

## Health Data, Technology, and Interoperability (HTI-2) Proposed Rule

Patient Engagement, Information Sharing, and Public Health Interoperability Proposed Rule

July 30, 2024

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- The materials contained in this presentation are based on the proposals in the "Health Data, Technology, and Interoperability (HTI-2): Patient Engagement, Information Sharing, and Public Health Interoperability" proposed rule. While every effort has been made to ensure the accuracy of this restatement of those proposals, this presentation is not a legal document. The official proposals are contained in the proposed rule.
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### AGENDA

- Purpose of HTI-2 Proposed Rule
- Overview of Certification Program
- New and Revised Public Health Data Exchange Certification Criteria





## **Purpose of HTI-2 Proposed Rule**

Implementing the 21<sup>st</sup> Century Cures Act

- APIs that allow EHI to be accessed, exchanged, and used without special effort
- Reasonable and necessary activities that do <u>not</u> constitute information blocking
- Establish the qualifications necessary for an entity to receive and maintain designation as a QHIN capable of trusted exchange pursuant to TEFCA

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Achieving the Goals of the Biden-Harris Administration Executive Orders

- E.O. 13994 "Ensuring a Data-Driven Response to COVID-19 and Future High-Consequence Public Health Threats"
- E.O. 13985 "Advancing Racial Equity and Support for Underserved Communities Through the Federal Government" and E.O 14091 "Further Advancing Racial Equity and Support for Underserved Communities Through the Federal Government"
- E.O. 14036 "Promoting Competition in the American Economy"
- E.O. 14058 "Transforming Federal Customer Experience and Service Delivery to Rebuild Trust in Government"

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### Leveraging Health IT and Advancing Interoperability

- HITECH Act
- Interoperability Advancement
- ONC Health IT Certification Program



## **Overview of Certification Program**



### **ONC Activities**

### **ONC Objectives**



## **The Policy Solution: Certification of Health IT**

ONC-certified health IT is the **foundation of the US digital healthcare infrastructure**, covering 400+ health IT products used by 96% of hospitals and nearly 80% of clinical offices and required by numerous federal programs.

### **ONC Health IT Certification:**

- Establishes baseline technical and standards-based capabilities
- Enables interoperability and the exchange of electronic health information
- Sets privacy and security requirements

- Promotes competition and choice in health IT marketplace
- Increases transparency in the quality and performance of certified health IT





### **New and Revised**

## Public Health Data Exchange Certification Criteria

## Public Health Data Exchange- Revisions and New Criteria

Immunizations (f)(1)	By January 1, 2027	Update to HL7 Version 2.5.1 IG for Immunization Messaging, Release 1.5 2018 Update and support new functionality to respond to incoming patient-level queries
Syndromic surveillance (f)(2)	By January 1, 2027	Update to 2019 version of HL7 Version 2.5.1 Implementation Guide: Syndromic Surveillance, Release 1 – US Realm Standard for Trial Use, July 2019
Electronic lab reporting (f)(3)	By January 1, 2028	Update to HL7 Version 2.5.1 LOI from EHR, Release 1 & LRI, Release 1, specifically the Public Health Profile within the IG and support new functionality for receipt of reportable lab orders and transmission of reportable lab results according to the IGs
Cancer registry reporting (f)(4)	By January 1, 2028	Update to require the HL7 FHIR Central Cancer Registry Reporting Content IG 1.0.0 - STU1 and require support for Cancer pathology reporting according to the HL7 FHIR Cancer Pathology Data Sharing, 1.0.0
Electronic case reporting (f)(5)	By January 1, 2028	Update to use the eICR profile of the HL7 FHIR eCR IG only
AU / AR (f)(6)	By January 1, 2027	Update to HL7 CDA <sup>®</sup> R2 Implementation Guide: Healthcare Associated Infection (HAI) Reports, Release 3 - U.S. Realm
Health care surveys (f)(7)	By January 1, 2027	Update HL7 CDA <sup>®</sup> R2 Implementation Guide: National Health Care Surveys (NHCS), R1 STU Release 3.1 – US Realm
Birth reporting (f)(8)	New Criterion	HL7 FHIR Vital Records Birth and Fetal Death Reporting 1.1.0 – STU 1.1
Prescription Drug Monitoring Program (f)(9)	New Criterion	Functional requirement to enable query of a PDMP, including bi-directional interstate exchange and to receive PDMP data in an interoperable manner

## Public Health Data Exchange- Revisions and New Criteria

Immunizations (f)(21)	Receive, validate, parse, and filter immunization information to advance bi-directional interoperability between health care and public health agencies Standard: HL7 Version 2.5.1 Implementation Guide for Immunization Messaging, Release 1.5 2018 Update
Syndromic Surveillance (f)(22)	Receive, validate, parse, and filter incoming syndromic surveillance information Standard: HL7 Version 2.5.1 Implementation Guide: Syndromic Surveillance, Release 1 – US Realm Standard for Trial Use, July 2019
Electronic lab reporting (f)(23)	Receive, validate, parse, and filter incoming reportable laboratory test results/values Standard: HL7 Version 2.5.1 Implementation Guide: Laboratory Results Interface, Release 1 STU Release 4 - US Realm (LRI), specifically the Public Health Profile within the Implementation Guide
Cancer Pathology Reporting (f)(24)	Receive, validate, parse, and filter incoming cancer pathology reports HL7 FHIR Cancer Pathology Data Sharing, 1.0.0 - STU1
Electronic Case Reporting (f)(25)	Receive, validate, parse, and filter of electronic case reports and reportability response HL7 CDA <sup>®</sup> R2 Implementation Guide: Public Health Case Report—the Electronic Initial Case Report (eICR) Release 2, STU Release 3.1—US Realm (HL7 CDA eICR IG) to the HL7 eCR FHIR IG
Birth Reporting (f)(28)	Receive, validate, parse, and filter incoming birth reports HL7 FHIR Vital Records Birth and Fetal Death Reporting–1.1.0 - STU 1.1
Prescription Drug Monitoring Program (f)(29)	Receive, validate, parse, filter prescription data, support query and exchange electronic controlled substance medication prescription information through a FHIR-based API, Bulk FHIR, or SMTP-based edge protocol; or, optionally through TEFCA



## HTI-2 Proposals Relevant to Immunizations

45 CFR 170.315(f)(1) and (f)(21)

## **Immunization Information**

#### PROPOSAL

- Two primary proposals relevant to immunization information
  - Revise "Transmission to immunization registries" certification criterion at 170.315(f)(1)
    - Revise transmission requirements via updated standards (HL7 v2.5.1 Implementation Guide for Immunization Messaging, Release 1.5, Published October 2018)
    - Update vocabulary standards (CVX and NDC)
    - Expire existing standards on January 1, 2027
    - Change name to "Immunization registries Bi-directional exchange"
  - **New** Receive incoming patient-level immunization-specific query or request from external systems
- New Establish new certification criterion at 170.315(f)(21) "Immunization information Receive, validate, parse, filter, and –exchange response" that would support:
  - Enable a user to receive, validate, parse and filter electronic immunization information according to the updated HL7 2.5.1 IG
  - Respond to incoming patient-level queries from external systems—including providing immunization information as structured data. Functional requirement.

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## HTI-2 Proposals Relevant to Syndromic Surveillance

45 CFR 170.315(f)(2) and (f)(22)

## **Syndromic Surveillance**

#### PROPOSAL

- Two primary proposals relevant to syndromic surveillance
  - Revise "Transmission to public health agencies syndromic surveillance" certification criterion at 170.315(f)(2)
    - Revise transmission requirements via updated standards (<u>HL7 Version 2.5.1</u> <u>Implementation Guide: Syndromic Surveillance, Release 1 – US Realm Standard for</u> <u>Trial Use</u>)
    - Expire existing standards on January 1, 2027
    - Change name to "syndromic surveillance transmission to public health agencies"
- **New** Establish new certification criterion at 170.315(f)(22) "Syndromic Surveillance Receive, validate, parse, and filter" that would support:
  - Enable a user to receive, validate, parse and filter electronic syndrome-based public health surveillance information according to either the existing or newly identified HL7 2.5.1 Syndromic IG







## HTI-2 Proposals Relevant to Laboratory Orders and Results

45 CFR 170.315(f)(3), (f)(23), and (a)(2) 45 CFR 170.205(g)(1)-(3), 170.207

### **Laboratory Orders and Results**

### PROPOSAL

- Three primary proposals relevant to laboratory orders and results:
  - Update "electronic lab reporting" certification criterion at 170.315(f)(3), as "Reportable laboratory results Transmission to public health agencies and Laboratory Orders Receive and validate,"
    - Revised transmission requirements via updated standards (<u>HL7 Version 2.5.1 Implementation</u> <u>Guide: Laboratory Results Interface (LRI), Release 1 STU Release 4 – US Realm</u>)
  - New Receive and validate requirements via new standard (<u>HL7 Version 2.5.1 Implementation</u> <u>Guide: Laboratory Orders Interface (LOI) from EHR, Release 1, STU Release 4 – US Realm</u>)
  - Add functionality to "computerized provider order entry—laboratory" certification criterion at 170.315(a)(2) to:
  - New Create and transmit laboratory orders using LOI IG
  - New Receive laboratory results LRI IG
- New Establish new certification criterion at 170.315(f)(23) "Reportable laboratory test values/results Receive, validate, parse, and filter" that would support:
  - Create, transmit, receive, and validate functionality using ELR and/or LRI IG

### Add Functionality to "Computerized Provider Order Entry — Laboratory" Certification Criterion at 170.315(a)(2)

- Current criterion at (a)(2) states: Enable a user to record, change, and access laboratory orders
- New requirements for Health IT Modules certified to (a)(2) would enable a user to
  - Record, change, and access laboratory orders
  - Create and transmit laboratory orders electronically according to the LOI IG
  - Receive and validate laboratory results according to the LRI IG



## HTI-2 Proposals Relevant to Cancer Registry Reporting

45 CFR 170.315(f)(4) and (f)(24)



## **Cancer Registry Reporting**

### PROPOSAL

- Two primary proposals relevant to cancer registry reporting
  - Revise "Transmission to public health agencies cancer registry reporting" certification criterion at § 170.315(f)(4)
    - Revise transmission requirements via updated standards:
      - HL7 CDA® Release 2 Implementation Guide: Reporting to Public Health Cancer Registries from Ambulatory Healthcare Providers, Release 1, DSTU Release 1.1 – US Realm;

OR

- The cancer FHIR reporting bundle and accompanying profiles according to the HL7 FHIR Central Cancer Registry Reporting Content IG 1.0.0 - STU1 in § 170.205(i)(3), with the requirement that all data elements indicated as "mandatory" and "must support" in the IG must be supported
- Expire existing standards on January 1, 2028
- **New** Include Cancer pathology reporting according to the HL7 FHIR Cancer Pathology Data Sharing, 1.0.0 STU1
  - Change name to "Cancer registry reporting Transmission to public health agencies"
- **New** Establish new certification criterion at § 170.315(f)(24) "Cancer pathology reporting Receive, validate, parse, and filter" that would support:
  - Enable a user to receive, validate, parse and filter cancer pathology information according to either the HL7 FHIR Cancer Pathology Data Sharing IG



## HTI-2 Proposals Relevant to Electronic Case Reporting

45 CFR 170.315(f)(5) and (f)(25)

## **Electronic Case Reporting**

#### PROPOSAL

Two primary proposals relevant to electronic case reporting

- Revise "Transmission to public health agencies electronic case reporting" certification criterion at § 170.315(f)(5)
  - Revise transmission requirements via updated standard (<u>HL7 FHIR eCR IG</u>)
  - Expire existing standards on January 1, 2028
  - Change name to "Electronic case reporting- transmission to public health agencies"

#### New

Establish new certification criterion at § 170.315(f)(25) "Electronic case reporting – Receive, validate, parse, filter electronic initial case reports and reportability response; and create and transmit reportability response " that would support:

• Enable a user to receive, validate, parse and filter electronic case reports according to the identified HL7 eCR FHIR IG





HTI-2 Proposals Relevant to Antimicrobial Use and Resistance Reporting 45 CFR 170.315(f)(6)

### **Antimicrobial Use and Resistance Reporting**

### PROPOSAL

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- Update Health IT Modules certified to 170.315(f)(6) to create antimicrobial use and resistance reporting information for electronic transmission in accordance with the following sections of the HL7 CDA<sup>®</sup> R2 Implementation Guide: Healthcare Associated Infection (HAI) Reports, Release 3 - U.S. Realm:
  - HAI Antimicrobial Use and Resistance (AUR) Antimicrobial Resistance Option (ARO) Report (Numerator);
  - Antimicrobial Resistance Option (ARO) Summary Report (Denominator); and,
  - Antimicrobial Use (AUP) Summary Report (Numerator and Denominator).



## HTI-2 Proposals Relevant to Health Care Surveys

45 CFR 170.315(f)(7)

## **Health Care Surveys**

### PROPOSAL

25

- One primary proposals relevant to Health Care Surveys
  - Update Health IT Modules certified to 170.315(f)(7) to support the HL7 CDA<sup>®</sup> R2 Implementation Guide: National Health Care Surveys (NHCS), R1 STU Release 3.1 – US Realm by January 1, 2027.
- Request for Comment on use of FHIR-based Health Care Surveys Content Implementation
   Guide
  - Should ONC consider modifying the certification criterion to require a Health IT Module to support creation and submission using at least the CDA or FHIR versions of the standard?





## HTI-2 Proposals Relevant to Birth Reporting

45 CFR 170.315(f)(8) and (f)(28)



## **Birth Reporting**

### PROPOSAL

27

Two primary proposals relevant to Birth reporting

New "Birth reporting—Transmission to public health agencies" at 170.315(f)(8)

- Create provider live birth report for electronic transmission in accordance with the HL7 FHIR Vital Records Birth and Fetal Death Reporting –1.1.0 –-STU 1.1
- New Establish new certification criterion at 170.315(f)(28) "Birth reporting Receive, validate, parse, and filter" accordance with the HL7 FHIR Vital Records Birth and Fetal Death Reporting –1.1.0 STU 1.1





# HTI-2 Proposals Relevant to Prescription Drug Monitoring Program (PDMP)

45 CFR 170.315(f)(9) and (f)(29)

## **Prescription Drug Monitoring Program (PDMP)**

#### PROPOSAL

Two primary proposals relevant to PDMP

- **New** "Prescription Drug Monitoring Program (PDMP) Databases Query, receive, validate, parse, and filter. Functional requirement" at 170.315(f)(9)
  - Enable a user to query a PDMP, including bi-directional interstate exchange, to receive PDMP data in an interoperable manner, to establish access roles in accordance with applicable law, and to maintain records of access and auditable events
- New Establish new certification criterion at 170.315(f)(29) "Prescription Drug Monitoring Program (PDMP) Data Receive, validate, parse, filter prescription data, support query and exchange"
  - Enable a user to receive and validate electronic prescription information for controlled substance medications and support query and exchange of PDMP data (including patient access).





## Standard API for Public Health Data Exchange

45 CFR 170.315(g)(20) 45 CFR 170.215(a), (b)(2), (d); 170.315(j)(1), (2), (7), (8), (23)



#### PROPOSAL

We propose a standardized HL7 FHIR-based API for public health data exchange at § 170.315(g)(20) that would extend the capabilities included in the standardized API for patient and population services in § 170.315(g)(10). This new certification criterion would support ongoing and future development of public health FHIR IGs leveraging a core set of existing, modular, and extensible capabilities and standards.

#### BENEFITS

- A necessary first step towards furthering a FHIR-based ecosystem that would support a wide array of public health data exchange use cases
- Better streamline and reduce reporting burden for healthcare organizations and developers, while expanding PHA's
  access to critical data for action
- Extend the capabilities included in the standardized API for patient and population services in § 170.315(g)(10) by requiring support for FHIR Resources Profiled in the United States Public Health Profiles Library Implementation Guide (USPHPL IG)
- Ensure that PHAs will have consistent access of discrete functionalities, defined capabilities, and standardized data from providers using certified health IT systems for a range of public health use cases
- Support ongoing and future development of public health FHIR IGs leveraging a core set of existing, modular, and extensible capabilities and standards

### US Public Health Profile Library (USPHPL) Implementation Guide

- In proposing the USPHPL IG in § 170.215(b)(2), our intention is to leverage a public health-specific data set of common data elements necessary to support core public health exchange use cases.
  - The USPHPL IG contains reusable content profiles that represent common data PHAs and public health officials receive and use
  - It was created as a complement to the US Core IG—the USPHPL IG re-uses US Core profiles whenever possible, and only adds new profiles when there is a need for specific profiles for public health data exchange, and no corresponding profile in US Core IG
- We believe the USPHPL IG would enable the exchange of health data from healthcare organizations to PHAs with minimal implementation burden, due to its foundation in the US Core IG, and through the reuse of common profiles for public health data exchange purposes
- We intend to support updates to the USPHPL and align with USCDI+ Public Health

### New Proposed Standardized API for Public Health Data Exchange (g)(20)





### **Resources Available on HealthIT.gov!**

#### **RESOURCES AVAILABLE**

Visit https://healthIT.gov/proposedrule for additional information. More updates will be added over time.

- $\rightarrow$  General Overview
- $\rightarrow$  USCDI v4
- $\rightarrow$  Electronic Prescription
- → Information Blocking (Exceptions)
- → Information Blocking (Definitions)
- → Public Health Reporting

- $\rightarrow$  TEFCA
- → Modular API
- → Patient, Provider, and Payer API
- → Key Compliance Dates



HealthIT.gov

and Interoperability (HTI-2): Patient Engagement Public Health Interoperability PROPOSED RULE 

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