Real World Testing Plan: Measurement Year 2023

This document provides the Real World Testing – Test Plan for the measurement year 2023 for the CareDiscovery Electronic Quality Measures product.

General Information

1. **Plan Report ID Number**: [For ONC-Authorized Certification Body use only]:
2. **Developer Name**: IBM
3. **Product Name(s)**: CareDiscovery Electronic Quality Measures
4. **Version Number(s)**: 3.2
5. **Certified Health IT Product List (CHPL) ID**: 15.04.04.3001.Care.03.02.1.220906
6. **Developer Real World Testing Plan URL:** https://www.merative.com/products/carediscovery-electronic-quality-measures

Description & Justification of the approach to the testing

1. The Certified Health IT is an EHR Module used for electronic Clinical Quality Measures (eCQMs) reporting in the hospital inpatient setting. As such it is certified to only the eligible hospital eCQMs and is sold only to hospitals. For this reason, this Real World Testing plan will apply only to the hospital inpatient setting.
2. All the following certified criteria related to eCQMs will be tested simultaneously
    a. Clinical Quality Measures
        i. 170.315(c)(1)—record and export
        ii. 170.315(c)(2)—import and calculate
        iii. 170.315(c)(3)—report

Standard Updates

The product was certified to the 2015 Edition Cures update in September 2022 using the standard versions approved by ONC in the 2015 Edition Cures update. Since then, the product has not been updated to use any newer standards. As such this section is not applicable for this test plan.

Standard (and version)	The standard versions used in the product are the ones approved for the 2015 Edition Cures update certification for QRDA CAT I formats (CMS Implementation Guide for Quality Reporting Document Architecture: Category I; Hospital Quality Reporting; Implementation Guide for the year being reported)
Date of ONC ACB notification	Not applicable
Date of customer notification	Not applicable

Care Settings

The CareDiscovery Electronic Quality Measures supports eCQMs only in the inpatient hospital care settings.

Overall Expected Outcomes (s)

Real World Testing will demonstrate that the Health IT Module is conformant to the following certification criteria:

1. **170.315(c)(1)— Clinical Quality Measures - record and export**
    a. Real World Testing will demonstrate that the Health IT module supports recording of the patient data uploaded by the client for calculation of the eCQMs
    b. Real World Testing will demonstrate that the Health IT module allows a user to export a data file formatted in accordance with the standard version of the CMS QRDA Category I IG for inpatient measures for the year being reported for one or multiple patients.
2. **170.315(c)(2)— Clinical Quality Measures - import and calculate**
    a. Real World Testing will demonstrate that the Health IT module allows a user to import a data file formatted in accordance with the standard version of the CMS QRDA Category I IG for inpatient measures for the year being reported.
    b. Real World Testing will demonstrate that the Health IT module supports calculation of the all the eCQMs based on the data imported into the product.
3. **170.315(c)(3)— Clinical Quality Measures – report**
    a. Real World Testing will demonstrate that the Health IT module enables a user to electronically create a data file for transmission of CQM data in accordance with the

standard version of the CMS QRDA Category I IG for inpatient measures for the year being reported.

Schedule of Key Milestones

Key milestones	Timeframes
Initial development of the Real World Testing plan	October 2022
Finalization of the Real World Testing plan, and submission to ONC-ACB per ONC-ACB instruction	November 1, 2022
Development of candidate list of providers to assist with the Real World Testing	Q2, 2023
Development of software, if applicable for RWT	Q2, 2023
Real World Testing	Q3 2023
Analysis of the test results and report creation	Q4, 2023
Submission of the Real World Testing Results to ONC-ACB	February 2024

Real World Testing Methodology

1. **Type(s) of organizations and setting(s):** Hospitals - Inpatient setting
2. **Number of patient records:** 10 to 25 episodes or records across measures selected by the clients
3. **System components and integrations**: Select clients to cover as many eCQMs as possible as part of the test.
4. **Types of data exchange**: QRDA CAT I xml files
5. **Certification criteria measured**
    a. Clinical Quality Measures
        i. 170.315(c)(1)—record and export
        ii. 170.315(c)(2)—import and calculate
        iii. 170.315(c)(3)—report
6. **Health IT Modules addressed**
    a. CareDiscovery Electronic Quality Measures
        i. CHPL ID: 15.04.04.3001.Care.03.02.1.220906

Testing Environment

Testing will be conducted in the **real production environment** where clients upload **real patient data** for reporting to CMS.

Measurements/Metrics associated with Real World Testing

1. Clinical Quality Measures – To be tested and verified in the inpatient setting (hospitals)
    a. **170.315(c)(1)—record and export**
        i. Verify that all valid uploaded patient data has been recorded.
            1. **Metric:** Track the count of the # of patients uploaded (DQR) by the client and the # of patients recorded in the system (Manage Records report).
            2. **Methodology**: Review the log of files uploaded in the Data Quality Reports.
            3. **Expected Outcomes**: The number of patients uploaded should match the number of patients recorded.
        ii. Hospitals to be able to successfully export one or more patients in the QRDA CAT I xml file format using the standard version of the CMS QRDA Category I IG for inpatient measures for the year being reported.
            1. **Metric**: Track the number of QRDA CAT I files successfully exported and submitted to the CMS Hospital Quality Reporting (HQR) system per client.
            2. **Methodology**: Use the **CMS HQR eCQM > Accuracy report** to validate the file counts received by CMS against the log of the exported QRDA file counts in the product.
            3. **Expected Outcomes**: It is expected that 100% of the QRDA CAT I files exported meet the QRDA CAT I IG standard and should be successfully submitted to CMS without any Errors.
    b. **170.315(c)(2)—import and calculate**
        i. Hospitals to be able to successfully upload (import) their patient data using MOVEIT (third party software included in the certification) into our certified product.
            1. Clients get their patient data (subset – e.g., one week of data) in the QRDA CAT I file format from their EHR using the standard version of the CMS QRDA Category I IG for inpatient measures for the year being reported
            2. Clients upload the data into CDEQM using MOVEIT
            3. Client can verify all expected data was successfully imported into CDEQM using Data Quality Report & Manage Records
            4. **Metric**: Track the count of patients uploaded in the files against the count of patients accepted/rejected in the system.
            5. **Methodology**: Review the log of files uploaded in the Data Quality Reports.
            6. **Expected Outcomes**: The count of patients uploaded should match the sum of the count of patients received by the system.
        ii. Hospitals to be able to review that the measures have been accurately calculated.
            1. Clients can verify the calculated eCQM results using the following reports -

a. Measure Summary (aggregate) and Measure Categorization (individual episode & measure level) Reports

2. **Metric**: Track the number of episodes by eCQM by quarter where the measure outcomes match/do not match the measure outcomes generated by the CMS HQR system.
3. **Methodology**: Outcomes calculated in the CMS HQR system will be used as a proxy to identify accuracy of the eCQM calculations within the product. QRDA CAT I files exported by the system (for the data uploaded by the clients) will be submitted to the CMS HQR system. We perform three separate submissions to CMS each year allowing for validation over time. **CMS HQR eCQM > Outcomes report** will be used to compare the outcomes calculated by CMS with those in the product.
4. **Expected Outcomes**: Measure outcomes calculated by the product should match the measure outcomes calculated by the CMS HQR system. If discrepancies are identified, they will be investigated for root cause analysis and appropriate action will be taken based on the findings of the investigation.

c. 170.315(c)(3)—report

i. Hospitals to be able to successfully create a data file for transmission of eCQM data in accordance with the standard version of the CMS QRDA Category I IG for inpatient measures for the year being reported.

1. **Metric**: Track the number of QRDA CAT I files exported from the product per quarter per client and verify they are successfully submitted to CMS.
2. **Methodology**: Upload the exported QRDA CAT I file from the product to the CMS HQR System under the Test Submission category. We perform three separate submissions to CMS each year allowing for validation over time. CMS HQR eCQM > Accuracy report will be used to validate the file counts received by CMS against the log of the exported QRDA file counts in the product. The accuracy of the measure calculation outcomes will be validated as explained under the Metric for the 170.315 (c)(2)—import and calculate criteria
3. **Expected Outcomes**: It is expected that 100% of the QRDA CAT I files exported are successfully reported to CMS.

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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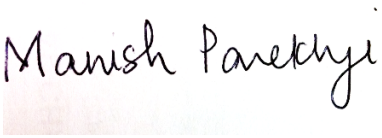

Date: 12/14/2022