CY 2022 Real World Testing Plan for ASPYRA

Executive Summary

This is the real world test plan for CY 2022 for ASPYRA CyberLAB certified EHR solution. It provides the real world test measurements and metrics that meet the intent and objectives of ONC's Condition of Certification and Maintenance of Certification requirement for real world testing (§ 170.405 Real world testing) to evaluate compliance with the certification criteria and interoperability of exchanging electronic health information (EHI) within the care and practice setting which it is targeted for use.

As ONC has stated in its rule, "The objective of real world testing is to verify the extent to which certified health IT deployed in operational production settings is demonstrating continued compliance to certification criteria and functioning with the intended use cases as part of the overall maintenance of a health IT's certification." We have worked toward this objective in designing our test plan and its subsequent real world testing measurements and metrics.

This document builds toward the final testing measurements and metrics we will use to evaluate our product interoperability within production settings. Within each measure, we document planned testing methodology, associated ONC criteria, justification for measurement, expected outcomes from the testing, care settings applied for this measure, and if applicable the number of clients to use our real world testing approach, including how our test cases were created, our selected methodology, the number of client/practice sites to use, and our general approach and justification for decisions.

We have included our timeline and milestones for completing the real world testing in CY 2022, and information about compliance with the Standards Version Advancement Process updates.

A table of contents with hyperlinks is provided later in the plan quick access to any document section, including the testing measurements and metrics found at the end of this document. Our signed attestation of compliance with the real world testing requirements is on the following page.

Developer 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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[SIGNATURE]

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DATE

General Information

Plan Report ID Number: [To Be Assigned by SLI Labs]

Developer Name: ASPYRA

Product Name(s): CyberLAB

Version Numbers(s): 7.3.1

Certified Health IT Criteria: 315(f)(3)

Product List (CHPL) ID(s) and Link(s):

https://chpl.healthit.gov/#/listing/10518

15.05.05.1115.ASPY.01.00.0.201221

Developer Real World Testing Page URL: https://aspyra.com/cyberlab-onc-certification-and-costs/

Timeline and Milestones for Real World Testing CY 2022

- 1Q-2022: Begin communication with clients to ask for their support and participation in real world testing. The goal is to have a sufficient number of clients committed for real world testing by the end of 1Q-2022.
- 2Q-3Q 2022. During the 2nd and 3rd quarter of CY 2022, the real world testing with clients will be scheduled and performed. It is expected that a preparatory call will be done with clients to prepare them for testing activities. Results will be documented in the test results section of the test methods and ultimately used to build the test report. If any non-compliances are observed, we will notify the ONC-ACB of the findings and make the necessary changes required.
- 4Q-2022. During the last quarter of the year, the CY 2022 real world test plan will be completed according to ONC and ONC-ACB requirements and expectations. Test plan will be prepared for submission before the end of the year.
- January 15, 2023. Submit RWT Test Report to ACB.

Standards Version Advancement Process (SVAP) Updates

For CY 2022, we are not planning to make any version updates on approved standards through the SVAP process.

Standard (and version)	None
Updated certification criteria and associated product	N/A
Health IT Module CHPL ID	N/A
Method used for standard update	N/A
Date of ONC-ACB notification	N/A
Date of customer notification (SVAP only)	N/A
Conformance measure	N/A
USCDI-updated certification criteria (and USCDI version)	N/A

Real World Testing Measurements

The measurements for our real world testing plan are described below. Each measurement contains:

- Associated ONC criteria
- Testing Methodology used
- Description of the measurement/metric
- Justification for the measurement/metric
- Expected outcomes in testing for the measurement/metric
- Number of client sites to use in testing (if applicable)
- Care settings which are targeted with the measurement/metric

In each measurement evaluate, we elaborate specifically on our justification for choosing this measure and the expected outcomes. All measurements were chosen to best evaluate compliance with the certification criteria and interoperability of exchanging electronic health information (EHI) within the certified EHR.

Per the ONC requirements, we have included at least one measurement/metric that addresses each applicable certification criterion in the Health IT Module's scope of certification.

Testing Methodologies

For each measurement, a testing methodology is used. For our test plan, we use the following methodologies.

> Reporting/Logging: This methodology uses the logging or reporting capabilities of the EHR to examine functionality performed in the system. A typical example of this is the measure reporting done for the automate measure calculation required in 315(g)(2), but it can also be aspects of the audit log or customized reports from the EHR. This methodology often provides historical measurement reports which can be accessed at different times of the year and evaluate interoperability of EHR functionality, and it can serve as a benchmark for evaluating real world testing over multiple time intervals.

Care and Practice Settings Targeted and Number of Clients Sites

ASPYRA CyberLAB provides laboratory solutions to hospitals and clinics, and our real world testing measure is design for this setting in mind.

Within each measure, we note the minimum number of clients or client sites we plan to use for this measure evaluation.

RWT Measure #1. Number of Electronic Reportable Lab Messages Successfully Sent

Associated Criteria: 315(f)(3)

Testing Methodology: Reporting/Logging

Measurement Description

This measure is tracking and counting how many electronic reportable messages are created and successfully sent from the EHR Module to a public health registry over the course of a given interval.

Measurement Justification

CyberLAB enables hospitals and standalone clinics to successfully provide electronic reportable lab messages to public health institutions. This measure provides several key data points to confirm and verify real world interoperability. First, it shows our lab system can successfully integrate with a 3rd party EHR. Second, it shows that patient data is shared and available to the public health institutions and registries. Third, it provides confirmation our lab system can work across different hospital sites and different registry targets.

This measure will provide a numeric value to indicate both the how often this interoperability feature is being used as well as its compliance to the requirement. An increment to this measure indicates that the EHR can create an electronic reportable lab message, including ability to record all clinical data elements, and by sending the message, the EHR demonstrates successful interoperability with a public health registry.

Measurement Expected Outcome

The measurement will include numeric results of both successful and error/failure transmissions with public health registries over a given interval. Each public health registry connection has its own interface audit log, and we will create a scripting tool to extract exchange results from it. This will allow us to capture both successful transmission and errors or failures, and where possible record the cause of the error or failure.

A successful transmission will be documented by receiving back a positive response from the public health registry or destination server. By successfully sending the message, the EHR will be demonstrating ability to confirm successful interoperability with a public health registry. Successfully completing this measure also implies users have a general understanding of the EHR functional operations for this EHR Module and an overall support for the user experience.

We will also document if the response indicates an error or failure in rejecting the exchange. The errors could be because of a non-compliance with our EHR or a problem with the public registry itself or may indicate lack of understanding or possibly lack of use or need for this

functionality. We will make effort to investigate and determine the cause of the error/failures, and if they are the responsibility of CyberLab, we will make appropriate changes and notify our ONC-ACB as necessary.

Our test report will include counts of both successful transmissions and error/failure transmissions. Because this is the first year of doing this, we do not have a firm expected threshold of passing vs failure, although we expect success rate to be above 90%, but we will use the measure count to establish a historic baseline of expected interoperability use so it can be used in subsequent real world testing efforts.

Care Settings and Number of Clients Site to Test

Our intention is to select a minimum of two (2) customer sites for the testing of these criteria. This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs. Because this measure test is applicable to all of our care settings and functions the same in both settings, this will be a sufficient test of our interoperability functionality in the real world.