Member Keynote

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SNOMED 2023
Open General Assembly
October 24, 2023

Dianne Babski
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US GA Representative
What is the National Library of Medicine?
History of Supporting Health Data Standards

- **MeSH**: introduced as a controlled vocabulary used for indexing, cataloging, and searching biomedical information.
- **Logical Observations Identifiers Names Codes (LOINC)**: first released in 1990.
- **NLM designated as the Central Coordinating Body for Clinical Terminology Standards within HHS** in 2000.
- **RxNorm**: introduced for drug-related information in 2010.
- **Unified Medical Language System (UMLS) Knowledge Sources**: released after four years of R&D.
- **NLM first offers SNOMED CT as a key component of UMLS**.
Supporting NLM’s Strategic Plan

NLM Strategic Plan

- Accelerate discovery and advance health through data-driven research
- Reach more people in more ways through enhanced dissemination and engagement
- Build a workforce for data-driven research and health
Long-term Vision: Knowledge Hub that Connects Everyone with Customized Health Information
NLM as the U.S. National Release Center

- Charter Member on behalf of US/HHS
- U.S. National Release Center (NRC)
  - US licensor of SNOMED CT Affiliates via the UMLS license
  - US distributor of SNOMED CT products
  - Create and maintain the US Edition of SNOMED CT
  - Create and maintain the SNOMED CT to ICD-10-CM Map

snomed.org/us
United States NRC SNOMED CT Team

John Snyder - SNOMED CT Author, EAG
Dr. Kin-Wah Fung - SNOMED CT Mapping Lead, MAG
Dianne Babski –U.S. General Assembly Representative
Dr. Olivier Bodenreider - CMAG
Nick McGraw - SNOMED CT Coordinator, Member Forum, MSUG
Patrick McLaughlin – Member Forum, TRAG
NLM Works to Promote Better Public Health

Central coordinating body, developing, promoting, and/or disseminating the standards

Implement or regulate use of health data standards in public healthcare systems

Electronic Health Records
Public Health Reporting
Insurance Claims
Laboratories
Drug Formularies
Research
Thank you!

Visit the NLM/FDA, CDC and ONC booths during the EXPO!
ONCStandards Update

October 24, 2023
Agenda

• ONC Overview
• United States Core Data for Interoperability (USCDI)
• ONC Regulations
ONC Overview
Office of the National Coordinator for Health IT

- Founded in 2004 by executive order, established in statute in 2009
- Located within the Office of the Secretary for the U.S. Department of Health and Human Services (HHS)
- Charged with formulating the federal government’s health IT strategy to advance national goals for better and safer health care through an interoperable nationwide health IT infrastructure

**Laying the foundation of EHRs across the industry**
- $40B CMS* investment to subsidize electronic health records (EHRs) for hospitals and ambulatory providers
- ONC “certification” for health IT systems

**Leveraging EHRs to drive value**
- Defines “information blocking” (practices that prevent, discourage, or interfere with access, exchange, or use of electronic health information)
- Requires access to information through APIs “without special effort”
- Requires nationwide governance for health information exchange networks – Trusted Exchange Framework and Common Agreement

Centers for Medicare and Medicaid Services

* CMS: Centers for Medicare and Medicaid Services
ONC Focus Areas

ONC Activities

- Standards
- Certification
- Exchange

ONC Objectives

- Advance the development and use of health IT capabilities
- Establish expectations for data sharing

Federal

Coordination

State & Public
ONC Mission & Vision and 2024 Priorities: 
Set the Course for the 21st Century Digital Healthcare System

MISSION and VISION

ONC is at the forefront of the Administration’s health IT efforts and is a resource to the entire health system to support the adoption of health information technology and the promotion of nationwide, standards-based health information exchange to improve health care.

**MISSION**: To create systemic improvements in health and care through the access, exchange, and use of data.

**VISION**: Better health enabled by data.

PRIORITY:

**Build the digital foundation**
- Data standards
- Health IT gaps
- HHS Health IT Alignment Policy

**Make interoperability easy**
- Trusted Exchange Framework and Common Agreement (TEFCA)*
- Application Programming Interfaces (APIs)
- Expand education and outreach
- Enforce information blocking rules

**Ensure proper use of digital information and tools**
- Health equity by design principles for data capture and use
- Transparency in areas such as algorithm use and safety

United States Core Data for Interoperability (USCDI)
USCDI Core Principles

Comprises a core set of data needed to support patient care and facilitate patient access using health IT

Establishes a consistent baseline of data for other use cases

Expands over time via a predictable, transparent, and collaborative public process
Why USCDI Matters

• Established in the ONC Cures Act Final Rule in 2020

• Required for application programming interface (API) Certification Criterion to access patient data, using FHIR® US Core

• USCDI v1 referenced in Certification Criteria, using HL7® C-CDA or FHIR® US Core:
  • Transitions of Care documents (create, send, and receive)
  • Clinical Information reconciliation and incorporation
  • Patient View, Download, and Transmit their health data to a 3rd party
  • Electronic case reporting to public health agencies
  • Create C-CDA document
  • Access to data via APIs

• Defines required data for other uses, such as CMS* Patient Access and Payer-to-Payer API

• USCDI v3 proposed to be required in Health Data Technology Interoperability (HTI-1 Proposed Rule)

*Centers for Medicare and Medicaid Services
USCDI: Transparent, Predictable, Collaborative

• USCDI v1 is required by Cures Act Final Rule and added data classes clinical notes and provenance, and data elements pediatric vital signs and address

• USCDI v2 added three data classes and 22 data elements in support of advancing health equity (SOGI and SDOH)

• USCDI v3 added 24 data elements focused on factors promoting equity, reducing disparities and supporting public health data interoperability.
  • Proposed as new required version in Health Data, Technology, and Interoperability 1, with an effective date of December 31, 2024

• USCDI v4 added 20 data elements including Alcohol, Substance Use and Physical Activity assessments, Treatment Intervention and Care Experience Preferences, and Medication Adherence
USCDI Version 4 – SNOMED CT

Allergies and Intolerances
- Substance (Medication)
- Substance (Drug Class)
- Substance (Non-Medication)
- Reaction

Care Team Member(s)
- Care Team Member Name
- Care Team Member Identifier
- Care Team Member Role
- Care Team Member Location
- Care Team Member Telecomm

Clinical Notes
- Consultation Note
- Discharge Summary Note
- History & Physical
- Procedure Note
- Progress Note

Clinical Tests
- Clinical Test
- Clinical Test Result/Report

Diagnostic Imaging
- Diagnostic Imaging Test
- Diagnostic Imaging Report

Encounter Information
- Encounter Type
- Encounter Identifier
- Encounter Diagnosis
- Encounter Time
- Encounter Location
- Encounter Disposition

Facility Information
- Facility Identifier
- Facility Type
- Facility Name

Goals and Preferences
- Patient Goals
- SDOH Goals
- Treatment Intervention Preference
- Care Experience Preference

Health Insurance Information
- Coverage Status
- Coverage Type
- Relationship to Subscriber
- Member Identifier
- Subscriber Identifier
- Group Identifier
- Payer Identifier

Health Status Assessment
- Health Concerns
- Functional Status
- Disability Status
- Mental/Cognitive Status
- Pregnancy Status
- Alcohol Use
- Substance Use
- Physical Activity
- SDOH Assessment
- Smoking Status

Immunizations
- Immunizations

Laboratory
- Tests
- Values/Results
- Specimen Type
- Result Status
- Result Unit of Measure
- Result Reference Range
- Result Interpretation
- Specimen Source Site
- Specimen Identifier
- Specimen Condition Acceptability

Medical Devices
- Unique Device Identifier - Implantable

Medications
- Medications
- Dose
- Dose Unit of Measure
- Indication
- Fill Status
- Medication Instructions
- Medication Adherence

Patient Demographics/Information
- First Name
- Last Name
- Middle Name (Including middle initial)
- Name Suffix
- Previous Name
- Date of Birth
- Date of Death
- Race
- Ethnicity
- Tribal Affiliation
- Sex
- Sexual Orientation
- Gender Identity
- Preferred Language
- Current Address
- Previous Address
- Phone Number
- Phone Number Type
- Email Address
- Related Person’s Name
- Relationship Type
- Occupation
- Occupation Industry

Patient Summary and Plan
- Assessment and Plan of Treatment

Problems
- Problems
- SDOH Problems/Health Concerns
- Date of Diagnosis
- Date of Resolution

Procedures
- Procedures
- Performance Time
- SDOH Interventions
- Reason for Referral

Provenance
- Author Time Stamp
- Author Organization

Vital Signs
- Systolic Blood Pressure
- Diastolic Blood Pressure
- Average Blood Pressure
- Heart Rate
- Respiratory Rate
- Body Temperature
- Body Height
- Body Weight
- Pulse Oximetry
- Inhaled Oxygen Concentration
- BMI Percentile (2 - 20 years)
- Weight-for-length Percentile (Birth - 24 Months)
- Head Occipital-frontal Circumference Percentile (Birth-36 Months)

*Data elements with SNOMED CT U.S. Edition as an applicable vocabulary standard (21)
USCDI Data Element – SNOMED CT Model

DATA ELEMENT

Substance (Drug Class)

DATA CLASS

Allergies and Intolerances

Applicable Vocabulary Standard

SNOMED CT U.S. Edition
USCDI Timeline
USCDI ANNUAL TIMELINE 2023

- **Jan – Mar**: Public feedback period for Draft USCDI v4
- **Apr – Jul**: ONC prepares USCDI v4 (Final)
- **Jul – Sept**: Public USCDI v5 submission period
- **Sept – Jan 2025**: Draft USCDI v5
- **Jan – Mar 2025**: ONC publishes USCDI v5
- **Jan**: ONC prepares Draft USCDI v5
- **Feb**: Public feedback period for Draft USCDI v4
- **Mar**: ONC prepares USCDI v4 (Final)
- **Jun**: ONC publishes USCDI v4
USCDI+
USCDI+: Extending Beyond the USCDI

- Meets unique program and use case-specific data needs not fully met by USCDI.
- Helps government and industry partners build on USCDI to support specific program needs.
- Applies USCDI processes for submission and harmonization while focusing on programmatic priorities.
- Seeks to leverage programs and authorities across HHS to drive adoption.
- USCDI+ for Quality Measurement and Public Health kicked off with Centers for Disease Control and Prevention (CDC), Centers for Medicare & Medicaid Services (CMS) & Health Resources and Services Administration (HRSA).
ONC Regulations
United States Core Data for Interoperability (USCDI)

• SNOMED CT is required for *certified health IT modules* when exchanging

  - Substance drug class
  - Smoking Status
  - Problems
  - Laboratory Results/Values
  - Procedures

• Additional SNOMED CT requirements in USCDI v3, *proposed to be required* in HTI-1 Proposed Rule

  - Reaction
  - Gender Identity
  - Encounter Diagnosis
  - SDOH Intervention
  - SDOH Problems/Health Concerns
  - Sexual Orientation
  - Specimen Type
  - SDOH Assessment
  - SDOH Goal

*voluntary Electronic Health Record certification program
Health Data Technology Interoperability (HTI-1 Proposed Rule): What’s the Why?

Implementing the 21st Century Cures Act

• EHR Reporting Program
• APIs that allow electronic health information to be accessed, exchanged, and used without special effort
• Reasonable and necessary activities that do not constitute information blocking

Achieving the goals of the Biden-Harris Administration Executive Orders

• E.O. 13994 “Ensuring a Data-Driven Response to COVID-19 and Future High-Consequence Public Health Threats”
• E.O. 13985 “Advancing Racial Equity and Support for Underserved Communities Through the Federal Government” and E.O 14091 “Further Advancing Racial Equity and Support for Underserved Communities Through the Federal Government”

Leveraging Health IT and Advancing Interoperability

• HITECH* Act
• Interoperability Advancement
• ONC Health IT Certification Program

*Health Information Technology for Economic and Clinical Health (HITECH)
Resources
Resources Available on HealthIT.gov!

About ONC

ONC United States Core Data for Interoperability (USCDI)

ONC United States Core Data for Interoperability Plus (USCDI+)

ONC Health Technology and Interoperability (HTI-1) Rule
Contact ONC

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Health IT Feedback Form:  
https://www.healthit.gov/form/healthit-feedback-form

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Youtube:  
https://www.youtube.com/user/HHSONC

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Thank You