

§170.315(a)(9) Clinical decision support (CDS)

2015 Edition Test Procedure

Version 1.3 Updated on 09-21-2017

Revision History

Version #	Description of Change	Version Date
1.0	Final Test Procedure	01-08-2016
1.1	<p>Updated the section referenced in paragraph (a)(9)(v)(A) from (iv) to the paragraph (a)(9)(i), and reference in paragraph (a)(9)(v)(B) from paragraph (a)(9)(ii) to paragraph (a)(9)(iv).</p> <p>Added reference resources to the verification for step 3 of paragraph (a)(9)(ii)(A) in the test lab verification section.</p>	03-08-2016
1.2	<p>Add transition of care/referral summary configuration step for paragraph (a)(9)(ii)(B)(2).</p> <p>Corrected small typos throughout:</p> <ul style="list-style-type: none"> i. TLV step 1. ii. (A) SUT step 3. iii. (B)(1) SUT iv. (B) SUT and TLV v. (A)(1-4) TLV vi. Standard §170.207(n)(1) to UNK 	06-10-2016
1.3	As of September 21, 2017, Test Procedure has been moved to	09-21-2017

Attestation/Developer self-declaration only.

Regulation Text

Regulation Text

§170.315 (a)(9) *Clinical decision support (CDS)*—

- (i) *CDS intervention interaction*. Interventions provided to a user must occur when a user is interacting with technology.
- (ii) *CDS configuration*.
 - (A) Enable interventions and reference resources specified in paragraphs (a)(9)(iii) and (iv) of this section to be configured by a limited set of identified users (e.g., system administrator) based on a user's role.
 - (B) Enable interventions:
 - (1) Based on the following data:
 - (i) Problem list;
 - (ii) Medication list;
 - (iii) Medication allergy list;
 - (iv) At least one demographic specified in paragraph (a)(5)(i) of this section;
 - (v) Laboratory tests; and
 - (vi) Vital signs.
 - (2) When a patient's medications, medication allergies, and problems are incorporated from a transition of care/referral summary received and pursuant to paragraph (b)(2)(iii)(D) of this section.
 - (iii) *Evidence-based decision support interventions*. Enable a limited set of identified users to select (i.e., activate) electronic CDS interventions (in addition to drug-drug and drug-allergy contraindication checking) based on each one and at least one combination of the data referenced in paragraphs (a)(9)(ii)(B)(1)(i) through (vi) of this section.
 - (iv) *Linked referential CDS*.
 - (A) Identify for a user diagnostic and therapeutic reference information in accordance at least one of the following standards and implementation specifications:
 - (1) The standard and implementation specifications specified in §170.204(b)(3).
 - (2) The standard and implementation specifications specified in §170.204(b)(4).
 - (B) For paragraph (a)(9)(iv)(A) of this section, technology must be able to identify for a user diagnostic or therapeutic reference information based on each one and at least one combination of the data referenced in paragraphs (a)(9)(ii)(B)(1)(i), (ii), and (iv) of this section.
 - (v) *Source attributes*. Enable a user to review the attributes as indicated for all CDS resources:
 - (A) For evidence-based decision support interventions under paragraph (a)(9)(iii) of this section:
 - (1) Bibliographic citation of the intervention (clinical research/guideline);
 - (2) Developer of the intervention (translation from clinical research/guideline);
 - (3) Funding source of the intervention development technical implementation; and
 - (4) Release and, if applicable, revision date(s) of the intervention or reference source.
 - (B) For linked referential CDS in paragraph (a)(9)(iv) of this section and drug-drug, drug-allergy interaction checks in paragraph (a)(4) of this section, the developer of the intervention, and where clinically indicated, the bibliographic citation of the intervention (clinical research/guideline).

Standard(s) Referenced

Cross Reference Criteria

§ 170.315(a)(5) (i) Enable a user to record, change, and access patient demographic data including race, ethnicity, preferred language, sex, sexual orientation, gender identity, and date of birth

§ 170.315(b)(2) (iii)(D) Upon a user's confirmation, automatically update the list, and incorporate the following data expressed according to the specified standard(s):

- (1) Medications. At a minimum, the version of the standard specified in §170.207(d)(3);
- (2) Medication allergies. At a minimum, the version of the standard specified in §170.207(d)(3); and
- (3) Problems. At a minimum, the version of the standard specified in §170.207(a)(4).

Paragraph (a)(9)(iv)

§ 170.204(b)(3) [HL7 Version 3 Standard: Context Aware Knowledge Retrieval Application. \(“Infobutton”\), Knowledge Request, Release 2](#)

HL7 Implementation Guide: [Service-Oriented Architecture Implementations of the Context-aware Knowledge Retrieval \(Infobutton\) Domain, Release 1](#)

§ 170.204(b)(4) [HL7 Version 3 Standard: Context Aware Knowledge Retrieval Application. \(“Infobutton”\), Knowledge Request, Release 2](#)

HL7 Version 3 Implementation Guide: [Context-Aware Knowledge Retrieval \(Infobutton\), Release 4](#)

Additional Resources

§ 170.205(a)(3) [HL7 Implementation Guide for CDA® Release 2: IHE Health Story Consolidation, DSTU Release 1.1 \(US Realm\) Draft Standard for Trial Use July 2012](#)

§ 170.205(a)(4) [HL7 Implementation Guide for CDA® Release 2: Consolidated CDA Templates for Clinical Notes \(US Realm\), Draft Standard for Trial Use Release 2.1, August 2015](#)

Testing components

Gap Eligible

Self-Declaration: As of September 21, 2017, the testing approach for this criterion is satisfied by self-declaration.

The archived version of the Test Procedure is attached below for reference.

System Under Test	Test Lab Verification
The health IT developer submits their self-	The Tester verifies the self-declaration

declaration to the ONC-ATL.

document contains all of the required data elements.

Archived Version:

 [§170.315\(a\)\(9\) Test Procedure](#)

Content last reviewed on September 21, 2018