Test Procedure for §170.302 (j) Medication Reconciliation

This document describes the test procedure for evaluating conformance of complete EHRs or EHR modules[1] to the certification criteria defined in 45 CFR Part 170 Subpart C of the Final Rule for Health Information Technology: Initial Set of standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology as published in the Federal Register on July 28, 2010. The document[2] is organized by test procedure and derived test requirements with traceability to the normative certification criteria as described in the Overview document located at http://healthcare.nist.gov/docs/TestProcedureOverview_v1.pdf. The test procedures may be updated to reflect on-going feedback received during the certification activities.

The HHS/Office of the National Coordinator for Health Information Technology (ONC) has defined the standards, implementation guides and certification criteria used in this test procedure. Applicability and interpretation of the standards, implementation guides and certification criteria to EHR technology is determined by ONC. Test procedures to evaluate conformance of EHR technology to ONC's requirements are defined by NIST. Testing of EHR technology is carried out by ONC-Authorized Testing and Certification Bodies (ATCBs), not NIST, as set forth in the final rule establishing the Temporary Certification Program (*Establishment of the Temporary Certification Program for Health Information Technology, 45 CFR Part 170; June 24, 2010.*)

Questions about the applicability of the standards, implementation guides or criteria should be directed to ONC at ONC.Certification@hhs.gov. Questions about the test procedures should be directed to NIST at hit-tst-fdbk@nist.gov. Note that NIST will automatically forward to ONC any questions regarding the applicability of the standards, implementation guides or criteria. Questions about functions and activities of the ATCBs should be directed to ONC at ONC.Certification@hhs.gov .

CERTIFICATION CRITERIA

This Certification Criterion is from the Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology Final Rule issued by the Department of Health and Human Services (HHS) on July 28, 2010.

§170.302 (j) <u>Medication Reconciliation</u>. Enable a user to electronically compare two or more medication lists.

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[1] Department of Health and Human Services, 45 CFR Part 170 Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, Final Rule, July 28, 2010.

[2] Disclaimer: Certain commercial products are identified in this document. Such identification does not imply recommendation or endorsement by the National Institute of Standards and Technology.

Per Section III.D of the preamble of the Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, Final Rule where the medication reconciliation certification criterion is discussed:

- "… we have revised this certification criterion to require that Certified EHR Technology be capable of providing a user with the ability to electronically compare two or more medication lists (e.g., between an externally provided medication list and the current medication list in Certified EHR Technology). We expect that this could be done in a number of ways and we do not want to preclude Complete EHR and EHR Module developers from innovating, provided that the desired outcome is reached. For example, a user could be presented with two electronic lists side-by-side and move medications from one list to the other and then select the final current list. Alternatively, a user could view one list and two PDFs of other medications and use this capability to update the current medication list. We do, however, see great promise in making this capability more comprehensive and anticipate exploring ways to improve the utility of this capability before we adopt a subsequent round of certification criteria."

INFORMATIVE TEST DESCRIPTION

This section provides an informative description of how the test procedure is organized and conducted. It is not intended to provide normative statements of the certification requirements.

This test evaluates the capability for a Complete EHR or EHR Module to enable a user to electronically compare two or more medication lists.

The Vendor supplies the test data for this test procedure.

This test procedure consists of one section:

- <u>Compare</u> – evaluates the capability to electronically compare two or more medication lists for a single patient
    - o The Vendor has created two or more medication lists, one of which is a current medication list in a patient's electronic record, using Vendor-supplied medication data
    - o The Tester validates that one of the medication lists is a current medication list in the patient's electronic record, and that all of the medication lists created by the Vendor are viewable electronically as separate lists and can be compared by the user

REFERENCED STANDARDS

None

NORMATIVE TEST PROCEDURES

Derived Test Requirements

DTR170.302.j – 1: Electronically compare two or more medication lists

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Required Vendor Information

VE170.302.j – 1.01:   Vendor shall identify the patient with an existing record in the EHR to be used for this test

VE170.302.j – 1.02:   Vendor shall create two or more medication lists, one of which is a current medication list in the patient's electronic record, using Vendor-supplied medication data

VE170.302.j – 1.03:   Vendor shall identify the EHR function(s) that are available to: 1) select the patient, and 2) view and electronically compare two or more medication lists as separate lists, one of which is a current medication list in the patient's electronic record

Required Test Procedure

TE170.302.j – 1.01:   Using the EHR function(s) identified by the Vendor and the NIST-supplied Inspection Test Guide, the Tester shall select the patient's electronic record and verify that two or more medication lists, one of which is a current medication list in the patient's electronic record, are viewable electronically and comparable as separate lists

Inspection Test Guide:

IN170.302.j – 1.01:   Tester shall verify that two or more medication lists, one of which is a current medication list in the patient's electronic record, are viewable electronically and can be compared by the user

TEST DATA

This Test Procedure requires the vendor to supply the test data. The Tester shall address the following:

- Vendor-supplied test data shall ensure that the functional and interoperable requirements identified in the criterion can be adequately evaluated for conformance
- Vendor-supplied test data shall strictly focus on meeting the basic capabilities required of an EHR relative to the certification criterion rather than exercising the full breadth/depth of capability that an installed EHR might be expected to support
- Tester shall record as part of the test documentation the specific Vendor-supplied test data that was utilized for testing

CONFORMANCE TEST TOOLS

None

Document History

Version Number	Description	Date Published
0.6	Original draft version	April 9, 2010
1.0	Updated to reflect Final Rule	July 21, 2010
1.0	Updated to remove "Pending" from header	August 13, 2010

1.1	Removed "draft" from introductory paragraph
	In the Informative Test Description section
	    • Changed verbiage to: "The Tester validates that one of the medication lists is a current medication list in the patient's electronic record, and that all of the medication lists created by the Vendor are viewable electronically as separate lists and can be compared by the user"
	In the Normative Test Procedures section
	    • In TE170.302.j – 1.01, replaced "online" with "viewable electronically and comparable as separate lists"
	    • In IN170.302.j – 1.01, replaced "online" with "viewable electronically and can be compared by the user"
		September 24, 2010