# HIM-2520: ONCOLOGY CODING AND STAGING

## Cuyahoga Community College

### Viewing: HIM-2520 : Oncology Coding and Staging

**Board of Trustees:**

June 2022

**Academic Term:**

Fall 2022

**Subject Code**

HIM - Health Information Management

**Course Number:**

2520

**Title:**

Oncology Coding and Staging

**Catalog Description:**

Application and use of cancer coding and staging resources to determine the staging of disease for reporting purposes while providing on overview of cancer and the natural course of disease progression. Hands-on application of a variety of resources to assign with accuracy, correct oncology codes for topography, histology, grade, tumor status, nodal status, metastatic status, stage group and summary staging with an explanation of oncology coding methodologies and cancer staging systems.

**Credit Hour(s):**

3

**Lecture Hour(s):**

3

## Requisites

**Prerequisite and Corequisite**

Concurrent enrollment in HIM-2510 The Cancer Disease Process and Management and Department approval and admission to Cancer Registrar Post Degree Certificate Program.

## Outcomes

**Course Outcome(s):**

Accurately assess and code cancer site, type, histology, sequence, and number of primaries using ICD-0-3 (International Classification of Diseases-Oncology-3rd edition) and MP/H (Multiple-Primary Histology) coding rules.

**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. Utilize pathology reports to accurately code histology and tumor grade.
2. Analyze pathology report to code tumor cell behavior.
3. Identify and define oncology coding resources and practices utilized in coding cancer diagnoses, extent of disease, treatments and follow-up.
4. Outline standards and usage of Solid Tumor Rules and Histology coding rules.
5. Analyze clinical information presented to determine single verses multiple primaries.
6. Evaluate multiple data sources to assign T (tumor), N (node), M (distant metastasis), and Stage group.
7. Explain the structure of morphology codes.
8. State the relationship between histology, behavior and grade in reference to specific cancers.

**Course Outcome(s):**

Analyze clinical information to assess and accurately stage the extent of disease using the following tools: the AJCC (American Joint Committee on Cancer) clinical staging elements and stage group: Summary Staging; and Extent of Disease Manual and website.

**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. Demonstrate efficient use of the Summary Staging Manual.
2. Demonstrate efficient use of the American Joint Committee on Cancer (AJCC) staging manual.
3. Demonstrate efficient use of the Site-Specific Data Items (SSDI) manual to code site-specific data items and other elements as designated in the **ST**andards for **O**ncology **R**egistry **E**ntry (STORE) manual.
4. Analyze clinical information and assign Summary Stage according to Summary Staging Manual 2018.
5. Differentiate information used for clinical staging and for pathological staging.
6. Analyze clinical information to accurately assign all AJCC (American Joint Committee on Cancer) pathological staging elements and stage group.
7. Analyze pathological information and assign Summary Stage according to the Summary Staging Manual 2018.
8. Demonstrate efficient use of cancer staging resources.

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**Course Outcome(s):**

Interpret medical information and code Summary Stage for specific cancer sites.

**Objective(s):**

1. Identify the value and importance of coding consistency in cancer data management and analysis.
2. Review clinical information provided and determine if a patient with breast, lung, colon, prostate, or bladder cancer has local, regional or distant disease.
3. Analyze clinical information and assign the appropriate Summary Stage code based on extent of disease for breast, lung, colon, prostate, and bladder case presentations.
4. Outline standards and usage of Solid Tumor Rules and Histology coding rules.

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**Course Outcome(s):**

Accurately determine the presence of a single primary cancer or multiple primary cancers using the Solid Tumor Rules and Histology coding rules and the Hematopoietic and Lymphoid Neoplasm Coding manual and database given clinical information including pathology/laboratory reports, clinical history, radiology reports and information from the medical record.

**Essential Learning Outcome Mapping:**

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

**Objective(s):**

1. Identify the value and importance of coding consistency in cancer data management and analysis.
2. Utilize pathology reports to accurately code histology and tumor grade.
3. Analyze pathology report to code tumor cell behavior.
4. Outline standards and usage of Solid Tumor Rules and Histology coding rules.

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**Course Outcome(s):**

Evaluate medical information and assign appropriate primary site and morphology codes.

**Essential Learning Outcome Mapping:**

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.

**Objective(s):**

1. Accurately document grade using clinical information provided and the Grade Manual.
2. Accurately code histology using clinical information provided.
3. Apply the histology coding rules in assigning correct histology codes.

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**Course Outcome(s):**

Demonstrate knowledge of rules related to staging cancer.

**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. Create list of information needed for AJCC clinical staging.
2. Create list of information needed for AJCC pathological staging.
3. Explain timing rules related to clinical and pathological staging.
4. Given case scenarios, accurately assign clinical and pathological staging according to the timing rules.

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**Course Outcome(s):**

Effectively produce and utilize data charts, Powerpoints, or other documents for presentations at cancer seminars that identify trends in treatments for cancers and information used for clinical staging and pathological staging of cancer.

**Essential Learning Outcome Mapping:**

Written Communication: Demonstrate effective written communication for an intended audience that follows genre/disciplinary conventions that reflect clarity, organization, and editing skills.

**Objective(s):**

1. Use appropriate images and symbols in a powerpoint presentation for cancer seminars.
2. Create a well-organized powerpoint that gives an accurate history of a cancer case.
3. Produce verbal presentation for an intended audience that is clear and concise.
4. Discuss principle rules for using International Classification of Diseases – Oncology (ICD-0).
5. Explain the purpose of errata.
6. Label a diagram of an organ or body system with the appropriate topography codes.
7. Articulate what is meant by "T, N, M and Stage group" according to the American Joint Committee on Cancer (AJCC) Manual.
8. Explain what is meant by "extent of disease".
9. Prepare data charts or other documents that are clear and concise, utilizing standard rules for written language that can be effectively displayed at a cancer conference.
10. Utilize excerpts from the Site-Specific Data Items (SSDI) manual pertinent to staging.

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**Methods of Evaluation:**

1. Online assignments in Learning Management System
2. Glossary assignments
3. Cancer and diagnostic activities utilizing the internet
4. Quizzes, tests, final exam
5. Presentation materials
6. Abstracting in a cancer registry software free from edits

**Course Content Outline:**

1. ICD-0-3 (International Classification of Diseases-Oncology-3rd edition)
    a. Structure and format of ICD-O
        i. Topography
        ii. Morphology
        iii. Behavior
        iv. Grade
    b. Rules
2. Solid tumor rules and histology rules general instructions
    a. Terms & definitions
        i. Sites
            1. Breast
            2. Colon
            3. Lung
            4. Ureter/renal pelvis/bladder

        5. Kidney
        6. Head and neck
        7. Melanoma
        8. Benign brain
        9. Other sites
      ii. Histology

3. American Joint Committee on Cancer (AJCC) staging
   a. Cancer staging
      i. Definition, T (tumor), N (nodes), M (metastasis distant)
      ii. Timing of staging data
      iii. General rules for staging
      iv. Stage group
      v. Clinical classification
      vi. Pathological classification
      vii. Use of X and blanks
   b. Sites
      i. Lung
      ii. Colon
      iii. Breast
      iv. Prostate
      v. Thyroid
      vi. Bladder
      vii. Kidney
      viii. Corpus uteri
      ix. Liver

4. Summary Stage 2018.
   a. Guidelines For Summary Staging
      i. In situ
      ii. Distant
      iii. Localized
      iv. Regional
      v. Distant
      vi. Unknown if extension or metastasis
   b. What to consider when assigning summary stage
   c. Interpreting ambiguous terminology for summary stage
      i. Staging specific sites
         1. Head and neck
         2. Digestive system
         3. Respiratory tract and thorax
         4. Breast and female genital system
         5. Male genital system
         6. Urinary system
         7. Brain and central nervous system
         8. Endocrine system

5. New STORE data items regional and sentinel lymph nodes.
   a. Applies to Breast and Cutaneous Melanoma only:
      i. Date of sentinel lymph node biopsy
      ii. Sentinel lymph nodes examined
      iii. Sentinel lymph nodes positive
      iv. Date regional lymph nodes examined
      v. Regional lymph nodes positive

6. Other data items:
   a. AJCC TNM Clin T, N, M
   b. AJCC TNM Path T, N, M
   c. AJCC TNM Post Therapy T, N, M
   d. AJCC TNM Clin Stage Group
   e. AJCC TNM Path Stage Group
   f. AJCC TNM Post Therapy Stage Group

g.  AJCC TNM Clin T Suffix
h.  AJCC TNM Path T Suffix
 i.  AJCC TNM Post Therapy T suffix
 j.  AJCC TNM Clin N Suffix
k.  AJCC TNM Path N Suffix
 l.  AJCC TNM Post Therapy N Suffix

## Resources

World Health Organization. *ICD-0-3 Classification of Diseases-Oncology-3rd Edition,* https://www.ncra-usa.org/Portals/68/PDFs/CertificationPDFs/ICDO3_9241545348.pdf

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National Cancer Institute . (2018) *National Cancer Institute SEER Solid Tumor Rules,* https://seer.cancer.gov/tools/solidtumor/STM_2018.pdf

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National Institute of Health (NIH). (2018) *SEER Program Coding and Staging Manual,* https://seer.cancer.gov/manuals/2018/SPCSM_2018_maindoc.pdf

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AJCC. (2018) *The American Joint Committee on Cancer TNM Cancer Staging System,*

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National Cancer Institute (NCI.gov). *SEER Summary Staging Manual 2018*. 2018. https://seer.cancer.gov/tools/ssm/SSM2018-General-Instructions.pdf

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North American Association of Central Cancer Registries (NAACCR). (2018) *NAACCR Site Specific Data Items (SSDI) Manual,* https://www.naaccr.org/SSDI/SSDI-Manual.pdf?v=1527608547

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National Cancer Institute (NCI.gov). (2018) *SEER Summary Staging Manual 2018,* https://seer.cancer.gov/tools/ssm/SSM2018-General-Instructions.pdf

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National Cancer Institute (NCI.gov). *SEER Extent of Disease instruction manual*. 2018. https://seer.cancer.gov/tools/staging/2018-EOD-General-Instructions.pdf

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National Cancer Institute (NCI.gov). *Hematopoietic and Lymphoid Neoplasm Coding Manual and Database*. 2018. https://seer.cancer.gov/tools/heme/Hematopoietic_Instructions_and_Rules.pdf

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NAACCR . *NAACCR Grade Coding Instructions and Tables*. 2018. https://www.naaccr.org/SSDI/Grade-Manual.pdf

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**Resources Other**

Internet websites
American Joint Committee on Cancer: Cancer Staging Education https://cancerstaging.org/CSE/Registrar/Pages/default.aspx
National Comprehensive Cancer Network Clinical Practice Guidelines: www.nccn.com
SEER Training website:  www.training.seer.cancer.gov (http://www.training.seer.cancer.gov)
PDF files containing cancer treatments and outcomes.
Simulated clinical reports
National Cancer Registrars' Association (www.ncra-usa.org)

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