REAL WORLD TESTING PLAN

170.315(f)(3) - Transmission to public health agencies — reportable laboratory tests and value/results

GENERAL INFORMATION

Plan Report ID Number: [For ONC-Authorized Certification Body use only]

Developer Name: Intermountain Healthcare

Product Name(s): Intermountain Healthcare ELR Message Builder

Version Number(s): 1

Certified Health IT Product List (CHPL) Product Number(s): 15.04.04.1734.Inte.01.00.0.220714

OVERVIEW AND METHODOLOGIES

This document summarizes Intermountain Healthcare's plan to measure the real world use of the certified module Intermountain Healthcare ELR Message Builder. The certification criterion to be used in this plan is 170.315(f)(3). The Real World Testing objective is to provide evidence that will show reportable laboratory results data being successfully reported to state public health agencies.

The Real World Testing methodology will provide test metrics showing the successful creation of HL7 2.5.1 compliant messages with reportable laboratory results data and the successful transmission of that data to state public health agencies. The method used will be to verify successful transmission rates for a representative sample of transactions of reportable labs going to the state's Department of Health for a 2-week period during the calendar year to show evidence of ongoing successful real world use of the certified capabilities.

JUSTIFICATION FOR REAL WORLD TESTING APPROACH

Intermountain Healthcare ELR Message Builder is a certified HIT module that was designed to take in required patient and laboratory data and build HL7 messages that are compliant with the HL7 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 1 specifications. The messages are transmitted in near real-time to public health agencies based on their transmission requirements and timeframes. During the certification process, Intermountain Healthcare demonstrated and provided evidence showing the capability of the Intermountain Healthcare ELR Message Builder to create compliant outbound messages containing all required data.

The purpose of this Real World Test plan is to demonstrate the functionality of the Intermountain Healthcare ELR Message Builder in real world settings and scenarios, rather than in a controlled test lab, which was shown during the certification process. To demonstrate real world use of this certified HIT module's capabilities, this Real World Test plan will show successful transmissions of the compliant HL7 messages to the state's department of health. This will be demonstrated over multiple 2-week test periods. The testing for the certified HIT module will gather eligible laboratory information and transmission data across all care settings that will be used in supporting the expected outcome. This methodology is perfect for Real World Testing since it demonstrates successful use of the certified capabilities of the Intermountain Healthcare ELR Message Builder.

CARE SETTINGS

Intermountain Healthcare ELR Message Builder software is a standalone product that performs formatting and processing of reportable laboratory results from the Electronic Health Record. It is used for data produced within Intermountain Laboratory Services from both inpatient and outpatient settings. Real world testing will be performed with data from both settings. The capabilities of this software are exclusively intended for the inpatient and outpatient care settings.

STANDARDS UPDATES (INCLUDING STANDARDS VERSION ADVANCEMENT PROCESS (SVAP) AND UNITED STATES CORE DATA FOR INTEROPERABILITY (USCDI))

Not applicable.

SCHEDULE OF MILESTONES

Each milestone applies to all care settings outlined above.

1. Validate data collection tools and services: Q1 2023
    a. Validate tools for collecting eligible laboratory data from the EHR.
    b. Validate tools for collecting transmission data to the state health agencies.
2. Multiple Data Collections: Q2 & Q3 2023
    a. Capture eligible laboratory data.
    b. Capture successful transmission data.
3. Analysis and report creation: Q4 2023

EXPECTED OUTCOMES

The expected outcome of the Real World Test plan will be that the Intermountain Healthcare ELR Message Builder will have a transmission success ratio of 85% or higher. This will provide proof that standardized HL7 reportable laboratory results are being successfully generated and transmitted to public health agencies on a daily-basis during the 2-week test period. This shows that the certified capabilities of the Intermountain Healthcare ELR Message Builder are actively being used with public health agencies.

TESTING METRICS

We plan to use the following metrics to demonstrate the percentage of compliant messages being delivered to target public health agencies. The selected metrics for the Intermountain Healthcare ELR Message Builder will show the percentage of successful reportable laboratory result transactions during multiple 2-week measurement periods. The target percentage for the metrics is 85% or greater.

Metric 1: Count of eligible labs

This metric is a count of the total number of labs that are eligible for transmission to the target public health agency.

Metric 2: Count of standardized HL7 transmissions

This metric is the count of the actual number of compliant messages that were successfully transmitted to the target health agency.

Justification

Demonstrating that 85% or greater of the total eligible laboratory results provides evidence that the Intermountain Healthcare ELR Message Builder generated HL7 compliant messages and successfully transmitted them to the target health agency. Selecting 85% or greater as the target metric captures a high enough threshold to show daily successful performance of the Intermountain Healthcare ELR Message Builder's certified capabilities. It also allows for unexpected networking issues or other errors caused by external systems.

ATTESTATION

Intermountain Healthcare attests that 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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