Office of the National Coordinator for Health Information Technology

Office of Technology – Updates to the HITAC

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Agenda

1. Introduction to Office of Technology (OTECH)
2. Certification
3. Standards
4. Coordination

Office of Technology - Immediate Office

Avinash Shanbhag

Technical Strategy and Analysis

Mera Choi

- **Strategic Initiatives** — Anastasia Perchem
- **Data Analysis** — Wesley Barker

Standards

Matthew Rahn

- **Terminology, Content and Delivery** — Carmela Couderc
- **Care Coordination & Content** — Elizabeth Turi

Certification & Testing

Robert Anthony

- **Program Administration** — Anthony Myers
- **Tools and Testing** — Ashley Hain

Networks and Scalability

Chris Muir

- **Infrastructure** — Brett Andriesen
- **Alignment** — Stephanie Garcia

EHR Certification And Adoption

- 900+ active certified EHR products
- 97% of hospitals and 90% of ambulatory providers now use EHRs
- Over 97% of hospital patients have electronic access to their medical records

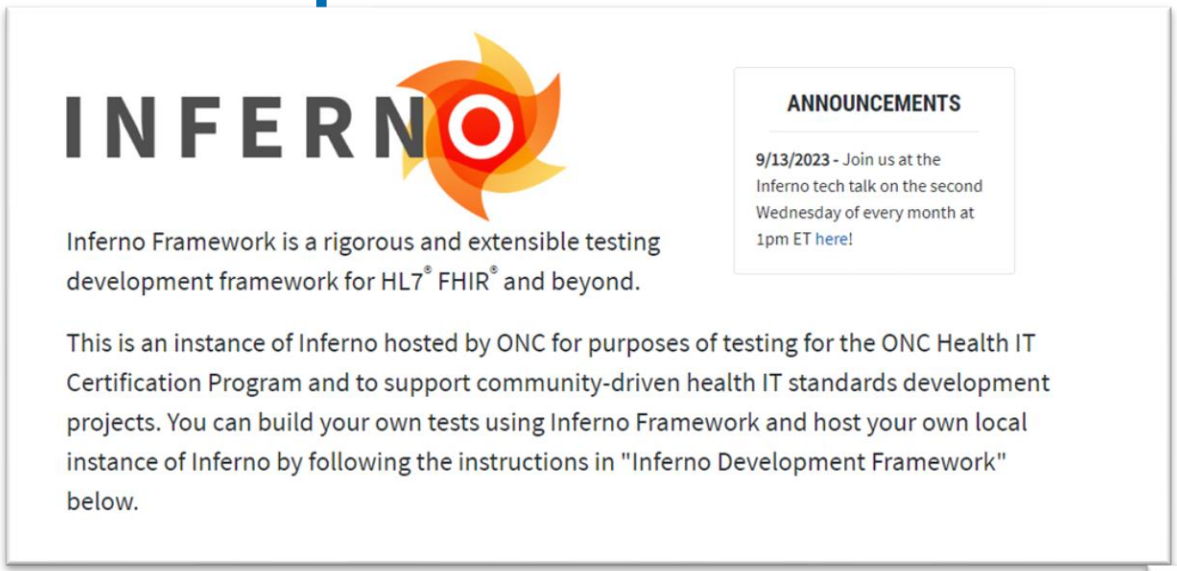
FY23 ONC Health IT Certification Activities

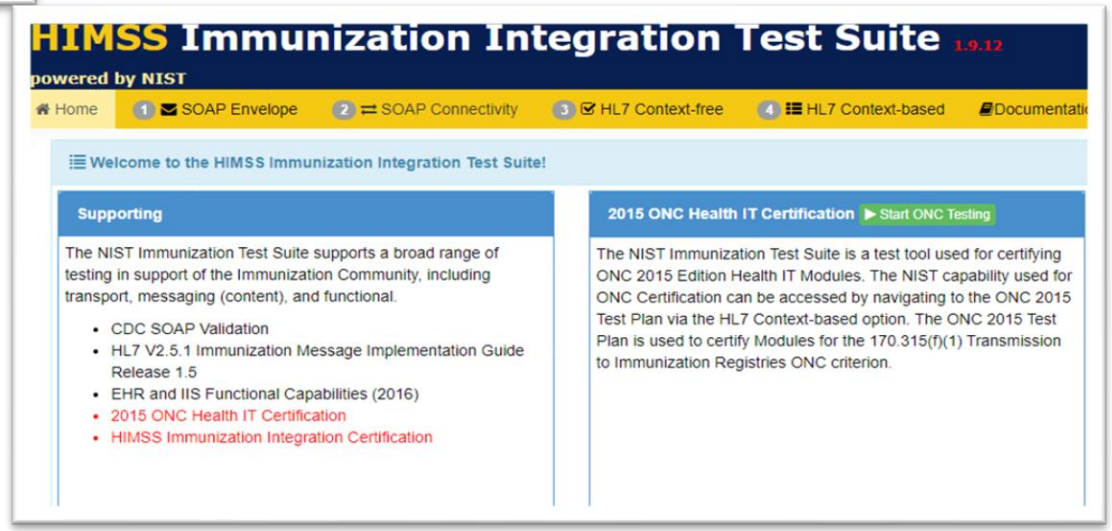
- Successfully managed implementation of Cures Update criteria, including the update of **98%** of all eligible Health IT Modules to the standardized API criterion, with minimal conformance disruption

- Completed first cycle of Real-World Testing with results reporting in March 2023, maintaining **100%** compliance rate

- Continued program support of SVAP with **45** developers taking advantage of the policy

Support for Test Platform used by Health IT Developers





United States Core Data for Interoperability (USCDI) : the "minimum dataset" of the health care delivery system

- USCDI v1 is required by Cures Act Final Rule
- USCDI v2 added SOGI and SDOH
- USCDI v3 focused on factors promoting equity, reducing disparities and supporting public health data interoperability.
- USCDI v4 added Alcohol and Substance Use Assessments, Physical Activity, Treatment Intervention and Care Experience Preferences, and Medication Adherence data elements

USCDI v4 Summary of Data Classes and Data Elements

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 Telecom

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

Patient Demographics (cont.)
- 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

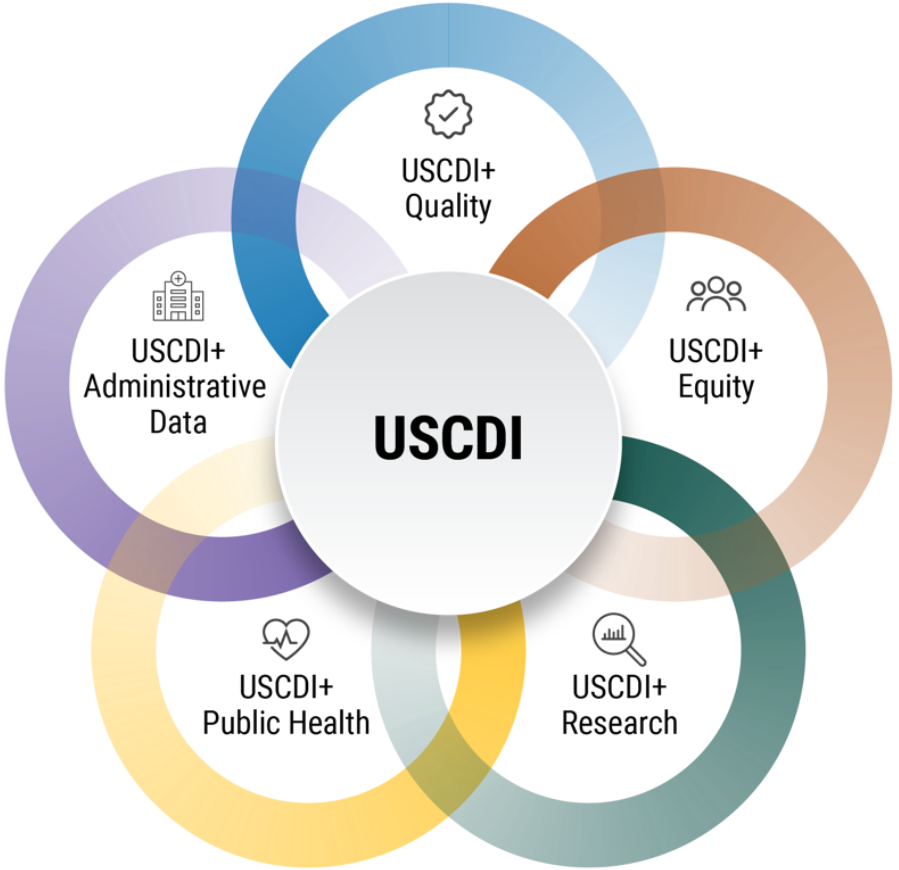
Procedures
- Procedures
- Performance Time
- SDOH Interventions
- Reason for Referral

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)

USCDI+: Extending Beyond the USCDI

- ONC's USCDI+ initiative helps government and industry partners build on USCDI to support specific program needs.
- Seeks to leverage programs and authorities across HHS to drive adoption.
- USCDI+ for Quality Measurement and Public Health kicked off with CDC, CMS & HRSA.



HRSA UDS+

- Establish USCDI+ Quality dataset to support UDS reporting and align with CMS requirements
- Design, Test, Pilot, and Deploy HRSA's FHIR infrastructure for UDS+ Reporting
- Collaborate with HRSA to reduce reporting burden, improve data quality and outcomes for health centers

Networks

Trusted Exchange Framework and Common Agreement (TEFCA)

- Publish Final Common Agreement (CA) v2 and the Qualified Health Information Network (QHIN) Technical Framework (QTF) v2 to include a TEFCA Facilitated FHIR® Implementation Guide
- Continue to support QHIN applications, onboarding process, and transition to become fully operational / go-live
- Continue to support the expansion of exchange mechanisms to include FHIR® within TEFCA

Health IT Standards Coordination

- **HHS Health IT Alignment policy**
  - Provide technical assistance to inform the coordinated procurement and use of health IT within the Department of Health and Human Services
- **Cancer Moonshot**
  - Coordinating the use of health IT standard, including Childhood Cancer – Data Integration for Research, Education, Care and Clinical Trials (CC-DIRECT) public-private partnership
- **Patient-Centered Outcomes Research Trust Fund (PCOR TF)**
  - Contribute to the department's plan of developing data capacity and infrastructure that is used by PCOR researchers
- **Federal FHIR Roadmap**
  - Coordination and alignment of FHIR standards activities across federal agencies

Leading Edge Acceleration Project (LEAP) - 2023

Area of Interest 1

Goal: Exploring the use of advanced FHIR capabilities

- Lead: HEALTHeLink
- Project Dates: Planned completion in 2025
- Outcomes:
  - This project will leverage FHIR for advance care planning use cases to improve patient care.

Area of Interest 2

- Goal: Identifying data quality improvements for USCDI data elements
- Lead: Boston Children's Hospital
- Project Dates: Planned completion in 2025
- Outcomes:
  - This project will develop an open-source platform that enables easy access to high-quality, standardized healthcare data with a focus on USCDI in FHIR format.

Summary

- **ONC Certification Program**
  - Successfully managed implementation of Cures Update criteria for 98% of eligible Health IT modules and completed first cycle of Real-World Testing with 100% compliance.

- **Data and Network Standards**
  - Released USCDI v4 in July 2023, and published Approved Standards for 2023 as part of Standards Version Advancement Process (SVAP). Over 45 developers have already taken advantage of the SVAP policy.
  - Currently working on publishing the Qualified Health Information Network (QHIN) Technical Framework (QTF) v2 to include FHIR

- **Coordination**
  - USCDI+ program has been established for several domains including Quality, Public Health, Cancer, Behavioral Health, and Maternal Health.

Discussion

Office of the National Coordinator for Health Information Technology

Contact ONC

Phone: 202-690-7151

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