

USCDI+: Extending Beyond the USCDI

December 15, 2023





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ONC 2023 ANNUAL MEETING



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Agenda

- USCDI+ Overview
- Panel Discussion
- Questions



United States Core Data for Interoperability: USCDI Essentials





Establishes a consistent baseline of harmonized data elements that can be broadly reused across use cases, including those outside of patient care and patient access.

Expands incrementally over time via a transparent, established, and collaborative process, weighing both anticipated benefits and industry-wide impacts.

USCDI Structure and Versions

- Adopted by ONC in the 2020 21st Century Cures Act Final Rule
- Minimum dataset required for interoperability
 - Defines required data elements and vocabulary standards
 - Agnostic to format
 - Focuses on patient access/care coordination use cases
- Updated annually with federal agency & industry input
 - USCDI v2 and v3 added data classes and data elements including supports for advancing health equity
 - USCDI v4 currently in draft



USCDI v1 Summary of Data Classes and Data Elements USCDI v2 Summary of Data Classes and Data Elements Allergies and Intolerances Substance (Medication) · Substance (Drug Class) Allergies and Intolerances Goals **Procedures** Reaction Substance (Medication) Patient Goals Procedures Substance (Drug Class) SDOH Goals SDOH Interventions Reaction USCDI v3 Summary of Data Classes and Data Elements Assessment and Plan of Treatment Assessment and · Assessment and Plan of **Health Status/Assessments** Allergies and Intolerances **Problems** Plan of Treatment Treatment Problems Substance (Medication) Health Concerns Assessment and SDOH Problems/Health Substance (Drug Class) Functional Status Plan of Treatment Disability Status Concerns Reaction SDOH Assessment Date of Diagnosis Care Team Members Mental/Cognitive Status Date of Resolution Pregnancy Status · Care Team Members Smoking Status Care Team Membe Assessment and Plan of **Procedures** Care Team Membe **Immunizations** Treatment Procedures Immunizations **Clinical Notes** Care Team Membe · Assessment and Plan of Treatment SDOH Interventions Care Team Member Consultation Note SDOH Assessment Reason for Referral Care Team Member . Discharge Summary Note Care Team Membe · History & Physical Care Team Member(s) Laboratory Provenance Care Team Member Name Tests Author Organization · Imaging Narrative · Author Time Stamp · Care Team Member Identifier Values/Results · Laboratory Report Clinical Notes · Care Team Member Role Specimen Type Narrative · Care Team Member Location Result Status Consultation Note Care Team Member Telecom · Pathology Report Discharge Summary Narrative History & Physical **Clinical Notes** Medications Unique Device Identifier(s) Procedure Note Procedure Note Medications Consultation Note for a Patient's Implantable Progress Note · Discharge Summary Note Dose Device(s) Progress Note History & Physical · Dose Unit of Measure Unique Device Identifier(s) Procedure Note for a patient's implantable Indication Fill Status device(s) Progress Note Clinical Tests Goals Clinical Test **Clinical Tests** Patient Demographics/ **Vital Signs** · Patient Goals Clinical Test Result/ Clinical Test Information Systolic Blood Pressure · Clinical Test Result/Report First Name Diastolic Blood Pressure Last Name Heart Rate **Diagnostic Imaging** Middle Name (Including middle Respiratory Rate **Health Concerns** Diagnostic Imaging Diagnostic Imaging Test initial) Body Temperature Health Concerns Diagnostic Imaging · Diagnostic Imaging Report Name Suffix Body Height Diagnostic Imaging Previous Name Body Weight **Encounter Information** Date of Birth Pulse Oximetry Encounter Type · Date of Death Inhaled Oxygen · Encounter Diagnosis **Immunizations** Race Concentration Encounter Time Immunizations Ethnicity . BMI Percentile (2 - 20 years) Encounter Location Encounter Type Tribal Affiliation · Weight-for-length Percentile · Encounter Disposition Encounter Diagnos • Sex (Birth - 24 Months) Encounter Time Sexual Orientation Head Occipital-frontal Goals Encounter Location Patient Goals Gender Identity Circumference Percentile Encounter Dispositi (Birth- 36 Months) Preferred Language SDOH Goals Current Address Health Insurance Information Previous Address Coverage Status Phone Number Coverage Type Phone Number Type Relationship to Subscriber Email Address Member Identifier · Related Person's Name Subscriber Identifier Related Person's Relationship Group Number Occupation Payer Identifier Occupation Industry

Why USCDI matters...

- Application programming interface (API) criterion using FHIR® US Core
- Other ONC Certification Criteria:
 - 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
- TEFCA data exchange
- CMS requirements for certain payers APIs
- HHS funded programs under HHS Health IT Alignment Policy (HITECH Act Sec. 13111 and 13112)



USCDI Timeline



20 July 2023

USCDI v4 publication
Standards Bulletin publication
USCDI v5 submission cycle opening

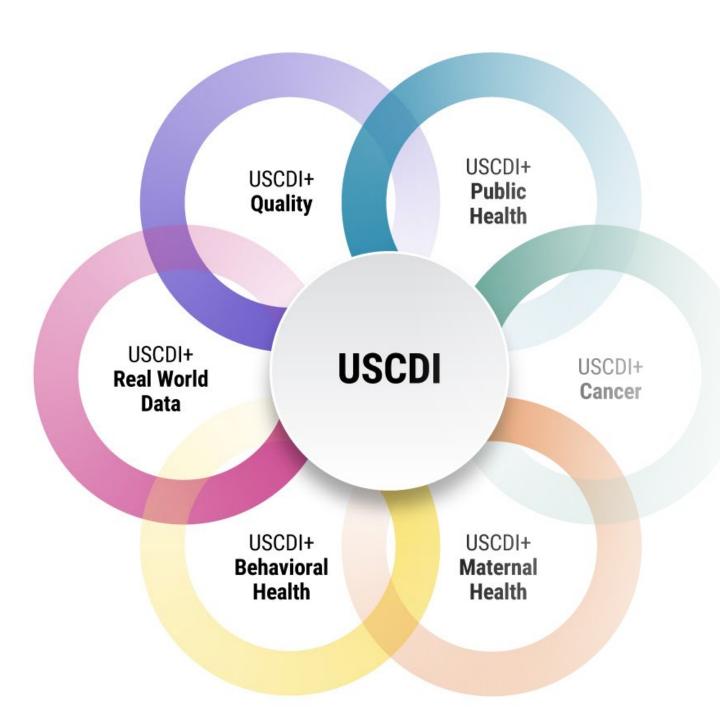


Jan. 2024

Anticipated Draft USCDI v5 publication

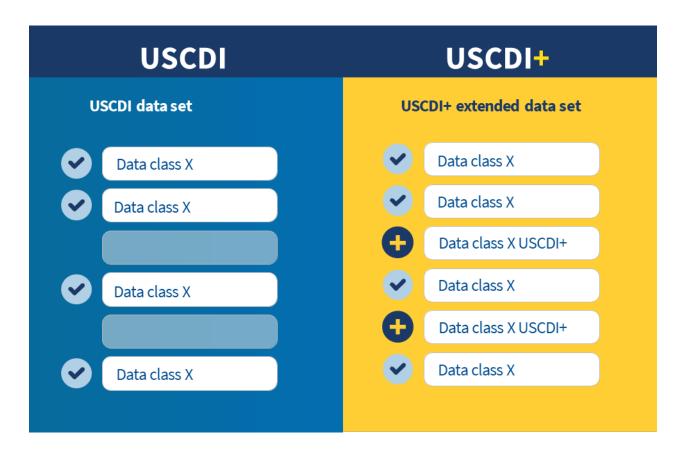
USCDI v5 submission cycle ends





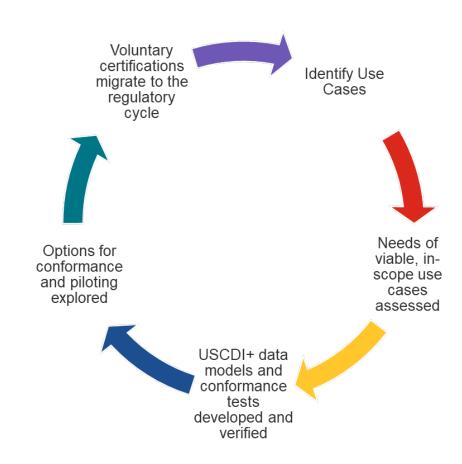
USCDI+: Extending Beyond the USCDI

USCDI and **USCDI**+





USCDI+: Iterative,Rolling Process



Core USCDI+ Principles



Collaboration



Harmonization



Specification

USCDI+ Platform

United States Core Data for Interoperability (USCDI)+

USCDI+ is a service that ONC provides to federal partners who have a need to establish, harmonize, and advance the use of interoperable datasets that extend beyond the core data in the USCDI in order to meet agency-specific programmatic requirements. Learn more about USCDI+ on HealthIT.gov. If you have any questions, technical issues, or need to request access for a colleague, please email USCDI.Plus@hhs.gov.

A USCDI+ "Domain" is a common set of data elements required for interoperability for multiple scenarios and use cases governed by the same set of standards, policies and/or guidelines. (Example: Public Health)

A USCDI+ "Use Case" is a common set of data elements required to support a specific set of functions within a Domain. (Example: Resource Reporting/Situational Awareness)

A USCDI+ "Data Class" is an aggregation of various Data Elements by a common scenario or use case. (Example: Facility Level Data)

A USCDI+ "Data Element" is the most granular level at which a piece of data is exchanged. (Example: Facility Address)

New Data Element & Class (ONDEC) Submission System

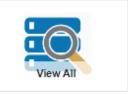
USCDI+ Domains











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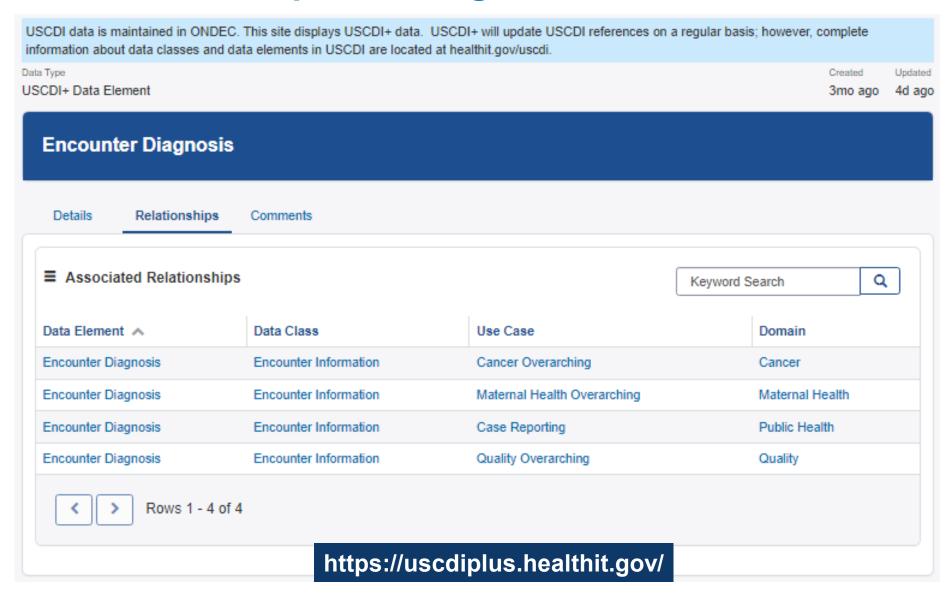
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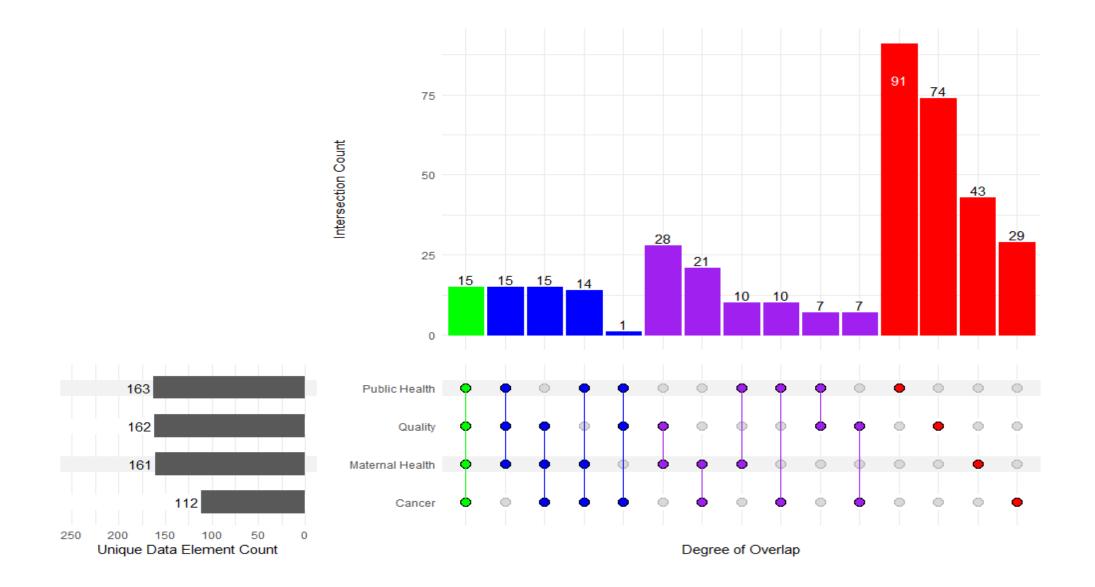
uscdi.admin.persona

https://uscdiplus.healthit.gov/

USCDI+ Relationships and Alignment



Overlap of Data Elements Between USCDI+ Domains





Meet Our Panelists

Joel Andress

Centers for Medicare & Medicaid Services

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 National Institute of Child Health and Human Development, NIH

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