



CY 2022 Real World Testing Plan for ChartPath

Executive Summary

This is the real world test plan for CY 2022 for ChartPath 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 our planned testing methodology for the associated ONC criteria. We also include a justification for measurement, expected outcomes from the testing, care settings applied for this measure, and if applicable the number of clients to participate in our real world testing.

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 is provided later in the plan for 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.

Authorized Representative Name: Bryan White

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Authorized Representative Signature:

A handwritten signature in black ink that reads "Bryan White". The signature is written in a cursive style with a large initial "B" and a distinct "W".

DATE: 11/12/2021



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General Information

Plan Report ID Number: ChartPath_RWT_2022

Developer Name: ChartPath, LLC

Product Name(s): ChartPath

Version Numbers(s): 1.29

Certified Health IT Criteria: 315(b)(1)-(2), (b)(6), (c)(1)-(3), (f)(7), (g)(7)-(9), (h)(1)

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

- 15.04.04.2996.Char.12.01.1.191227
- <https://chpl.healthit.gov/#/listing/10258>

Developer Real World Testing Page URL: <http://ChartPath.com/2015-cehrt>



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 2023 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.
- 1Q-2023. Submit RWT Test Report to our ONC-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. We plan on implementing USCDI v1 in our C-CDAs and API support during CY 2022, but we have not finalized an exact date for rollout.

Standard (and version)	N/A
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.

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 automated 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.

Number of Clients Sites

Within each measure, we note the minimum number of clients or client sites we plan to use for this measure evaluation. The numbers vary depending on the methodology as well as overall use of the associated EHR Module criteria by our users. For criteria that are not widely used by our customer base, we may test the respective measure in our own production-sandbox environment given lack of customer experience with the criteria functionality.

Care and Practice Settings Targeted

Our EHR is primarily targeted at long-term and post-acute care (LTPAC) practices, and our measures were designed with this setting in mind.





RWT Measure #1. Number of Transition of Care C-CDAs Successfully Sent

Associated Criteria: 315(b)(1), 315(h)(1)

Testing Methodology: Reporting/Logging

Measurement Description

This measure is tracking and counting how many C-CDAs are created and successfully sent from the EHR Module to a 3rd party via Direct messaging during a transition of care event over the course of a given interval.

The interval for capturing this metric will be a minimum of one (1) month for the sites chosen for testing.

Measurement Justification

This measure will provide a numeric value, both successful exchanges and errors, to indicate how often this interoperability feature is being used as well as its compliance to the requirement. A success measure increment indicates that the EHR can create a C-CDA patient summary record, including ability to record all clinical data elements, and by sending the C-CDA patient summary record, the EHR demonstrates successful interoperability of an exchanged patient record with a 3rd party. An error may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.

This use case provides interoperability insight for both the Transition of Care (315.b.1) criteria as well as the Direct Messaging (315.h.1) criteria as it indicates the ability to connect to our UpDox HISP to complete a successful transmission to a 3rd party.

Measurement Expected Outcome

The measurement will produce numeric results, both success and errors, over a given interval. We will utilize various reports and audit logs, including Automated Measure (315.g.2) reports, to determine our measure count.

A successful exchange indicates compliance to the underlying ONC criteria. It will show that the EHR can create the C-CDA patient summary record, including record required clinical data elements. In sending the C-CDA patient summary record, the EHR will demonstrate ability to confirm successful interoperability of an exchanged patient record with a 3rd party, including support for Direct Edge protocol in connecting to a HISP. 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 while errors may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.



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

We designed this measure to test the LTPAC that we support and target. We will test a minimum of two (2) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.



RWT Measure #2. Number of C-CDAs Received and/or Incorporated Associated Criteria: 315(b)(2)

Testing Methodology: Reporting/Logging

Measurement Description

This measure is tracking and counting how many C-CDAs are successfully received and/or incorporated upon receipt from a 3rd party via Direct messaging during a transition of care event over the course of a given interval.

The interval for capturing this metric will be a minimum of one (1) month for the sites chosen for testing.

Measurement Justification

This measure will provide a numeric value, both successful exchanges and errors, to indicate how often this interoperability feature is being used as well as its compliance to the requirement. A success measure increment to this measure indicates that the EHR can receive a C-CDA patient summary record, and by incorporating the C-CDA patient summary record, the EHR demonstrates successful interoperability of problems, medications, and medication allergies of patient record with a 3rd party. This measurement shows support for Direct Edge protocol in connecting to a HISP for successful transmission. An error may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.

Measurement Expected Outcome

The measurement will produce numeric results, both success and errors, over a given interval. We will utilize various reports and audit logs, including Automated Measure (315.g.2) reports, to determine our measure count.

A successful exchange indicates compliance to the underlying ONC criteria. It will show that the EHR can receive a C-CDA patient summary record. In incorporating the C-CDA patient summary record, the EHR will demonstrate successful interoperability of problems, medications, and medication allergies of patient record with a 3rd party, including support for Direct Edge protocol in connecting to a HISP, specifically our primarily HISP Updcox.

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 while errors may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.

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

We designed this measure to test the LTPAC that we support and target. We will test a minimum of two (2) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.



RWT Measure #3. Number of Patient Batch Exports Run

Associated Criteria: 315(b)(6)

Testing Methodology: Reporting/Logging

Measurement Description

This measure is tracking and counting how many batch exports of C-CDAs were successfully performed by the EHR Module over the course of a given interval.

The interval for capturing this metric will be a minimum of one (1) month for the sites chosen for testing.

Measurement Justification

Batch exporting can be a useful function for interoperability to allow providers to share large volumes of patient data. This measure will provide a numeric value, both success and errors, to indicate how often this interoperability feature is being used as well as its compliance to the requirement, namely that the EHR can create a batch export of multiple C-CDA patient summary records.

Measurement Expected Outcome

The measurement will produce numeric results, both success and errors, over a given interval. We will likely utilize a database report to determine our measure count.

A successful export indicates compliance to the underlying ONC criteria. It will show that the EHR can create a batch export of multiple C-CDA patient summary records, which can be used in means of health IT interoperability. 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 while errors may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.

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

We designed this measure to test the LTPAC that we support and target. We will test a minimum of two (2) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.



RWT Measure #4. Number of API Queries Made for Data Elements

Associated Criteria: 315(g)(7)-(g)(8)

Testing Methodology: Reporting/Logging

Measurement Description

This measure is tracking and counting how many successful API queries of patient data elements from the EHR Module to a 3rd party via API over the course of a given interval.

The interval for capturing this metric will be a minimum of one (1) month for the sites chosen for testing.

Measurement Justification

This measure will provide a numeric value to indicate how often this interoperability feature is being used as well as its compliance to the requirement. An increment to this measure indicates that a 3rd party can query the clinical resources of the patient health record via the API interface and thus demonstrate API interoperability. We will also log if there are any errors in applications attempting to connect via the API.

Measurement Expected Outcome

The measurement will produce numeric results over a given interval. We will utilize various reports and audit logs, to determine our measure count.

A successful query increment indicates compliance to the underlying ONC criteria. It will show that a 3rd party client can be authenticated, that the patient record can be properly identified and selected, and that the EHR can make patient data accessible via its API interface. It also implies the public API documentation is accurate and sufficient for 3rd parties to connect and use the API while errors may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.

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

We designed this measure to test the LTPAC that we support and target. We will test a minimum of two (2) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.



RWT Measure #5. Number of API Queries Made for C-CDA Documents

Associated Criteria: 315(g)(7), (g)(9)

Testing Methodology: Reporting/Logging

Measurement Description

This measure is tracking and counting how many C-CDAs are created and successfully sent from the EHR Module to a 3rd party via API query over the course of a given interval.

The interval for capturing this metric will be a minimum of one (1) month for the sites chosen for testing.

Measurement Justification

This measure will provide a numeric value to indicate how often this interoperability feature is being used as well as its compliance to the requirement. An increment to this measure indicates that a 3rd party can query the C-CDA of the patient health record via the API interface and thus demonstrate API interoperability.

Measurement Expected Outcome

The measurement will produce numeric results, both successes and errors, over a given interval. We will utilize various reports and audit logs, to determine our measure count.

A successful query indicates compliance to the underlying ONC criteria. It will show that a 3rd party client can be authenticated, that the patient record can be properly identified and selected, and that the EHR can make a C-CDA of the patient data accessible via its API interface. Successfully completing this measure also implies the public API documentation is accurate and sufficient for 3rd parties to connect and use the API while errors may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.

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

We designed this measure to test the LTPAC that we support and target. We will test a minimum of two (2) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.



RWT Measure #6. Number of Direct Messages Successfully Sent Associated Criteria: 315(h)(1)

Testing Methodology: Reporting/Logging

Measurement Description

This measure is tracking and counting how many Direct messages were successfully sent from the EHR Module to a 3rd party over the course of a given interval.

The interval for capturing this metric will be a minimum of one (1) month for the sites chosen for testing.

Measurement Justification

This measure will provide a numeric values, both of successful exchanges and errors, to indicate how often this interoperability feature is being used as well as its compliance to the requirement. This measure will also ensure our customers are properly integrated with our primarily HISP provider, Updax. A successful Direct message exchange indicates that the EHR can create a Direct message and demonstrates successful interoperability of an exchanged message with a 3rd party.

Measurement Expected Outcome

The measurement will produce numeric results, both success exchanges and errors, over a given interval. We will utilize various reports and audit logs, including Automated Measure (315.g.2) reports, to determine our measure count.

A successful exchange increment indicates compliance to the underlying ONC criteria. It will show that the EHR can be authenticated with DirectTrust, create a Direct message, and demonstrate interoperability of an exchanged message with a 3rd party. 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 while errors may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.

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

We designed this measure to test the LTPAC that we support and target. We will test a minimum of two (2) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.



RWT Measure #7. Number of Quality Measures Successfully Reported on to CMS

Associated Criteria: 315(c)(1)-(c)(3)

Testing Methodology: Reporting/Logging

Measurement Description

This measure is tracking and counting how many eCQM quality measures were successfully reported on by the EHR Module to CMS over the course of a given interval.

The interval for this measure will be twelve (12) months.

Measurement Justification

This measure will provide a count and list of electronic clinical quality measures (eCQMs) which are calculated and submitted to CMS for a given program, like MIPS. Clinical quality measures are only used for the respective CMS programs and any production measures should utilize submission to CMS. Because CQM criteria, 315(c)(1)-(c)(3), all work collectively together in the eCQM functionality of the EHR Module, this measurement is used for all three.

Measurement Expected Outcome

The measurement will a count and list of eCQMs submitted to CMS over a given interval. We will utilize various reports and audit logs and other sources to determine our measure count.

A successful measure submission indicates compliance to the underlying ONC criteria. It will show that the EHR can do calculations on the eCQM and that they are accepted by CMS. 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 while not completing this measure may indicate lack of understanding or possibly lack of use or need for this functionality.

Care Settings and Number of Clients Site to Test

We designed this measure to test the LTPAC providers that we support. We will test a minimum of two (2) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.



RWT Measure #8. Number of Health Care Survey Messages Successfully Sent

Associated Criteria: 315(f)(7)

Testing Methodology: Reporting/Logging

Measurement Description

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

The interval for this measure will be three (3) months.

Measurement Justification

This measure will provide a numeric value, both successful exchanges and errors, 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 a health care survey 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 produce numeric results over a given interval. We will utilize various reports and audit logs and other methods to determine our measure count.

A successful metric increment indicates compliance to the underlying ONC criteria. It will show that the EHR can create the HL7 health care survey message, including ability to record the required clinical data elements. In sending the health care survey message, the EHR will demonstrate 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 while not completing this measure may indicate lack of understanding or possibly lack of use or need for this functionality. Any errors may indicate lack of understanding or configuration errors or product errors which we will investigate as necessary.

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

We designed this measure to test the LTPAC providers that we support. We will test a minimum of two (2) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.