Summary				
This Real World Test (RWT) plan	n is intended to verify the adoption of Online Medical Record, Version 2	2013 certified functionality		l l
	fication criteria, represented as individual user stories for Ambulatory cries that are the same regardless of the care setting	only care settings, Inpatient of	only	
care settings as well as user stor	les that are the same regardless of the care setting			
User Story: Care Coordina	ition			
§ 170.315(b)(1) Transitions of ca	re			
§ 170.315(b)(2) Clinical informati	ion reconciliation and incorporation			
§ 170.315(b)(3) Electronic prescr	ribing			
§ 170.315(b)(6) Data export				
§ 170.315(h)(1) Direct Project				
§ 170.315(e)(1) View, download,				
§ 170.315(f)(1) Transmission to i	· · · · · · · · · · · · · · · · · · ·			
	oublic health agencies — syndromic surveillance			
11111	oublic health agencies — reportable laboratory tests and value/results			
	public health agencies — electronic case reporting			
	oublic health agencies — antimicrobial use and resistance reporting			
§ 170.315(g)(7) Application acce	<u> </u>			
§ 170.315(g)(8) Application acce § 170.315(g)(9) Application acce				
§ 170.515(g)(9) Application acce	35— all data request			
0 1 f + -				
General Information	on			
Developer Name:	Beth Israel Deaconess Medical Center			
Product Name:	Online Medical Record			
Version Number	Online Medical Record v2013			
Certified Health IT Edition:	2015 Edition			
Product List (CHPL) ID:	15.07.07.1147.0N03.01.00.1.200319			
Real World Testing Public URL:	https://www.bidmc.org/omr_rwtest			

Background					
The following elements are addressed for	each User Story (listed above). Ambulat	tory and Inpatient are the care setting	gs where		
Testing methodology: demonstrate real world interoperability include scenario and use case-focused		quirements			
Description:	_				
of how the test is performed of how conformance is demonstrated					
Schedule :					
 of key Real World Testing milestones; 					
Expected Outcomes:					
based on feature adoption in current ye Measurement/ metric:	ear				
all measures used to validate criteria					
Justification for the Health IT Developer's	s Real World Testing approach				
 description of how the measurements/ 	metrics selected reflect the adoption rat	e of each required Real World Testin	g element		
Introduction					
The EHR analyzed in this Real World Test healthcare providers in Ambulatory and Inparansitions of Care, Electronic prescribing,	patient healthcare settings. The workflow	ws in Online Medical Record help use			

The purpose of this testing is to validate the adoption of the current user interface and EHR capabilities and to provide evidence of usability within Online Medical Record v2013. To this end, measures of real world utilization of interoperability features and functionality are captured during the testing.

	Care		Electronic Exchange		
Passed		Passed		Passed	
	§ 170.315(b)(1) Transitions of care		§ 170.315(b)(6) Data export		§ 170.315(h)(1) Direct Project
	§ 170.315(b)(2) Clinical information reconciliation and incorporation				
	§ 170.315(b)(3) Electronic prescribing				
	Patient Engagement		Application Programming Interfaces		
Passed		Passed			
	§ 170.315(e)(1) View, download, and transmit to 3rd party		§ 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		
	Pu	blic He	alth		
D					
Passed					
	§ 170.315(f)(1) Transmission to immunization registries				
			and value/results		
	§ 170.315(f)(f) Transmission to public health agencies — syndromic su § 170.315(f)(3) Transmission to public health agencies — reportable lat § 170.315(f)(5) Transmission to public health agencies — electronic cas § 170.315(f)(6) Transmission to public health agencies — antimicrobial	oratory tests e reporting			

Criteria	Care Setting	Measure	emer	nt Period	Date	Key Milestones
Care Coordination						
C 470 24E/hV4) Transitions of care	Ambulaton 9 Innations	5/1/2023		8/31/2023	May 2022	- Confirm Trading Postory
§ 170.315(b)(1) Transitions of care § 170.315(b)(2) Clinical information reconciliation and incorporation § 170.315(h)(1) Direct Project: from the Electronic Exchange	Ambulatory & Inpatient	5/1/2023	-	8/31/2023	May, 2023	 Confirm Trading Partner Confirm ability to send and receive clinical documents Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment
Category					June, 2023	Care provider selects recipient from directory of Direct addresses and initiates sending of Clinical Document. The user is able to create a C-CDA Release 2.1 that also includes the reason for referral, and the referring or transitioning provider's name and office contact information. C-CDA Care Referral or Referral Note is triggered to send via Direct Protocol
					June, 2023	System creates a C-CDA Release 2.1 Discharge Summary Document that also includes the discharge instructions. System sends Clinical Document to direct address(es) of patient's provider(s)
					June, 2023	Use scorecard to grade C-CDA
					July, 2023	 Care provider in system under test locates clinical document in provider's Tasks Queue or on patient record. Provider confirms that the document is filed on the correct patient or refers it to an HIM queue for review if it is on the wrong patient
					July, 2023	• The care provider reviews the record, and the patient's problems, medications, and medication allergies are merged into the system under test with no duplicates.
					August, 2023	Calculate and compile metrics
§ 170.315(b)(3) Electronic prescribing	Ambulatory & Inpatient	5/1/2023	-	8/31/2023	May, 2023	Confirm Trading Partner Confirm ability to send and receive electronic prescriptions Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment
					June, 2023	Prescription for non-controlled substance is shown in patient's record.
					August, 2023	Calculate and compile metrics
§ 170.315(b)(6) Data export	Ambulatory & Inpatient	6/1/2023	-	8/31/2023	June, 2023	Date and time ranges can be configurable via the UI Targeted Practices can be configurable via the UI Patients exported can be configurable via the UI
					June, 2023	Confirm that file passes scorecard
					July, 2023	Spot-checked C-CDAs pass scorecard
					August, 2023	Calculate and compile metrics
Patient Engagement						
r attent Engagement						
§ 170.315(e)(1) View, download, and transmit to 3rd party	Ambulatory & Inpatient	5/1/2023	-	8/31/2023	May, 2023	Confirm Trading Partner Confirm ability to provide patients timely access to their ePHI Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment
					June, 2023	Patient visits the BIDMC website and requests access to their patient portal. Patient is provided information and an initial password for accessing the patient portal website, and successfully activates their portal account.
					June, 2023	Record validation in the audit log that patient has transmitted the C-CDA via DIRECT or email
					August, 2023	Run Timely Access report in OMR and compare to patient visit report from EHR to determine percentage of patients who had access within 24 hours. Calculate average of survey responses.
Public Health						
§ 170.315(f)(1) Transmission to immunization registries	Ambulatory & Inpatient	5/1/2023	-	8/31/2023	May, 2023	Has a Massachusetts immunization registry that is enabled for bi-directional send/receive of immunization data.
					1 0000	• Already has a functional bi-directional immunization interface or would like to implement one to their registry.
					June, 2023 July, 2023	Validate that immunization interface is functioning as expected Verify immunization data was received in registry for patient A
					July, 2023 July, 2023	Verify immunization data was received in Fegistry for patient A Verify immunization data was received in EHR for patient B
					August, 2023	Calculate and compile metrics
§ 170.315(f)(2) Transmission to public health agencies — syndromic surveillance	Ambulatory & Inpatient	5/1/2023	-	8/31/2023	May, 2023	Syndromic surveillance messages are successfully received and processed by public health agency.
Syndronic surveillance					June, 2023	Functioning HL7 2.5.1 interface to public health agency
					August, 2023	Calculate and compile metrics
§ 170.315(f)(3) Transmission to public health agencies —	Inpatient	5/1/2023	-	8/31/2023	May, 2023	Client test partner selected

reportable laboratory tests and value/results					June, 2023	Lab interface is functioning as expected
					July, 2023	ACK confirmed
					August, 2023	Calculate and compile metrics
§ 170.315(f)(5) Transmission to public health agencies — electronic case reporting	Inpatient	5/1/2023	-	8/31/2023	May, 2023	Confirm Trading Partner Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment
					June, 2023	Patient registered and queued for interface
					August, 2023	
§ 170.315(f)(6) Transmission to public health agencies — antimicrobial use and resistance reporting	Ambulatory & Inpatient	5/1/2023	-	8/31/2023	May, 2023	Confirm Trading Partner Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment
					June 2023	Reports are created
					August, 2023	Using HAI Validator to validate report files
					August, 2023	Calculate and compile metrics
Application Programming Interfaces	6					
ht 2000 1000						
§ 170.315(g)(7) Application access— patient selection § 170.315(g)(8) Application access— data category request	Ambulatory & Inpatient	5/1/2023	-	8/31/2023	May, 2023	Identify partner who will test API using Postman Ensure Postman is configured to access the patient data API, as described here.
§ 170.315(g)(9) Application access— all data request					June, 2023	Encounter is created and visually confirmed
					July, 2023	All data resources are shown in Postman results
					July, 2023	Visually validate Demographics, Problems, Medications and Allergies
					August, 2023	Calculate and compile metrics
Electronic Exchange						
3						
§ 170.315(h)(1) Direct Project (Included with (b)(1) in the CareCoordination Category)	Ambulatory & Inpatient	5/1/2023	-	8/31/2023	SEE CARE COORDINATION	SEE CARE COORDINATION

<u>Table of</u> <u>Contents</u>	Associated Certification Criteria: § 170.315(b)(1) Transition of Care § 170.315(b)(2) Clinical information reconciliation and incorporation § 170.315(h)(1) Direct Project								
	Measure Description: Send and receive Transition of Care (TOC) messages with other providers to close the referral loop. The patient's ePHI will be exchanged using a C-CDA 2.1 Care Referral or Referral Note and DIRECT secure messaging for data transport. Patient data from incoming TOCs will be reconciled with existing data in the EHR including, at minimum, the patient's problems, medications, and medication allergies.	1) Demonstrate a streamlined provider-to 2) eliminate as much risk of data entry er 3) reduce the overall time burden of man 4) ensure private and secure transmission	chose to concentrate on the aspects of this criterion that would: emonstrate a streamlined provider-to-provider patient referrals and transitions of care with the ultimate goal being higher quality patient care liminate as much risk of data entry errors as possible by transmitting patient data securely and electronically rather than relying on manual data entry for referrals educe the overall time burden of manual data entry surure private and secure transmission of patients' PHI essult in increased interoperability between disparate HIT systems.						
			Standards Implemented: N/A						
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031 Care Setting:	Product Info: Product Name: Online Medical Record Product Version: 2013	Methods Use to Demonstrate Interoperability: 1) HISP via Direct Protocol (SMTP) 2) HTTPS via secure provider portal						
	Ambulatory and Inpatient	CHPL ID: 15.07.07.1147.0N03.01.00.1.200319							
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comments:			
1	Identify Trading Partner (TP) and coordinate with TP for sending/receiving clinical documents using production data as described in this RWT plan.	Confirm Trading Partner Confirm ability to send and receive clinical documents Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment	May, 2023						
*	Next 2 steps are for Ambulatory setting only								
2a	Patient A has encounter with care provider and data is captured in EHR	CCDS data elements captured in EHR (system under test)							
3a	Care provider initiates TOC to TP EHR in EHR	Care provider selects recipient from directory of Direct addresses and initiates sending of Clinical Document. The user is able to create a C-CDA Release 2.1 that also includes the reason for referral, and the referring or transitioning provider's name and office contact information. C-CDA Care Referral or Referral Note is triggered to send via Direct Protocol	June, 2023						
	* Next 2 steps are for Inpatient setting only	Provider had an encounter that required a patient was referred or transition to another care setting							
2i	Patient A has inpatient admission and discharge and data is captured in EHR	CCDS data elements captured in EHR (system under test) Care provider completes discharge documentation Patient's provider(s) (PCP, referring MD, etc) captured in EHR Patient is discharged							
3i	System initiates TOC in EHR at discharge	System creates a C-CDA Release 2.1 Discharge Summary Document that also includes the discharge instructions. System sends Clinical Document to direct address(es) of patient's provider(s)	June, 2023						
*	Next steps take place in trading partner's EHR.								

4	Spot check that C-CDA for Patient A contains CCDS data elements.	Use scorecard to grade C-CDA	June, 2023			
5	Trading partner refers Patient B from TP EHR to system under test by generating C-CDA Clinical Document or Referral Note.	Care provider selects recipient from directory of Direct addresses and initiates sending of Clinical Document. Clinical document is sent to system under test.				
6	In system under test, tester acknowledges receipt of valid Clinical Document.	Care provider in system under test locates clinical document in provider's Tasks Queue or on patient record. Provider confirms that the document is filed on the correct patient or refers it to an HIM queue for review if it is on the	July, 2023			
7	In system under test, the incoming data is incorporated via reconciliation into Patient B's existing medical record.	The care provider reviews the record, and the patient's problems, medications, and medication allergies are merged into the system under test with no duplicates.	July, 2023			
8	Calculate and compile metrics		August, 2023			
	Attestation: This Real World Testing plan is complete with all required elements, including measures th All information in this plan is up to date and fully addresses the Health IT Developer's Real		ettings.			
	This Real World Testing plan is complete with all required elements, including measures th All information in this plan is up to date and fully addresses the Health IT Developer's Real Authorized Representative Name: Lawrence Markson		ettings.			
	This Real World Testing plan is complete with all required elements, including measures th All information in this plan is up to date and fully addresses the Health IT Developer's Real		ettings.			
	This Real World Testing plan is complete with all required elements, including measures th All information in this plan is up to date and fully addresses the Health IT Developer's Real Authorized Representative Name: Lawrence Markson		ettings.			
	This Real World Testing plan is complete with all required elements, including measures th All information in this plan is up to date and fully addresses the Health IT Developer's Real Authorized Representative Name: Lawrence Markson Authorized Representative Email: Imarkson@bidmc.harvard.edu		ettings.			
	This Real World Testing plan is complete with all required elements, including measures th All information in this plan is up to date and fully addresses the Health IT Developer's Real Authorized Representative Name: Lawrence Markson Authorized Representative Email: Imarkson@bidmc.harvard.edu Authorized Representative Phone: 617-754-8031		ettings.			
	This Real World Testing plan is complete with all required elements, including measures th All information in this plan is up to date and fully addresses the Health IT Developer's Real Authorized Representative Name: Lawrence Markson Authorized Representative Email: Imarkson@bidmc.harvard.edu Authorized Representative Phone: 617-754-8031 Authorized Representative Signature: Lawrence Markson		ettings.			

<u>Table of</u> <u>Contents</u>	Associated Certification Criteria: § 170.315(b)(6) - Data export								
	Measure Description: Export all available data elements from the Common Clinical Dataset (CCDS) for a population of patients for use in a different health information technology product or a third party system. This export can be used for many purposes, including data portability when a physician practice switches to a new EHR platform.	Justification: We chose to concentrate on the aspects of this criterion that would: 1) demonstrate Online Medical Record's ability to export batches of patien 2) facilitate interoperability by providing the exported data in the form of a Release 2: Consolidated CDA Templates for Clinical Notes (US Realm).			andards as described in the HL7 Implementatio	n Guide for CDA®			
	Metric Description: 1) 100 Percent of exports ran at the correct time. 2) C-CDA count matches actual patient count for requested date range. 3) Spot-checked C-CDAs pass scorecard with average overall grade of "C" or bette		Standards Implemented: N/A						
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031 Care Setting:	Product Info: Product Name: Online Medical Record Product Version: 2013	Methods Use to Demonstrate Interoperability: 1) Visual validation/counting 2) Test output file with C-CDA scorecard to ensure correct format/contents.						
	Inpatient and Ambulatory	CHPL ID: 15.07.07.1147.0N03.01.00.1.200319							
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comment(s):			
1	Identify client and coordinate with client for testing export.	Confirm client Confirm with client that production data will be used, whether in an actual live environment or a copy of a live environment	May, 2023						
2	Using production data in an actual live environment or copy of live environment, demonstrate the ability to configure data export configurations for Timeframe and Location	Date and time ranges can be configurable via the UI Targeted Practices can be configurable via the UI Patients exported can be configurable via the UI	June, 2023						
3	Demonstrate the ability to limit the set of users who can create export summaries	Logging in as an Admin will allow access to the export functionality							
4	Confirm users roles that have been denied export summary access cannot create export summaries	Logging in as a non-Admin will not allow access to the export functionality							
5	Create and validate an export for a single patient	Confirm that file passes scorecard	June, 2023						
6	Create an export summary for data within a entered date and time range	Data was available for the entered date and time range The export summary contained data only within that date and time range							
7	Create an export summary in real time	Spot-checked C-CDAs pass scorecard	July, 2023						
8	Create an export summary based on a relative date and time (Ex. Every first of every month @ 7 AM)	The scheduled export summary would be display and be visually validated							
9	Create an export summary for a specific date/time (Ex. 07/16/2021 @ 3:30 PM)	The scheduled export summary was created successfully The specific date/time would be in the near future so the export could be confirmed							
10	Save the export summary to a preferred location at the time of export.	Saving to a preferred location is allowed Visually confirming the export after save is performed and successful							
11	Calculate and compile metrics		August, 2023						
	Attestation: This Real World Testing plan is complete with all required elements, including me All information in this plan is up to date and fully addresses the Health IT Develo								
	Authorized Representative Name: lawrence Markson								
	Authorized Representative Email: lmarkson@bidmc.harvard.edu								
	Authorized Representative Phone: 617-754-8031								

Authorized Representative Signature: Lawrence Markson		
Date: 11/22/22		
Real World Testing Public URL: https://www.bidmc.org/omrrwt		

<u>Table of</u> <u>Contents</u>	Associated Certification Criteria: 170.315(e)(1) View, Download, and Transmit to 3rd Party								
	Measure Description: Provide patient (and their authorized representatives) user friendly, secure Portal access to their PHI in C-CDA 2.1 HL7 Standard format. Allowing patient to download a summary in both a human readable format and using the CCD document template of the Consolidated CDA Release 2.1 containing: • The provider's name and hospital contact information • Laboratory test report(s) • Diagnostic image report(s)	ePHI.	of this criterion that would empower patients with timely electronic access to comprehensive, use						
	Metric Description: 1) 80 percent of unique patient with encounters in the review period are provided ti encounter) to health information to view online, download, and transmit to a third 2) Average score between 1 and 3 (1=Easy to use, 5=Unable to access) for patients or access the patient portal and responded to survey questions. 3) Average score between 1 and 3 (1=Easy to download/transmit, 5=Unable to down Representatives who accessed the patient portal and tried to download or transmit	party. r Authorized Representatives who tried to alload/transmit) for patients or Authorized							
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031 Care Setting: Ambulatory/Inpatient The functionality for the criteria is the same regardless of the care setting.	Product Info: Product Name: Online Medical Record Product Version: 2013 CHPL ID: 15.07.07.1147.0N03.01.00.1.200319	Methods Use to Demonstrate Interoperability: 1) Direct Protocol Send Functionality 2) SMTP Email Send Functionality 3) HTTPS via secure portal Access for patient from any browser						
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comment(s)			
1	Identify Trading Partner (TP) and coordinate with TP for providing patients timely access to their ePHI using production data as described in this RWT plan.	Confirm Trading Partner Confirm ability to provide patients timely access to their ePHI Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment	May, 2023						
2	For a period of time (1 month), monitor the system as the below steps (3-12) take place continuously.	Many patient visits will occur during the period of time, generating a sufficient amount of data for calculating the metrics at the end of testing.							
3	Patient arrives for a visit	Patient demographics are captured in the EHR							
4	Provider Charts on the Patients health status	CCDS data elements are recorded in EHR							
5	Provider Signs note or patient checks out or is discharged	C-CDA is created and stored in EHR database. A link is made available to the patient via the patient portal.							

6	EHR system generates CCD including all provided CCDS data	Validate that a C-CDA has been triggered. Ensure patient is mapped to the right provider and practice. Visually verify CCDS data sections exist with accurate information Validate code systems and format with ScoreCard or ETT tool for schema validation.		
7	Patient activates Portal	Patient visits the BIDMC website and requests access to their patient portal. Patient is provided information and an initial password for accessing the patient portal website, and successfully activates their portal account.	June, 2023	
8	Patient or authorized representative logs into Portal	URL is provided to patient in an email or the Patient is provided the URL while in the physician's office. Record validation in the audit log that URL is functional		
9	Patient or authorized representative views C-CDA or chooses a date range of CCDs to view	Record validation in the audit log that patient has viewed C-CDA		
	to view	patient has viewed C-CDA		
10	Patient or authorized representative downloads C-CDA their choice of xml or pdf	Record validation in the audit log that patient has downloaded C-CDA		
11	Patient or authorized representative transmits:	Record validation in the audit log that patient has transmitted the C-CDA via DIRECT or email	June, 2023	
í	a C-CDA via Direct Protocol to a provider			
	b C-CDA via email to others			
12	Request survey response on ease of use and accessibility.	Patient or authorized representative provides a score from 1 (easy) to 5 (unable) on the following criteria: • accessing the portal • downloading and/or transmitting ePHI		
13	Calculate and compile metrics	Run Timely Access report in OMR and compare to patient visit report from EHR to determine percentage of patients who had access within 24 hours. Calculate average of survey responses.	August, 2023	
13	Calculate and compile metrics Attestation: This Real World Testing plan is complete with all required elements, including meas All information in this plan is up to date and fully addresses the Health IT Developer	compare to patient visit report from EHR to determine percentage of patients who had access within 24 hours. • Calculate average of survey responses.		
13	Attestation: This Real World Testing plan is complete with all required elements, including meas	compare to patient visit report from EHR to determine percentage of patients who had access within 24 hours. • Calculate average of survey responses.		
13	Attestation: This Real World Testing plan is complete with all required elements, including meas All information in this plan is up to date and fully addresses the Health IT Developer	compare to patient visit report from EHR to determine percentage of patients who had access within 24 hours. • Calculate average of survey responses.		
13	Attestation: This Real World Testing plan is complete with all required elements, including meas All information in this plan is up to date and fully addresses the Health IT Developer Authorized Representative Name: Lawrence Markson	compare to patient visit report from EHR to determine percentage of patients who had access within 24 hours. • Calculate average of survey responses.		
13	Attestation: This Real World Testing plan is complete with all required elements, including meas All information in this plan is up to date and fully addresses the Health IT Developer Authorized Representative Name: Lawrence Markson Authorized Representative Email: Imarkson@bidmc.harvard.edu Authorized Representative Phone: 617-754-8031	compare to patient visit report from EHR to determine percentage of patients who had access within 24 hours. • Calculate average of survey responses.		
13	Attestation: This Real World Testing plan is complete with all required elements, including meas All information in this plan is up to date and fully addresses the Health IT Developer Authorized Representative Name: Lawrence Markson Authorized Representative Email: Imarkson@bidmc.harvard.edu	compare to patient visit report from EHR to determine percentage of patients who had access within 24 hours. • Calculate average of survey responses.		

<u>Table of</u> <u>Contents</u>	Associated Certification Criteria: § 170.315(b)(3) Electronic prescribing									
	Measure Description: Prescription-related electronic transaction: Create, Change, Cancel, Renew, Fill Status, Medication History including Status, Errors and Verification.	Justification: We chose to concentrate on the aspects of this criterion that would demonstrate the importance of the electronic prescription process in terms of patient care. Managing prescriptions electronically, as opposed to handwriting them, helps to ensure medications are accurate and not in conflict with each other by reducing the possibility of human error. Electronic prescribing with two factor authentication allows providers to securely transmit prescriptions for controlled substances.								
	Metric Description: 1. At least 90 percent of all prescriptions are ePrescribed (as opposed to written) 2. Average score between 1 and 3 (1=Easy to use, 5=Unable to access) for each activity (send no acknowledgement of controlled substance)	ew script, change request from pharmacy,	Standards Implemented: • § 170.205(b)(1) NCPDP SCRIPT Standard, Implementation Guide, Version 2017071 • § 170.207(d)(3) RxNorm, September 8, 2015 Full Release Update							
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031	Product Info: Product Name: Online Medical Record Product Version: 2013	Methods Use to E							
	Care Setting: Ambulatory Only	CHPL ID: 15.07.07.1147.0N03.01.00.1.200319								
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comments:				
1	Identify Trading Partner (TP) and coordinate with TP for sending/receiving electronic prescriptions using production data as described in this RWT plan.	Confirm Trading Partner Confirm ability to send and receive electronic prescriptions Confirm with TP that production data will be used, whether in an actual live environment or	May, 2023							
2	Open a patient record and add a prescription order for a non-controlled substance, including primary and secondary diagnoses.	Prescription for non-controlled substance is shown in patient's record.	June, 2023							
3	Select a pharmacy to receive the prescription. Sign the prescription so that the order is sent	Pharmacy confirms receipt of prescription electronically. Primary and Secondary diagnoses are shown with prescription.								
4	Open a patient record and add a prescription order for a controlled substance, including primary and secondary diagnoses.	Prescription for controlled substance is shown in patient's record.								
5	Select a pharmacy.	Pharmacy is selected.								
6	Sign the prescription and initiate two factor authentication.	Care provider confirms two factor authentication is successful. Pharmacy confirms receipt of prescription electronically.								
7	Modify the dosage of the existing non-controlled substance prescription.	Pharmacy shows modified prescription record.								
8	Query the status of the prescription order from within the EHR.	EHR successfully receives fill status.								
9	Pharmacy requests a refill.	Care provider receives and approves refill request.								
10	Calculate and compile metrics		August, 2023							

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.							
Authorized Representative Name: Lawrence Markson							
Authorized Representative Email: lmarkson@bidmc.harvard.edu							
Authorized Representative Phone: 617-754-8031							
Authorized Representative Signature: Lawrence Markson							
Date: 11/22/22							
Real World Testing Public URL: https://www.bidmc.org/omrrwt							

<u>Table of</u> <u>Contents</u>	Associated Certification Criteria: §170.315(f)(1) Transmission to immunization registries							
	Measure Description: Create and transmit immunization information. Enable a user to request, access, and display a patient's evaluated immunization history and the immunization forecast from an immunization registry	Justification: We chose to concentrate on the aspects of this criterion that would provide the moi informing patient care and in cost control through identification of needed immuniz				helpful in directing and		
	Metric Description: 1) 90 percent correct immunization records successfully posted to registry conf 2) 90 percent correct correct immunization history records successfully receive 3) Successful Transmission to Public Health Registry will be reviewed for ACK &	d in EHR confirmed by visual validation.	Standards Implemented: N/A					
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031 Care Setting: Inpatient and Ambulatory	Product Info: Product Name: Online Medical Record Product Version: 2013 3 4 5		Methods Use to Demonstrate Interoperability: 1) SFTP 2) TCP/IP 3) Webservice 4) HL7 Standard Code Set CVX – Vaccine AdministeredOID: 2.16.840.1.113883.12.292 5) National Drug Code Directory OID: 2.16.840.1.113883.6.69 6) SOAP-based standard for transport of immunization data				
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comment(s)		
1	Identify client who: • Already has a functional bi-directional Immunization interface to Massachusetts state registry	Has a Massachusetts immunization registry that is enabled for bi-directional send/receive of immunization data. Already has a functional bi-directional immunization interface or would like to implement one to their registry.	May, 2023					
2	Implement bi-directional immunization interface (if interface not already in place)	Validate that immunization interface is functioning as expected	June, 2023					
3	Determine whether test or production interface will be used.	If production, determine whether an actual patient or a test patient will be used.						
4	Create a new immunization record	 Register a patient or create a new patient "A" in Client EHR and create a current patient encounter. Record an immunization in Client EHR. 						
5	Create a new query	Select a patient or create a new patient "B" in Client EHR and create a current patient encounter. Request immunization record in Client EHR.						
6	Run immunization process to send/receive from registry (assuming process is batch, rather than real-time).	Confirm send/received functionality						
7	Access registry to verify that immunization data was received for patient A.	Verify immunization data was received in registry for patient A	July, 2023					
8	Access EHR to verify that immunization data was received for patient B.	Verify immunization data was received in EHR for patient B	July, 2023					
9	Calculate and compile metrics	See above	August, 2023					
	Attestation: This Real World Testing plan is complete with all required elements, including n All information in this plan is up to date and fully addresses the Health IT Devel							
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	Authorized Representative Finance: 617-734-6031 Authorized Representative Signature: Lawrence Markson							
	Date: 11/22/22							
	Real World Testing Public URL: https://www.bidmc.org/omrrwt							
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<u>Table of</u> <u>Contents</u>	Associated Certification Criteria: §170.315(f)(2) Transmission to public health agencies — syndromic surveillance					
		Justification:				
	Measure Description:			andal.		
	Create syndromic surveillance messages and transmit to public health agencies.	We chose to concentrate on the aspects of this				
		1) Ensure all patients flagged will have health		eillance		
		2) Allow for health threats to be reported faste				
		3) Provide information to the CDC or other reg				d and reported to public health
		agencies, and to mobilize a rapid response, the	ereby reducing m	orbidity and n	nortality.	
	Metric Description:		Standards Imple			
	·	and dead (stelling ACM) because the breaks	1	ementea:		
	1) 95 percent of HL7 Syndromic Surveillance messages successfully sent and ackr	lowledged (via HL7 ACK) by public health	N/A			
	agency					
	Developer Info:	Product Info:	Methods Use to	Demonstrate	Interoperability:	
	Beth Israel Deaconess Medical Center	Product Name: Online Medical Record	1) ICD-10-CM	201101101101		
	300 Brookline Avenue	Product Version: 2013	2) SNOMED CT [®]	•		
	Boston, MA 02215	Troduct Version. 2013	3) SFTP			
	617.754.8031		4) TCP/IP			
			5) Webservice			
	Care Setting:		5) Webservice			
	Ambulatory/Inpatient	CURL IR				
	The functionality for the criteria is the same regardless of the care setting.	CHPL ID:				
		15.07.07.1147.0N03.01.00.1.200319				
				Ven		
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comment(s)
	Identify Trading Partner (TP) and coordinate with TP for transmitting syndromic	Syndromic surveillance messages are				
1	surveillance records to Massachusetts Department of Public Heallth using	successfully received and processed by public	May, 2023			
-	production data as described in this RWT plan.	health agency.				
2	Orand and analytic brooks interfere with MA DDII in in place	Functioning HL7 2.5.1 interface to public health	l 0000			
2	Send-only public health interface with MA DPH is in place.	agency	June, 2023			
3	Identify a Live ED Patient A that has one or more ICD-10 diagnosis codes present	Patient registered and queued for interface				
•	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses	,				
		Ensure messages are de-identified per CDC				
4	Real Time syndromic surveillance process creates HL7 messages when triggered.	PHIN Messaging Guide requirements				
		Messages sent to public health agency				
_		HL7 messages are successfully received and				
5	Check logs for whether HL7 messages ACKed by agency	ACKed				
		Aorea				
6	Check lose to verify that public health data was a series of face a disease.	Public health successfully processed by				
O	Check logs to verify that public health data was received for patient A.	agency				
7	Calculate and compile metrics		August, 2023			
	Attestation:			·		
	This Real World Testing plan is complete with all required elements, including me	asures that address all certification criteria and	care settings.			
	All information in this plan is up to date and fully addresses the Health IT Develop					
		The street storic resums requirements.				
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	Authorized Representative Signature: Lawrence Markson					

	Associated Certification Criteria:								
	§170.315(f)(3) Transmission to public health agencies — reportable laboratory tests and value/results								
	Measure Description: Create and transmit HL7 lab result messages to public health agency.				y provide the most public health benefit.	State agencies provide statistics that can be deven pandemics.			
	Metric Description: 1) 80 percent of HL7 Reportable lab messages successfully sent and acknowledged (via HL)	7 ACK) by public health agency	Standards Implemented: N/A						
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031 Care Setting: Inpatient and Ambulatory	Product Info: Product Name: Online Medical Record Product Version: 2013 CHPL ID:	Methods Use to Demonstrate Interoperability: 1) Table of reportable lab tests based on LOINC® Code						
		15.07.07.1147.0N03.01.00.1.200319							
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comment(s)			
1	Identify client who: • Already has a functional reportable lab (EHR) interface to Massachusetts state registry	Client test partner selected	May, 2023						
2	Implement send-only reportable lab interface (if interface not already in place)	Lab interface is functioning as expected	June, 2023						
3	Determine whether an actual patient or a test patient will be used	Environment and patient selected							
4	Create a new patient encounter and orders for lab tests	Confirm encounter and order							
5	Register a patient or create a new patient "A" in Client EHR and create a current patient encounter	Confirm patient and encounter							
6	Enter one or more orders for laboratory tests	Confirm order(s) are entered							
7	In Client Laboratory Information System (LIS), result these tests.	Confirm tests have been resulted							
8	Make note of the LOINC code(s) for each result to determine whether each code is present in the list of reportable codes.	Record LOINC code(s) and confirm in list of reportable codes							
9	Make sure LIS generates HL7 ORU (Result) messages for each patient who has a lab result	Confirm results messages for each patient and data sent							
10	Verify ACK message received	ACK confirmed	July, 2023						
11	Calculate and compile metrics		August, 2023						
	Attestation: This Real World Testing plan is complete with all required elements, including measures th All information in this plan is up to date and fully addresses the Health IT Developer's Rea		care settings.						
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	Date: 11/22/22								
	Real World Testing Public URL: https://www.bidmc.org/omrrwt								

<u>Table of</u> <u>Contents</u>	Associated Certification Criteria: § 170.315(f)(5) Transmission to public health agencies — electronic case reporting							
	Measure Description: Create Electronic Case Reports (eCR) for transmission to public health agency based on a specific LOINC, ICD-10 and SNOMED codes entered in a patient's encounter. eCR functionality looks up the patient's codes in the table and, if appropriate, sends an eCR message to the health agency.	1	criterion that would provide the most patient care value in an actual setting. Public health ent care, epidemiologists and government for identifying disease outbreaks, epidemics and even					
	Metric Description: 1. 90% of case report spot checks match EHR data for report range		Standards Implemented: N/A					
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031 Care Setting: Inpatient and Ambulatory		2) Use of USCDI					
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comment(s)		
1	Identify Trading Partner (TP) and coordinate with TP for generating electronic case reports.	Confirm Trading Partner Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment	May, 2023					
2	Create patient encounters. • Register patients or create new patients in Client EHR and create a current patient encounter • Enter one or more SNOMED Codes or ICD-10 diagnosis codes present in the Trigger Events table that lists reportable eCR diagnoses	Patient registered and queued for interface	June, 2023					
3	Enter Lab results through EHR or Lab interface. Make sure LOINC codes correspond to codes present in the Trigger Events table that lists reportable LOINC codes.	Patient queued for interface						
4	Run eCR process to send to public health agency (assuming process is batch, rather than real-time).	Messages are generated						
5	Validate messages	Messages are reviewed and compared with data in EHR						
6	Calculate and compile metrics		August, 2023					
	Attestation: This Real World Testing plan is complete with all required elements, including measures of All information in this plan is up to date and fully addresses the Health IT Developer's Re		nd care settings.	1				

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<u>Table of</u> <u>Contents</u>	Table of contents § 170.315(f)(6) Transmission to public health agencies — antimicrobial use and resistance reporting								
	Measure Description: Create antimicrobial use and resistance reports.	Justification: We chose to focus on aspects of this criterion that would demon:	strate the value of u	sing electronic	: health records to generate reports for su	ibmission to public health agencies.			
	Metric Description: 1. 95% of report spot checks match EHR data for report range 2. 95% of reports generated by system validate using HAI Validator	spot checks match EHR data for report range		Standards Implemented: N/A					
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031	Product Info: Product Name: Online Medical Record Product Version: 2013	Methods Use to Demonstrate Interoperability: 1) Table of Trigger Events based on LOINC, ICD-10 and SNOMED codes.						
	Care Setting: Inpatient and Ambulatory	CHPL ID: 15.07.07.1147.0N03.01.00.1.200319							
			Key Milestone	Кеу					
Test Step:	Testing Procedure:	Expected Outcomes:	Date:	Milestone:	Outcomes:	Comments:			
1	Identify Trading Partner (TP) and coordinate with TP for generating electronic antimicrobial use and resistance reports.	Confirm Trading Partner Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment	May, 2023						
2	Generate antimicrobial use and resistance reports	Reports are created	June 2023						
3	Spot check reports	Reports match EHR data for specified date range							
4	Validate reports	Using HAI Validator to validate report files	August, 2023						
5	Calculate and compile metrics		August, 2023						
	Attestation: This Real World Testing plan is complete with all required elements, includi All information in this plan is up to date and fully addresses the Health IT D		j.						
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	Real World Testing Public URL: https://www.bidmc.org/omrrwt								

<u>Table of</u> <u>Contents</u>	Associated 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	Justification:							
	Measure Description: Enable a patient to access their electronic health data. They have had a healthcare encounter with a provider using an EHR that is integrated with an API that is used for secure transmission of PHI. They would like to view the results from that encounter along with the rest of their electronic health record.	nts by providing them with an electronic copy of their health record. We agree that this is very important for patient health in general.							
				Standards Implemented: N/A					
	Developer Info: Beth Israel Deaconess Medical Center 300 Brookline Avenue Boston, MA 02215 617.754.8031	Product Info: Product Name: Online Medical Record Product Version: 2013	Methods Use to Demonstrate Interoperability: 1) API						
	Care Setting: Inpatient and Ambulatory	CHPL ID: 15.07.07.1147.0N03.01.00.1.200319							
est Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone:	Outcomes:	Comment(s)			
1	Identify Trading Partner (TP) and coordinate with TP for providing patients timely access to their ePHI using production data as described in this RWT plan.	Identify partner who will test API using Postman Ensure Postman is configured to access the patient data API, as described here.	May, 2023						
2	Patient A has encounter with care provider who uses EHR described above.	Encounter is created and visually confirmed	June, 2023						
3	Provider captures CCDS data elements in EHR	CCDS data elements are validated in the system	1						
4	Provider manually generates Care/Referral Summary C-CDA post-visit or ensures that the EHR generates one automatically.	C-CDA is confirmed for the specified patient							
5	Partner connects to API using Postman	Postman is able to successfully connect to API							
6	Partner sends request to API to pull all patient data for Patient A	All data resources are shown in Postman results	July, 2023						
7	Partner sends request to API to pull full set of data for a given category for Patient A	Requested category's data resources are shown in Postman results							
8	Partner sends request to API to pull data for Patient A for a specific date and specific date range	Filtering data by a specific date returns data accurately and as expected Filtering data by a specific date range returns data accurately and as expected							
9	Confirm via visual inspection of Postman results that the data for Demographics, Problems, Medications and Allergies matches SUT	Visually validate Demographics, Problems, Medications and Allergies	July, 2023						

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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