

GEHRIMED v4.3 Real World Testing Plan

2024 Measures

Prepared for

Drummond



Netsmart

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General Information

Plan Report ID Number: [For ONC-Authorized Certification Body use only]

Developer Name: Netsmart Technologies

Product Name(s): GEHRIMED

Version Number(s): 4.3

Certified Health IT Product List (CHPL) ID(s): 15.04.04.2816.gEHR.04.03.1.221227

Developer Real World Testing Page URL: <https://www.ntst.com/lp/certifications>

Justification for Real World Testing Approach

Currently, the GEHRIMED product is marketed towards the geriatric post-acute, long term care setting. For this reason, the GEHRIMED Real World Testing plan will apply to this specialty care setting.

GEHRIMED is certified to a wide variety of Real-World Testing (RWT) criteria. Netsmart identified use cases and measures for the criteria the GEHRIMED product is certified to which falls within the RWT scope.

The following care coordination criteria will be tested:

- § 170.315(b)(1) Transitions of Care (Cures Update)
- § 170.315(b)(2) Clinical Information Reconciliation and Incorporation (Cures Update)
- § 170.315(b)(6) Data Export
- § 170.315(e)(1) View, Download, and Transmit to 3rd party (Cures Update)
- § 170.315(g)(7) Application access — Patient Selection
- § 170.315 (g)(9) Application access — All Data Request (Cures Update)
- § 170.315 (g)(10) Standardized API for patient and population services (Cures Update)

Standards Updates (SVAP and USCDI)

The Netsmart GEHRIMED certified product is not and has not participated in the Standards Version Advancement Process prior to August 31, 2023. GEHRIMED certified product has been updated to the new United States Core Data for Interoperability (USCDI) version 1 as specified in the 21st Century Cures act.

Standard (and version)	4.3
Updated certification criteria and associated product	<p>GEHRIMED</p> <p>Cures Update:</p> <p>170.315(b)(1), 170.315(b)(2);</p> <p>170.315 (d)(2), 170.315 (d)(3,) 170.315 (d)(12)</p> <p>170.315 (d)(13);</p> <p>170.315 (e)(1);</p> <p>170.315 (g)(6), 170.315 (g)(9), 170.315 (g)(10)</p>
CHPL Product Number	15.04.04.2816.gEHR.04.03.1.221227
Method used for standard Update	Live testing with Drummond Group (ONC-ACB) was completed in December 2022 for (g)(10) and attestation for updated Cures Criteria through Drummond Group.
Date of ONC-ACB notification	Dec 27, 2022
Date of customer notification (SVAP only)	Not applicable
Conformance measure	Not applicable
USCDI updated certification (USCDI version)	<p>United States Core Data for Interoperability (USCDI),</p> <p>Version 1, July 2020 Errata</p>

Care Setting(s)

GEHRIMED supports the deployment and tracking of documentation within and outside of geriatric post-acute, long term care setting. Most clients using certified technology are doing so in long-term care settings.

Overall Expected Outcomes

Real World Testing will demonstrate that GEHRIMED is conformant to the following certification criteria:

- [§170.315\(b\)\(1\) – Transitions of Care \(Cures Update\)](#)
- [§170.315\(b\)\(2\) – Clinical Information Reconciliation and Incorporation \(Cures Update\)](#)
- [§170.315\(b\)\(6\) – Data Export](#)
- [§170.315\(e\)\(1\) – View, Download, and Transmit to 3rd Party \(Cures Update\)](#)

- [§170.315\(g\)\(7\) – Application Access – Patient Selection](#)
- [§170.315\(g\)\(9\) – Application Access- All Data Request \(Cures Update\)](#)
- [§170.315\(g\)\(10\) – Standardized API for Patient and Population Services \(Cures Update\) \(NEW\)](#)

Relied Upon or Third-Party Software

Relied upon software is typically third-party software that is not developed by the Certified Health IT Developer presenting its health IT for testing and certification. Per the definition provided by the ONC, GEHRIMED does currently utilize the following solutions:

Updox portal as a third-party software for providing direct messaging solution to our users. GEHRIMED users access Updox functionality to receive and send CCDAs as a PDF attachment. GEHRIMED also uses DynamicHealth IT solution, CQM solution for the ability to record and export Clinical Quality Measures as outlined in module §170.315(c)(1) – Clinical Quality Measures (CQMs) – Record and Export.

Schedule of Key Milestones

Key Milestones	Date/Timeframe
Submit Real World Testing Plan documentation to Drummond.	November 1, 2023
Begin Collection of information as laid out by the plan for the period.	January 1, 2024
Follow-up with providers and authorized representatives on a regular basis to understand any issues arising with the data collection.	Quarterly, 2024
End of Real-World Testing period/final collection of all data for analysis.	December 31, 2024
Analysis and report creation.	January 15, 2025
Submit Real World Testing report to ACB (per their instructions)	February 1, 2025

Measures Used in Overall Approach

§170.315(b)(1) – Transitions of Care (Cures Update)

Description of measurement/metric

The following measures will demonstrate the ability to send and receive transitions of care/referral summaries across multiple protocols and/or networks.

Measurement/Metric	Description
Number of CCDAs sent for a % population over a time period. Numerator: Total number of CCDAs sent; Denominator: Total population	Care coordination –transitions of care will be evaluated by analyzing a current active population using the CCDA ‘send’ functionality over the assessed population. This addressed CCDA sending as well as CCDA creation.
Number of CCDAs received for a % population over a time period. Numerator: Total number of CCDAs Received; Denominator: Total population.	Care coordination –transitions of care will be evaluated by analyzing a current active population using the CCDA ‘receive’ functionality over the assessed population.
Number of CCDAs Displayed for a % population over a time period. Numerator: Total number of CCDAs Displayed; Denominator: Total population.	Display and reconciliation are congruent in our HealthIT and depend on the user to determine what will be reconciled. We will observe the number of CCDAs displayed over time for our population, and subsequently incorporated.

Associated Certification criteria

§170.315(b)(1) Transitions of Care (Cures Update)	<i>(i)(A&B) Send and receive transition of care/referral summaries via edge protocol</i>
	<i>(ii) Validate and display</i>
	<i>(iii) Create</i>

Justification for selected measurement/metric

The measurements selected demonstrate that referral messages can successfully be exchanged with external organizations using CCDA “Send” and “Receive” functionality in GEHRIMED.

Test Methodology

We will use log data to determine the number of CCDAs sent/created, received/reconciled over our user base.

Care setting(s)

Care Setting	Justification
The user population for this functionality is in a post-acute, long term care setting.	This is the care setting in which GEHRIMED electronic health record technology is used; this is the care setting where these modules will be evaluated

Expected Outcomes

Measurement/Metric	Expected Outcome
Number of CCDAs sent for a % population over a time period.	Based on database evaluation, we expect to see CCDAs sent without error for the population assessed, over time; Several items happen automatically in the backend as a result of successful CCDA send, pursuant to the standards set for the certified modules including sending via Direct Edge Protocols, HL7 compliance, USCDI compliance depending on the certified modality used, and the manner used.
Number of CCDAs received for a % population over a time period.	Assessing logs, we expect to see CCDAs received are incorporated for the identified denominator population. Receipt / incorporation occurs at the same time. Several items happen automatically in the backend as a result of successful CCDA receive, pursuant to the standards set for the certified modules including sending via Direct Edge Protocols, HL7 compliance, USCDI compliance depending on the certified modality used, and the manner used.
Number of CCDAs Displayed for a % population over a time period.	We expect this to be close in number to the number of CCDAs received. Upon evaluation of database logs received, we expect incorporation / reconciliation for CCDAs over the denominator population over the timeframe evaluated. When

	CCDAs are received, they are displayed for incorporation simultaneously. Several items happen automatically in the backend as a result of successful CCDA display, pursuant to the standards set for the certified modules including sending via Direct Edge Protocols, HL7 compliance, USCDI compliance depending on the certified modality used, and the manner used.
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§170.315(b)(2) – Clinical Information Reconciliation and Incorporation (Cures Update)

Description of measurement/metric

The measure will demonstrate the certified products ability to capture, reconcile, and incorporate clinical information within the client systems as needed.

Measurement/Metric	Description
Number of CCDAs Reconciled for a % population over a time period. Numerator: Total number of CCDAs Reconciled; Denominator: Total population.	We will observe reconciled CCDAs as a function of total number of CCDAs received to evaluate real world functionality of this module.

Associated Certification criteria

§ 170.315 (b)(2) Clinical information and reconciliation and incorporation (Cures Update)	<i>(i) General requirements</i>
	<i>(ii) Correct Patient</i>
	<i>(iii) Reconciliation</i>
	<i>(iv) System verification</i>

Justification for selected measurement/metric

Clinical Information Reconciliation may be completed multiple times in a given period on a single patient. This measure will demonstrate the volume from both an end-user perspective (Numerator), and a Patient perspective (Denominator).

Test Methodology

In order to evaluate clinical information reconciliation and incorporation pursuant to 170.315(b)(2) we will be analyzing log data to evaluate CCDA data received/incorporated. Other items related to the standards occur automatically (patient matching, correct patient, system verification).

Care setting(s)

Care Setting	Justification
The user population for this functionality is in a post-acute, long term care setting.	This is the care setting in which GEHRIMED electronic health record technology is used; this is the care setting where these modules will be evaluated.

Expected Outcomes

Measurement/Metric	Expected Outcome
Number of CCDAs Reconciled for a % population over a time period. Numerator: Total number of CCDAs Reconciled; Denominator: Total population.	This is expected to be congruent with the number of CCDAs received / displayed as this functionality is congruent in the process of receiving, reviewing, reconcile. We expect to see a similar number for CCDAs received over the denominator population over time. Several items happen automatically as a result of successful CCDAs reconcile, pursuant to the standards set for the certified modules including sending via Direct Edge Protocols, HL7 compliance, USCDI compliance depending on the certified modality used, and the manner used.

§170.315(b)(6) – Data Export

Description of Measurement/Metric

This measure will demonstrate the end user’s ability to create export summaries on an as needed basis.

Measurement/Metric	Description
CCDAs creation: Numerator: Number of CCDAs created Denominator: Total population	This will allow us to evaluate CCDAs creation for users in the real world over evaluated time.

Associated Certification Criteria

§ 170.315 (b)(6) Data Export	§ 170.315 (b)(6)(i)
	§ 170.315 (b)(6)(ii)

	§ 170.315 (b)(6)(iii)
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Justification for Selected Measurement/Metric

The measurement selected demonstrates providers can generate a CCD for given criteria for a patient.

Test Methodology

We will assess the creation and export of CCDAs pursuant to standards outlined in 170.315(b)(6) for user creation of CCDAs per general export summary requirements; this will also be done via log evaluation to analyze CCDAs sent for the evaluated population.

Log files will provide audit of CCDAs generated and user access. Database tables within the certified product application contain a record of all CCDAs requests made. If there is no client usage record, we will use internal testing systems to show the ability to generate patient data export summaries.

Care Setting(s)

Care Setting	Justification
The user population for this functionality is in a post-acute, long term care setting.	This is the care setting in which GEHRIMED electronic health record technology is used; this is the care setting where these modules will be evaluated

Expected Outcomes

Measurement/Metric	Expected Outcome
CCDA creation: Number of CCDAs created for the target population over time	We expect this to be close to the number of CCDAs sent for care coordination, transitions of care, other provider information as the functionality for creation is generally tied with CCDAs sent. This will be evaluated via database logs for the identified population over time. Several items happen automatically in the backend as a result of successful CCDAs creation, pursuant to the standards set for the certified modules including sending via Direct Edge Protocols, HL7 compliance, USCDI compliance depending on the certified modality used, and the manner used.

§170.315(e)(1) – View, Download, and Transmit to 3rd Party

Description of Measurement/Metric

The measures identified will encompass the Number of Views, downloads, and transmission of patient health data using the patient portal functionality.

Measurement/Metric	Description
Numerator: Number of ‘views’ by patients of their health data Denominator: Total population	Patient Engagement–Patient engagement in their health data by viewing their data per standards related to 170.315(e)(1) will be reviewed from the logs / database to determine usage over time for the identified denominator.
Numerator: Number of ‘downloads’ by patients of their health data Denominator: Total population	Patient Engagement –Patient engagement in their health data by downloading their data per standards related to 170.315(e)(1) will be reviewed from the database to determine usage over time for the identified denominator.

Associated Certification Criteria

§ 170.315 (e)(1) View, Download, and Transmit to 3 rd Party (Cures Update)	§170.315(e)(i)(A)
	§170.315(e)(i)(B)
	§170.315(e)(i)(C)

Justification for Selected Measurement/Metric

The measurements selected show that patient health data can be viewed and downloaded by patients and that they can successfully transmit to external parties.

Test Methodology

Count of distinct patient views and downloads of their health data via patient portal will be reviewed from the logs / database to determine usage over time for the identified denominator.

Transmissions is a functionality not used by our user base after evaluation. In consulting with our ONC-ACB, we found that as ‘view / download’ was used, additional test data would not be needed to be created for ‘transmit’ functionality

Care Setting(s)

Care Setting	Justification

The user population for this functionality is in a post-acute, long term care setting.	This is the care setting in which GEHRIMED electronic health record technology is used; this is the care setting where these modules will be evaluated
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Expected Outcomes

Measurement/Metric	Expected Outcome
Number of ‘views’ by patients of their health data over an identified population denominator	Expected validation of normal viewing of patient data over time. We will look at views over time and note/address any issues if applicable while monitoring. Validating view activity automatically verifies 170.205(a)(1)/(2) compliance as well as 107.205(a)(4)/(5)compliance based on how data view is setup, as well as CCDS / USCDI / HL7 standards as outlined in 170.213, 170.205(a)(4)/(5)
Number of ‘downloads’ by patients of their health data over an identified population denominator.	Expected validation of normal downloading of patient data in human readable format with the data they selected. We expect the number of download attempts to be congruent with downloads for a patient’s data. Downloading automatically validates functionality of associated certified criteria related to 170.205(a)(4)/(5)

§170.315(g)(7) – Application Access – Patient Selection (Cures Update)

Description of measurement/metric

This measure will demonstrate utilization of the certified FHIR R4 resources to search for patients.

- Number of Patient searches conducted using the certified FHIR R4 Patient endpoint during a 90-day window.

Associated Certification criteria

§ 170.315 (g)(7) Application Access – Patient Selection	§170.315(g)(7)(i)
	§170.315(g)(7)(ii)

Justification for selected measurement/metric

We will be evaluating test real world scenarios of how this functionality will provide a variety of search parameters to support identification of a patient for subsequent searches. This measure will demonstrate that the search capability is available and utilized.

Test Methodology

After evaluating our API use, currently API calls are made for billing access. However, none of our clients use the API points needed to meet the requirements. As such, we will be using test data / test scenarios like when first certified to evaluate real world functionality. This will allow us to evaluate real world functionality of patient ID request and return of ID / token data.

Care Setting(s)

Care Setting	Justification
The user population for this functionality is in a post-acute, long term care setting.	This is the care setting in which GEHRIMED electronic health record technology is used; this is the care setting where these modules will be evaluated

Expected Outcomes

Measurement/Metric	Expected Outcome
Number of patient ID requests, return of ID or token over test population	Expected validation of normal test patient ID selection and return of ID/Token per standards.

§170.315(g)(9) – Application Access- All Data Request – (Cures Update)

Description of measurement/metric

Measurement/Metric	Description
Number of All Test Data requests (per CCDS) over a population.	API all data request. This will allow evaluation of patient ‘all data’ selection for API exchange of patient information. Successful completion of the API request validates associated certification criteria outlined in §170.315 (g)(9).

Associated Certification criteria

§ 170.315 (g)(9) Application Access – All Data Request (Cures Update)	§170.315(g)(9)(i)
	§170.315(g)(9)(ii)

Justification for selected measurement/metric

We will be creating a test real world scenario for the functionality to provide a generated CCD upon request based on the supplied parameters. This measure will demonstrate that the capability is available and utilized as none of our clients use this functionality

Test Methodology

After evaluating our API use, currently API calls are made for billing access. However, none of our clients use the API points needed to meet the requirements. As such, we will be using test data / test scenarios similar to when first certified to evaluate real world functionality. We will evaluate scenarios of requesting / receiving All Data for a client per the regulations, over our API.

Care Setting(s)

Care Setting	Justification
The user population for this functionality is in a post-acute, long term care setting.	This is the care setting in which GEHRIMED electronic health record technology is used; this is the care setting where these modules will be evaluated

Expected Outcomes

Measurement/Metric	Expected Outcome
Number of All Data requests (per CCDS) over a population.	Ability to select All Category Data per CCDS for patients selected will be evaluated in a test environment. Evaluating this functionality over time will ensure functionality and interoperability as expected. The certified CCD endpoint will provide the generated CCD as XML.

§170.315(g)(10) – Standardized API for patient and population services (Cures Update)

Description of measurement/metric

This measure will demonstrate utilization of the certified FHIR R4 document reference resource to generate or retrieve CCDs.

- Number of successful CCD retrievals using either the certified CCD or the Certified FHIR R4 DocumentReference endpoints within a 90-day period.

Associated Certification criteria

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

	§170.315(g)(10)(iii)
	§170.315(g)(10)(iv)
	§170.315(g)(10)(v)
	§170.315(g)(10)(vi)
	§170.315(g)(10)(vii)
	§170.315(g)(10)(viii)

Justification for selected measurement/metric

The certified CCD and the certified FHIR R4 DocumentReference endpoint will provide a generated CCD upon request based on the supplied parameters. This measure will demonstrate that the capability is available and can be utilized.

Test Methodology

Internal monitoring tools will provide utilization over the specified time period.

Care Setting(s)

Care Setting	Justification
The user population for this functionality is in a post-acute, long term care setting.	This is the care setting in which GEHRIMED electronic health record technology is used; this is the care setting where these modules will be evaluated. We will pull data to test over a 90-day time period.

Expected Outcomes

We expect to see within the 90-day period utilization of the certified CCD and/or certified FHIR R4 DocumentReference endpoints to generate a CCD. The certified CCD endpoint will provide the generated CCD as XML. The certified FHIR R4 DocumentReference will provide the CCD as a Base64 encoded string attachment.

Attestation

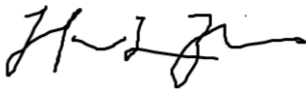
This Real-World Testing plan is complete with all required elements, including measures that address all certification criteria and care settings. All information in this plan is up to date and fully addresses the Health IT Developer's Real World Testing requirements.

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Authorized Representative Signature:



Date: 10/31/2023