



Utah Partnerships for Catalyzing Data Into Action: Health Data Innovation Summit

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Office of the National Coordinator for Health IT

- Founded in 2004 by executive order, established in statute in 2009
- ONC is 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



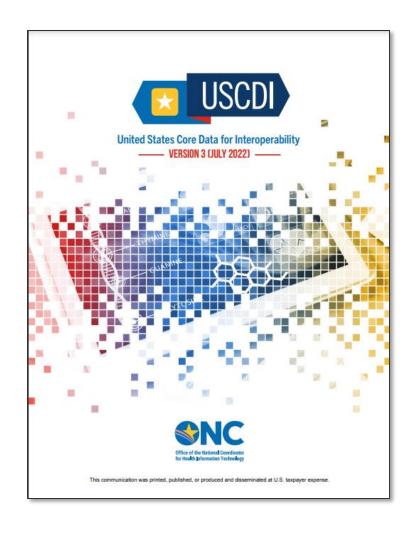
Laying the foundation of EHRs across the industry

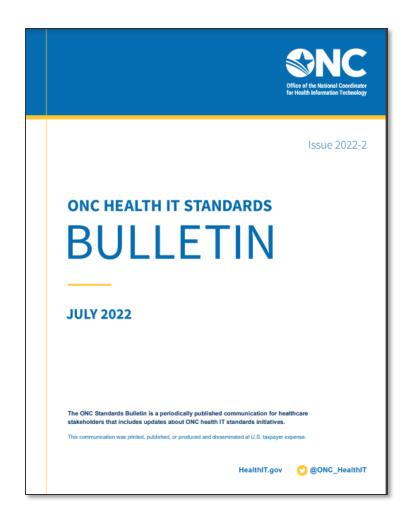
- \$40B CMS investment to subsidize EHRs for hospitals and ambulatory providers
- ONC certification of EHR systems to support CMS and CDC programs

Leveraging EHRs to drive value

- <u>Information blocking</u>: Prohibits providers, technology developers, and health information networks from interfering with access, exchange, and use of electronic health information
- Standards: Data and API standards for access "without special effort"
- <u>TEFCA</u>: Nationwide governance for health information exchange networks Trusted Exchange Framework and Common Agreement

United States Core Data for Interoperability (USCDI)





USCDI is the minimum data set for key EHR functions, interoperability, and patient access



EHR functions requiring USCDI

| USCDI is a required component for following 2015 Edition Cures Update Certification Criteria | | | | | |
|--|--|--|--|--|--|
| Standardized API for patient and population services (§170.315(g)(10)) | | | | | |
| Transitions of care (§170.315(b)(1)) | Undata to USCDI by | | | | |
| Clinical information reconciliation and incorporation (§170.315(b)(2)) | | | | | |
| View, download, and transmit to 3rd party (§170.315(e)(1)) | Update to USCDI by December 31, 2022 (replacing Common Clinical Data Set) | | | | |
| Transmission to public health agencies –electronic case reporting (§170.315(f)(5)) | | | | | |
| Consolidated CDA creation performance (§170.315(g)(6)) | | | | | |
| Application access –all data request (§170.315(g)(9)) | | | | | |

CMS patient access rule requires USCDI

Medicare and Medicaid Programs; Patient Protection and Affordable Care Act; Interoperability and Patient Access for Medicare Advantage Organization and Medicaid Managed Care Plans, State Medicaid Agencies, CHIP Agencies and CHIP Managed Care Entities, Issuers of Qualified Health Plans on the Federally-Facilitated Exchanges, and Health Care Providers

AGENCY: Centers for Medicare & Medicaid Services (CMS), HHS.

ACTION: Final rule.

Interoperability networks requiring USCDI







Mobile apps based on USCDI









USCDI Version 3 (July 2022)

| Allergies and Intolerances | Clinical Tests | Health Status/ Assessments • Health Concerns → • Functional Status ★ • Disability Status ★ • Mental / Cognitive ★ Status • Pregnancy Status ★ • Smoking Status → • Date of Birth • Date of Death ★ | Information • First Name • Last Name | Procedures • Procedures • SDOH Interventions • Reason for Referral ★ |
|---|--|---|---|--|
| Assessment and Plan of Treatment Assessment and Plan of Treatment SDOH Assessment | Diagnostic Imaging Diagnostic Imaging Test Diagnostic Imaging Report | | initial) ■ Suffix ■ Previous Name ■ Date of Birth ■ Date of Death ★ | Provenance |
| Care Team Member(s) Care Team Member Name Care Team Member Identifier Care Team Member Role Care Team Member Location Care Team Member Telecom | Encounter Information • Encounter Type • Encounter Diagnosis • Encounter Time • Encounter Location • Encounter Disposition | Immunizations • Immunizations | Tribal Affiliation Sex Sexual Orientation Gender Identity Preferred Language Current Address Previous Address Phone Number Phone Number Systolic blood press | Unique Device Identifier(s) for a patient's implantable |
| Clinical Notes Consultation Note Discharge Summary Note History & Physical Procedure Note Progress Note | Goals • Patient Goals • SDOH Goals | Laboratory • Test • Values/Results • Specimen Type • Result Status ★ | | Systolic blood pressure Diastolic blood pressure Heart Rate Respiratory rate Body temperature Body height |
| | Health Insurance Information ★ • Coverage Status ★ • Coverage Type ★ • Relationship to Subscriber ★ • Member Identifier ★ • Subscriber Identifier ★ • Group Number ★ • Payer Identifier ★ | Medications • Medications • Dose ★ • Dose Unit of Measure ★ • Indication ★ • Fill Status ★ | Problems Problems SDOH Problems/Health Concerns Date of Diagnosis Date of Resolution | 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) |

ONC FHIR API Requirements: Access "without special effort"



- Open "application programming interfaces" (APIs) and apps are what make it easy to check your bank account or buy stocks or order meal delivery on your smartphone
 - We want that same experience for the health care delivery and public health systems
- 21st Century Cures Act requires availability of APIs that can be accessed "without special effort"
 - ONC rule takes steps to prevent business and technical barriers to information-sharing
- By December 31, 2022, all certified technology developers required to deploy a standard FHIR API (individual and bulk) across their entire customer base
 - Will create a climate for innovation as apps can now be developed that will work across all EHR systems
- Looking ahead to interactive functions: questionnaires, scheduling, FHIR links, subscriptions

Building Interoperability for Public Health



Enable on-demand, uniform, nationwide interoperability for provider-STLT, STLT-STLT, STLT-CDC exchange



Catalyze the development of FHIR-based capabilities to address public health needs



Mechanisms for enhancing standardization of public health data systems

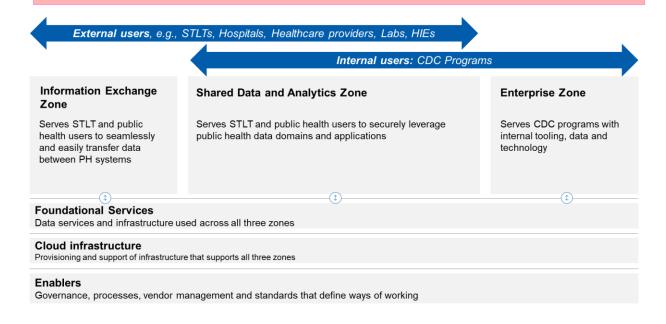
USCDI+ for Public Health

Establish a nationwide public health data model based on commonly adopted openindustry standards



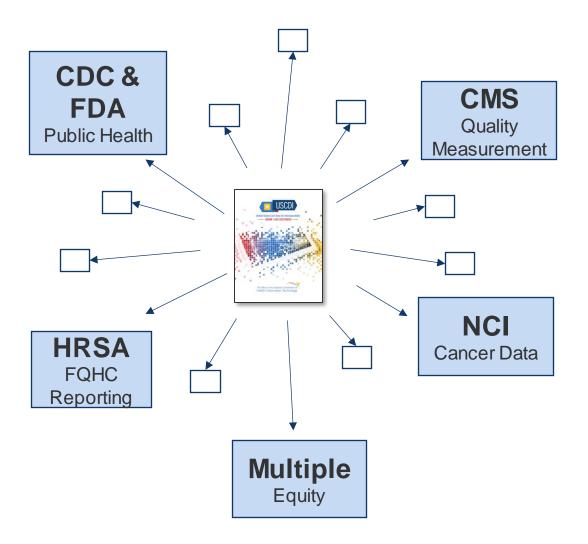
"North Star" Architecture

Open architecture public health cloud infrastructure to support STLT environments, shared applications and tooling, and data-sharing environments



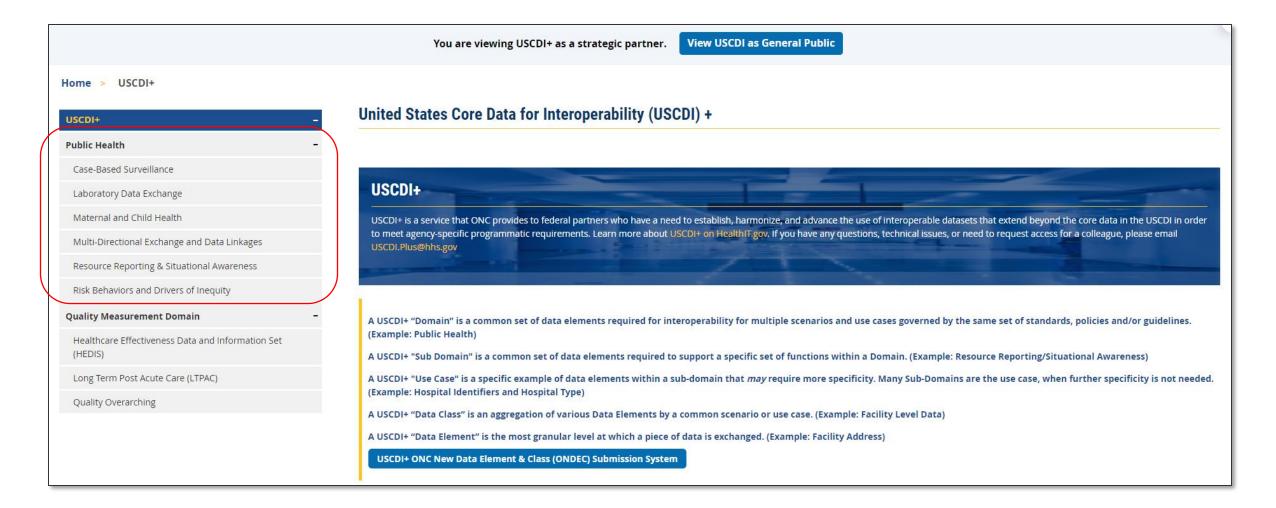
USCDI+: Extending Beyond the USCDI

- Unique agency or program-specific data systems and requirements sometimes not fully met by USCDI
- ONC USCDI+ initiative helps federal partners build on USCDI to support specific program needs
- Allows ONC to better serve federal partners, assures that extensions build from the same foundation, and creates the opportunity for aligning similar data needs across agency programs



USCDI+ for Public Health

Collaboration among CDC, STLTs, and ONC with stakeholder input



Leveraging FHIR for Public Health



Alliance of government, private sector and philanthropic partners aims to use widely accepted healthcare standard to help advance public health

A new initiative launched by HL7 and jointly supported by the Centers for Disease Control and Prevention (CDC) and the Office of the National Coordinator for Health IT (ONC) seeks to use widely recognized data exchange standards to help advance public health. The effort, called Helios, intends to strengthen the capacity and streamline data sharing across all levels of public health using the HL7 Fast Healthcare Interoperability (FHIR®) standard.

Helios Current Projects

- 1. Bulk FHIR Access to IIS Systems
- 2. Health care delivery system capacity and situational awareness reporting for public health
- 3. Aligning and optimizing public health data sharing using EHR FHIR capabilities

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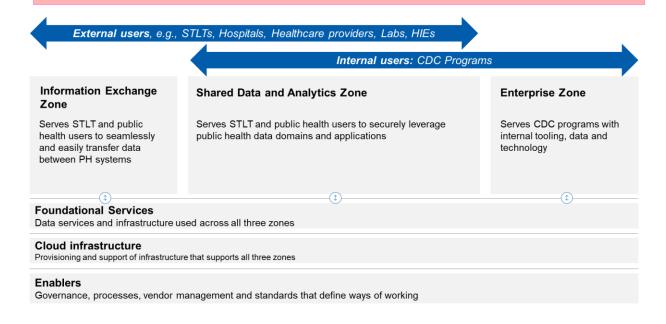
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Contact ONC

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