# Test Criteria: 170.315.f.3 – Transmission to Public Health Agencies – Reportable Laboratory Tests and Values/Results

|  |  |
| --- | --- |
| **Testing Result** |  |
| Participant and Product-with-version |  |
| Setting (Ambulatory or Inpatient) |  |
| Test Proctor |  |
| Test Date |  |
| Test Result | Pass:  Fail:  No Attempt: |
| Error Description (if applicable) |  |
| Modifications to Product Under Test |  |
| Additional Software Used |  |
| Additional Proctor Notes |  |

### Overview

In this document you will find:

* [Test Data and Test Tools](#_Test_Data_and)
* [Standards Support](#_Demonstrate_Standards_Support)
* [Drummond Test Report (Instructions, Expected Results, Points to Remember)](#_170.315(f)(3)-Transmission_to_Publi)
* [Test Procedures](#_1.1_Create_reportable)
* [Appendix A: Testing Guide](#_Appendix_A:_Testing)
* [Appendix B: ONC Criteria](#_Appendix_B:_ONC)

### Version of ONC Test Method

1.0

### Scope of Proctoring Sheet

The ONC test method associated with this criterion is the only approved test method for EHR Meaningful Use certification. This Proctoring Sheet is not a replacement test method but a test procedure document for performing the ONC test method and recording the results. Proctoring Sheet describe test data, test criteria and expected results. It is assumed the Health IT Developer or Participant under Test is familiar with the associated ONC test method.

# Robustness and Reliability Requirement

To satisfy the module criteria, it is expected that the Product-Under-Test is able to complete the testing requirements reliably, including repeat testing with the same result without error, and with a satisfactory level of robustness. This includes unexpected error messages produced through normal operation, multiple unintended restarts of the application or any other “buggy” facets of the product displayed while testing. These errors are record in the Additional Proctor Notes of the proctor sheet. Lack of reliability and robustness of design will result in failure of the module.

# Test Data and Tools

|  |  |
| --- | --- |
| **Test Data Source:** | ONC-Supplied  DG-Supplied:  Developer-Supplied: |
| **Pre-Test Data Setup:**   * Pre-load the first test case from each of the nine (9) scenarios from the [NIST Electronic Laboratory Reporting (ELR) Test Suite](http://hl7v2-elr-testing.nist.gov/mu-elr/) | |
| **Test Data:**   * NIST-supplied test cases | |
| **Test Tools:**   * [NIST Electronic Laboratory Reporting (ELR) Test Suite](http://hl7v2-elr-testing.nist.gov/mu-elr/) | |

# Demonstrate Standards Support

|  |  |
| --- | --- |
| **Test Result:** | PASS:  FAIL:  No Attempt: |
| **Instructions:** Implement standards below for Reportable Labs content. For additional references, click [here](https://www.healthit.gov/policy-researchers-implementers/meaningful-use-stage-2-0/standards-hub) for the ONC Standards Hub. | |

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| --- | --- | --- |
|  | **Standard** |  |
|  | §170.205(g) | HL7 2.5.1 Implementation Specifications. HL7 Version 2.5.1. Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 1 with Errata and Clarifications, and ELR 2.5.1 Clarification Document for EHR Technology Certification. |
|  | §170.207(a)(3) | International Health Terminology Standards Development Organization (IHTSDO) SNOMED CT® International Release July 2012 and US Extension to SNOMED CT® March 2012 Release |
|  | §170.207(c)(2) | Logical Observation Identifiers Names and Codes (LOINC®) Database version 2.40 |

# 170.315(f)(3)-Transmission to Public Health – Reportable Laboratory Test and Values/Results

|  |  |
| --- | --- |
| **Test Result:** | PASS:  FAIL:  No Attempt: |
| **Instructions:** Create reportable lab tests and values/results for electronic transmission. | |
| **Expected Test Result:**  Health IT module must:   * Record reportable lab test and values/results content and generate message according to the §170.205(g) ELR Messaging Guide, Associated HL7 v2.5.1 Errata and Clarifications, and the ELR 2.5.1 Clarification Document. * EHR supports the SNOMED CT and LOINC vocabulary codes and the value sets specified in the HL7 2.5.1 Implementation Guide for ELR to Public Health, Release 1. | |
| **Points to Remember:**   * This module is eligible for gap certification. * Test Scenario 5 has two choices (5A or 5B). The difference is based on a choice within the standard for representing parent-child OBR-OBX segments * Within the [NIST Electronic Laboratory Reporting (ELR) Test Suite](http://hl7v2-elr-testing.nist.gov/mu-elr/): * Use the “[NIST ELR Normative Test Process Document](http://hl7v2-elr-testing.nist.gov/mu-elr/)” for test tool procedures * The “Context-based” tab should be used for testing and validation * See “Documentation” tab for test process document and additional resources * Vocabularies/value sets are accessible once a test step is loaded | |

**Test Procedures**

### 1.1 Create reportable lab messages

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| --- | --- |
|  | User identifies patient records containing pre-loaded reportable labs data or input reportable labs data in patient records. |
|  | As instructed in the [NIST ELR Normative Test Process Document](http://hl7v2-elr-testing.nist.gov/mu-elr/), user will log into health IT module and generate the reportable labs message for Test Step 1 under Test Scenario 1 and provide a copy of the message to the Proctor. |
|  | Proctor validates the message using the NIST ELR Test Tool and visually inspects the validation report to verify compliance. |
|  | User enters test data for next test case under Test Scenario 1 and provides generated lab message to Proctor for validation. |
|  | Repeats steps above until **all nine (9) test scenarios** (see list below) are tested and validated.  *Note: test scenario 5 has two choices (5A or 5B). The difference is based on a choice within the standard for representing parent-child OBR-OBX segments. Support of both is preferred, but not required.* |

<INSERT SCREEN SHOTS>

<INSERT Test Tool Report for ELR\_1\_1.1\_Max>

<INSERT Test Tool Report for ELR\_2\_1.1\_Type>

<INSERT Test Tool Report for ELR\_3\_1.1\_Type>

<INSERT Test Tool Report for ELR\_4\_1.1\_Type>

<INSERT Test Tool Report for ELR\_5A\_1.1\_Type and/or ELR\_5AB\_1.1\_Type> <INSERT Test Tool Report for ELR\_6\_1.1\_Type>

<INSERT Test Tool Report for ELR\_7\_1.1\_Type>

<INSERT Test Tool Report for ELR\_8\_1.1\_Type>

<INSERT Test Tool Report for ELR\_9\_1.1\_Type>

# Appendix A: Testing Guide

*This appendix contains more details and background on the testing requirements, including explanation on underlying standards, notable issues and best practice suggestions.*

Rev 01-Mar-2016 Additions

* Many data elements in the implementation profile guide are identified with an RE usage (Required-but may be empty if unknown). Per the interpretation of the test tool developers, RE usage indicates that EHR implementations must be capable of supporting such elements and must populate them if the information is known. As part of the test story/test data, ONC has made the elements known. Therefore, the EHRs are required to demonstrate that they support these elements and shall send such data when received/known. This is how the test tool validates messages in Context-based validations.
* Only the Receiver Profile in the ELR guide is used for this test.

# Appendix B: ONC Criteria and Standards

*This appendix contains copy of the relevant ONC criteria and standards for this proctor sheet as a reference. In the event of a discrepancy with the ONC Final Rule, the ONC Final Rule takes precedence.*

**§170.315(f)(3) Transmission to Public Agencies – Reportable Laboratory Tests and Values/Results**

Technology must be able to create syndrome-based public health surveillance information for electronic transmission to public health agencies

**§170.205(g).** Standard. HL7 2.5.1. Implementation specifications. HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 1 with Errata and Clarifications, and ELR 2.5.1 Clarification Document for EHR Technology Certification.

**§170.207(a)(3)** Standard.IHTSDO SNOMED CT®, International Release July 2012 and US Extension to SNOMED CT® March 2012 release.

**§170.207(c)(2)** Standard. Logical Observation Identifiers Names and Codes (LOINC®) Database version 2.40.

# Change Log

|  |  |
| --- | --- |
| Revision | Change Description |
| 01-Mar-2016 | Initial Release. |
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**About Drummond Group LLC**

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