

Federal Health Information Technology Standards Work

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Interoperability Standards Advisory (ISA)

- The Interoperability Standards Advisory (ISA) process represents the model by which the Office of the National Coordinator for Health Information Technology (ONC) will coordinate the identification, assessment, and public awareness of interoperability standards and implementation specifications that can be used by the United States healthcare industry to address specific interoperability needs for **clinical, public health, and research purposes.**
- ONC **encourages** all stakeholders to **implement and use** the standards and implementation specifications identified in the ISA.
- ONC **encourages further pilot testing** and industry experience to be sought with respect to standards and implementation specifications identified as “emerging” in the ISA.

The ISA is Organized and Structured into Four Main Sections

- ***Vocabulary/Code Sets/Terminology*** Standards and Implementation Specifications
 - Semantics
 - ***Content/Structure*** Standards and Implementation Specifications
 - Syntax
 - Standards and Implementation Specifications for ***Services and Exchange***
 - Infrastructure components to address specific interoperability needs
 - ***Administrative*** Standards and Implementation Specifications
 - Payment, operations, and other non-clinical interoperability needs
- ❖ ***Appendices***

United States Core Data for Interoperability

- The USCDI is a standardized set of health data classes and constituent data elements for nationwide, interoperable health information exchange.
- USCDI Data Class: an aggregation of various data elements by a common theme or use case.
- USCDI Data Element: the most granular level at which a piece of data is represented in the USCDI for exchange.
 - For example, Date of Birth is a Data Element rather than its component Day, Month, or Year, because Date of Birth is the unit of exchange.

United States Core Data for Interoperability

- The first version of the United States Core Data for Interoperability (USCDI v1) is adopted as a standard in the ONC Cures Act Final Rule.
- The USCDI sets a foundation for broader sharing of electronic health information to support patient care.

Examples of Data Classes and Data Elements

Allergies and Intolerances

- Substance (Medication)
- Substance (Drug Class)
- Reaction

Vital Signs

- Diastolic Blood Pressure
- Systolic Blood Pressure
- Body Height
- Body Weight
- Heart Rate
- Respiratory Rate
- Body Temperature
- Pulse Oximetry
- Inhaled Oxygen Concentration
- BMI Percentile (2 - 20 Years)
- Weight-for-length Percentile (Birth - 36 Months)
- Head Occipital-frontal Circumference Percentile (Birth - 36 Months)

Patient Demographics

- First Name
- Last Name
- Previous Name
- Middle Name (including Middle Initial)
- Suffix
- Birth Sex
- Date of Birth
- Race
- Ethnicity
- Preferred Language
- Current Address
- Previous Address
- Phone Number
- Phone Number Type
- Email Address

Clinical Notes

- Consultation Note
- Discharge Summary Note
- History & Physical
- Imaging Narrative
- Laboratory Report Narrative
- Pathology Report Narrative
- Procedure Note
- Progress Note

Applicable Standards for Allergies and Intolerance

DATA ELEMENT	APPLICABLE STANDARD(S)
Substance (Medication)	RxNorm, January 6, 2020 Full Release Update Substance (Drug Class) • SNOMED International, Systematized Nomenclature of Medicine
Clinical Terms	<ul style="list-style-type: none">• (SNOMED CT®) U.S. Edition, September 2019 Release Reaction• SNOMED International, Systematized Nomenclature of Medicine
Clinical Terms	(SNOMED CT®) U.S. Edition, September 2019 Release

Applicable Standards for Patient Demographics

DATA ELEMENT	APPLICABLE STANDARD(S)
First Name	
Last Name	
Previous Name	
Middle Name (including middle initial)	
Suffix	
Birth Sex	Birth sex must be coded in accordance with HL7 Version 3 (V3) Standard, Value Sets for AdministrativeGender and NullFlavor (https://www.healthit.gov/sites/default/files/170299_f_29_hl7_v3_agender_and_nullflavor.pdf) attributed as follows: 1. Male. M 2. Female. F 3. Unknown. nullFlavor UNK
Date of Birth	
Race	<ul style="list-style-type: none"> The Office of Management and Budget Standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity, Statistical Policy Directive No. 15, as revised, October 30, 1997 (https://obamawhitehouse.archives.gov/omb/fedreg_1997standards) • CDC Race and Ethnicity Code Set Version 1.0 (March 2000) (https://www.cdc.gov/phn/resources/vocabulary/index.html)
Ethnicity	<ul style="list-style-type: none"> The Office of Management and Budget Standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity, Statistical Policy Directive No. 15, as revised, October 30, 1997 (https://obamawhitehouse.archives.gov/omb/fedreg_1997standards) • CDC Race and Ethnicity Code Set Version 1.0 (March 2000) (https://www.cdc.gov/phn/resources/vocabulary/index.html)
Preferred Language	Request for Comment (RFC) 5646, “Tags for Identifying Languages”, September 2009 (http://www.rfc-editor.org/info/rfc5646) See https://tools.ietf.org/html/bcp47
Current Address	
Previous Address	
Phone Number	ITU-T E.123 (02/2001) International Telecommunication Union E.123: Notation for national and international telephone numbers, e-mail addresses and web addresses ITU-T E.164 International Telecommunication Union E.164: The international public telecommunication numbering plan Phone Number Type
Email Address	

Send us your ideas!

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