

# Test Procedure for §170.314(f)(1) Immunization information

This document describes the test procedure for evaluating conformance of EHR technology to the certification criteria defined in 45 CFR Part 170 Subpart C of the Health Information Technology: Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions to the Permanent Certification Program for Health Information Technology, Final Rule. The document<sup>1</sup> is organized by test procedure and derived test requirements with traceability to the normative certification criteria as described in the overview document located at <a href="http://www.healthit.gov/certification">http://www.healthit.gov/certification</a> (navigation: 2014 Edition Test Method). The test procedures may be updated to reflect on-going feedback received during the certification activities.

The Department of Health and Human Services (HHS)/Office of the National Coordinator for Health Information Technology (ONC) have 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. Testing of EHR technology in the Permanent Certification Program, henceforth referred to as the ONC Health Information Technology (HIT) Certification Program<sup>2</sup>, is carried out by National Voluntary Laboratory Accreditation Program (NVLAP)-Accredited Testing Laboratories (ATLs) as set forth in the final rule establishing the Permanent Certification Program (*Establishment of the Permanent Certification Program for Health Information Technology, 45 CFR Part 170; February 7, 2011*).

Questions or concerns regarding the ONC HIT Certification Program should be directed to ONC at <u>ONC.Certification@hhs.gov</u>.

## **CERTIFICATION CRITERIA**

This certification criterion is from the Health Information Technology: Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions to the Permanent Certification Program for Health Information Technology, Final Rule issued by the Department of Health and Human Services (HHS) on September 4, 2012.

§170.314(f)(1) <u>Immunization information</u>. Enable a user to electronically record, change, and access immunization information.

Per Section III.A of the preamble of the Health Information Technology: Standards, Implementation Specifications and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions

<sup>&</sup>lt;sup>1</sup> Disclaimer: Certain commercial products may be identified in this document. Such identification does not imply recommendation or endorsement by ONC.

<sup>&</sup>lt;sup>2</sup> Health Information Technology: Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions to the Permanent Certification Program for Health Information Technology, Final Rule.



to the Permanent Certification Program for Health Information Technology, Final Rule (September 4, 2012), the 2014 Edition of this certification criterion is classified as revised from the 2011 Edition. This certification criterion meets at least one of the three factors of revised certification criteria: (1) the certification criterion includes changes to capabilities that were specified in the previously adopted certification criterion (2) the certification criterion has a new mandatory capability that was not included in the previously adopted certification criterion, or (3) the certification criterion was previously adopted as "optional" for a particular setting and is subsequently adopted as "mandatory" for that setting.

### 2014 Edition PREAMBLE LANGUAGE

Per Section III.A of the preamble of the Health Information Technology: Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions to the Permanent Certification Program for Health Information Technology, Final Rule (September 4, 2012) where the immunization information certification criterion is discussed:

• No applicable quotations

## 2011 Edition PREAMBLE LANGUAGE

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 (July 28, 2010) where the submission to immunization registries certification criterion is discussed:

- "We are primarily concerned with Certified EHR Technology's ability to transmit the immunization information in a standardized format, and do not believe that it is necessary to specify a particular recipient in the certification criterion."
- "The CDC maintains an openly available list of updated CVX codes as well as a mapping of CVX codes to CPT codes on their website." "NDC codes were not adopted as a standard to represent immunizations and we do not believe that requiring their use for the purposes of demonstrating compliance with this certification criterion would be appropriate."
- "...we have revised the certification criterion to replace the word "transmit" with "submit" to better align this certification criterion with the meaningful use objective and measure."

## CHANGES FROM 2011 TO 2014 EDITION

Per Section III.A of the preamble of the Health Information Technology: Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions to the Permanent Certification Program for Health Information Technology, Final Rule (September 4, 2012) where the immunization information certification criterion is discussed:



- "We proposed two certification criteria for immunization registries that were essentially a split of the 2011 Edition EHR certification criterion for submission to immunization registries (§170.302(k))."
  - "We proposed one certification criterion that focused just on the capabilities to electronically record, change, and access immunization information (data capture) and another that focused on the capability to electronically create immunization information for electronic transmission in accordance with specified standards."
  - "We discussed these two proposed certification criteria together in the Proposed Rule for simplicity and to prevent confusion, but noted that we did not consider the certification criterion we proposed to focus on data capture to be a revised certification criterion...we stated that we believed that the certification criterion would constitute an unchanged certification criterion because all the capabilities included in the criterion were the same as the capabilities included in the corresponding 2011 Edition EHR certification criterion (§ 170.302(k))."
  - "Additionally, for this certification criterion, we proposed to replace the terms "retrieve" and "modify" in the revised criterion with "access" and "change," respectively."
- "Commenters supported our proposed 'two certification criteria approach'."

### **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 an EHR technology to enable a user to electronically record, change, and access immunization information. No standards are named for this criterion or used in this test procedure.

The test procedure is not prescriptive about the method used to change the immunization information. The test data supplied for this test procedure indicate <u>which</u> immunization information data are to be changed and to what they are to be changed, but do not specify the method to be used for changing them.

ONC supplies the test data for this test procedure.

This test procedure is organized into three sections:

- <u>Record</u> evaluates the capability for a user to enter immunization information into the EHR
  - Using the Vendor-defined EHR function(s), the Vendor-identified patient(s) with an existing record in the EHR, and the provided test data, the Tester enters the immunization information
  - The Tester verifies that the recorded immunization information is stored in the patient record(s) and that it is accurate and complete



- <u>Change</u> evaluates the capability for a user to change immunization information that has been entered previously into the EHR
  - Using the Vendor-identified EHR function(s) and provided test data, the Tester displays and changes the immunization information entered during the Record immunization information test
  - The Tester verifies that the changed immunization information is stored in the patient record(s) and that it is accurate and complete
- <u>Access</u> evaluates the capability for a user to access the immunization information that has been entered into the EHR
  - Using Vendor-defined EHR function(s), the Tester accesses and displays the immunization information entered during the Record and Change tests
  - The Tester verifies that the accessed immunization information is accurate and complete

### **REFERENCED STANDARDS**

None

### **NORMATIVE TEST PROCEDURES**

#### **Derived Test Requirements**

DTR170.314(f)(1) - 1: Electronically Record Immunization Information DTR170.314(f)(1) - 2: Electronically Change Immunization Information DTR170.314(f)(1) - 3: Electronically Access Immunization Information

#### DTR170.314(f)(1) – 1: Electronically Record Immunization Information

#### Required Vendor Information

- VE170.314(f)(1) 1.01: The Vendor shall identify existing patient record(s) in the EHR to be used for this test
- VE170.314(f)(1) 1.02: The Vendor shall identify the EHR function(s) that are available to: 1) select the patient(s), 2) record the immunization information, 3) change the immunization information, and 4) access the immunization information

#### Required Test Procedure

TE170.314(f)(1) – 1.01: The Tester shall select immunization information from the provided test data

- TE170.314(f)(1) 1.02: Using the Vendor-identified EHR function(s), the Tester shall select the Vendoridentified existing test patient record(s) and enter the immunization information based on the test data selected in TE170.314(f)(1) – 1.01
- TE170.314(f)(1) 1.03: Using the Inspection Test Guide, the Tester shall verify that the immunization information is entered correctly and without omission



#### Inspection Test Guide

IN170.314(f)(1) – 1.01: Using the provided immunization information test data selected in TE170.314(f)(1) – 1.01, the Tester shall verify that the immunization information is entered correctly and without omission

IN170.314(f)(1) - 1.02: The Tester shall verify that the immunization information entered during the Record test is captured and stored in the test patient record(s)

#### DTR170.314(f)(1) – 2: Electronically Change Immunization Information

#### Required Vendor Information

• As defined in DTR170.314(f)(1) – 1, no additional information is required

#### **Required Test Procedures**

TE170.314(f)(1) – 2.01: The Tester shall select immunization information from the provided test data TE170.314(f)(1) – 2.02: Using the Vendor-identified EHR function(s), the Tester shall select the existing patient record(s), shall display the immunization information entered during the DTR170.314(f)(1) – 1: Electronically Record Immunization Information test, and shall change the previously entered immunization information based on the test data selected in TE170.314(f)(1) – 2.01
TE170.314(f)(1) – 2.03: Using the Inspection Test Guide, the Tester shall verify that the immunization

information changed during TE170.314(f)(1) – 2.02 is changed correctly and without omission

#### Inspection Test Guide

IN170.314(f)(1) – 2.01: Using the provided test data selected in TE170.314(f)(1) – 2.01, the Tester shall		
verify that the immunization information entered during the DTR170.314(f)(1) $- 1$ :		
Electronically Record Immunization Information test is changed correctly		
IN170.314(f)(1) - 2.02: The Tester shall verify that the changed immunization information is captured and		
stored in the test patient record(s)		

#### DTR 170.314(f)(1) – 3: Electronically Access Immunization Information

#### **Required Vendor Information**

• As defined in DTR170.314(f)(1) – 1, no additional information is required

#### Required Test Procedures

TE170.314(f)(1) – 3.01: Using the Vendor-identified EHR function(s), the Tester shall select the existing patient record(s), and shall access and display the immunization information entered during the DTR170.314(f)(1) – 1: Electronically Record Immunization Information and DTR170.314(f)(1) – 2: Electronically Change Immunization Information tests

Inspection Test Guide

IN170.314(f)(1) – 3.01: Using the provided immunization information test data, the Tester shall verify that the immunization information is accessed and that it displays correctly and without omission

# **TEST DATA**

ONC supplied test data is provided with the test procedure to ensure that the applicable requirements identified in the criteria can be adequately evaluated for conformance, as well as, to provide consistency in the testing process across multiple National Voluntary Laboratory Accreditation Program-Accredited Testing Laboratories (ATLs). The provided test data focus on evaluating the basic capabilities of required EHR technology, rather than exercising the full breadth/depth of capability that installed EHR technology might be expected to support. The test data is formatted for readability of use within the testing process. The format is not prescribing a particular end-user view or rendering. No additional requirements should be drawn from the format.

The Tester shall use and apply the provided test data during the test, without exception, unless one of the following conditions exists:

- The Tester determines that the Vendor-selected message format requires some modification to the test data.
- The Tester determines that the Vendor product is sufficiently specialized that the provided test data needs to be modified in order to conduct an adequate test. Having made the determination that some modification to the provided test data is necessary, the Tester shall record the modifications made as part of the test documentation.
- The Tester determines that changes to the test data will improve the efficiency of the testing process; primarily through using consistent demographic data throughout the testing workflow. The Tester shall ensure that the functional and interoperable requirements identified in the criterion can be adequately evaluated for conformance and that the test data provides a comparable level of robustness. Having made the determination that some modification to the provided test data is necessary, the Tester shall record the modifications made as part of the test documentation.

Test Data for §170.314(f)(1) Immunization information available at <u>http://www.healthit.gov/certification</u> (navigation: 2014 Edition Test Method)

Any departure from the provided test data shall strictly focus on meeting the basic capabilities required of EHR technology relative to the certification criterion rather than exercising the full breadth/depth of capability that installed EHR technology might be expected to support.

TE170.314(f)(1) - 3.02: Using the Inspection Test Guide, the Tester shall verify that this immunization information is displayed correctly and without omission



The test procedures require that the Tester enter the test data into the EHR technology being evaluated for conformance. The intent is that the Tester fully controls the process of entering the test data in order to ensure that the data are correctly entered as specified in the test procedure. If a situation arises where it is impractical for a Tester to directly enter the test data, the Tester, at the Tester's discretion, may instruct the Vendor to enter the test data, so long as the Tester remains in full control of the testing process, directly observes the test data being entered by the Vendor, and validates that the test data are entered correctly as specified in the test procedure.

# **CONFORMANCE TEST TOOLS**

None.



# **Document History**

Version Number	Description of Change	Date Published
1.0	Released for public comment	November 19, 2012
1.1	Delivered for National Coordinator Approval	December 3, 2012
1.2	Posted Approved Test Procedure	December 14, 2012