

Real World Testing Plan

Developer Name: [AllegianceMD Software, Inc.](https://allegiancemd.com/)
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Developer Real World Testing Page URL:
<https://allegiancemd.com/mu/real-world-testing-2022.pdf>

JUSTIFICATION FOR REAL WORLD TESTING APPROACH:

Perform modified functional black box testing on the covered modules performed by end users in production and a real life scenario. The experiences of the end users are forwarded back to the developers to study the results.

Description of Measurement/Metric:

Measurement/Metric	Description
Passed Test Cases Percentage	Over a period of 3 months (Number of Passed Tests/Total number of tests executed) X 100
Failed Test Cases Percentage	Over a period of 3 months (Number of Failed Tests/Total number of tests executed) X 100
Improvement Requests Percentage	Over a period of 3 months (Number of improvements requested/Total number of improvement requested) X 100
Critical Defects Percentage	Over a period of 3 months (Critical Defects / Total Defects Reported) X 100

All above measurements listed above will be associated with the following criteria:

Care Coordination

- § 170.315(b)(1) Transitions of care
- § 170.315(b)(2) Clinical information reconciliation and incorporation
- § 170.315(b)(3) Electronic prescribing
- § 170.315(b)(6) Data export

Clinical Quality Measures

- § 170.315(c)(1)—record and export
- § 170.315(c)(2)—import and calculate
- § 170.315(c)(3)—report

Patient Engagement

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

Public Health

- § 170.315(f)(1) Transmission to immunization registries
- § 170.315(f)(5) Transmission to public health agencies — electronic case reporting

Application Programming Interfaces

- § 170.315(g)(7) Application access— patient selection
- § 170.315(g)(8) Application access— data category request
- § 170.315(g)(9) Application access— all data request

Electronic Exchange

- § 170.315(h)(1) Direct Project

Care Setting:

Since the above certified health IT modules are marketed to outpatient clinics, it will be tested in ambulatory out patient clinics.

Applicable Care Setting
Primary Care practice
Internal Medicine
Pediatrics
OB-GYN
Surgery

Podiatry
Urgent care

Care Coordination:

Associated Certification Criteria:	170.315 (b)(1): Transitions of Care
Measurement:	Rate of referral patients received by the specialist for all unique patient visits.
Description:	During the testing period, a report will be generated which tracks how many patients have been referred by a primary care provider to a Specialist over the course of a given interval and the information portability using CCDA using Direct message or direct uploads to EHR. This report also considers patient records that have been received by the specialist using EHR's secured E-Fax.
Justification:	Coordination of care between primary care provider and specialist is important and it involves testing of information portability between two different systems. We will report clearly in the denominator, the number of unique patients who visited the specialist and with a numerator, the number of those patients whose information was incorporated successfully in our system for the continuity of care.
Expected Outcomes:	Demonstrate our compliance with the certification criteria, supporting CCDA 2.1 with USCDI standards using standard vocabulary sets in transition of care and demonstrate the exchanging of electronic health information (EHI) in the care and practice settings for which it is marketed.

Associated Certification Criteria:	170.315 (b)(2): Clinical Information Reconciliation and Incorporation
Measurement:	Rate of unique patient visits for which reconciliations of discrete data into the patient's medication list, or allergy list, or problem list were successful.
Description:	During the testing period, we will report clearly in the denominator, the number of unique patients who visited a clinic, and with a numerator, the report data reconciliation per unique patient.
Justification:	We will report clearly in the denominator, the number of

	unique patients who visited a clinic, and with a numerator, the report data reconciliation per unique patient.
Expected Outcomes:	Demonstrate our compliance with the certification criteria and demonstrate that a user can simultaneously display a patient's active data, and its attributes, from at least two of the following sources: a patient's medication list, allergies and problem list.

Associated Certification Criteria:	170.315 (b)(3): Electronic Prescribing
Measurement:	Rate of unique patients who received an electronic prescription ordered by the provider.
Description:	During the testing period, a report will be generated which tracks how many patients have received electronic prescriptions ordered by the provider over the course of a given interval.
Justification:	We will report clearly in the denominator, the number of unique patients who visited the clinic and with a numerator, the number of those patients who received electronic prescriptions ordered by the provider.
Expected Outcomes:	Demonstrate our compliance with the certification criteria and demonstrate the orders received by a pharmacy and data exchange with Surescripts as a hub.

Associated Certification Criteria:	170.315 (b)(6): Data Export
Measurement:	Rate of unique patients whose Clinical Summaries have been exported from the EHR.
Description:	During the testing period, a report will be generated which tracks how many clinical summaries of patients have been exported from EHR.
Justification:	We will clearly report the list of patients whose clinical summaries have been exported from our EHR.
Expected Outcomes:	Demonstrate our compliance with the certification criteria, supporting CCDA 2.1 with USCDI standards using standard vocabulary sets in transition of care and demonstrate the exchanging of electronic health information (EHI) in the care

	and practice settings for which it is marketed.
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Clinical Quality Measures:

Associated Certification Criteria:	170.315 (c)(1): Clinical Quality Measures – Record and Export
Measurement:	Rate of unique patients who were referred to a specialist and waiting to receive the report back.
Description:	During the testing period, a patient referred by a primary care provider to a specialist will be exporting the QRDA Category I file corresponding to CMS50v9 from their system.
Justification:	We will show the screenshot of PCP’s system showing the CQM calculator having the patient in the denominator but not present in the numerator yet.
Expected Outcomes:	Demonstrate our compliance with the certification criteria, supporting QRDA Category 1 export using standard vocabulary sets in recording the specialist provider and primary care provider information. Demonstrate the exchanging of electronic health information (EHI) in the care and practice settings for which it is marketed.

Associated Certification Criteria:	170.315 (c)(2): Clinical Quality Measures – Import and Calculate
Measurement:	Rate of unique patients who were referred by a PCP to a specialist and ready to send the report back to the PCP.
Description:	Using the information portability of QRDA transmitted via direct uploads to PCP’s EHR, we will be able to view/incorporate the closing of the referral loop with patient details and notes from a specialist. Demonstrate the CQM calculator showing the patient in calculations for CMS50v9: Closing the Referral Loop: Receipt of Specialist Report.
Justification:	We will show the screenshot of PCP’s system showing the CQM calculator having the patient in the denominator and also in numerator now as evidence for closing the referral loop.
Expected	Demonstrate our compliance with the certification criteria,

Outcomes:	supporting QRDA Category 1 import using standard vocabulary sets in recording the specialist provider and primary care provider information. Demonstrate the exchanging of electronic health information (EHI) in the care and practice settings for which it is marketed.
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Associated Certification Criteria:	170.315 (c)(3): Clinical Quality Measures – Report
Measurement:	Rate of unique patients who were referred to a specialist and received the report back.
Description:	Demonstrate the CQM calculator showing the patient in calculations for CMS50v9: Closing the Referral Loop: Receipt of Specialist Report and export the results in QRDA Category III.
Justification:	Using the CQM calculator, we will demonstrate our reporting/exporting capabilities for CMS50v9: Closing the Referral Loop: Receipt of Specialist Report.
Expected Outcomes:	Demonstrate our compliance with the certification criteria, supporting QRDA Category III export for reporting of the CMS50v9: Closing the Referral Loop: Receipt of Specialist Report. Demonstrate the exchanging of electronic health information (EHI) in the care and practice settings for which it is marketed.

Patient Engagement:

Associated Certification Criteria:	170.315 (e)(1): View, Download, and Transmit to 3rd Party
Measurement:	Rate of unique patients who were able to access the patient portal to view, download, and also transmit to a third party.
Description:	During the testing period, a report will be generated which tracks how many patients have access to their portal account over the course of a given interval and what information is shared with the patient portal.
Justification:	We will report clearly in the denominator, the number of unique patients who are registered patient portal users in a clinic and with a numerator, the number of those patients who have viewed/downloaded/transmitted their clinical summaries to a third party.
Expected Outcomes:	Demonstrate our compliance with the certification criteria and demonstrate how patients engaged with the usage of the patient portal.

Public Health:

Associated Certification Criteria:	170.315 (f)(1): Transmission to Immunization Registries
Measurement:	Rate of unique patients in the clinic whose immunization records have been transferred to immunization registries successfully.
Description:	During the testing period, a report will be generated which tracks how many immunization records have been transmitted to their state immunization registries over the course of a given interval.
Justification:	We will report clearly in the denominator, the number of unique patients who have visited the clinic and with a numerator, the number of those patients whose immunization records have been updated in EHR and transmitted to their state immunization registries.
Expected Outcomes:	Demonstrate our compliance with the certification criteria and demonstrate how many immunization records are transmitted to the registries.

Associated Certification Criteria:	170.315 (f)(5): Transmission to Public Health Agencies
Measurement:	Rate of unique patients in a clinic whose records have been transferred to an HIE in case of any outbreaks of interest.
Description:	During the testing period, a report will be generated which tracks how many patient records with ICD-10s have been transmitted to their registries over the course of a given interval.
Justification:	We will report clearly in the denominator, the number of unique patients who have visited the clinic and with a numerator, the number of those patients whose records have been transmitted to their registries.
Expected	Demonstrate our compliance with the certification criteria

Outcomes:	and demonstrate how many records are transmitted to the registries.
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Application Programming Interfaces:

Associated Certification Criteria:	170.315 (g)(7): Application Access - Patient Selection
Measurement:	Count the number of API queries for a patient search made in a real world setting.
Description:	During the testing period, a report will be generated which tracks how many patient searches have been done by OpenAPI queries in the real world.
Justification:	OpenAPI queries result in the selection of a patient and demonstrate the audit log of search or selection of patient.
Expected Outcomes:	Demonstrate our compliance with the certification criteria and report the OpenAPI queries in selecting patients in a real world setting.

Associated Certification Criteria:	170.315 (g)(8): Application Access - Data Category Request
Measurement:	Count the number of API queries for the category of clinical data set made in a real life setting.
Description:	During the testing period, a report will be generated which tracks and log the OpenAPI queries made for specific data category requests in the real world.
Justification:	Demonstrate Audit log report of OpenAPI queries with a patient as a subject and fetch that patient-specific data by category.
Expected Outcomes:	Demonstrate our compliance with the certification criteria and report the OpenAPI queries with a patient as a subject in real world setting.

Associated Certification Criteria:	170.315 (g)(9): Application Access - All Data Request
Measurement:	Count the number of API queries for generating CCDA and all data requests made by patients using their Patient Portal.
Description:	Using Patient's mobile app on iOS, in real world settings download the CCDA 2.1 to Apple HealthKit.
Justification:	Demonstrating for a patient in a mobile app, synchronizing the CCDA to their local Apple Health app via an API request.
Expected Outcomes:	Demonstrate our compliance with the certification criteria and synchronize the OpenAPI query for a patient as a subject, to fetch the CCDA in real world setting and add it to the Apple Health app.

Electronic Exchange:

Associated Certification Criteria:	170.315 (h)(1): Direct Project
Measurement:	Count the number of direct messages received and sent in the EHR.
Description:	During the testing period, a report will be generated with the count of direct messages sent and received by the clinic in a real world setting.
Justification:	We will report the direct messaging capability as electronic exchange.
Expected Outcomes:	Demonstrate our compliance with the certification criteria, supporting Direct Project protocols and capabilities.

SCHEDULE OF KEY MILESTONES:

Key Milestone	Time Frame
Develop a list of clients to assist with Real World Testing	Q1 2022
Preparation and scheduling testing with clients	Q2 2022
Collection of information as laid out by the plan	Q2 and Q3 2022
CY 2022 Real World Testing plan will be completed according to ONC and ONC-ACB requirements and expectations.	Q4 2022
Document our CY 2022 test results	January 2023
Submit Real World Testing Report to ONC-ACB	February 2023

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