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

Measure Description:	Justification:
Create and transmit HL7 lab result messages to public health agency.	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.

Metric Description:		Standards Implemented:

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
		• 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: 2.16.840.1.113883.6.96
		§ LOINC® OID: 2.16.840.1.113883.6.1 [see also 80 FR 62612]

Developer Info:	Product Info:	Methods Use to Demonstrate Interoperability:
Empower Systems 1200 Harger Road, Suite 408 Oak Brook, IL 60523 (305)766-3245 **Care Setting:** 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 to certain tests to their state reportable lab department. **Real World Testing URL:** https://www.empower.md/real-world-testing/	**Product Name: Empower Inpatient+Ambulatory** **Product Version: 1.1.57** **CHPL ID:** 15.04.04.2918.Empo.01.00.1.181001	1) Table of reportable lab tests based on LOINC® Code

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, 2022	FALSE	None of our clients are reporting 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, 2022	FALSE	All of our clients are using a 3rd party for their laboratory results.	
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 remove this criteria from our certification in 2023, since we don't ever generate lab results out of Empower.	
4	Create a new patient encounter and orders for lab tests	Confirm encounter and order				
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				
7	In Client Laboratory Information System (LIS), result these tests.	Confirm tests have been resulted				
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				
9	Make sure LIS generates HL7 ORU (Result) messages for each patient who has a lab result	Confirm results messages for each patient				
10	Run ELR process to send to reportable lab agency (assuming process is batch, rather than real-time).	Confirm data sent				
11	Access agency to verify that reportable lab data was received for patient A.	Confirm data received	July, 2022	FALSE		
12	Calculate and compile metrics		August, 2022	FALSE		

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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Authorized Representative Signature:

Date: 11/12/2021