Implementation of SNOMED CT in Clinical Quality Measures

IHTSDO Implementation Showcase
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NCQA
Measuring quality.
Improving health care.

AGENDA

- **About the National Committee for Quality Assurance (NCQA)**
- **Snapshot of Clinical Quality Measures (CQMs)**
- **Implementation of SNOMED CT in CQMs**

A BRIEF INTRODUCTION

- **Private, independent non-profit health care quality oversight organization founded in 1990**

- **Committed to measurement, transparency, and accountability**

- **Unite diverse groups around common goal: improving health care quality**

OUR MISSION AND VISION

MISSION

To improve the quality of health care.

VISION

To transform health care through quality measurement, transparency, and accountability.

VALUES

- Our passion is improving the quality of health care.

- We stand for accountability throughout the health care system.

- NCQA's information empowers people to make informed decisions.

- We are committed to providing excellent service to all customers, both internal and external.

- We realize our mission through the invaluable commitment and contributions of diverse stakeholders.

NCQA MILESTONES

- **90 percent of Americans enrolled in an HMO are in a Health Maintenance Organization (HMO) accredited by NCQA**

- **More than half of managed care organizations report Healthcare Effectiveness Data and Information Set (HEDIS®) quality data**

- **118 million Americans are enrolled in a plan that collects and/or reports HEDIS**

HEDIS® is a registered trademark of NCQA.

NCQA MILESTONES, CONT'D

- **1,000 health plan products submitted HEDIS to NCQA**
  - 715 HMO products
    - **More than 90% of HMOs**
  - 294 Preferred Provider Organization (PPO) products
    - **Up from 277 in 2009**

- **40 states and the Federal government rely on NCQA Accreditation and HEDIS**

- **Over 27,000 physicians recognized through NCQA's Recognition Programs**

  - **NCQA's Recognition Programs form the basis of quality improvement programs nationwide**

CLINICAL QUALITY MEASURES

- **Developed by a number of measure stewards of which NCQA is one**

- **Data collected by physicians, hospitals, and other health care settings**

- **Data reported to Centers for Medicare and Medicaid Services (CMS) and others**

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CLINICAL QUALITY MEASURES

- **Integral part of pay-for-reporting or pay-for-performance at US federal, state, and local levels**

- **Included in healthcare reform initiatives**
  - **Meaningful use, value based purchasing, and accountable care**

- **Quality measurement data publically available on the Internet, e.g., Hospital Compare**

CLINICAL QUALITY MEASURES

Where we have been

- ✓ Claims based – administrative data
- ✓ Manual data capture
- ✓ Manual abstract process
- ✓ ICD-9-CM, CPT, HCPCS

Where we are headed

- ✓ EHR based – clinical data
- ✓ Electronic data capture
- ✓ Automatic abstraction (eMeasures)
- ✓ SNOMED CT, LOINC, RxNorm, CVX, ISO-639, Payer topology, and others

Transition Systems
CPT, HCPCS, ICD-9-CM, ICD-10-CM, ICD-10-PCS

CMS BLUEPRINT FOR QUALITY MEASURES

Quality Data Model Concept	Clinical Vocabulary Standards	Transition Vocabulary
Condition/Diagnosis/Problem	SNOMED CT	ICD-9-CM, ICD-10-CM
Procedure	SNOMED CT	CPT, HCPCS, ICD-9-CM (Procedures), ICD-10-PCS
Laboratory test names	LOINC	N/A
Diagnostic study test names	LOINC	HCPCS

SNAP SHOT SUMMARY

- **Quality measures are undergoing transformation**
- **Workflow is impacted**
- **Vocabulary standards are key**
- **Vocabulary standards are transitioning**

IMPLEMENTATION OF SNOMED CT IN CQMs

- **Office of the National Coordinator (ONC)**
  - **2014 Electronic Health Record (EHR) certification criteria**
    - **EHR technology submitted for certification for CQMs, must be capable of capturing the data elements specified in the Data Element Catalog August 2012 Version**
      - **Catalog contains a comprehensive summary of the data elements and the vocabulary standard required by each CQM.**

EXAMPLE

- **If an EHR technology developer requests certification of the EHR technology for CQMs 0018 through 0043, 0101 and 0110, then the developer reviews the list of data elements for these CQMs. For each CQM, the developer is required to demonstrate that each data element can be captured by the EHR technology using the vocabulary standard listed.**

DATA ELEMENT CATALOG

- **Vocabulary standards listed in the catalog are listed by measure title, data element, National Quality Forum (NQF) Identifier, Care Setting, Category, and Element Vocabulary**

- *http://www.nlm.nih.gov/healthit/dec/*

AMBULATORY 0018
CONTROLLING HIGH BLOOD PRESSURE

- **Description: Percentage of patients 18-85 years of age who had a diagnosis of hypertension and whose blood pressure was adequately controlled (<140/90mmHg) during the measurement period.**

AMBULATORY 0018
CONTROLLING HIGH BLOOD PRESSURE

Data Element	Category	Element Vocabulary
Face-to-face interaction	Encounter	SNOMEDCT
Essential hypertension	Condition/Diagnosis/Problem	ICD10CM, ICD9CM, SNOMEDCT
Kidney transplant	Procedure	CPT, SNOMEDCT
Dialysis services	Procedure	CPT, SNOMEDCT
Other services related to dialysis	Intervention	SNOMEDCT
Dialysis education	Intervention	SNOMEDCT

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ASPIRIN PRESCRIBED AT DISCHARGE FOR AMI

- **Description: Acute myocardial infarction (AMI) patients who are prescribed aspirin at hospital discharge.**

ACUTE 0142
ASPIRIN PRESCRIBED AT DISCHARGE FOR AMI

Data Element	Category	Element Vocabulary
Comfort measures only	Intervention	SNOMEDCT
AMI	Condition/Diagnosis/Problem	ICD10CM, ICD9CM, SNOMEDCT
Medical reason	Attribute	SNOMEDCT
Clinical trial participant	Individual characteristic	SNOMEDCT
Inpatient hospital care	Transfer of care	SNOMEDCT
Encounter inpatient	Encounter	SNOMEDCT

VALUE SET AUTHORITY CENTER (VSAC)

- **US National Library of Medicine**
  - **Assist EHR technology developers in meeting the requirements for CQM reporting**
  - **Access and download official versions of vocabulary value sets contained in the CQMs**
    - **Value sets will list the standard vocabulary's numerical values and names that are used in the CQMs**
    - **http://www.nlm.nih.gov/healthit/vsac.html**

Questions