



## Improving Electronic Health Record Usability, Ensuring Data Integrity and Impacting Analytics with SNOMED CT

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### Audience

Individuals or organization representatives that have the need to capture SNOMED CT coded structured data at the point of care.

### Learning objectives

Understand how central terminology services (CTS) 1.2 can be leveraged in obtaining dynamic SNOMED CT value sets

Acquire operational methods to implement SNOMED CT into clinical charting at the point of care

### Outline

- 1) Background
  - a. Trends in health data capture
    - i. Transition from paper records to coded data
    - ii. Rapid adoption of Electronic Health Record (EHR) systems
- 2) SNOMED CT Coded Data within the EHR
  - a. Meaningful Use (MU) Requirements
  - b. Versioning
    - i. MU 2014 minimum standard version: July 2012 vs current version: January 2013
- 3) Defining clinical concepts with value sets
  - a. Value Set Guidelines
    - i. Static vs Dynamic binding
    - ii. Intensional vs Extensional value sets
- 4) Dissatisfaction with EHR systems
  - a. Feasibility vs Usability
- 5) Improving EHR satisfaction and structured data capture at the point of care with SNOMED CT
  - a. Implementing SNOMED CT as dynamic value sets into the EHR as 'pick lists'
    - i. Value set repository
    - ii. CTS 1.2 Services
  - b. Areas of Implementation
    - i. Problem List
      1. 'Most used' subset
      2. Customize by user specialty (primary care vs radiology vs nursing)
    - ii. Assessment forms
      1. Populate pick lists with customized representation of SNOMED CT code
      2. Implement subset of findings domain
        - a. Skin color findings example
  - c. Integrating CQM value sets into assessment forms for complete data capture
    - i. Consistent codes and capture from multiple sources within the EHR
- 6) Conclusion
  - a. SNOMED CT, CTS 1.2 and a value set repository value and coded structured data capture can:
    - i. Improve EHR usability
    - ii. Ensure Data Integrity
    - iii. Limit time spent 'scrubbing' clinical data and increase knowledge from analytics
    - iv. Provide more efficient care to patients