HIM-2550: DATABASE ANALYTICS, QUALITY AND TRACKING

Cuyahoga Community College

Viewing: HIM-2550 : Database Analytics, Quality and Tracking

Board of Trustees: 2016-06-23

Academic Term:

2016-08-24

Subject Code HIM - Health Information Management

Course Number:

2550

Title:

Database Analytics, Quality and Tracking

Catalog Description:

Policies and procedures for Cancer Program Standards including the patient follow-up process. Managing follow-up files, data quality, and database management. Gathering, manipulating, storing, retrieving and classifying recorded information. Monitoring statistics and epidemiology factors.

Credit Hour(s):

3

Lecture Hour(s):

3

Requisites

Prerequisite and Corequisite

HIM-2500 Introduction to Cancer Reigstry and Disease Management.

Outcomes

Course Outcome(s):

Demonstrate methods of monitoring patient outcome and follow-up.

Objective(s):

- 1. Determine between types of follow-up for cancer patients: Active Follow-up or Passive Follow-up
- 2. Demonstrate and display monitoring statistics and epidemiology factors
- 3. List core data items needed for successful follow-up
- 4. Identify different methodological issues associated with performing cancer outcomes follow-up
- 5. Identify time frame requirements for patient follow-up and how often to perform these activities
- 6. Identify different costs associated with maintaining follow-up
- 7. Identify the different types of follow-up letters that can be developed and give examples of the content of these letters.
- 8. Demonstrate gathering, manipulating, storing, retrieving and classifying recorded cancer information

Course Outcome(s):

Effectively describe data Linkage and record consolidation rules.

Objective(s):

- 1. Identify different sources of electronic data used for linkage of data
- 2. Explain why record consolidation is necessary and give examples of the type of record consolidations
- 3. Define record consolidation rules and explain the difference between consolidation accuracy and specificity.
- 4. Demonstrate how high-quality text information is critical for accurate record consolidation
- 5. Describe what it means to "link" data from different resources
- 6. Describe Electronic Patient Matching and provide examples

Course Outcome(s):

Define and explain the quality control methods, categories, characteristics, and control programs related to the cancer registry.

Objective(s):

- 1. Define Quality and list categories within quality.
- 2. Describe a quality control program for a cancer registry and the determinates of quality.
- 3. Define the five characteristics of data quality: accuracy, case incidence completeness, data completeness, timeliness, and
- consistency
- 4. Identify quality control methods in cancer registry
- 5. Compare and contrast Benchmarking, Total Quality Management, and Six Sigma

Methods of Evaluation:

- 1. Discussions in online forums or in the classroom
- 2. Written and oral assignments
- 3. Glossary assignments
- 4. Cancer and diagnostic activities utilizing the internet
- 5. Quizzes, tests, and a final exam.

Course Content Outline:

- 1. Database Analytics
 - a. Data Quality
 - b. Data Tracking
- 2. Policies and procedures for Cancer Program Standards including the patient follow-up process
- 3. Managing follow-up files
- 4. Data quality and database management
 - a. Gathering recorded information
 - b. Manipulating recorded information
 - c. Storing recorded information
 - d. Retrieving recorded information
 - e. Classifying recorded information.
- 5. Monitoring statistics and epidemiology factors
- 6. Requirements of the Commission on Cancer for Monitoring Patient Outcome
 - a. Follow-up
- 7. Types and methods of the follow-up process
 - a. Cases & Frequency
 - b. Method
 - c. Data Set
 - d. Follow-up sources & other contacts
 - e. Initiation of follow-up
 - f. Follow-up responses
- 8. Data linkage and record consolidation
 - a. Electronic record matching
 - b. Sources of electronic data used for linkage
 - c. Types of record consolidation
 - d. Rules for determining the number of primary tumors
- 9. Cancer registry quality control plan
 - a. Physician review-requirements of the Commission on Cancer
- 10. Basic Methods, Requirements & composition for quality control
 - a. Industrial quality control
 - b. Benchmarking
 - c. Total quality management
 - d. Six Sigma
- 11. Characteristics of data quality
 - a. Accuracy
 - b. Data completeness
 - c. Timelines
 - d. Consistency
- 12. Strategies to quality control cancer registry data

- a. Visual Editing
- b. Computerized Edit Checks
- c. Recoding Audits
- d. Reabstracting Studies
- e. Statistical Analysis
 - i. Acceptance Sampling
 - ii. Process Control
 - iii. Designed Studies

Resources

National Cancer Registrars Association. Cancer Registry Management: Principles and Practice. Third. Dubuque: Kendall Hunt, 2011.

AJCC. The American Joint Committee on Cancer TNM Cancer Staging System. Bethesda: AJCC, 2014.

National Cancer Institute (NCI.gov). MP/H Multiple-Primary Histology Coding Rules. Bethesda: National Cancer Institute, 2012.

National Cancer Registrar Association. Collaborative Staging Data Collection System Coding Instructions. (part 1 and part 2). Bethesda: NCRA, 2011.

National Institute of Health (NIH). SEER Staging Coding Manual. Bethesda: NIH, 2014.

World Health Organization. ICD-0-3 Classification of Diseases-Oncology. 3rd Edition. World Health Organization, 2010.

Resources Other

Research using various cancer registry websites and articles or blogs found on the internet National Comprehensive Cancer Network Clinical Practice Guidelines: www.nccn.com SEER Training website: www.training.seer.cancer.gov PDF files containing cancer treatments and outcomes.

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