

**Table of Contents** Associated Certification Criteria: §170.315(f)(3) Transmission to public health agencies — reportable laboratory tests and value/results

<p><b>Measure Description:</b> Create and transmit HL7 lab result messages to public health agency.</p>	<p><b>Justification:</b> We wanted to focus on aspects of this criterion that would generally provide the most public health benefit. State agencies provide statistics that can be very helpful to patient care, epidemiologists and government for identifying disease outbreaks, epidemics and even pandemics.</p>	
<p><b>Metric Description:</b> 1) 100 percent of HL7 Reportable lab messages successfully sent and acknowledged (via HL7 ACK) by public health agency 2) 100 percent of reportable lab messages successfully received and processed by public health agency based on either: a) Logging into agency web site and validating, or b) Using a report provided by agency</p>	<p><b>Standards Implemented:</b> • HL7 2.5.1. Implementation specifications. HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health Release 1 (US Realm) • Errata and Clarifications and ELR 2.5.1 Clarification Document for EHR Technology Certification • § 170.207(a)(3) International Health Terminology Standards Development Organisation (IHTSDO) Systematized Nomenclature of Medicine Clinical Terms (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, Released July 2012, a universal code system for identifying laboratory and clinical observations produced by the Regenstrief Institute, Inc. • HL7 v2.5.1 IG: Electronic Laboratory Reporting to Public Health (US Realm), Release 1 Errata and Clarifications, September, 29, 2011 • ELR 2.5.1 Clarification Document for EHR Technology Certification, July 16, 2012 § SNOMED CT® OID: 2.16.840.1.113883.5.96 § LOINC® OID: 2.16.840.1.113883.6.1 [see also 80 FR 62612]</p>	
<p><b>Developer Info:</b> Empower Systems 1200 Harger Road, Suite 408 Oak Brook, IL 60523 (305)766-3245</p> <p><b>Care Setting:</b> Typically, hospitals and free-standing laboratories are required to report laboratory test results to reportable lab reporting agencies. Since Empower Systems does not market software to free-standing laboratories, we've chosen the hospital care setting for (f)(3) real world testing. Most hospitals with labs are required to report lab results for certain tests to their state reportable lab department.</p> <p>Real World Testing URL: <a href="https://www.empower.md/real-world-testing/">https://www.empower.md/real-world-testing/</a></p>	<p><b>Product Info:</b> Product Name: Empower Inpatient+Ambulatory Product Version: 1.1.57</p> <p>CHPL ID: 15.04.04.2918.Empo.01.01.1.230726</p>	<p><b>Methods Use to Demonstrate Interoperability:</b> 1) Table of reportable lab tests based on LOINC® Code</p>

Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comment(s)
1	Identify Empower Client who: • Has a state agency that can receive reportable lab data • Already has a functional reportable lab (ELR) interface or would like to implement one to their agency	Client test partner selected	May, 2024	FALSE	None of our current clients are exporting electronic lab results to public health using our software.	
2	Implement send-only reportable lab interface (if interface not already in place)	Lab interface is functioning as expected	June, 2024	FALSE	We decided to set up a Mirth test interface as the receiving end of our electronic Lab Reporting service	
3	Determine whether test or production interface will be used If production, determine whether an actual patient or a test patient will be used	Environment and patient selected			We will be using production results for a specific patient and send those to our Mirth ELR interface	
4	Create a new patient encounter and orders for lab tests	Confirm encounter and order			MRN 800750	
5	Register a patient or create a new patient "A" in Client EHR and create a current patient encounter	Confirm patient and encounter				
6	Enter one or more orders for laboratory tests	Confirm order(s) are entered			patient has results for Echo cardiogram, Portable Chest Xray head Ct wo contrast chest ct wo contrast	
7	In Client Laboratory Information System (LIS), result these tests.	Confirm tests have been resulted			received results from LIS system(orchard).	
8	Make note of the LOINC code(s) for each result to determine whether each code is present in the list of reportable codes.	Record LOINC code(s) and confirm in list of reportable codes			verified that LOINC codes are in the ORU message Confirmed LOINC code in OBX3.1.1.	
9	Make sure LIS generates HL7 ORU (Result) messages for each patient who has a lab result	Confirm results messages for each patient			Queue these 4 messages to send to our Test Mirth interface	
10	Run ELR process to send to reportable lab agency (assuming process is batch, rather than real-time).	Confirm data sent			verified these 4 ORU messages in our test environment	
11	Access agency to verify that reportable lab data was received for patient A.	Confirm data received	July, 2024	FALSE		
12	Calculate and compile metrics		August, 2024	FALSE	4 out of 4 messages received by Mirth. 100% success rate	

**Attestation:**  
This Real World Testing plan is complete with all required elements, including measures that address all certification criteria and care settings. All information in this plan is up to date and fully addresses the Health IT Developer's Real World Testing requirements.

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