

Product – Minerva

Document Name – Real World Testing Report for Year 2022

Product Version – V4

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Revision History

Date	Version	Description
Dec 2022	1.0	New Document

1 Background

This document is about Real-World Test Report for year 2022 for My Personal Health Record Express certified Health IT solution. The objectives defined by ONC under Condition and Maintenance of Certification (45 CFR § 170.405), will be met through this self-attested document. This document is the report of results to address the Real-World Testing of the product according to the RWT plan submitted last year.

This document is prepared as per the guidelines defined by ONC for the information to be included in RWT report. The sections included in this plan are Summary of Testing Methods and Key findings, Care settings, Metrics and Outcomes, and Key Milestones.

There are two types of methods which are used for RWT plan execution:

- Client survey, where use case is not being deployed in production and number of requests from the prospective clients are considered.
- Reporting, where actual usage is published to show how interoperability is supported.

Self-attestation details are available on the last page of the document.

2 General Information

Plan Report ID Number	MphRx_RWT_2022
Developer Name	My Personal Health Records Express Inc. d/b/a MphRx
Version Number(s)	V4
Certified Health IT Product List (CHPL) ID(s)	15.04.04.3082.Mine.04.01.0.210609
Developer Real World Testing Page URL	https://www.mphrx.com/wp-content/uploads/2023/01/mphrX_RWT_report_2022.pdf

3 Changes To Original Plan

Summary of Change	Reason	Impact
NA	NA	NA

4 Withdrawn Products

Product Name(s):	NA
Version Number(s):	NA
CHPL Product Number(s):	NA
Date(s) Withdrawn:	NA
Inclusion of Data in ResultsReport:	NA

5 Standard Updates in SVAP and USCDI

SVAP - Standards Version Advancement Process

USCDI - United States Core Data for Interoperability

We do not have any plan to make version updates in approved standards through SVAP process in the year 2023. For USCDI data elements, we will continue to support version 1.

Standard (and version)	NA
Updated certification criteria and associated product	NA
CHPL Product Number	NA
Conformance measure	NA

6 RWT #1 – § 170.315(b)(10) Electronic Health Information Export

6.1 Associated Certification Criteria

Criteria – § 170.315 (b)(10)

6.2 Test methodology

Methodology – Report Logging/Client Survey

Report Logging: Number of events generated based on requests initiated for these criteria.

Client Survey: Number of requests received from current/prospective customers for this use case.

6.3 Description of Measurement/Metric

Single Patient Electronic Health Information Export

- Number of patients EHI export requested by user at any given time.
- Number of successful/failed event notifications for requested EHI export.

Patient Population Electronic Health Information Export

- Number of requests for population EHI export created via APIs.

6.4 Justification

- Our system supports EHI export for single patient and population data (with different mode of export) to be compliant with interoperability guidelines.
- The defined metrics will support the export functionality at any given time so that continuity of care is maintained.
- The defined metrics will ensure that EHI export created is in a pre-defined computable format.
- The defined metrics will help analyze how frequently the patient or population EHI is requested & completed without any hindrance.

6.5 Care Setting(s)

Inpatient and ambulatory care setting with various specialties will be tested for real world interoperability. These care settings are used by organizations our production system supports.

6.6 Metrics and Outcomes

Number of Clients – 0

Software/Tool Used - N/A

Measurement/Metric	Outcome		
	Metric	Year	Actual Result
Single patient EHI export	Number of request initiated EHI export.	2022	0
	Number of successful/failed event notifications.	2022	0
	Number of customers using the single EHI export functionality.	2022	0
Patient population EHI export	Number of requests initiated for population EHI export.	2022	0
	Number of customers using the population EHI export functionality.	2022	0

6.7 Milestones

Key Milestone	Date/Milestone
Develop candidate list of clients to assist with the Real World Testing (RWT).	Q2 2022
Collection of information as laid out by the plan	Q2-Q3 2022
End of Real-World Testing period/final collection of all data for analysis	Q3 2022
Analysis and report creation	Q4 2022
Submit Real World Testing report to ACB	Q1 2023

7 RWT #2 – § 170.315(e)(1) View Download and Transmit

7.1 Associated Certification Criteria

Criteria – 315(e)(1) View, download and transmit to 3rd Party

7.2 Test methodology

Methodology – Logging and reporting.

Report Logging: Number of events generated based on requests initiated for these criteria.

7.3 Description of Measurement/Metric

- Number of users (and their authorized representatives) that successfully logged into and accessed their patient account.
- Number of ambulatory summary or inpatient summary documents downloaded over the course of a given interval.
- Number of ambulatory summary or inpatient summary documents shared with 3rd party over the course of a given interval.

7.4 Justification

- Our platform ingests healthcare data from multiple EHRs. The number of users logging into the application over a period of time will indicate that the patients are actively using the system to view, download or transmit their healthcare data.
- The next measure is a numeric value indicating how often patients (and their authorized representatives) download their ambulatory/inpatient summary as a CCD document. This will also indicate that patients' EHI is not blocked, and they are able to extract this information and share it with their healthcare providers. Hence promoting interoperability.
- The Final measure will provide a numeric value indicating how often patients share their ambulatory/inpatient summary with their healthcare providers or kin, hence promoting interoperability.

7.5 Care Setting(s)

Inpatient & ambulatory care setting will be tested for real world interoperability. These care settings are used by organizations that are using our production system.

7.6 Metrics and Outcomes

Number of Clients – 1

Software/Tool Used - NA

Measurement/Metric	Outcome		
	Metric	Year	Actual Result
Number of Patient users (and their authorized representatives) that successfully logged into and accessed their patient portal account.	Report(s) indicating the number of patients users that logged into the portal.	2022	672312
Number of ambulatory summary or inpatient summary documents downloaded over the course of a given interval.	Report(s) indicating number of ambulatory summary or inpatient summary documents downloaded over the course of a given interval.	2022	30875
Number of ambulatory summary or inpatient summary documents shared with 3rd party over the course of a given interval.	Report(s) indicating number of ambulatory summary or inpatient summary documents shared with 3rd party over the course of a given interval.	2022	2050

7.7 Schedule of Key Real World Testing Milestones

Key Milestone	Date/Milestone
Develop list of clients as candidates to assist with the Real World Testing (RWT).	Q2 2022
Collection of information as laid out by the plan	Q2-Q3 2022

End of Real-World Testing period/final collection of all data for analysis	Q3 2022
Analysis and report creation	Q4 2022
Submit Real World Testing report to ACB	Q1 2023

8 RWT #3 – § 170.315 G7 & G9 FHIR REST APIs Usage for Patient Selection and Accessing All Patient Data

8.1 Associated Certification Criteria

Criteria – § 170.315 g(7)-g(9)

8.2 Test Methodology

Methodology – Logging/Client Survey

Report Logging: Number of events generated based on requests initiated for these criteria.

Client Survey: Number of requests received from current/prospective customers for this use case.

8.3 Description of Measurement/Metric

Following metric will be covered:

- Number of authorized requests to fetch the patient’s medical information through FHIR APIs.

8.4 Justification

- Our system supports access to patient and health data through standardized FHIR APIs to be compliant with interoperability guidelines.
- The defined metrics will support interoperability as the patient health data is accessible by the authorized user through FHIR API.

8.5 Care Setting(s)

Inpatient & ambulatory care setting with various specialties are tested for real world interoperability. These care settings are used by organizations that our production system supports.

8.6 Metrics and Outcomes

Number of active clients - 1

Measurement/Metric	Outcome		
	Metric	Year	Actual Result
Metrics extracted from system logs	Report(s) indicating: <ul style="list-style-type: none"> Number of authorized requests to fetch the patient’s medical information through FHIR API. 	2022	2262123

Client Survey	Report(s) indicating <ul style="list-style-type: none"> • Potential customers requesting the API capabilities. • Surveys will provide the need of the API capabilities supporting interoperability. 	2022	6
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8.7 Milestones -Table

Key Milestone	Date/Milestone
Develop list of clients as candidates to assist with the Real World Testing (RWT).	Q2 2022
Collection of information as laid out by the plan	Q2-Q3 2022
End of Real-World Testing period/final collection of all data for analysis	Q3 2022
Analysis and report creation	Q4 2022
Submit Real World Testing report to ACB	Q1 2023

9 RWT #4 – § 170.315(g) 10 Standardized API for Patient and Population Services

9.1 Associated Certification Criteria

Criteria – § 170.315 g(10)

9.2 Test Methodology

Methodology - Logging/Client Survey/Tool

Report Logging: Number of events generated based on requests initiated for these criteria.

Client Survey: Number of requests received from current/prospective customers for this use case.

9.3 Description of Measurement/Metric

- Following metrics will be covered:
 - Number of SMART Applications registered with the EHR.
 - Number of authorized requests to fetch the patient’s medical information through FHIR APIs.
 - Number of authorized requests to export patient’s individual data through API.
 - Number of authorized requests to export bulk data through API.
- Conformance and Completeness of Response: This measure will test the conformance of the certified API technology and assess the completeness of responses relative to requests across provider-users supported by the Minerva Application. The associated certification criterion in the Inpatient & ambulatory care setting are:

Criteria	Requirement
§ 170.315(g)(10) Standardized API for patient and population services (patient services only)	<ul style="list-style-type: none"> • Data response • Supported search operations • Application registration (standalone and EHR launch) • Secure connection (provider specific) • Authentication and authorization

9.4 Justification

- Our system provides access to specific patient data through the FHIR® interfaces, this measure will provide a test report on the authorized use of FHIR® APIs to access patient data.
- The defined metrics will support interoperability as the patient health data is accessible after SMART based authorized through FHIR API.


9.5 Care Setting(s)

Inpatient & ambulatory care setting with various specialties are tested for real world interoperability. These care settings are used by organizations that our production system supports.

9.6 Metrics and Outcomes

Number of active clients – 1

Measurement/Metric	Outcome		
	Metric	Year	Actual Result
Metrics extracted from system logs	Report(s) indicating: <ul style="list-style-type: none"> • Number of SMART applications registered with the EHR. 	2022	41
	<ul style="list-style-type: none"> • Number of authorized requests to fetch the patient's medical information through FHIR APIs. 	2022	2262123
	<ul style="list-style-type: none"> • Number of authorized requests to export Patient's individual data through API. 	2022	0
	<ul style="list-style-type: none"> • Number of authorized requests to export bulk data through API. 	2022	0

Client Survey	<ul style="list-style-type: none"> Report(s) indicating Potential customers requesting the SMART On FHIR capabilities Surveys will provide need of API capabilities supporting interoperability. 	2022	6
Inferno test result	<p>Report(s) indicating:</p> <ul style="list-style-type: none"> Minerva Application will be conformant to § 170.315(g)(10) with less than 1 percent error rate experienced by users. 	2022	<p>Minerva Passed the Inferno Version 2.2.2 test run with 0% failure during Q3 2022. Kindly refer to the attached report.</p>  <p>InfernoTestResult</p>

9.7 Milestones

Key Milestone	Date/Milestone
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End of Real-World Testing period/final collection of all data for analysis	Q3 2022
Analysis and report creation	Q4 2022
Submit Real World Testing report to ACB	Q1 2023

10 Self-Attestation

Authorized Representative Name	Varun Anand
Authorized Representative Email	vanand@mphrx.com
Authorized Representative Phone	+919999996314
Authorized Representative Signature	<p>DocuSigned by:</p>  <p>61C46122E531477...</p>
Date	1/7/2023