify signs and symptoms common to cancer cases.
3. Differentiate between the terms "grade", "stage", "histology", "morphology", and "topography".
4. Explore epidemiology of cancer
5. Explore patient risk factors for cancer diseases

Course Outcome(s):
Identify diagnostic techniques, extent of disease evaluations and cancer treatments

Essential Learning Outcome Mapping:
Information Literacy: Acquire, evaluate, and use information from credible sources in order to meet information needs for a specific research purpose.

Objective(s):

1. Explore the extent of disease methodology and treatment modality.
2. Explore the various diagnostic processes used to identify cancer and determine the extent of the disease.
3. Identify prognostic factors and site-specific factors (SSDI)
4. Identify and explain different medication treatment options used in treating cancer.
5. Identify and explain chemotherapy and radiation therapy agents.
6. Explain different surgical tumor removal techniques and outcome standards.
7. Explain palliative therapy.
8. Identify complementary and alternative treatment options.

Course Outcome(s):

Recognize current accepted standards of cancer care

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. Review current standards of cancer care management
2. Identify pretreatment procedures and therapies
3. Explain multimodality treatment
4. Differentiate between neoadjuvant therapies and adjuvant therapies

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Course Outcome(s):

Identify timing and sequencing of disease presentation and management.

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. Review pertinent presenting symptomatology and appropriate clinical assessments of cancer
2. Explain site-specific factors in cancer and the biological properties of the cancer playing a key role in prognosis and patient management

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Methods of Evaluation:

1. Discussion board assignments
2. Glossary assignments
3. Cancer and diagnostic activities utilizing the internet
4. Quizzes
5. Final exam

Course Content Outline:

1. Measuring the occurrence of cancer
2. Impact statistics
3. Principles of cancer biology
4. Characteristics of cancer cells
    a. Cell abnormality (types and growth)
    b. Cell uncontrollability
    c. Cell invasiveness
5. Cancer etiology
6. Personal cancer risks assessment
7. Cancer as a disease

a. Terms
    i. Cancer
    ii. Neoplasia
    iii. Tumor
    iv. Neoplasm
b. Categories
    i. Derivation of cells and tissues
    ii. Cancer classification
    iii. Tumor list
    iv. Types by site

8. Diagnostic tests and tumor markers
    a. Cancer detection and diagnosis
        i. Physical exam of patient and identification of tumor location
        ii. Radiographs and x-rays
        iii. Computerized tomography scans (CT)
        iv. Magnetic resonance imaging (MRI)
        v. Nuclear medicine scans
        vi. Ultrasound
        vii. Endoscopy
        viii. Surgical removal of cancerous tumors
    b. Cancer treatment and major therapies
    c. Radiation and chemotherapy
    d. Clinical trials
9. Cancer terminology and abbreviations
    a. Acronyms
    b. Initialisms
    c. Terms and definitions
    d. Identify signs and symptoms common to cancer cases
    e. Differentiate between the terms "grade", "stage". histology", "morphology", and "topography"
    f. Explore epidemiology of cancer
10. Electronic Reporting
    a. Electronic reporting from hospital data sources to the registry
    b. Casefinding and reporting cancer
    c. Pathologic evaluation and reporting
    d. Reporting of neoplastic disease

Resources

Menck, Gress, Griffin, Mulvihill, Hofferkamp, Johnson, Pearson. (2021) *Cancer Registry Management Principles & Practices*, Dubuque:Kendall Hunt.

Resources Other

Websites

National Comprehensive Cancer Network Clinical Practice Guidelines - www.nccn.com (http://www.nccn.com) 2021

SEER Training website: www.training.seer.cancer.gov (http://www.training.seer.cancer.gov)

https://www.naaccr.org/SSDI/SSDI-Manual.pdf?v=1527608547 Site-Specific Data Items (SSDI) manual: 2019

https://www.ncra-usa.org/Portals/68/PDFs/CertificationPDFs/ICDO3_9241545348.pdf International Classification of Diseases for Oncology (ICD-O-3), 3rd Edition PDF 2000

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