

Sevocity, Real World Testing Plan

SEV-RWTP-25.01

Table of Contents

General Information	5
Overview	5
Justification for Real World Testing Approach	5
Applicable Real World Testing Certification Criteria	5
Standards Updates.....	6
Care Settings	6
Overall Expected Outcomes.....	6
Schedule of Key Milestones	7
170.315(b)(1) Transitions of care.....	7
Measures Used in Approach	7
Conformance to Transitions of care (170.315(b)(1)) (create)	7
Use Case 1 (Create patient data)	7
Description of Measurement/Metric(s).....	7
Associated Certification Criteria	8
Justification	8
Expected Outcomes	8
Conformance to Transitions of care (170.315(b)(1)) (send)	8
Use Case 2 (Send patient data via direct)	8
Description of Measurement/Metric(s).....	8
Associated Certification Criteria	9
Justification	9
Expected Outcomes	9
170.315(b)(2) Clinical Information Reconciliation and Incorporation.....	9
Measures Used in Approach	9
Conformance to Clinical Information Reconciliation and Incorporation (170.315(b)(2))	9
Use Case 1 (Reconcile and incorporate patient data)	9
Description of Measurement/Metric.....	10
Associated Certification Criteria	10
Justification	10
Expected Outcomes	10
170.315(b)(10) Electronic Health Information export.....	11
Measures Used in Approach	11

Conformance to EHI export (170.315(b)(10)) 11

Use Case 1 (Export single patient EHI) 11

 Description of Measurement/Metric..... 11

 Associated Certification Criteria 11

 Justification 11

 Expected Outcomes 11

Use Case 2 (Export patient population EHI)..... 11

 Description of Measurement/Metric..... 12

 Associated Certification Criteria 12

 Justification 12

 Expected Outcomes 12

170.315(c)(1)(2), 170.315(c)(3) Clinical quality measures (CQMs)..... 12

 Measures Used in Approach 12

Conformance to Transitions of care (170.315(c)(1)) (enter data and export)..... 12

Use Case 1 (eCQM execution)..... 12

 Description of Measurement/Metric..... 13

 Associated Certification Criteria 13

 Justification 13

 Expected Outcomes 13

Conformance to CQMs – import and calculate (170.315(c)(1), 170.315(c)(3)) (enter, export and create data files) 13

Use Case 2 (QRDA file exports) 13

 Description of Measurement/Metric..... 13

 Associated Certification Criteria 14

 Justification 14

 Expected Outcomes 14

Conformance to CQMs – import and calculate (170.315(c)(2)) (import and calculate)..... 14

Use Case 3 (Import and calculate) 14

 Description of Measurement/Metric..... 14

 Associated Certification Criteria 14

 Justification 15

 Expected Outcomes 15

170.315(e)(1) View, download, and transmit to 3rd party..... 15

Measures Used in Approach 15

Conformance to View, download, and transmit to 3rd party (170.315(e)(1)) 15

Use Case 1 (Request, view, download, and transmit) 15

 Description of Measurement/Metric..... 15

 Associated Certification Criteria 16

 Justification 16

 Expected Outcomes 16

170.315(f)(1) Transmission to immunization registries..... 16

 Measures Used in Approach 16

 Conformance to Transmission to immunization registries (170.315(f)(1)) (create)..... 17

 Use Case 1 (Enter and send immunization data to registry) 17

 Description of Measurement/Metric..... 17

 Associated Certification Criteria 17

 Justification 17

 Expected Outcomes 17

 Conformance to Transmission to immunization registries (170.315(f)(1)) (history/forecast only) 17

 Use Case 2 (History/forecast) 17

 Description of Measurement/Metric..... 17

 Associated Certification Criteria 18

 Justification 18

 Expected Outcomes 18

170.315(f)(2) Transmission to public health agencies – syndromic surveillance 18

 Measures Used in Approach 18

 Conformance to Transmission to public health agencies – syndromic surveillance (170.315(f)(2)) (registration and discharge)..... 18

 Use Case 1 (Syndromic surveillance registration and discharge data) 19

 Description of Measurement/Metric..... 19

 Associated Certification Criteria 19

 Justification 19

 Expected Outcomes 19

170.315(g)(7), 170.315(g)(9) Application access 20

 Measures Used in Approach 20

 Conformance to Application access – patient selection (170.315(g)(7), 170.315(g)(9))..... 20

Use Case 1 (Query patient data) 20

 Description of Measurement/Metric..... 20

 Associated Certification Criteria 20

 Justification 20

 Expected Outcomes 21

170.315(g)(10) Standardized API for patient and population services..... 21

 Measures Used in Approach 21

 Conformance to Application access – patient selection (170.315(g)(10))..... 21

 Use Case 1 (Query patient data) 21

 Description of Measurement/Metric..... 21

 Associated Certification Criteria 21

 Justification 21

 Expected Outcomes 22

Traceability Matrix 22

Attestation 23

General Information

Plan Report ID Number: SEV-RWTP-25.01

Developer Name: Conceptual MindWorks, Inc.

Product Name	Certified Health IT Product List (CHPL) ID	Real World Testing Page URL
Sevocity	15.04.04.2324.Sevo.13.01.1.221230	https://www.sevocity.com/resources/onc-certifications-rwt/

Version Number: The certified product listed above is version 13.0

Overview

This document is the Sevocity EHR vendor’s plan regarding a comprehensive approach to conduct Real World Testing (RWT) activities in 2025. This plan, and the execution thereof, is in accordance with ongoing condition and maintenance of certification obligations as a certified health IT product. The planned activities cover all required criteria with an emphasis on interoperability and data exchange. This test plan defines what will be tested, how it will be tested, and provides justification for the test approach and reasoning behind the selection of care settings, measures, and metrics. The execution of this plan will demonstrate the product’s reliability to accomplish the subject criteria, as well as gather objective data of real-world customer application of the available services.

Justification for Real World Testing Approach

The Real-World Testing plan will focus on the use of Sevocity for interoperability and data exchange in a real-world clinical setting. The initial plan was based ONC’s published standards ([Real World Testing | HealthIT.gov](https://www.healthit.gov/real-world-testing)) and has been successfully executed and refined for several iterations now.

Applicable Real World Testing Certification Criteria

Sevocity’s 2025 Real World Testing plan will be limited to the following applicable criteria.

Certification Criteria	Relied Upon Software, if applicable
170.315(b)(1) Transitions of care	DrFirst – Rcopia, SES Direct
170.315(b)(2) Clinical Information Reconciliation and Incorporation	DrFirst - Rcopia
170.315(b)(10) Electronic health information export	
170.315(c)(1) Clinical quality measures (CQMs) – record and export	
170.315(c)(2) Clinical quality measures (CQMs) – import and calculate	
170.315(c)(3) Clinical quality measures (CQMs) – Report	
170.315(e)(1) View, download, and transmit to 3rd party	SES Direct, SMTP2GO, DrFirst - Rcopia
170.315(f)(1) Transmission to immunization registries	
170.315(f)(2) Transmission to public health agencies – syndromic surveillance	
170.315(g)(7) Application access – patient selection	Google Authenticator
170.315(g)(9) Application access – all data request	Google Authenticator

170.315(g)(10) Standardized API for patient and population services

To accomplish real world testing, we chose to focus on our four main clinical settings of care, which include Family Practice, Surgical, Geriatrics, and Obstetrics & Gynecology. The test plan will be based on analysis of user activity from representative subsets of Sevocity EHR users. The Traceability Matrix section at the end of this document provides an overview of the use cases applicable to each of the clinical settings of care.

Standards Updates

Sevocity did not participate in SVAP. All standards applicable to this 2025 Real World Testing plan are unchanged from the most recent certification of the product. The only exception being the permitted annual standards updates noted in the table below.

Standard	Certification Criteria Affected
CMS Implementation Guide for Quality Reporting Document Architecture Category III Eligible Clinicians Programs; Implementation Guide for 2024 (Updated November 2023)	170.315(c)(3)
CMS Implementation Guide for Quality Reporting Document Architecture Category I Hospital Quality Reporting; Implementation Guide for 2024 (Updated August 2023)	170.315(c)(1), 170.315(c)(2)

Care Settings

The four clinical settings of care that will be represented in real world testing are: Family Practice, Surgical, Geriatrics, and Obstetrics & Gynecology. An analysis of all current customers was conducted to determine the clinical settings of care to be tested. The largest clinical setting categories represented by our customers are Family Practice, followed by Specialist/Surgical and Obstetrics & Gynecology. Geriatrics is a small share of our current customers but is of special interest as a growth opportunity.

Category	% of Customers
Family Practice	67.46%
Geriatrics	1.98%
Obstetrics & Gynecology	6.94%
Surgical	15.08%

Overall Expected Outcomes

Real World Testing will demonstrate that the Sevocity EHR remains compliant with applicable ONC Certification Criteria for Health IT (for details, refer to the Applicable Real World Testing Criteria section earlier in this document). It will also demonstrate that the available interoperability services are readily available and reliable in real world scenarios supporting exchange of data between providers. The metrics and measures detailed in this plan will be collected and analyzed after an evaluation period of a predetermined duration; the evaluation period of each measure may differ. It is expected that the gathered metrics will provide evidence that users of our product are consistently and meaningfully engaging in the interoperability services provided within our product. The gathered metrics will also

indicate overall technical success rates; failures will include errors that emit from the production environment, as opposed to those originating from the user’s environment unrelated to the production environment. It is expected that the success rate will indicate high reliability and consistency of the tested measures, and that any failure rate is statistically low and not indicative of a quality or systemic issue.

Schedule of Key Milestones

Key Milestone	Timeframe
Submit 2025 RWT Plan to ONC-ACB for completeness review	NLT November 1, 2024
ONC-ACB publishes 2025 RWT Plan to CHPL	NLT December 15, 2024
Revision of scripts/tools to gather 2025 metrics	2025, Q1
Identification of the RWT environment (production when practical, or production-like settings otherwise) for 2025 RWT evaluation	2025, Q1
2025 RWT production usage period	2025, Q2 – Q3 Except for 170.315(c)(1)(2), 170.315(c): 2025, Q1
Gather and analyze 2025 RWT production usage data	2025, Q4
Submit 2025 RWT Results Report to ONC-ACB for review	2026, Q1
ONC-ACB publishes 2025 RWT Results in CHPL	NLT March 15, 2026

170.315(b)(1) Transitions of care

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(b)(1) Transitions of care certification criterion. RWT observations will focus on a representative user subset sending referrals and clinical summaries via direct messaging (Relied Upon Software – SES Direct) and verifying the successfulness of the message. Third party software is utilized for sending direct messages (Relied Upon Software – SES Direct). Relied Upon Software – DrFirst – Rcopia is used in the data creation for clinical summaries and referrals for medications and allergies in the CCDs used in (b)(1).

Conformance to Transitions of care (170.315(b)(1)) (create)

Use Case 1 (Create patient data)

This measure will test conformance to 170.315(b)(1) Transitions of care by tracking the number of times a CCD was created and tracking any errors logged in the process.

Description of Measurement/Metric(s)

The following measures will be taken during this test: Number of CCD files exported, and number of errors logged. These measures will then be used to calculate the successful completion rate of CCD creation.

	Metric	Key User Action
1	Number of times a CCD was exported	chart tools > export > c-cda export
2	Number of errors logged during a CCD export	
3	Error-free Rate of CCD Exports	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(b)(1) Transitions of care	(iii)(A) – Create

Justification

Tracking the number of Continuity of Care Document (CCD) file exports attempted and their successful creations will document the real-world practicality for our customers to create CCD files that can be shared between providers. These statistics will help us evaluate our customers’ awareness and engagement of this service. This measure is applicable to all care settings.

Expected Outcomes

It is expected that customers are actively participating in interoperability within their real-world clinical workflow. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

Conformance to Transitions of care (170.315(b)(1)) (send)

Use Case 2 (Send patient data via direct)

This measure will test conformance to 170.315(b)(1) Transitions of care by tracking the number of Direct messages (Relied Upon Software – SES Direct) sent in the form of referrals and clinical summaries. The error-free rate of those messages will also be evaluated. Relied Upon Software – DrFirst – Rcopia is used in the data creation for clinical summaries and referrals for medications and allergies in the CCDs used in (b)(1).

Description of Measurement/Metric(s)

The following measures will be taken during this test: Number of referrals and clinical summaries sent through Direct Messaging, number of direct messages that were successfully transmitted, and number of direct messages that were returned as undeliverable due to the fault of the sending system or undeterminable causes. Messages returned as undeliverable due to an invalid recipient address, fault of the receiving system, or user induced error, will not be included in the metrics for the purpose of RWT evaluation, as the ability to alert the sender of these external failures are an important part of a usable Direct Messaging system. These measures will then be used to calculate the error-free rate of data transmission.

	Metric	Key User Action
1	Number of Clinical Summaries Transmitted	chart tools > send clinical summary
2	Number of Returned Undeliverable Clinical Summary Transmissions	

	Metric	Key User Action
3	Number of Referrals Transmitted	Either of the actions below is applicable. It is not required that the sender perform each.
		(a) Chart > referrals
		(b) Enc > procedures/orders > referrals
4	Number of Returned Undeliverable Referral Transmissions	
5	Calculated Percentage of Deliverable Transmissions	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(b)(1) Transitions of care	(i)(A) – Send Using Edge Protocol for IHE XDR profile for Limited Metadata Document Sources

Justification

Tracking the number of direct messages sent with Continuity of Care Document (CCD) files attached and the rate of error-free transmissions will demonstrate that Electronic Health Information (EHI) is being shared between providers and is being sent securely. These statistics will help us evaluate our customers’ awareness and engagement of this service. This measure is applicable to all care settings. Relied Upon Software for sending direct messages used is SES Direct and for the medication and allergy information for the data in the CCDs is DrFirst – Rcopia.

Expected Outcomes

It is expected that customers are actively participating in interoperability within their real-world clinical workflow. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

170.315(b)(2) Clinical Information Reconciliation and Incorporation

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(b)(2) Clinical Information Reconciliation and Incorporation certification criterion. RWT observations of a representative user subset will focus on their use of reconciling and importing patient data. RWT observations will also document the error-free rate of attempted imports. Relied Upon Software for the Medication and Allergy information in the CCDs and reconciliation within a patient’s chart is DrFirst – Rcopia.

Conformance to Clinical Information Reconciliation and Incorporation (170.315(b)(2))

Use Case 1 (Reconcile and incorporate patient data)

This measure will test conformance to 170.315(b)(2) Clinical Information Reconciliation and Incorporation by tracking the number of reconciliations performed and their error-free completion rate.

Description of Measurement/Metric

The following measures will be taken during this test: Number of C-CDA reconciliations performed, number of errors logged. These measures will then be used to calculate the error-free rate of patient data reconciliation and incorporation.

	Metric	Key User Action
1	Number of times a C-CDA reconciliation was performed	Each of the actions below is independently applicable. It is not required that the user perform each.
		(a) Tools > C-CDA Reconciliation
		(b) Chart > Chart Tools > C-CDA Reconciliation
		(c) Clinical Reconciliation from the Direct Message Inbox (Must select “Reconcile” ... not “Attach”)
2	Number of errors logged during a C-CDA reconciliation	
3	Calculated percentage of error-free C-CDA reconciliations	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(b)(2) Clinical Information Reconciliation and Incorporation	(b)(2)(i) Support for CCDA Release 1.1. and 2.1
	(b)(2)(ii) Patient match
	(b)(2)(iii)(A) Simultaneous display
	(b)(2)(iii)(B)-(D) Review, validate and incorporate patient medications, allergies, and problems
	(b)(2)(iv) CCDA creation of incorporated data

Justification

Tracking the number of reconciliations performed will demonstrate that EHI is being shared between providers and is being reviewed and incorporated into the patient’s record. This measure is applicable to all clinical settings being tested.

Expected Outcomes

It is expected that customers are actively receiving EHI within their real-world clinical workflow. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

170.315(b)(10) Electronic Health Information export

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(b)(10) EHI export certification criterion. Testing will focus on data exports created and downloaded. The successful completion of the exports will also be measured.

Conformance to EHI export (170.315(b)(10))

Use Case 1 (Export single patient EHI)

This measure will test conformance to 170.315(b)(10) EHI export by tracking the number of single patient exports attempted and successfully completed.

Description of Measurement/Metric

The following measures will be taken during this test: Number of single patient exports attempted; number of unsuccessful attempts logged. These measures will then be used to calculate the successful completion rate of requested single patient exports.

	Metric	Key User Action
1	Number of single patient EHI exports attempted	Chart Tools > Export > Standard Export
2	Number of unsuccessful attempts logged	
3	Successful Completion Rate of Single Patient EHI Exports	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(b)(10) EHI export	(b)(10)(i) Single Patient EHI Export

Justification

Tracking the number of single patient EHI exports performed will demonstrate that EHI is being exported and may be transmitted or shared with other patient care providers. Tracking the successful completion metrics will demonstrate the consistent reliability of this service provided within the product. This measure is applicable to all clinical settings.

Expected Outcomes

It is expected that customers are actively exporting patient EHI within their real-world clinical workflow. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

Use Case 2 (Export patient population EHI)

This measure will test conformance to 170.315(b)(10) EHI export by tracking the number of patient population EHI exports requested and the number of any reattempts due to a technical error.

Description of Measurement/Metric

The following measures will be taken during this test: Number of patient population EHI exports requested; number of reattempts required – if any – to successfully complete the export. These measures will then be used to calculate the successful completion rate of requested single patient exports.

	Metric	Key User Action
1	Number of patient population EHI exports requested	N/A; this action is not initiated through the application.
2	Number of reattempts required	
3	Successful Completion Rate of Patient Population EHI Exports	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(b)(10) EHI export	(b)(10)(ii) Patient Population EHI Export

Justification

Tracking the number of patient population EHI exports performed will demonstrate that EHI is being exported and may be transmitted or shared with other entities such as other EHR solutions and/or Health Information Exchange (HIE)s and other registries. Tracking the successful completion metrics will demonstrate the consistent reliability of this service provided within the product. This measure is applicable to all clinical settings.

Expected Outcomes

It is expected that customers are actively exporting patient EHI within their real-world clinical workflow. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

170.315(c)(1)(2), 170.315(c)(3) Clinical quality measures (CQMs)

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(c)(1)(2), 170.315(c)(3) Clinical quality measures (CQMs) certification criterion. Testing will focus on data entry, report creation and data files, and verifying the error-free completion of data suitable for CMS submission.

Conformance to Transitions of care (170.315(c)(1)) (enter data and export)

Use Case 1 (eCQM execution)

This measure will test conformance to 170.315(c)(1) Clinical quality measures (CQMs) by tracking the real-world usage of eCQM reports and the overall success rate.

Description of Measurement/Metric

The following measures will be taken during this test: Number of report executions; number of errors reported. These measures will then be used to calculate the success rate of report execution.

	Metric	Key User Action
1	Total number of eCQM report executions attempted. If a report is run multiple times, each will count as an execution.	Reports > eCQMs
2	Number of unsuccessful attempted eCQM report executions logged	
3	Success rate of eCQM report executions	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(c)(1) Clinical quality measures (CQMs) – record and export	(c)(1)(i) Manual entry
	(c)(1)(ii) Export

Justification

Tracking the number of reports executed will demonstrate the manual entry and calculate features. The determination of clinical settings to be used will be based on usage of the reports.

Expected Outcomes

It is expected that customers are actively utilizing clinical quality measures within their real-world clinical workflow. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

Conformance to CQMs – import and calculate (170.315(c)(1), 170.315(c)(3)) (enter, export and create data files)

Use Case 2 (QRDA file exports)

This measure will test conformance to 170.315(c)(1), 170.315(c)(3) Clinical quality measures (CQMs) by tracking the use of Quality Reporting Document Architecture (QRDA) export files and their successful completion rate.

Description of Measurement/Metric

The following measures will be taken during this test: Number of QRDA exports attempted, number of QRDA exports completed, and the calculated successful completion rate. The generated QRDA's adhere to standards suitable for successful CMS submission; however, the submission of the QRDA's to CMS is a process performed by participating practices entirely external to the product.

	Metric	Key User Action
1	Number of QRDA exports attempted	Reports > eCQMs > Consolidated QRDA Report
2	Number of QRDA exports successfully completed	
3	Successful Completion Rate of QRDA Exports	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(c)(1) Clinical quality measures (CQMs) – record and export	(c)(1)(i) Manual entry
	(c)(1)(ii) Export
170.315(c)(3) Clinical quality measures (CQMs) – Report	(c)(3)(i) Report data files (Cat I and Cat III)

Justification

Tracking the number of QRDA exports performed will demonstrate that report data and patient data is being created and suitable for submission to CMS and/or exchange with other entities. Tracking successful completions rates will prove the reliability of this service within the product, as well as indicate areas of engagement and growth amongst our user population. The determination of clinical settings to be used will be based on usage of the reports and exports.

Expected Outcomes

It is expected that customers are actively utilizing QRDA’s within their real-world clinical workflow. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

Conformance to CQMs – import and calculate (170.315(c)(2)) (import and calculate)

Use Case 3 (Import and calculate)

This measure will test conformance to 170.315(c)(2) Clinical quality measures (CQMs). This specific Use Case does not have sufficient adoption by current customers. Therefore, product developers will simulate real world usage of the feature in a test clinic in a production-like environment. The production-like environment will be a true representation of the actual production environment as-is. Synthetic patient files will be imported, and selected report(s) will be created based on that information.

Description of Measurement/Metric

The following measures will be taken during this test: Imports executed; number of errors encountered. These measures will then be used to calculate the success rate of the import feature.

	Metric	Key User Action
1	Number of Imports executed	N/A
2	Number of Errors encountered	
3	Success Rate of Imports Executed	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(c)(2) Clinical quality measures (CQMs) – import and calculate	(c)(2)(i) Import data
	(c)(2)(ii) Calculate

Justification

The import and calculate feature provided by the EHR is not currently being utilized by our customers. Due to the nature of the import process, synthetic patient data and a test clinic will be used for this testing. This measure is applicable to all clinical settings but since the workflow for utilizing the import tool and create the reports is the same, it will not be separately measured for all.

Expected Outcomes

It is expected that these metrics will prove the feature is readily available and reliable, should users choose to import data to include in their Clinical Quality Measures scenarios. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

170.315(e)(1) View, download, and transmit to 3rd party

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(e)(1) View, download, and transmit to 3rd party certification criterion. Testing will focus on the use of the portal by patients to obtain their health information. Patients can then view the data, download it for later use or transmit it directly from the portal via email or direct message (Relied upon software for Direct Messaging – SES Direct).

These measures will focus on the patient's access to their health data and ability to transmit their own data (Relied Upon Software for Patient Notifications – SMTP2GO). Relied Upon Software – DrFirst – Rcopia will be utilized for medications and allergy information in the CCDs available via the patient portal.

Conformance to View, download, and transmit to 3rd party (170.315(e)(1))

Use Case 1 (Request, view, download, and transmit)

This measure will test conformance to 170.315(e)(1) View, download, and transmit to 3rd party by verifying that specific health data can be requested by the user, requests for health data complete successfully, and the health data can be downloaded in human readable or machine-readable formats.

Description of Measurement/Metric

The following measures will be taken during this test: Number of requests, views, and downloads initiated by patients for their health data via the portal; the number of transmits of health data initiated by patients via the portal; the number of errors logged for requests and transmits; the overall success rate of requests and transmits. (Errors are not tracked for view or download requests because those actions are simply a HTML link to the data generated by the request action; any pertinent errors in system functionality would occur during the request action.)

Metric		Key User Action
1	Number of times a patient has requested, viewed, downloaded, and transmitted their health data	Patient Portal > My Health Summary There are distinct options for the patient to “Request”, “View”, “Download”, or “Transmit”. Any selection applies to this Use Case metric.
	(a) Health data requested	
	(b) Health data viewed	
	(c) Health data downloaded	
	(d) Health data transmitted	
2	Number of errors logged	
	(a) Errors during request	
	(b) Errors during transmit	
3	Success rate of user-initiated health data activity	
	(a) Requests	
	(b) Transmit	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(e)(1) View, download, and transmit to 3rd party	(i) WCAG
	(i)(A) View
	(i)(B) Download
	(i)(C) Transmit
	(i)(D) Timeframe selection

Justification

Tracking patient use of the online portal to request their health data, download their data, and/or transmit their data, will demonstrate the real-world practicality of these services to the patient population. This measure is applicable to all clinical settings.

Expected Outcomes

It is expected that patients are utilizing and benefiting from these available services to access their health records at their convenience. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

170.315(f)(1) Transmission to immunization registries

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(f)(1) Transmission to immunization registries certification criterion. Assessments will focus on the data being sent from the EHR to the immunization registries. These measures will also indicate the number of any messages returned by the immunization registry as rejected.

Conformance to Transmission to immunization registries (170.315(f)(1)) (create)

Use Case 1 (Enter and send immunization data to registry)

This measure will test conformance to 170.315(f)(1) Transmission to immunization registries by verifying that immunization data can be entered and successfully sent to an immunization registry.

Description of Measurement/Metric

The following measures will be taken during this test: number of messages sent by customers under assessment to the registry, number of messages rejected by the registry. These measures will then be used to calculate the rate of rejection.

	Metric	Key User Action
1	Number of messages sent to the registries by RWT customers	Documentation of Immunization administration in patient chart
2	Number of messages rejected by registries	
3	Success rate of messages delivered to registries	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(f)(1) Transmission to immunization Registries	(i) Create messages

Justification

Tracking immunization data being submitted to registries will demonstrate the operation of this function and verify that data is being accepted. Clinical settings that administer immunizations regularly and have immunization registry interfaces will be utilized for this measure.

Expected Outcomes

It is expected that customers are participating in interoperability opportunities, such as this available service. It is also expected that the observed metrics will confirm that attempts to transmit this data are accepted by the receiving registry, and rejections – if any – are indicative of only non-systemic issues.

Conformance to Transmission to immunization registries (170.315(f)(1)) (history/forecast only)

Use Case 2 (History/forecast)

This measure will test conformance to 170.315(f)(1) Transmission to immunization registries by verifying that the history and forecast feature is successfully returning results.

Description of Measurement/Metric

The following measures will be assessed amongst clinics under evaluation during the RWT period: number of times the history and forecast feature has been used, the number of errors logged when using this feature, and the overall success rate.

Metric		Key User Action
1	Number of times a participating RWT clinic used the History/Forecast feature	Either of the actions listed below is applicable. It is not necessary for a RWT participant to perform both.
		(a) Chart > Immunizations/Growth Chart > Hx/Forecast
		(b) Encounter > Immunizations > Hx/Forecast
2	Number of errors logged using History/Forecast during RWT	
3	Success rate of History/Forecast display	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(f)(1) Transmission to immunization Registries	(ii) Forecast and history

Justification

Tracking immunization forecast and history usage will demonstrate the operation of this function and verify that data is being returned and presented to the user. Clinical settings that administer immunizations regularly and have applicable immunization registry interfaces will be utilized for this measure. This feature does not yet have a wide adoption rate; only immunization registry interfaces that make this feature available will be considered for RWT participation.

Expected Outcomes

It is expected that these metrics will provide insight into the adoption rate and usage of this feature in real world settings. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

170.315(f)(2) Transmission to public health agencies – syndromic surveillance

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(f)(2) Transmission to public health agencies – syndromic surveillance certification criterion. Testing will focus on the exchange of syndromic surveillance data.

Conformance to Transmission to public health agencies – syndromic surveillance (170.315(f)(2)) (registration and discharge)

This criterion does not have sufficient adoption by our current customer base. Therefore, product developers will simulate real world usage of the feature in a test clinic, but on the actual production environment. Testing will not utilize real patient PHI; Synthetic data will be utilized.

Use Case 1 (Syndromic surveillance registration and discharge data)

This measure will test conformance to 170.315(f)(2) Transmission to public health agencies – syndromic surveillance by tracking the creation of syndromic surveillance registration and discharge exports and tracking any errors logged in the process.

Description of Measurement/Metric

The following measures will be taken during this test: Number of syndromic surveillance registration and discharge exports, number of errors observed. These measures will then be used to calculate the error-free rate of data exports.

Metric	Key User Action
1 Number of Syndromic Surveillance Registration exports	Urgent Care Encounter > Syndromic Surveillance Data Message Type: Registration
2 Number of Syndromic Surveillance Discharge exports	Urgent Care Encounter > Syndromic Surveillance Data Message Type: Discharge
3 Number of errors logged during the exports	
4 Error-free Rate of Syndromic Surveillance Exports	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(f)(2) Transmission to public health agencies – syndromic surveillance	Create syndromic surveillance data

Justification

The creation of syndromic surveillance data has not been utilized by any current users, therefore test data for a test patient will be used. Tracking the creation of syndromic surveillance exports will demonstrate that data is being exported and may be transmitted or shared with other entities to detect and monitor health events. This measure is applicable to all clinical settings but since the workflow for exporting syndromic surveillance data is the same and this feature is not sufficiently utilized by our current users, it will not need to be measured separately for each clinical setting.

Expected Outcomes

It is expected that these metrics will prove the feature is readily available and reliable, should users choose to utilize it in their real-world scenarios. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

170.315(g)(7), 170.315(g)(9) Application access

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(g)(7), 170.315(g)(9) Application access certification criterion. Testing will focus on the application programming interface (API) service to deliver specific patient data in CCD format per request, as well as tracking the overall success rate of data delivery.

This feature, though available in the production environment, has yet to have any real-world engagement. If adoption rate remains insufficient through the RWT period, the product developer will simulate real world usage as-is on the production environment.

Conformance to Application access – patient selection (170.315(g)(7), 170.315(g)(9))

Use Case 1 (Query patient data)

This measure will test conformance to 170.315(g)(7), 170.315(g)(9) Application access by tracking the number of data requests invoked, any observed errors, and the overall success rate.

Description of Measurement/Metric

The following measures will be taken during this test: Number of queries invoked, and the number of errors encountered. These measures will then be used to calculate the success rate of the data requests.

	Metric	Key User Action
1	Number of Data Requests invoked	N/A. The API is not an application menu option.
2	Number of Errors encountered	
3	Success Rate of Data Request Executions	

Associated Certification Criteria

Certification	Criteria Requirement
170.315(g)(7) Application access – patient Selection	(i) access
170.315(g)(9) Application access – all data Request	(i) all data request
	(ii) documentation

Justification

Tracking the number of data requests performed will demonstrate that EHI is being exported and may be gathered and used for reporting information back to the patient to improve overall health. This measure is applicable to all clinical settings but since the workflow for utilizing an Application Programming Interface (API) to obtain data is the same and this feature is not currently utilized by any users, it will not be measured for all. If the real-world adoption remains insufficient, then the test harness created for certification testing will be utilized for this RWT evaluation period using real patient data in a production clinic.

Expected Outcomes

It is expected that these metrics will prove the feature is readily available and reliable, should users choose to utilize it in their real-world scenarios. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

170.315(g)(10) Standardized API for patient and population services

Measures Used in Approach

The following sections outline the measures that will be used to demonstrate conformance to 170.315(g)(10) Application access certification criterion. Testing will focus on the application programming interface (API) service to deliver specific patient data in FHIR format per request, as well as tracking the overall success rate of data delivery.

This feature, though available in the production environment, has yet to have any real-world engagement. If adoption rate is insufficient through the RWT period, the product developer will simulate real world usage of the service as-is on a production-like environment.

Conformance to Application access – patient selection (170.315(g)(10))

Use Case 1 (Query patient data)

This measure will test conformance to 170.315(g)(10) Application access by tracking the number of data requests invoked, any observed errors, and the overall success rate.

Description of Measurement/Metric

The following measures will be taken during this test: Number of queries invoked, and the number of errors encountered. These measures will then be used to calculate the success rate of the data requests.

	Metric	Key User Action
1	Number of Data Requests invoked	N/A. The API is not an application menu option.
2	Number of Errors encountered	
3	Success Rate of Data Request Executions	

Associated Certification Criteria

Certification Criteria	Requirement
170.315(g)(10) Standardized API for patient and population services	(i) Data response
	(ii) Supported search operations
	(iii) Application registration
	(iv) Secure connection
	(V)(A) Authentication and authorization for patient and user scopes

Justification

Tracking the number of data requests performed will demonstrate that EHI is being exported and may be gathered and used for reporting information back to the patient to improve overall health. This

measure is applicable to all clinical settings but since the workflow for utilizing an Application Programming Interface (API) to obtain data is the same and this feature is not currently utilized by any users, it will not be measured for all. If real world adoption rate is insufficient through the evaluation period, the product developer will demonstrate real world scenarios in a production-like environment via the ONC approved testing tool utilized for certification.

Expected Outcomes

It is expected that these metrics will prove the feature is readily available and reliable, should users choose to utilize it in their real-world scenarios. It is also expected that the observed metrics will confirm that attempts to perform this measure are error-free, and errors – if any – are indicative of only non-systemic issues.

Traceability Matrix

Use Case	Family Practice	Specialist/ Surgical	Geriatrics	OB/Gyn
170.315(b)(1) Transitions of care				
Create patient data	X	X	X	X
Send patient data via direct	X	X	X	X
170.315(b)(2) Clinical information reconciliation and incorporation				
Reconcile and incorporate patient data	X	X	X	X
170.315(b)(10) EHI export				
Export single patient EHI	X	X	X	X
Export patient population EHI	X	X	X	X
170.315(c)(1) Clinical quality measures (CQMs) — record and export 170.315(c)(2) Clinical quality measures (CQMs) — import and calculate 170.315(c)(3) Clinical quality measures (CQMs) — report				
eCQM execution	X	X	X	X
QRDA file export	X	X	X	X
170.315(e)(1) View, download, and transmit to 3rd party (View, download, transmit and view logs in the portal)				
Request, view, download, and transmit	X	X	X	X
View	X	X	X	X
170.315(f)(1) Transmission to immunization registries				
Enter and send immunization data to registry	X	X	X	No RWT
History and forecast	X	X	X	No RWT
170.315(f)(2) Transmission to public health agencies – syndromic surveillance				
Syndromic surveillance registration and discharge data	X	No RWT	No RWT	No RWT
170.315(g)(7) Application access – patient selection (API) 170.315(g)(9) Application access – all data request (API)				
Query patient data	X	No RWT	No RWT	No RWT
170.315(g)(10) Standardized API for patient and population services				
Query patient data	X	No RWT	No RWT	No RWT

Attestation

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