

# 2022 Real World Testing Results for CyberMed Corporation Certified EHR

## **Executive Summary**

This is the real world test results for 2022 for CyberMed Corp. certified EHR solution. We have one version certified, and we tested it with our user community.

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 use case, we document planned testing methodology, associated ONC criteria, justification for measurement, expected outcomes from the testing, care settings applied for the respective 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 decision as well as results from said 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 with hyperlinks is provided later in the plan with 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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A handwritten signature in black ink, appearing to be 'J. Ying', written in a cursive style.

DATE: Feb 23, 2023

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## General Information

Plan Report ID Number:

Developer Name: CyberMed Corporation

Product Name(s): CyberMed EHR

Version Numbers(s): 6.0

Certified Health IT Criteria: 315(b)(1), (2), (3), (6), (7), (8),(9); (c)(1)-(c)(3); (e)(1); (f)(1); (g)(7)-(9);

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

**15.04.04.2775.Cybe.06.00.1.181217**

<https://chpl.healthit.gov#/listing/9820>

Developer Real-World Testing Page URL:

<http://www.cybermedcorp.com/Products/EHR.html>

Developer Real-World Testing Results Page URL:

## **Timeline and Milestones for Real-World Testing 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 2<sup>nd</sup> and 3<sup>rd</sup> 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.

February 2023. Document our CY 2022 test results into our RWT Test Report and submit 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.

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.

### 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.
- Survey: This methodology evaluates interoperability and compliance of EHR Module capabilities through feedback from users. This methodology can provide insight into how clinicians employ and use a feature which reveals actual value and impact of interoperability of the EHR Module.

### 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

CyberMed EHR is primarily targeted to general ambulatory practices, and our measures were designed with this setting in mind. In each measure, we do also address the care settings targeted and note any necessary adjustment or specific factor to consider with this specific measure.

## **RWT Measure #1. Transition of Care C-CDAs Functionality**

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

Methodology: Reporting/Survey

### **Measurement Description**

This use case is tracking how many C-CDAs are created and successfully sent from the EHR Module to a 3<sup>rd</sup> party during a transition of care event using Direct messaging over the course of a given interval.

### **Measurement Justification**

This use case has one measure capture. It 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 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 3<sup>rd</sup> party. This measurement shows support for Direct Edge protocol in connecting to a HISP for successful transmission which reveals compliance to the associated criteria listed above.

### **Measurement Expected Outcome**

We will test a sample of our user base to get reporting values on C-CDAs sent as well as performance of C-CDA error detection.

Report the numbers of C-CDAs sent over a three (3) month period.

This metric can come from different reports, including Automated Measure (315.g.2) reports.

A successful measure increment indicates compliance to the underlying ONC criteria, including successful creation of the C-CDA patient summary record and recording the 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 3<sup>rd</sup> 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 not completing this measure may indicate lack of understanding or possibly lack of use or need for this functionality.

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 general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

Relied Upon Software: Max MD

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 0
- Reporting Interval: 12 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: Number of C-CDA are created and successfully sent during transition of care

**Description of Outcomes/analysis and Key Findings:**

Our results reveal this feature is not regularly used by our clients; however, we did perform a test(s) between two (2) clients in production. We used test patients with actual data. Below are listed the steps we took to perform the test:

- 1) A test patient was created in the production system, and various allergies, problems, and medications were added to the patient's account.
- 2) A CCD export was created and sent via secure messaging to the destination system.
- 3) The secure message with the CCD attachment was received in the destination system.

**Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conformities.

## **RWT Measure #2. Incorporation and Updating of Medication List, Problem List, Allergy List**

Associated Criteria: 315(b)(2) Testing

Methodology: Survey/Report

### **Measurement Description**

This is a survey measure to determine how often you are using the C-CDA incorporate and update feature.

### **Measurement Justification**

This measure will survey users to determine real world interoperability and usability, specifically how often are C-CDAs received from 3<sup>rd</sup> parties incorporated into the patient record and then updating the patient's problem list, medication list, and medication allergy list with the clinical data contained in the C-CDA.

A survey can often provide more information on the impact and value of an interoperability element than a standard software test evaluation. This survey measure will reveal if users are using the C-CDA incorporate feature of their EHR to update their patient's record with current or new information from another source. Through this means of testing, we can determine compliance to the associated criteria listed above in real world use.

We will also test a sample of our user base to get reporting values on how often the system C-CDA is incorporated/ updated into the patient record.

### **Measurement Expected Outcome**

The user will be asked the survey question of how often you are using the C-CDA incorporate and update feature and given the survey answer choices below:

- Regularly
- Sporadically
- Rarely
- Never
- Don't Know

The answer will provide insight into how clinicians view both the use and value of this interoperability feature. For example, responses may show that additional training is needed to better utilize the feature or that it is not currently utilized as currently designed. It will provide a benchmark for evaluating future surveys as well as to share insight into any new development for improvements or enhancements of the health IT system.

### **Care Settings and Number of Clients Site to Test**

We designed this measure to test general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

Relied Upon Software: Max MD

### **Testing Results:**

- • Practices Queried: 3
- • Practices Reporting Results/Utilizing Certification Functionality: 0
- • Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- • Testing Metric/Measurement: C-CDAs are successfully received and/or incorporated.

upon receipt from a 3<sup>rd</sup> party via Direct messaging

### **Description of Outcomes/analysis and Key Findings:**

Our results reveal this feature is not regularly used by our clients; however, we did perform a test(s) between two (2) clients in production. We used test patients with actual data. Below are listed the steps we took to perform the test:

- 1) Opened the secure message with the CCD attachment.
- 2) Viewed the CCD attachment.
- 3) Pressed the Create Patient button to have the test patient created in the system.
- 4) Searched for the test patient and viewed the chart information.
- 5) Viewed and reconciled all allergies, problems, and medications that were incorporated into the new test patient account.

### **Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conformities.

## **RWT Measure #3. Electronic Prescriptions Functionality**

Associated Criteria: 315(b)(3) Testing

Methodology: Reporting

### **Measurement Description**

This use case is tracking and counting how many NewRx electronic prescriptions were created and successfully sent from the EHR Module to a pharmacy destination over the course of a given interval.

### **Measurement Justification**

This use case measure will provide a numeric value to indicate both 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 NewRx SCRIPT electronic prescription message and transmit it to a pharmacy, typically via the Surescripts Network. This use case will also show successful integration with our ePrescribing partner NewCrop and through its completion will reveal compliance to the associated criteria listed above.

### **Measurement Expected Outcome**

We will test a sample of our user base to get reporting values on NewRx electronic prescriptions sent as well as controlled substance usage.

Report the number of NewRx electronic prescriptions sent over a three (3) month period. The measurement will produce numeric results 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 measure increment indicates compliance to the underlying ONC criteria. It will show that the EHR can create the NewRx message and send over a production network, like the Surescripts Network, to a pharmacy. 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.

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 general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

Relied Upon Software: NewCrop

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 3
- Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: Number of New Rx Prescription Messages Successfully Sent.

Total Number of Messages Successfully Sent 31,461

**Description of Outcomes/analysis and Key Findings:**

Results reveal New RX prescriptions functionality is working as expected and is a feature our clients are using frequently.

There were isolated failures as a result of network connectivity failures. These are flagged and resent.

## **RWT Measure #4. Batch Patient Data Export**

Associated Criteria: 315(b)(6) Testing

Methodology: Survey/Report

### **Measurement Description**

This is a measure to determine how often you are using the batch patient data export feature.

### **Measurement Justification**

We do not know how many of our customers are actually using the batch patient exporting so we believe the best means to evaluate real world interoperability is to survey them on this criteria. This measure will survey users to determine real-world interoperability and usability, specifically how often do clinicians use the batch patient export feature.

A survey or self-testing can often provide more information on the impact and value of an interoperability element than a standard software test evaluation. Batch patient export can be used for various use cases, including supporting working a local HIE or registry as well as quality and population health metrics.

In addition to the survey we will also run a system test to return the frequency of patient data export functionality, showing the frequency of the export and the type of export.

### **Measurement Expected Outcome**

The user will be asked the survey question of how often do you perform the batch patient export during the average month and given the survey answer choices below:

- Regularly
- Sporadically
- Rarely
- Never
- Don't Know

The answer will provide insight into how clinicians view both the use and value of this interoperability feature. For example, responses may show that additional training is needed to better utilize the feature or that it is not currently utilized as currently designed. It will provide a benchmark for evaluating future surveys as well as to share insight into any new development for improvements or enhancements of the health IT system.

The report will show us how frequently this feature has been used and which users created the export.

### **Care Settings and Number of Clients Site to Test**

We designed this measure to test general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 0
- Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: report showing how often clients are using the batch patient data export feature.

**Description of Outcomes/analysis and Key Findings:**

Results Reveal this feature is used when transitioning to a new EHR platform, which none of our sample clients did. As a result, this feature was not used by the clients surveyed.

**Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conformities.

## **RWT Measure #5. Security Tag – Summary of Care – Send**

Associated Criteria: 315(b) (7) Testing

Methodology: Reporting

### **Measurement Description**

This is a report to determine the system's ability to allow Providers to exchange the CCDA with external providers by marking sections of the encounter notes as confidential and transmitted with security tag

### **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 the EHR can create a segmented message, including ability to record all clinical data elements, and by sending the message, the EHR demonstrates successful segmentation of the patient data

### **Measurement Expected Outcome**

The health IT can create a summary record (formatted to Consolidated CDA (C-CDA) Release 2.1) that is tagged at the document-level as restricted and subject to re-disclosure restrictions using the HL7 Implementation Guide: Data Segmentation for Privacy (DS4P), Release 1

1. Review and capture audit events that provider has marked section/s as confidential

### **Care Settings and Number of Clients Site to Test**

We designed this measure to test general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 0
- Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: report showing how often clients are using the feature.

### **Description of Outcomes/analysis and Key Findings:**

Results Reveal this feature is not being used.

### **Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conformities.

## **RWT Measure #6 Security Tag – Summary of Care – Receive**

Associated Criteria: 315(b) (8) Testing

Methodology: Reporting

**Measurement Description** This is a report to determine the system's ability to allow Providers to receive the CCDAs from external providers with confidentiality in place and displayed accordingly.

### **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 the EHR can create a segmented message, including ability to record all clinical data elements, and by sending the message, the EHR demonstrates successful segmentation of the patient data

### **Measurement Expected Outcome**

Provider is able to receive a summary record (formatted to Consolidated CDA Release 2.1) that is document-level tagged as restricted and subject to re-disclosure restrictions using the HL7 Implementation Guide: Data Segmentation for Privacy (DS4P), Release 1.

Providers are able to view the restricted document without having to incorporate any of the data from the document.

System allows the sequestering the document-level tagged document from other documents received Authorized

user sees the confidential section and mid-level (excluded users) should not have visibility.

Review and capture audit events.

### **Care Settings and Number of Clients Site to Test**

We designed this measure to test general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 0
- Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: report showing how often clients are using this feature.

### **Description of Outcomes/analysis and Key Findings:**

Results Reveal this feature is not being used.

**Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conformities

## **RWT Measure #7. Care Plan**

Associated Criteria: 315(b) (9) Testing

Methodology : Survey/Report

### **Measurement Description**

This is a survey measure to determine how often providers are using the care plan feature. We will also run a system report to validate the frequency of care plan access, creation, and sharing/receiving.

### **Measurement Justification**

Providers can record, change, access, create, and receive care plan information according to the Care Plan document template as per the specified standards including Health status evaluations and outcomes section, interventions.

### **Measurement Expected Outcome**

The user will be asked the survey question of how often do you perform the batch care plan export during the average month and given the survey answer choices below:

- Regularly
- Sporadically
- Rarely
- Never
- Don't Know

The answer will provide insight into how clinicians view both the use and value of this feature. For example, responses may show that additional training is needed to better utilize the feature or that it is not currently utilized as currently designed. It will provide a benchmark for evaluating future surveys as well as to share insight into any new development for improvements or enhancements of the health IT system.

We will also run system tests to confirm frequency of access, creation, and sharing/receiving of care plans by user types.

### **Care Settings and Number of Clients Site to Test**

We designed this measure to test general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 3
- Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: Reports showing 14,760 care plans created during this time.

### **Description of Outcomes/analysis and Key Findings:**

Results Reveal this feature is frequently used.

**Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conforming.



## **RWT Measure #8. Number of Quality Measures Successfully Reported on to CMS**

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

Methodology: Reporting/Survey

### **Measurement Description**

This measure is tracking and counting how many eCQM quality measures were successfully reported on by the EHR Module to CMS during their submission period for MIPS Quality reporting.

### **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 count the list of eCQMs submitted to CMS over a given interval. We will ask our customer users to report on the number eCQMs they successfully reported on to CMS which reveals compliance to the associated criteria listed above.

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.

We will use the measure result 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 general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 3
- Reporting Interval: 12 months (Jan 1, 2022 through Dec 31, 2022)
- Testing Metric/Measurement: Number of eCQM quality measures were successfully reported on by the EHR Module to CMS: 23 unique measures reported data

### **Description of Outcomes/analysis and Key Findings:**

Participants setup their MIPS dashboard to evaluate the performance. To validate the files generated from CyberMed, validation was done using production data. The CyberMed MIPS dashboard was utilized to track the reporting calculations for participants. Clients generated production data reports from our tool to test both c2 and c3.

**Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conformities that we know of, as the clients submit directly to CMS.

## **RWT Measure #9. Patient Portal Use**

Associated Criteria: 315(e)(1)

Testing Methodology: Reporting/Survey

### **Measurement Description**

This use case is tracking and counting how patients are given access to their portal account over the course of a given interval.

### **Measurement Justification**

This use case measure will provide a numeric value to indicate both 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 new patient portal account and give the patient access to it.

A survey can often provide more information on the impact and value of an interoperability element than a standard software test evaluation. The patient portal is intended to support patient engagement with their health records, and the ability to transmit their patient data, as a C-CDA or human readable copy, can be a useful feature.

### **Measurement Expected Outcome**

We will contact a sample of our user base to get reporting values on patient portal access as well as patients' use of the portal's interoperability features.

Report the number of new patient accounts created over a three (3) month period.

The measurement will produce numeric results 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 measure increment indicates compliance to the underlying ONC criteria list above.

### **Number of Clients Site to Test**

We designed this measure to test general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 3
- Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: Number of patients who have access or logged into the Patient Portal, 559 unique patient portal accounts created.

### **Description of Outcomes/analysis and Key Findings:**

Results Reveal the patient portal is frequently used.

### **Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non conformities.

## **RWT Measure #10. IIS/Immunization Registries Use**

Associated Criteria: 315(f)(1) Testing

Methodology: Reporting

### **Measurement Description**

This is a reporting measure to determine the number of immunization messages sent to public health registries.

### **Measurement Justification**

This measure will be used to determine real world interoperability and usability, specifically how many immunization messages were sent to an immunization information system (IIS) or public health immunization registries by the provider.

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 the EHR can create an immunization message, including ability to record all clinical data elements, and by sending the message, the EHR demonstrates successful interoperability with an IIS/immunization registry.

### **Measurement Expected Outcome**

As the clinician user submits immunization messages in their normal workflow and clinical activities, we will obtain their messaging metrics to evaluate real world interoperability. To capture this information, we will either use a special report to gather this information from our system or have the clinician user obtain the usage report from the registry.

A successful measure increment indicates compliance to the underlying ONC criteria. It will show that the EHR can create the HL7 immunization record, including the ability to record the required clinical data elements. In sending the immunization message, the EHR will demonstrate the ability to confirm successful interoperability of a patient's immunization data to an IIS/immunization 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.

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 general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 3
- Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: Number of messages sent to public health immunization registries - 768.

**Description of Outcomes/analysis and Key Findings:**

- Results Reveal we had consistent use of the Immunization Registry.
- We cross-examined our connection with a test patient with actual immunization data. We received a response message confirming the connection from the EHR Module to an IIS/immunization registry is active; and the functionality is performing as intended.

**Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conformities.

## **RWT Measure #11. API Access**

Associated Criteria: 315(g)(7)-(g)(9) Testing

Methodology: Survey/Audit

### **Measurement Description**

This is a survey measure to determine how many different systems or applications are connecting to your EHR via the API.

### **Measurement Justification**

We do not know how many of our customers are actually using the API functionality so we believe the best means to evaluate real world interoperability is to survey them. This measure will survey users to determine real world interoperability and usability, specifically many 3<sup>rd</sup> party systems or applications are integrated and using the EHR's API interface.

A survey can often provide more information on the impact and value of an interoperability element than a standard software test evaluation. API capabilities are an important component of the modern health IT system, and utilization of API resources will help improve patient care and care coordination.

We will also count audit activities to validate token exchange occurred (g7) and quantify the types of transactions performed. Audit log includes category requests (g8) and CCD requests (g9).

### **Measurement Expected Outcome**

The user will be asked the survey question and given the survey answer choices below:

- How many clients or software systems are connected to your EHR via the API? (numeric answer to the question, and if willing, the names of the other systems.)

The answer will provide insight into how clinicians view both the use and value of this interoperability feature. For example, responses may show that additional training is needed to better utilize the feature or that it is not currently utilized as currently designed. It will provide a benchmark for evaluating future surveys as well as to share insight into any new development for improvements or enhancements of the health IT system.

The audit log will show the transactions and demonstrate compliance and adoption in production.

### **Care Settings and Number of Clients Site to Test**

We designed this measure to test general ambulatory sites that we support and target. We will test a minimum of three (3) client practice(s). This number covers a sufficient percentage of existing practices to provide a viable sample of users of the certified EHRs.

### **Testing Results:**

- Practices Queried: 3
- Practices Reporting Results/Utilizing Certification Functionality: 3
- Reporting Interval: 3 months (Apr 1, 2022 through June 30, 2022)
- Testing Metric/Measurement: EHR criteria functionality in support of API query of patient data resources.

**Description of Outcomes/analysis and Key Findings:**

We have clients actively using the API function to transmit and receive patient data with third party software.

**Non-Conformities or Errors Discovered:**

During our testing, we did not discover any errors or criteria non-conformities.