9/27/2021

Test Plan

Real World Testing

Amit Borse
ADDISON HEALTH SYSTEMS INC.

Contents

1. General Information

Company Info	
Developer Name	Addison Health Systems
Contact Name	Greg Winterkamp
Certified Product Name	WritePad EHR
List of Versions Certified	Writepad v10.0.0
Certified Health IT Product List (CHPL) ID	15.02.02.1043.A099.01.00.1.191009
Edition	2015 Edition
Developer Real World Testing Page URL	https://www.writepad.com/meaningful-use
E-Mail	gwinterkamp@writepad.com
Phone Number	972-392-7778 x 108
I, Greg Winterkamp, attest that 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	
Report ID Number	20211111ADD
Date	10/21/2021

Associated Certification Criteria for real World testing	
170.315.(b)(1)	Transition of Care (XDR / SMTP)
170.315.(b)(2)	Clinical Information Reconciliation
170.315.(b)(6)	Data Export
170.315.(e)(1)	View, Download & Transmit
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

Standards Updates	
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

2. Justification for Approach

While designing the test plan we have designed a real-world scenario for each measure. And those scenarios are nothing but use cases. Each use case will cover one certification criteria. Some of the measures have more than one use case. For each use case we can calculate the number of times that user successfully completes it. We will be collecting a data quarterly for each certified measure for each client who will be testing with us.

The approach we have chosen for Physical Medicine and Rehab care settings because application is widely used among these 2 care settings. We will be onboarding 3 clients to test above certified measures with real world testing plan from Jan 1st, 2022. To start we will have onboarding webinar for clients so that they can understand the task around each measure.

3. MEASURES USED IN OVERALL APPROACH

3.1 170.315. (b)(1) Transitions of care

Details: -

In this measure EHR should be able to send and receive transition of care (ToC)/referral summaries using one of the four edge protocols in the ONC Implementation Guide for Direct Edge Protocols. The health IT can detect valid and invalid ToC/referral summaries upon receipt of C-CDA documents. Health IT can display, for both C-CDA Releases 1.1 and 2.1, a human-readable C-CDA to a user. The health IT allows a user to choose to display only the data within a particular C-CDA section, set a preference for the section display order, and set the initial number of sections to be displayed. The health IT can create a C-CDA (formatted to Release 2.1) that includes certain data to assist with patient matching.

Writepad uses 3rd party tool called **EMRDirect** for direct messaging. When we send/receive direct email with CCDA document we record that info in Writepad.

3.1.1 Care Setting(s)

Physical Medicine and Rehab Care Setting: EHR is sold to Physical Medicine and Rehab clinic which helps them to track visit data for each patient.

3.1.2 Schedule of Key Milestones Key

Release of documentation for the Real-World Testing to be provided to authorized representatives and providers about transitions of care.	December 1, 2021
Begin collection of information as laid out by the plan.	January 1, 2022
Meet with previously identified providers and authorized representatives to ensure that Real World Testing protocols are effective.	February 2022

Follow-up with providers and authorized representatives to understand any issues arising with the data collection.	Quarterly, 2022
Data collection and review.	Quarterly, 2022
End of Real-World Testing period/final collection of all data for analysis.	January 2023
Analysis and report creation.	January 15, 2023
Submit Real World Testing report to ACB (per their instructions)	February 1, 2023

3.1.3 Justification

While referring a patient from one provider to another we showed the exchange of health information with the help of CCDA. Flow of this scenario focuses on transition of care certification criterion requirement. The numbers that Writepad will report are number of successful transitions of care patients. The goal of this approach is to demonstrate that both the interoperability and the conformance capabilities of the flow are consistent with the requirements of the § 170.315.(b)(1) Transitions of care certification criterion. This will be done through the use cases included in the following plan.

3.1.4 Measure(s) Used

Following use case provides an example of a Real-World Testing plan for a single certification criterion, 170.315.(b)(1) Transitions of care. We have only one-use case which will cover the complete criteria.

Use Case

In this use case, a patient has been referred to the Writepad clinic from another clinic. Both providers uses the direct email for exchange Health information. So other Writepad provider sends a request to other provider to share a CCDA file for patient via direct email. Once Writepad provider receives CCDA file in direct email, he downloads that file. Then records the info into Writepad when file requested received and downloaded. Then he can search that patient in Writepad and open that CCDA file. User can see the CCDA file and arrange the CCDA section as per his priority.

Once the Visit is complete for patient Writepad provider sends back updated patient data (CCDA) via direct email to another provider for record.

3.1.4.1 Testing Methodology

- Request date for CCDA file will be tracked.
- Date to CCDA file received and download once clinical summary received.
- Date of import CCDA will be tracked.
- Date of CCDA send will be tracked.
- User Log can be checked during Real World Testing. We will be collecting the numbers quarterly for providers who are testing with us.

In case of necessity, we can obtain logs from EMRdirect. Logs can be checked during Real World Testing. We will be collecting the numbers quarterly for providers who are testing with us.

3.1.4.2 Test Results

Test Results will be reported in this format.

Duration	Number of Patients Referred in	Number of Referral summary/TOC received.	Number of CCDA Imported

3.1.4.3 Expected Outcome(s)

- Real World Testing will demonstrate that the Health IT Module is conformant to § 170.315.(b)(1) Transitions of care certification criterion.
- Real World Testing will demonstrate that the Health IT Module is able to send and receive transition of care (ToC)/referral summaries using one of the four edge protocols in the ONC Implementation Guide for Direct Edge Protocols. In this case EMR direct.
- Real World Testing will demonstrate that the Health IT Module is able to display, a human-readable C-CDA to a user.
- Real World Testing will demonstrate that the Health IT Module is able to allows a user to choose to display only the data within a particular C-CDA section, set a preference for the section display order, and set the initial number of sections to be displayed.
- Real World Testing will demonstrate that the Writepad user is able to send CCDA file using EMRdirect.

3.2. 170.315.(b)(2) Clinical-information-reconciliation-and-incorporation

Details:-

In this measure EHR should be able to match a received Transition of Care (TOC)/Referral Summary to the correct patient. While doing 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 intolerances list, and problem list. Displayed data attributes must include the source and the last modification date. And then he can review, validate, and incorporate a patient's medication, allergies, and problem list. Users create a C-CDA document should be able to that includes the reconciled and incorporated data.

3.2.1 Care Setting(s)

Physical Medicine and Rehab Care Setting: EHR is sold to Physical Medicine and Rehab clinic which helps them to track visit data for each patient.

3.2.2 Schedule of Key Milestones Key

Release of documentation for the Real World Testing to be provided to authorized representatives and providers about how to do clinical reconciliation and export reconciled list.	December 1, 2021
Begin collection of information as laid out by the plan.	January 1, 2022
Meet with previously identified providers and authorized representatives to ensure that Real World Testing protocols are effective.	February 2022

Follow-up with providers and authorized representatives to understand any issues arising with the data collection.	Quarterly, 2022
Data collection and review.	Quarterly, 2022
End of Real World Testing period/final collection of all data for analysis.	January 2023
Analysis and report creation.	January 15, 2023
Submit Real World Testing report to ACB (per their instructions)	February 1, 2023

3.3.3 Justification

While referring a patient from one provider to another we showed the exchange of health information with the help of CCDA. Referred patient medication, problem list and allergies can be imported in Writepad from CCDA. Flow of this scenario focuses on 170.315.(b)(2) Clinical-information-reconciliation-and-incorporation criterion requirement. The numbers that Writepad will report are number of successful Clinical-information-reconciliation-and-incorporation of care patients. The goal of this approach is to demonstrate that both the interoperability and the conformance capabilities of the flow are consistent with the requirements of the § 170.315.(b)(2) Clinical-information-reconciliation-and-incorporation certification criterion. This will be done through the use cases included in the plan.

3.3.4 Measures Used

Following use case provides an example of a Real-World Testing plan for a single certification criterion, 170.315.(b)(2) Clinical-information-reconciliation-and-incorporation. We have only one-use case which will cover the complete criteria.

Use case

In this use case, a patient has been referred to the Writepad provider. And patient gives referral summary in the form CCDA document to provider from his old doctor. So, provider has to search the name for that patient and then logs date when he receives the referral summary. He has view medication, allergy, and problem list data from Writepad and CCDA received at a time. And create reconciled list from both source and export another CCDA document with reconciled list so that patient will have updated CCDA document.

3.3.4.1 Testing Methodology

- Date to CCDA file received once patient gives clinical summary to provider or authorized person.
- Date of import CCDA will be tracked.
- Date of export reconciled CCDA will be tracked.
- We will collect the number of clinical reconciliations done for each period by each user. User Logs can be checked during Real World Testing. We will be collecting the numbers quarterly for providers who are testing with us.

3.3.4.2 Test Results

Test Results will be reported in this format.

Duration	Number of Referral summary/TOC received.	Number of Clinical reconciliations performed successfully	Number of CCDA Exported after reconciliation

3.3.4.3 Expected Outcome(s)

- Real World Testing will demonstrate that the Health IT Module is conformant to § 170.315(b)(2) for the "Clinical-information-reconciliation-and-incorporation" certification criterion.
- Real World Testing will demonstrate that Writepad should be able to match a received Transition of Care (TOC)/Referral Summary to the correct patient.
- Real World Testing will demonstrate that Writepad 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. Displayed data attributes must include the source and the last modification date.
- Real World Testing will demonstrate that user can review, validate, and incorporate a patient's medication, allergies, and problem list.
- Real World Testing will demonstrate that Writepad create a C-CDA document should be able to that includes the reconciled and incorporated data.

3.3 170.315 (b)(6) Data Export

Details: -

We expect that Health IT must be able to send all required data for a specific date range specified and locations. Health IT must be able to configure the user access who can send clinical summary as part of data export. A Health IT Module must, at a minimum, permit a user to select a local or network storage location. Health IT must be able to export more than one patient data.

3.3.1 Care Setting(s)

Physical Medicine and Rehab Care Setting: EHR is sold to Physical Medicine and Rehab clinic which helps them to track visit data for each patient.

3.3.2 Schedule of Key Milestones

Release of documentation for the Real-World Testing to be provided to authorized representatives and providers about how to do data export from Writepad.	December 1, 2021
Begin collection of information as laid out by the plan.	January 1, 2022
Meet with previously identified providers and authorized representatives to ensure that Real World Testing protocols are effective.	February 2022
Follow-up with providers and authorized representatives to understand any issues arising with the data collection.	Quarterly, 2022
Data collection and review.	Quarterly, 2022

End of Real-World Testing period/final collection of all data for analysis.	January 2023
Analysis and report creation.	January 15, 2023
Submit Real World Testing report to ACB (per their instructions)	February 1, 2023

3.3.3 Justification

In this scenario, Writepad exports data to analytics software in the form of CCDA. Data export condition can be change by location and date range. Flow of this scenario focuses on § 170.315.(b)(6) Data Export criterion requirement. The numbers that Writepad will report are number of successful data export patients. The goal of this approach is to demonstrate that both the interoperability and the conformance capabilities of the flow are consistent with the requirements of the § 170.315.(b)(6) data export certification criterion. This will be done through the use cases included in the plan.

3.3.4 Measure Used

Following use case provides an example of a Real-World Testing plan for a single certification criterion, 170.315 (b)(6) Data Export. We have only one-use case which will cover the complete criteria.

Use case

In this use case, Clinic would like to feed the data-to- analytical software to complete its analytics stats. Clinic has hired a new clinic admin to export and analyse reports from stats. He is not able to do data export right now. So, we must enable data export for clinic admin account.

Clinic would like to export CCDS data for last one year for each location. The certified health IT captures all the demographic and clinical information necessary for analytical reporting and then exports the patient data as C-CDA files to be delivered to analytical software. Set export path to CCDA files from where analytical software will read the CCDA files.

3.3.2.1 Testing Methodology

We can keep the log when data export ran, and number of files got exported. If available, we can check the path where those were exported. Log will contain
1. Date range for which the log ran (If available)
2. Number of files exported
3. Clinic Location (if available)
4. Number of files exported.
5. Export Path

3.3.2.2 Test Results

Test Results will be reported in this format.

Date range	Number of files exported	Clinic Location	Export Path

3.3.2.3 Expected Outcome(s)

- Real World Testing will demonstrate that the Writepad is conformant to 170.315.(b)(6) Data Export certification criterion.
- Real World Testing will demonstrate that Writepad is able to export clinical summary for specific date range specified and locations.
- Real World Testing will demonstrate that Writepad permit a user to select a local or network storage location.
- Real World Testing will demonstrate that non authorized user cannot export patient data.
- Real World Testing will demonstrate Writepad able to export more than one patient data.

3.4 170.315. (e)(1) View, Download & Transmit

Details: -

Patients (and their authorized representatives) can view, download, and transmit their health information to a 3rd party via internet-based technology. Information should have min CCDS standard, the provider's name, office contact information, laboratory test report(s), and diagnostic image reports.

We use our own portal called "WriteTouch" to send clinical summary to patient.

3.4.1 Care Setting(s)

Physical Medicine and Rehab Care Setting: EHR is sold to Physical Medicine and Rehab clinic which helps them to track visit data for each patient.

3.4.2 Schedule of Key Milestones

Release of documentation for the Real-World Testing to be provided to authorized representatives and providers about how to achieve measure view, download and transmit.	December 1, 2021
Begin collection of information as laid out by the plan.	January 1, 2022
Meet with previously identified providers and authorized representatives to ensure that Real World Testing protocols are effective.	February 2022
Follow-up with providers and authorized representatives to understand any issues arising with the data collection.	Quarterly, 2022
Data collection and review.	Quarterly, 2022
End of Real-World Testing period/final collection of all data for analysis.	January 2023
Analysis and report creation.	January 15, 2023
Submit Real World Testing report to ACB (per their instructions)	February 1, 2023

3.4.3 Justification

In this scenario, patient request his medical history after the visit. Clinic provides information in the form of CCDA document to Writetouch portal. Patient or authorized user can view, download, and transmit health information to a 3rd party via portal. Flow of this scenario focuses on §

170.315.(e)(1) View, Download & Transmit criterion requirement. The numbers that Writepad will report are number of successful View, Download & Transmit health data by patients. The goal of this approach is to demonstrate that both the interoperability and the conformance capabilities of the flow are consistent with the requirements of the § 170.315.(e)(1) View, Download & Transmit certification criterion. This will be done through the use cases included in the plan.

3.4.4 Measures Used

Following use case provides an example of a Real-World Testing plan for a single certification criterion, 170.315.(e)(1) view, download and transmit. We have only one-use case which will cover the complete criteria.

Use case

In this use case, patient requests his clinic summary after doctor visit. Provider accepts the request and sends CCDA document within 2 business days. Patient receives an email with link to register on Write touch portal. Once he registers from that link, he can see that summary on portal. He wanted to review that, so he downloads summary from portal and view that. Once he views that he decides to forward to medical emergency contact on their email. He goes back to Portal and clicks on upload and send button. Send download file to his emergency contact email address.

3.5.1.2 Testing Methodology

To test this measure, we will have number of patients who clinical summary will be sent within 2 days after visit. Once patient receives it will keep the record of number of people who viewed and download clinical summary. We will keep the track of number if patient sends clinical summary from Writetouch patient portal.

3.5.1.3 Test Results

Test Results will be reported in this format.

Duration	Number of clinical summaries sent	Number of clinical summaries view or downloaded by patient	Number of clinical summaries sent by patient

3.5.1.4 Expected Outcome(s)

- Real World Testing will demonstrate that the Health IT Module is conformant to 170.315.(e)(1) View, Download & Transmit certification criterion.
- Real World Testing will demonstrate that Writepad is able to send clinical summary with minimum CCDS info and provider name and address.
- Real World Testing will demonstrate that Patient can view or download CCDA file from Writetouch Portal.
- Real World Testing will demonstrate that patient can transmit their health information to a 3rd party via email or encrypted email.

3.5 Combine Scenario for 170.315 g.7, g.8 and g.9

Details :

This Scenario provides an example of a Real-World Testing plan for several certification criteria:

- 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

Any 3rd party application needs to contact AHS Support to setup API. Writepad will provide authorization token to 3rd party app.

To cover all the criteria, 2 use cases are required.

3.5.1. Care Setting(s)

Physical Medicine and Rehab Care Setting: EHR is sold to Physical Medicine and Rehab clinic which helps them to track visit data for each patient.

3.5.2 Schedule of Key Milestones

Release of documentation for the Real-World Testing to be provided to authorized representatives and providers about how to do set up Writepad API for 3rd party company. identify patient and get data for that patient.	December 1, 2021
Begin collection of information as laid out by the plan.	January 1, 2022
Meet with previously identified providers and authorized representatives to ensure that Real World Testing protocols are effective.	February 2022
Follow-up with providers and authorized representatives to understand any issues arising with the data collection.	Quarterly, 2022
Data collection and review.	Quarterly, 2022
End of Real-World Testing period/final collection of all data for analysis.	January 2023
Analysis and report creation.	January 15, 2023
Submit Real World Testing report to ACB (per their instructions)	February 1, 2023

3.5.3 Justification

We give API access to billing company to access and query Writepad data.

In this scenario, When Billing link passes the patient details and today's date to API, it will identity patient in Writepad and in response sends back the patient chart for further use. This demonstrates the 170.315.(g)(7) Application Access – Patient selection requirements.

Once patient is identified Billing software can use patient chart and date to get procedure and Diagnosis. This demonstrates the 170.315.(g)(8) Application Access – Data Category request.

Once patient is identified then standalone app can use patient chart and date to get CCDS info. This demonstrates the requirement for 170.315.(g)(9) Application Access – All data request.

The goal of this approach is to demonstrate that both the interoperability and conformance capabilities of the certified technology are consistent with the requirements of the § 170.315(g)(7), (g)(8) and (g) (10) certification criterion. This will be done through the 2 use cases.

3.5.4 Measures Used

3.5.4.1 Use case 1

In this use case, Clinic has decided to use the 3rd party billing company. Billing company requires Patient Diagnosis and Procedure code on daily bases. But clinic does not want to give access to 3rd party person to complete Writepad. So, Billing company decides to use Writepad API and they can query the patient data on daily basis. So, we have different standalone application where 3rd party person can query patient data using Writepad API. Billing person will pass first name (required), last name(required), Hone Phone(required), DOB (required), Zip(required) and in response API will return the Patient chart number. That number they can use to get DX and Procedure code for that patient.

3.5.4.1.1 Testing Methodology

Log data can be obtained during Real World Testing will be de-identified and used for analysis in several areas to validate the proper operation of 170.315.(g)(7) Application Access – Patient selection requirements and 170.315.(g)(8) Application Access – Data Category request.

3.5.4.1.2 Test Results

Test Results will be reported in this format.

Duration	Number of API hit for patient identification	Number of API hit for patient data fetching

3.5.4.1.3 Expected Outcome(s)

- Real World Testing will demonstrate that the Health IT Module is conformant to
  170.315.(g)(7)   Application Access – Patient selection
   170.315.(g)(8)   Application Access – Data Category request
- Real World Testing will demonstrate that Writepad API able to identity the patient correctly from the info provided by 3rd party.
- Real World Testing will demonstrate that Writepad API able to send patient data on category bases with combination of date.

3.5.4.2 Use case 2

In this use case, Clinic has decided to use the 3rd party billing company like use case 1. But in some cases, 3rd party billing company requires more info than procedure and diagnosis to support the claim. But clinic does not want to give access to 3rd party person to complete Writepad. So, we can create a standalone application where 3rd party person can query and get CCDS info using Writepad API. In this case standalone will use the single API call to get complete CCDS info.

Billing person will pass first name (required), last name(required), Hone Phone(required), DOB (required), Zip(required) and in response API will return the patient chart number. That chart number they can use to get CCDS info. And person can see the CCDS info on standalone app.

3.5.3.2.1 Testing Methodology

Log data can be obtained during Real World Testing will be de-identified and used for analysis in several areas to validate the proper operation of 170.315.(g)(9) Application   Access   –   All   data request.

3.5.3.2.2 Test Results

Test Results will be reported in this format.

Duration	Number of API hit for patient identification	Number of API hit for patient data fetching the complete CCDS info

3.5.3.2.3 Expected Outcome(s)

- Real World Testing will demonstrate that the Health IT Module is conformant to 170.315.(g)(9) Application Access – All data request.
- Real World Testing will demonstrate that Writepad API able to identity the patient correctly from the info provided by 3rd party.
- Real World Testing will demonstrate that Writepad API able to send complete CCDS Patient Data with combination of date.