

United States Core Data for Interoperability: Version 3

August 17, 2022







Agenda

- Overview of USCDI Version 3
 - Additional data classes and elements
 - Key changes to existing data classes and elements
- USCDI v4 submission and comment process



USCDI Version 3





Allergies and Intolerances

- Substance (Medication)
- Substance (Drug Class)
- Reaction

Assessment and Plan of **Treatment**

- Assessment and Plan of Treatment
- SDOH Assessment

Care Team Member(s)

- Care Team Member Name
- Care Team Member Identifier
- Care Team Member Role
- Care Team Member Location
- Care Team Member Telecom

Clinical Tests

- Clinical Test
- Clinical Test Result/Report

Diagnostic Imaging

Diagnostic Imaging Test

Encounter Information

Encounter Diagnosis

Encounter Location

• Encounter Disposition

• Encounter Type

• Encounter Time

• Diagnostic Imaging Report

Health Status/

Assessments **

- Health Concerns →
- Functional Status *
- Disability Status 🛨
- Mental Function
- Pregnancy Status *

Immunizations

Immunizations

Smoking Status

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
- Related Person's Relationship *
- Occupation
- Occupation Industry *

Problems

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

Procedures

- Procedures
- SDOH Interventions
- Reason for Referral

Provenance

- Author Organization
- Author Time Stamp

Unique Device Identifier(s) for a Patient's Implantable Device(s)

• Unique Device Identifier(s) for a patient's implantable device(s)

Vital Signs

- Systolic blood pressure
- Diastolic 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)

Clinical Notes

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

Goals

- Patient Goals
- SDOH Goals

Health Insurance Information *

- Coverage Status *
- Coverage Type *
- Relationship to Subscriber *
- Member Identifier
- Subscriber Identifier 📩 Group Number
- Payer Identifier *

Medications

Laboratory

Values/Results

• Specimen Type 📩

Result Status

Test

- Medications
- Dose 🛨
- Dose Units of Measure★
- Indication *
- Fill Status 🛨



USCDI Version 3 Major Changes

- Adopt all Draft USCDI v3 classes and elements proposed in :
 - Two new data classes (Health Insurance Information and Health Status)
 - 20 new data elements which include elements supporting equity, reducing disparities and public health data interoperability
- Expand terminology code systems (SNOMED CT) for sex, sexual orientation and gender identity to support inclusivity and alignment with Gender Harmony Project
- Add four new data elements in Medications data class
 - not proposed in Draft USCDI v3,
 - strongly supported by stakeholders
- Review of overall USCDI v3 process in the <u>ONC Standards Bulletin 22-2</u>



New Data Classes and Elements in USCDI v3 (Compared to USCDI v2)

Health Insurance Info ★

- Coverage Status = 1
- Coverage Type = 1
- Relationship to Subscriber = +
- Member Identifier +
- Subscriber Identifier +
- Group Number +
- Payer Identifier 🛨

Health Status/Assessments ★

- Functional Status § = 1
- Disability Status = 1
- Mental/Cognitive Status ↑ §

Laboratory

- Specimen Type 🕂 🍳
- Result Status + ®

Medications

- Dose § +
- Dose Unit of Measure § +
- Indication § +
- Fill Status § +

Patient Demographics/ Information

- Date of Death §
- Tribal Affiliation = ↑
- Related Person's Name §
- Relationship Type §
- Occupation Q
- Occupation Industry

Procedure

Reason for Referral §

New Data Classes = Equity Based Onderserved Public Health + Add'l USCDI Needs ONC Cert



New Data Elements in Medication Data Class (Compared to Draft v3)

APPLICABLE VOCABULARY STANDARDS
RxNorm Optional: NDC
Unified Code for Units of Measure





Other Changes to Data Classes and Elements

Change from:	Change to:	Reason for change
Health Status (Class)	Health Status/Assessments (Class)	Recognizes that class contains both statuses and structured assessments.
Patient Demographics (Class)	Patient Demographic/ Information (Class)	Recognizes class contains non-demographic patient information. Occupation/Industry Related Person
Current and Previous Address (Elements) No applicable standards	Add US@ Specification as applicable vocabulary standard	Based on requested feedback on newly published, widely accepted standard.
Sex (Assigned at Birth) (Element)	Sex (Element)	Recognizes element often represents data outside of the relevance of an observation at birth, sometimes changes.
Weight-for-length Percentile (Birth - 36 Months) (Element)	Weight-for-length Percentile (Birth - 24 Months) (Element)	Practical use case limited to <=24 months, after which BMI Percentile is almost exclusively used.





Changes to Value Set Support

Representing Social Determinants of Health - Screening Assessments









Туре	Standard / Implementation Specification		Implementation Maturity	Adoption Level	Federally required		Test Tool Availability
Standard	LOINC®	Final		Feedback Requested	No	Free	No

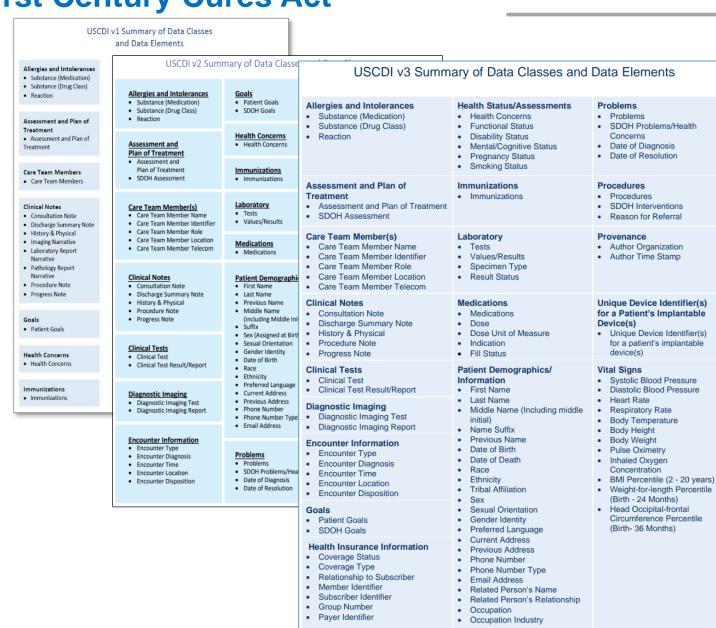
Limitations, Dependencies, and Preconditions for Consideration	Applicable Value Set(s) and Starter Set(s)
 SDOH Screening Assessments are screening questionnaire-based, structured evaluations (e.g., PRAPARE, Hunger Vital Sign, AHC-HRSN screening tool) for a Social Determinants of Health-related risk. 	 Social Determinants of Health Screening Assessments Value Set represents all of the individual domain assessment screening instruments identified by the Gravity Project
 These are represented by LOINC panel codes for screening assessment that have been identified through the Gravity Project community consensus voting process 	
 The Gravity Project established and maintains current value sets which represent SDOH Screening Assessments across many SDOH domains, such as Food, Housing, and Transportation Security. 	
 The United States Core Data for Interoperability version 3 (USCDI v3) includes SDOH Assessments as a data element used to capture and exchange data on a patient's SDOH risks and needs. The value set included on this page is intended to guide development of the ability to capture this type of data in health IT. 	

USCDI Evolution Supports 21st Century Cures Act

The Office of the National Coordinator for Health Information Technology



- USCDI v1 is required by Cures Act Final Rule and added four data elements: clinical notes, provenance, pediatric vital signs and address
- USCDI v2 added three data classes and 22 data elements in support of advancing health equity (SOGI and SDOH)
- Draft USCDI v3 addressed equity, disparities and public health data interoperability. Proposed two data classes (Health Insurance Information and Health Status) and 20 data elements
- USCDI v3 adopts draft USCDI v3 and four additional elements in the Medication data class







USCDI v4 Submission and Comment Process

- ONC is accepting input for potential USCDI v4 data elements:
 - New data element submissions through <u>ONDEC</u>
 - Comments on existing data element pages (not previously accepted into USCDI)
 - Deadline is September 30, 2022.
- ONC plans on releasing Draft USCDI v4 in January 2023.





USCDI v4 Submission and Comment Process

New Prioritization Criteria!

- Represent important additions over previous USCDI versions
- Mitigate health and health care inequities and disparities
- Address the needs of underserved communities
- Address behavioral health integration with primary care and other physical care
- Address public health interoperability needs of reporting, investigation, and emergency response
- Require only modest standards or implementation guide developmental burden
- Require only modest developmental burden on health IT modules
- Create only modest implementation burden on providers and health systems
- Result in only modest aggregate lift for all new data elements





Questions?