

Public Health Data Systems Task Force

Overview of ONC Health IT Certification Program and Relevant Certification Criteria

August 24, 2022



ONC Certification: The Foundation of Health IT

ONC certification is now the **foundation of the US digital healthcare infrastructure**, covering 400+ health IT products used by 97% of hospitals and over 84% of clinical offices and required by numerous federal programs. Health IT systems regularly certified to keep pace with advances in medicine, technology, and policy.

ONC Health IT Certification:

- Establishes baseline technical capabilities for interoperability
- Promotes the exchange of electronic health information
- Establishes baseline privacy and security requirements
- Increases transparency in the functionality and use of certified health IT

- Promotes competition and choice in health IT
- Provides baseline assurance that a health IT module will perform clinical care and data exchange functions in accordance with interoperability standards and usercentered design

Primary Components of the ONC Health IT Certification Program

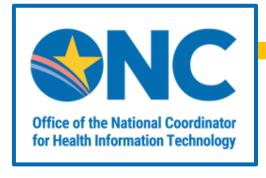
Certification Criteria – Roughly 60 criteria across 8 categories of functionality

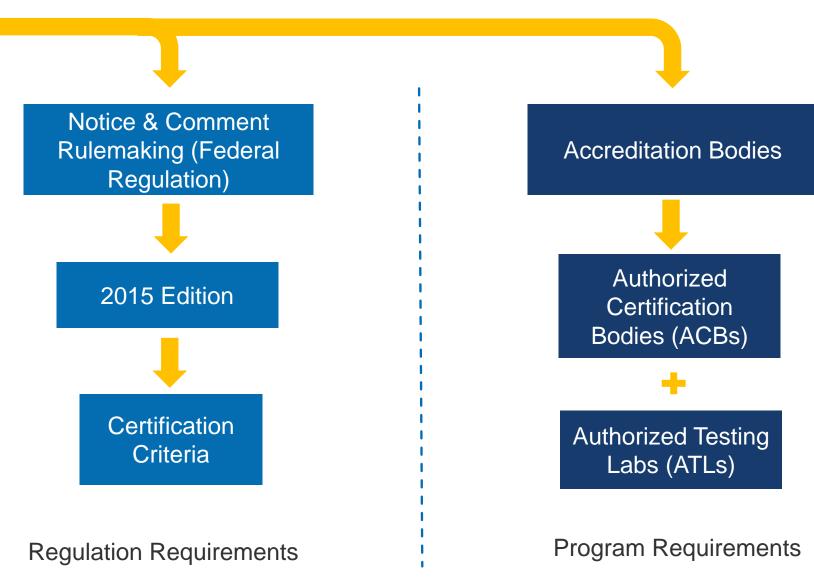
Standards Coordination – Establish US Core Data for Interoperability (USCDI)

Conditions of Certification – Six conditions, which are ongoing business and behavioral requirements for certified health IT developers



How Does ONC Health IT Certification Work?





Testing and Certification Process



Developer creates health IT product(s) that meet standards and certification criteria adopted by HHS Secretary onc-ATL tests health IT product(s) against applicable standards and certification criteria adopted by HHS Secretary

onc-ACB evaluates test artifacts (evidence of conformity) from tested health IT product(s) to make a certification decision

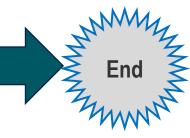
ONC oversees CHPL website to ensure ONC-ACBs submit/maintain the required data

ONC-ACB submits information to the CHPL on certified health IT such as non-conformities, corrective action plans, and required disclosures

onc-ACB submits certified health IT product(s) to Certified Health IT Products List (CHPL) website

Providers/Hospitals

choose health IT Modules to deliver care, share information, and participate in CMS programs



Public Health Reporting Criteria



Criterion Citation	Criterion Name		
§ 170.315(f)(1)	Transmission to immunization registries		
§ 170.315(f)(2)	Transmission to public health agencies — syndromic surveillance		
§ 170.315(f)(3)	Transmission to public health agencies — reportable laboratory tests and value/results		
§ 170.315(f)(4)	Transmission to cancer registries		
§ 170.315(f)(5)	Transmission to public health agencies — electronic case reporting		
§ 170.315(f)(6)	Transmission to public health agencies — antimicrobial use and resistance reporting		
§ 170.315(f)(7)	Transmission to public health agencies — health care surveys		

All criteria point to specific standards and implementation guides and are eligible for SVAP

Test Tooling

- NIST hosts test tools for 5 of the 7 ONC public health criteria where visual demonstration to specified standards is required
 - HL7 CDA Cancer Registry Reporting Validation Tool
 - HL7v2 Immunization Test Suite
 - HL7v2 Syndromic Surveillance Test Suite
 - HL7v2 Electronic Laboratory Reporting (ELR) Validation Tool (2014 and 2015 Edition)
 - HL7 CDA National Health Care Surveys Validator
- CDC hosts the AU/AR tool (based on HL7 standard) for § 170.315(f)(6)
 - NHSN Data Validation Tool for AUR
- Currently, electronic case reporting (§ 170.315(f)(5)) does not have a test tool and is demonstrated through self-attestation conformance method

Existing Public Health Criteria

- (f)-criteria Do
 - Represent report generation and transmission functionalities
 - Require Health IT Modules to adhere to specific standards and implementation guides
 - Provide assurances that the Health IT Module (aka "the product") performs as intended
- (f)-criteria **Do Not**
 - Cover all functionalities that may be of interest
 - Immunization Integration Partnership (an ONC-Authorized alternative test method (ATM))
 - Certify data quality
 - Certify the entity or organization using the technology





Contact ONC

Jeffery Smith, M.P.P
Deputy Division Director,
Certification & Testing Division
Office of Technology
Office of the National Coordinator for Health IT
Jeffery.Smith@hhs.gov

Phone: 202-690-7151

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

Twitter: @onc_healthIT

in LinkedIn: Office of the National Coordinator for Health Information Technology

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



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ONC's 2015 Edition Has Roughly 60 Criteria Across 8 Categories



Conditions and Maintenance of Certification

The 21st Century Cures Act (Section 4002) requires the Secretary of HHS to establish Conditions and Maintenance of Certification requirements for the ONC Health IT Certification Program

The Conditions and Maintenance of Certification express initial requirements and ongoing requirements for health IT developers and their certified Health IT Module(s).

Any noncompliance with the proposed Conditions and Maintenance of Certification requirements would be subject to ONC direct review, corrective action, and enforcement procedures under the ONC Health IT Certification Program.

There are seven Conditions of Certification with accompanying Maintenance of Certification Requirements. They are:

- 1. Information Blocking
- 2. Assurances
- 3. Attestations
- 4. Communications
- 5. Real World Testing
- **6. Application Programming Interfaces (APIs)**
- 7. (Future) Electronic Health Record (EHR) Reporting Criteria Submission

Example Certification Criteria in 42 CFR 170.315



Clinical Processes & Care Coordination Criteria:

- CPOE
- Demographics
- CDS
- Transition of Care
- CIRI
- eRx
- Care Plan



Patient Engagement Criteria:

- View, Download,
 Transmit
- Secure Messaging
- Patient Health
 Information
 Capture



Privacy & Security Criteria:

- Authentication,
 Access Control,
 and Authorization
- End-user Device Encryption
- Audit report(s)



Public Health Criteria:

- Immunization Registries
- Syndromic
 Surveillance
- ElectronicCaseReporting

For more info, check out: https://www.healthit.gov/topic/certification-ehrs/2015-edition-test-method

Standardized Application Programming Interface (API) for Patient and Population Services – 170.315(g)(10)

- Established a new API certification criterion that requires health IT developers to support standardized APIs for single patient and population services.
- Certification criterion is limited to API-enabled "read" services using the HL7® Fast Healthcare Interoperability Resources (FHIR) Release 4 standard, namely FHIR Release 4.0.1
- The use of the FHIR standard and a set of implementation specifications provides known technical requirements against which third-party apps can be developed.
 - App registration, Authentication, Patient authorization & revocation, Token Introspection, etc.

Supports two types of API-enabled services:

- » Services for which a single patient's data is the focus
- » Services for which multiple patients' data are the focus



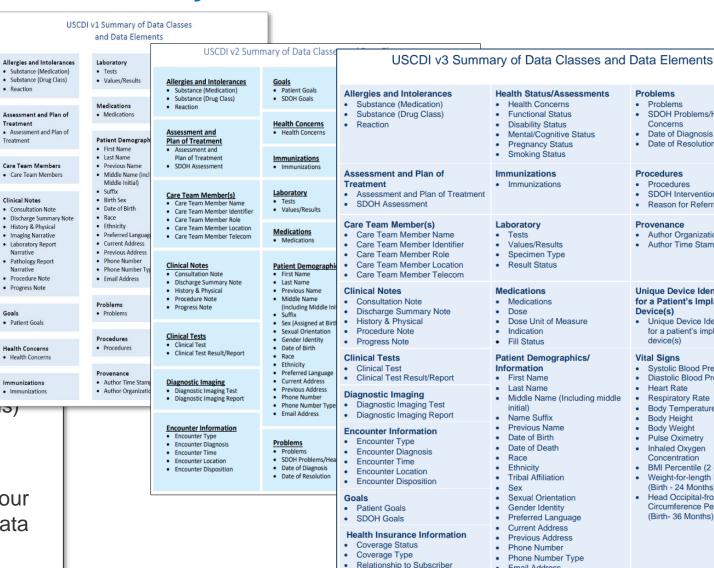
US Core Data for Interoperability v3



Allergies and Intolerances	Clinical Tests	Health Status/ Assessments ★★ • Health Concerns • Functional Status ★ • Disability Status • Mental Function ★ • Pregnancy Status • 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 Phone Number Type Email Address Related Person's Name Related Person's Relationship ★ Occupation ★ Occupation Industry ★	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			ProvenanceAuthor OrganizationAuthor Time Stamp
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	Immunizations • Immunizations		Unique Device Identifier(s) for a Patient's Implantable Device(s) • Unique Device Identifier(s) for a patient's implantable device(s)
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 ★		Vital Signs Systolic blood pressure Diastolic blood pressure Heart Rate Respiratory rate Body temperature Body height 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)
	Health Insurance Information ★ • Coverage Status ★ • Coverage Type ★ • Relationship to Subscriber ★ • Member Identifier ★ • Subscriber Identifier ★ • Group Number ★ • Payer Identifier ★	Medications • Medications ★ • Dose ★ • Dose Units of Measure ★ • Indication ★ • Fill Status ★	Problems Problems SDOH Problems/Health Concerns Date of Diagnosis Date of Resolution	

USCDI Evolution Supports 21st Century Cures Act

- USCDI v1 is required by Cures Act Fin Rule and added four data elements: cl notes, provenance, pediatric vital signs address
- USCDI v2 added three data classes ar data elements in support of advancing health equity (SOGI and SDOH)
- Draft USCDI v3 addressed equity, disp 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 (≈ 80 data elements)



Health Status/Assessments

Health Concerns

Functional Status

Disability Status

Pregnancy Status

Smoking Status

Immunizations

Immunizations

Values/Results

Specimen Type

Result Status

Medications

Indication

Fill Status

Information

First Name

Last Name

Name Suffix

· Date of Birth

Race

Sex

Member Identifier

Group Number

Paver Identifier

Subscriber Identifier

Ethnicity

Date of Death

Tribal Affiliation

Gender Identity

Current Address

Phone Number

Email Address

Occupation

Previous Address

Sexual Orientation

Preferred Language

Phone Number Type

Occupation Industry

Related Person's Name

· Related Person's Relationship

Previous Name

Dose

Medications

Dose Unit of Measure

Patient Demographics/

Middle Name (Including middle

Laboratory

Tests

Mental/Cognitive Status

Problems

Problems

Procedures

Provenance

Device(s)

device(s)

Vital Signs

Heart Rate

Body Height

· Body Weight

Pulse Oximetry

Inhaled Oxygen

Concentration

BMI Percentile (2 - 20 years)

Weight-for-length Percentile

Circumference Percentile

(Birth - 24 Months)

Head Occipital-frontal

(Birth- 36 Months)

Respiratory Rate

Body Temperature

Procedures

Concerns

· Date of Diagnosis

Date of Resolution

SDOH Interventions

Reason for Referral

Author Organization

Author Time Stamp

Unique Device Identifier(s)

for a Patient's Implantable

Unique Device Identifier(s)

Systolic Blood Pressure

Diastolic Blood Pressure

for a patient's implantable

SDOH Problems/Health