



The Office of the National Coordinator for
Health Information Technology

USCDI, ONC C-CDA Scorecard, and HL7 C- CDA Rubric



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Agenda

- ONC Cures Final Rule, 2015 Edition Cures Update: USCDI v1 Overview - Matt
- HL7 C-CDA Rubric Informative Guide - Gay
- ONC C-CDA Scorecard Release 2.0 Demo - Matt



Cures Act Final Rule Information

- All ONC Cures Rule Materials can be found at www.healthit.gov/curesrule
- USCDI V1 available at www.healthit.gov/uscdi
- ONC Cures Act Final Rule
 - <https://www.govinfo.gov/content/pkg/FR-2020-05-01/pdf/2020-07419.pdf>



United States Core Data for Interoperability (USCDI) Version 1

United States Core Data for Interoperability Standard (USCDI)

The United States Core Data for Interoperability (USCDI) standard will replace the Common Clinical Data Set (CCDS) definition **24 months after publication of this final rule.**



USCDI includes the following new required data classes and data elements:

<https://www.devdays.com/>



Provenance



Clinical Notes



Pediatric Vital Signs

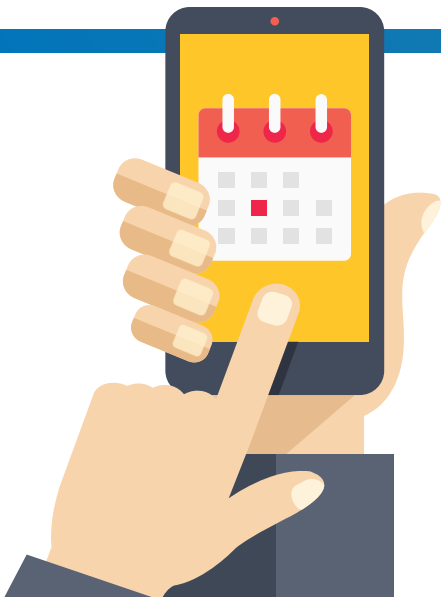


Address, Email & Phone Number

Health IT developers need to update their certified health IT to support the USCDI for all certification criteria affected by this change within 24 months after the publication of the final rule.

USCDI Standard Annual Update Schedule

ONC will establish and follow a predictable, transparent, and collaborative process to expand the USCDI, including providing stakeholders with the opportunity to comment on the USCDI's expansion.



Allergies and Intolerances **NEW**



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

Assessment and Plan of Treatment



Care Team Members



Clinical Notes **NEW**



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

Goals



Health Concerns



Immunizations



Laboratory



- Tests
- Values/Results

Medications



Patient Demographics



- First Name
- Last Name
- Previous Name
- Middle Name (incl. middle initial)
- Suffix
- Birth Sex
- Date of Birth
- Race
- Ethnicity
- Preferred Language
- Current Address **NEW**
- Previous Address **NEW**
- Phone Number **NEW**
- Phone Number Type **NEW**
- Email Address **NEW**

Problems



Procedures



Provenance **NEW**



- Author Time Stamp
- Author Organization

Smoking Status



Unique Device Identifier(s) for a Patient's Implantable Device(s)



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) **NEW**
- Weight-for-length Percentile (Birth-36 Months) **NEW**
- Occipital-frontal Head Circumference Percentile (Birth-36 Months) **NEW**



For more info:

HealthIT.gov/USCDI



HL7 C-CDA Rubric Informative Guide - Overview

CDA_IG_C-CDA_RUBRIC_CRIT_R1_O1_2020MAY



HL7 Guidance: C-CDA Rubric Criteria, Release 1
May 2020

HL7 Informative Guide

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What is the C-CDA Rubric Guide?

- Well over 90 million documents exchanged each month and total of a billion in the US since 2016*
- Quality of and consistency of data needs improvement
- Rubric criteria define best practices to correct common areas of inconsistency
- Project has been ongoing since 2016
- **The intent of balloting the guide was to gain wider consensus on criteria appropriateness**

Ballot Results

- Consensus-based adjustment and clarification of rubric rules
- Transform rubrics into logical processable statements
- Reformat guide into logical buckets
- Link to [C-CDA Examples Task Force](#) full examples

Format of Guide

- The rubric criteria are organized into:
 - Common Rubrics
 - Header Rubrics
 - Section/Domain Specific Rubrics
- Rubrics are subset into Required and Informative
- Rubrics are sequentially numbered (e.g. Rubric-1) and assigned a high-level name (e.g. DisplayName SHALL be accurate)
- Examples: Highly excerpted xml examples are provided to focus on the rubric issue. Excerpted fields are noted with ellipses (...).

Example

2 COMMON RUBRICS

2.1 Required

2.1.1 Rubric- 1 DisplayName SHALL be accurate

Implementation Detail: If an @displayName is present with an @code then the text of the @displayName **SHALL** be the text of the code system's preferred name.

Rubric Intent

If code's displayName is present and it conflicts with the codeSystem's preferred displayName then a tool should throw an error. If a displayName isn't present, then a tool should not return an error.

Examples

C-CDA Examples Task Force Link:

See entry examples located on the Examples Task Force pages: <http://hl7-c-cda-examples.herokuapp.com/>

- Code and Display Name alignment in Single Administration of Medication Example:
<http://cdasearch.hl7.org/examples/view/051c409be64e64d6b35844891314a826e1496106>

Example

Figure 1: @Code and @DisplayName Alignment

```
<manufacturedMaterial>  
  <code code="573621" codeSystem="2.16.840.1.113883.6.88"  
    codeSystemName="RxNorm"  
    displayName="Albuterol 0.09 MG/ACTUAT [Proventil]"/>  
</manufacturedMaterial>
```

Figure 2: @Code and @DisplayName Misalignment

```
< manufacturedMaterial>  
  <code code="573621" codeSystem="2.16.840.1.113883.6.88"  
    codeSystemName="RxNorm"  
    displayName="Aspirin"/>  
</manufacturedMaterial >
```



Goals

- Promote Development of C-CDA Quality Assessment Tools
- The [ONC Scorecard](#) is one such tool
- Improve interoperability and secondary use of data

HL7 Guidance: C-CDA Rubric Criteria, Release 1 May 2020

Published on the C-CDA Product Page:

https://www.hl7.org/implement/standards/product_brief.cfm?product_id=492

C-CDA Supporting Resources	Description
C-CDA Value Set Expansions Release Packages	Confluence page stating releases and sources of truth for C-CDA value sets
C-CDA Scorecard Rubric, Release 1- US Realm	An HL7 Informative Document describing additional rules to improve the quality of C-CDA documents generated from Health Information Technology systems.



HL7 C-CDA Rubric Criteria Project Page

- <https://confluence.hl7.org/display/SD/C-CDA+Rubric+Criteria+Project+Page>

Criteria Suggestions:

High Level Rubric	Implementable Rule Detail *	Intent	Date	Name	Email	Organization

*Provide template IDs, attributes, elements, vocabulary - whatever would be needed for a computer processable rule



ONC C-CDA Scorecard Release 2.0 Demo

C-CDA Scorecard R2.0 Beta Demo

C-CDA Scorecard

Run the Scorecard

Try Me! High scoring sample ▾

Run:

1. Select your C-CDA Document.
+ Select **Please select a C-CDA file.*
2. Click Score.
✓ Score

Learn

Scorecard Introduction and Release Notes
How to Interpret the Scorecard Results
One Click Scorecard using Direct

Implement

Scorecard API and External Tool Instructions
Download the Scorecard for Local Instantiation

PHI Note: The C-CDA Scorecard does not retain your submitted C-CDA file as the file is deleted from the server immediately after processing. However, we strongly suggest that you do not include any Protected Health Information (PHI) or Personally Identifiable Information (PII) in your C-CDA file submissions to the Scorecard. Click [here](#) for more information on how to de-identify PHI.

Contact Information

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