Summary			
This Real World Test (RWT) plan is inter	nded to verify the adoption of Online Medical Record, Version 2013	3 certified functionality	
	criteria, represented as individual user stories for Ambulatory only t are the same regardless of the care setting	care settings, Inpatient only	
User Story: Care Coordination			
§ 170.315(b)(1) Transitions of care			
§ 170.315(b)(2) Clinical information reco	onciliation and incorporation		
§ 170.315(b)(3) Electronic prescribing	·		
§ 170.315(h)(1) Direct Project			
§ 170.315(e)(1) View, download, and tra	ansmit to 3rd party		
§ 170.315(f)(1) Transmission to immuniz	zation registries		
§ 170.315(f)(2) Transmission to public h	nealth agencies — syndromic surveillance		
§ 170.315(f)(3) Transmission to public h	nealth agencies — reportable laboratory tests and value/results		
§ 170.315(f)(6) Transmission to public h	nealth agencies — antimicrobial use and resistance reporting		
General Information			
Developer Name: Beth	h Israel Deaconess Medical Center		
Product Name: Onlin	ine Medical Record		
Version Number Onlin	ine Medical Record v2013		
Certified Health IT Edition: 2015	5 Edition Cures Update		
Product List (CHPL) ID: 15.0	07.05.1147.BIDM.01.00.1.230130		
Plan Report ID Number: 2023	31110bet		
Real World Testing Public URL: <u>http:</u>	s://www.bidmc.org/omr_rwtest		
Background			

The following elements are addressed for each User Story (listed above). Ambulatory and Inpatient are the care settings where		
<ul> <li>Testing methodology:</li> <li>demonstrate real world interoperability and conformance to the the criterion requirements</li> <li>include scenario and use case-focused testing</li> </ul>		
<ul> <li>Description:</li> <li>of how the test is performed</li> </ul>		
<ul> <li>of how conformance is demonstrated</li> <li>Schedule :</li> <li>of key Real World Testing milestones;</li> </ul>		
<ul> <li>Expected Outcomes:</li> <li>based on feature adoption in current year</li> </ul>		
Measurement/ metric:     all measures used to validate criteria		
<ul> <li>Justification for the Health IT Developer's Real World Testing approach</li> <li>description of how the measurements/metrics selected reflect the adoption rate of each required Real World Testing element</li> </ul>		
Introduction		
The EHR analyzed in this Real World Test is Online Medical Record, an EHR designed to present medical information to healthcare providers in Ambulatory and Inpatient healthcare settings. The workflows in Online Medical Record help users with Transitions of Care, Electronic prescribing, public health initiatives and patient engagement.		
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.		

Standard	Cures (USCDI v1)
Updated certification criteria and associated product	b1, b2, e1
Health IT Module CHPL ID	15.07.05.1147.BIDM.01.00.1.230130
Method used for standard Update	Cures Update
Date of ONC ACB Notification	12/2/22
Date of customer notification (SVAP only)	N/A
Conformance Measures	b1/b2 - Send and receive Transition of Care (TOC) messages with other providers to close the referral loop for and e1 - Provide patient (and their authorized representatives) user friendly, secure Portal access to their PHI").
USCDI updated certification criteria (and USCDI version)	b1, b2 and e1 - USCDI v 1

	Care C	Coordina	ation		Electronic Exchange
Passed				Passed	
	§ 170.315(b)(1) Transitions of care				§ 170.315(h)(1) Direct Project
	§ 170.315(b)(2) Clinical information reconciliation and incorporation				
	§ 170.315(b)(3) Electronic prescribing				
	Patient Engagement				
Passed					
	§ 170.315(e)(1) View, download, and transmit to 3rd party				
	Pub	lic Healt	th		
Passed					
	§ 170.315(f)(1) Transmission to immunization registries				
	170.315(f)(2)  Transmission to public health agencies — syndromic survey $ 170.315(f)(2)$	eillance			
	170.315(f)(3)  Transmission to public health agencies — reportable labor	•			
	§ 170.315(f)(6) Transmission to public health agencies — antimicrobial us	e and resistan	nce reporting		

Criteria	Care Setting	Measurer	ment Period	Date		Key Milestones
Care Coordination						
		5// 1000 /	0/01/005	11 0001		
§ 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	5/1/2024	- 8/31/2024	May, 2024		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, 2024		<ul> <li>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.</li> <li>C-CDA Care Referral or Referral Note is triggered to send via Direct Protocol</li> </ul>
				June, 2024		<ul> <li>System creates a C-CDA Release 2.1 Discharge Summary Document that also includes the discharge instructions.</li> <li>System sends Clinical Document to direct address(es) of patient's provider(s)</li> </ul>
				June, 2024		Use scorecard to grade C-CDA
				July, 2024		<ul> <li>Care provider in system under test locates clinical document in provider's Tasks Queue or on patient record.</li> <li>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</li> </ul>
				July, 2024		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, 2024		Calculate and compile metrics
§ 170.315(b)(3) Electronic prescribing	Ambulatory & Inpatient	5/1/2024	- 8/31/2024	May, 2024		Confirm Trading Partner
§ 170.515(0)(5) Electronic prescribing	Ambulatory & inpatient	5/1/2024	- 6/31/2024	May, 2024		Confirm Adding 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, 2024		Prescription for non-controlled substance is shown in patient's record.
				August, 2024		Calculate and compile metrics
Patient Engagement						
§ 170.315(e)(1) View, download, and transmit to 3rd party	Ambulatory & Inpatient	5/1/2024	- 8/31/2024	May, 2024		Confirm Trading Partner
3 Troo role/T) view, download, and transmit to ord party	Ambulatory & inpatient	5/1/2024	- 0/3 1/2024	iniay, 202 <del>4</del>		<ul> <li>Confirm ability to provide patients timely access to their ePHI</li> <li>Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment</li> </ul>
				June, 2024		<ul> <li>Patient visits the BIDMC website and requests access to their patient portal.</li> <li>Patient is provided information and an initial password for accessing the patient portal website, and successfully activates their portal account.</li> </ul>
				June, 2024		Record validation in the audit log that patient has transmitted the C-CDA via DIRECT or email
				August, 2024		<ul> <li>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.</li> <li>Calculate average of survey responses.</li> </ul>
Public Health						
Public Health						
§ 170.315(f)(1) Transmission to immunization registries	Ambulatory & Inpatient	5/1/2024	- 8/31/2024	May, 2024		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.
				June, 2024		Validate that immunization interface is functioning as expected
				July, 2024	ŏ	Verify immunization data was received in registry for patient A
				July, 2024	ŏ	Verify immunization data was received in EHR for patient B
				August, 2024	ŏ	Calculate and compile metrics
§ 170.315(f)(2) Transmission to public health agencies —	Ambulatory & Inpatient	5/1/2024	- 8/31/2024	May, 2024		Syndromic surveillance messages are successfully received and processed by public health agency.
syndromic surveillance	,,			June, 2024	ä	Functioning HL7 2.5.1 interface to public health agency
				August, 2024	Ō	Calculate and compile metrics
§ 170.315(f)(3) Transmission to public health agencies —	Ambulatory & Inpatient	5/1/2024	- 8/31/2024	May, 2024		Client test partner selected
reportable laboratory tests and value/results	y			June, 2024	Ö	Lab interface is functioning as expected
				July, 2024		ACK confirmed
				August, 2024	– H	Calculate and compile metrics
§ 170.315(f)(6) Transmission to public health agencies — antimicrobial use and resistance reporting	Ambulatory & Inpatient	5/1/2024	- 8/31/2024	May, 2024		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     environment

				June 2024	Reports are created
				August, 2024	Using HAI Validator to validate report files
				August, 2024	Calculate and compile metrics
Electronic Exchange					
§ 170.315(h)(1) Direct Project (Included with (b)(1) in the CareCoordination Category)	Ambulatory & Inpatient	5/1/2024	- 8/31/2024	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: (b)(1)/(b)(2) - 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.		-to-provider patient referrals and transitions of care with the ultimate goal being higher quality patient care errors as possible by transmitting patient data securely and electronically rather than relying on manual data entry for referrals anual data entry on of patients' PHI						
	1) 90 percent of outbound TOC's successfully received by HISP			Standards Implemented: (b)(1), (b)(2) -CURES Update (h)(1) - N/A					
	Developer Info:         Product Info:           Beth Israel Deaconess Medical Center         Product Name: Online Medical Record           300 Brookline Avenue         Product Version: 2013           Boston, MA 02215         617.754.8031			emonstrate Int Protocol (SMTP e provider por	)				
	Care Setting:		1) MassHiWay Ver	Relied Upon Software: b1 and h1 only L) MassHiWay Version 2.3 2) Communicate Version 2.4					
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, 2024						
*	Next 2 steps are for Ambulatory setting only								
2a	Patient A has encounter with care provider and data is captured in EHR	USCDI v1 data elements captured in EHR (system under test)							
3a	Care provider initiates TOC to TP EHR in EHR	<ul> <li>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.</li> <li>C-CDA Care Referral or Referral Note is triggered to send via Direct Protocol</li> </ul>	June, 2024						
	* 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	USCDI v1 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, 2024						
*	Next steps take place in trading partner's EHR.								

4	Spot check that C-CDA for Patient A contains USCDI v1 data elements.	Use scorecard to grade C-CDA	June, 2024	
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, 2024	
7	In system under test, the incoming data is incorporated via reconciliation into Patient B's existing medical record.	<ul> <li>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.</li> </ul>	July, 2024	
8	Calculate and compile metrics		August, 2024	
	Attestation: This Real World Testing plan is complete with all required elements, including measures the All information in this plan is up to date and fully addresses the Health IT Developer's Real		ettings.	
	Authorized Representative Name: Lawrence Markson			
	Authorized Representative Email: Imarkson@bidmc.harvard.edu			
	Authorized Representative Phone: 617-754-8031			
	Authorized Representative Signature: Lawrence Markson			
	Date: 11/01/23			
	Real World Testing Public URL: <u>https://www.bidmc.org/omr_rwt</u>			

<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)		this criterion that	: would empo	ower patients with timely electroni	c access to comprehensive, useful		
	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 o 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 Iload/transmit) for patients or Authorized	Standards Imple CURES Update	emented:				
	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: 15.07.05.1147.BIDM.01.00.1.230130	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 Relied Upon Software: Infoblox (Version 7.2.13-343491)			<ol> <li>Direct Protocol Send Functionality</li> <li>SMTP Email Send Functionality</li> <li>HTTPS via secure portal Access for patient from any browser</li> <li>Relied Upon Software:</li> </ol>		
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.	<ul> <li>Confirm Trading Partner</li> <li>Confirm ability to provide patients timely access to their ePHI</li> <li>Confirm with TP that production data will be used, whether in an actual live environment or a copy of a live environment</li> </ul>	May, 2024					
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	USCDI v1 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	USCDI v1 data elements are recorded in EHR	Validate that a C-CDA has been triggered.     Ensure patient is mapped to the right provider and practice.     Visually verify USCDI v1 data sections exist with accurate information     Validate code systems and format with ScoreCard or ETT tool for schema validation.		
7	Patient activates Portal	<ul> <li>Patient visits the BIDMC website and requests access to their patient portal.</li> <li>Patient is provided information and an initial password for accessing the patient portal website, and successfully activates their portal account.</li> </ul>	June, 2024	
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	<ul> <li>Validate that a C-CDA has been triggered.</li> <li>Ensure patient is mapped to the right provider and practice.</li> <li>Visually verify USCDI v1 data sections exist with accurate information</li> <li>Validate code systems and format with ScoreCard or ETT tool for schema validation.</li> </ul>	Record validation in the audit log that 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, 2024	
а	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	<ul> <li>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.</li> <li>Calculate average of survey responses.</li> </ul>	August, 2024	
	Attestation: This Real World Testing plan is complete with all required elements, including measu All information in this plan is up to date and fully addresses the Health IT Developer		care settings.	
	Authorized Representative Name: Lawrence Markson			
	Authorized Representative Email: Imarkson@bidmc.harvard.edu			
	Authorized Representative Phone: 617-754-8031			
	Authorized Representative Signature: Lawrence Markson			
	Date: 11/01/23			

<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 Implem	ented:				
	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 D Relied Upon Softv SecureAuth (Versi	vare:	eroperability:			
	Care Setting: Inpatient and Ambulatory	CHPL ID: 15.07.05.1147.BIDM.01.00.1.230130						
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, 2024					
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, 2024					
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, 2024					

T	Attestation: This Real World Testing plan is complete with all required elements, including measures that ad All information in this plan is up to date and fully addresses the Health IT Developer's Real Wor			
A	Authorized Representative Name: Lawrence Markson			
A	Authorized Representative Email: Imarkson@bidmc.harvard.edu			
A	Authorized Representative Phone: 617-754-8031			
A	Authorized Representative Signature: Lawrence Markson			
D	Date: 11/01/23			
R	Real World Testing Public URL: https://www.bidmc.org/omr_rwt			

<u>able of</u> ontents	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 m informing patient care and in cost control through identification of needed immun				es can be very helpful in directing a			
	Metric Description:		Standards Imple	emented:					
	1) 90 percent correct immunization records successfully posted to registry cont	irmed by visual validation.	N/A						
	2) 90 percent correct correct immunization history records successfully receive								
	3) Successful Transmission to Public Health Registry will be reviewed for ACK 8 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) 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         Relied Upon Software:         N/A						
	Inpatient and Ambulatory	CHPLID: 15.07.05.1147.BIDM.01.00.1.230130							
: 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	<ul> <li>Has a Massachusetts immunization registry that is enabled for bi-directional send/receive of immunization data.</li> <li>Already has a functional bi-directional immunization interface or would like to implement one to their registry.</li> </ul>	May, 2024						
2	Implement bi-directional immunization interface (if interface not already in place)	Validate that immunization interface is functioning as expected	June, 2024						
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, 2024						
8	Access EHR to verify that immunization data was received for patient B.	Verify immunization data was received in EHR for patient B	July, 2024						
9	Calculate and compile metrics	See above	August, 2024						
	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: Imarkson@bidmc.harvard.edu								
	Authorized Representative Phone: 617-754-8031								
	Authorized Representative Signature: Lawrence Markson								
	Date: 11/01/23								
	Real World Testing Public URL: https://www.bidmc.org/omr_rwt								

<u>Table of</u> <u>Contents</u>	Associated Certification Criteria:					
contents	§170.315(f)(2) Transmission to public health agencies — syndromic surveillance Measure Description:	Justification:	_	_		
	Create syndromic surveillance messages and transmit to public health agencies.	We chose to concentrate on the aspects of this	s criterion that w	ould:		
		1) Ensure all patients flagged will have health				
		2) Allow for health threats to be reported faste				
		3) Provide information to the CDC or other reg				rmed and reported to public health
		agencies, and to mobilize a rapid response, the	ereby reducing m	orbidity and m	iortality.	
	Metric Description:		Standards Imple	mented:		
	1) 95 percent of HL7 Syndromic Surveillance messages successfully sent and ack	nowledged (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			
	300 Brookline Avenue Boston, MA 02215	Product Version: 2013	2) SNOMED CT 3) SFTP	9		
	617.754.8031		4) TCP/IP			
	Care Setting:		5) Webservice			
	Ambulatory/Inpatient					
	The functionality for the criteria is the same regardless of the care setting.	CHPL ID:	Relied Upon Sol	tware:		
		15.07.05.1147.BIDM.01.00.1.230130	N/A			
Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone	Кеу	Outcomes:	Comment(s)
Test Step:			Date:	Milestone:	Outcomes:	comment(s)
1	Identify Trading Partner (TP) and coordinate with TP for transmitting syndromic surveillance records to Massachusetts Department of Public Heallth using	Syndromic surveillance messages are successfully received and processed by public	May 2024			
I	production data as described in this RWT plan.	health agency.	Way, 2024			
2	Send-only public health interface with MA DPH is in place.	Functioning HL7 2.5.1 interface to public health	June, 2024			
~		agency				
_	Identify a Live ED Datiant A that has any armore ICD 10 diagonatic and a present					
3	Identify a Live ED Patient A that has one or more ICD-10 diagnosis codes present in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses	Patient registered and queued for interface				
3	Identify a Live ED Patient A that has one or more ICD-10 diagnosis codes present in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses	Patient registered and queued for interface				
3	Identify a Live ED Patient A that has one or more ICD-10 diagnosis codes present in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses	· · ·				
	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses	Ensure messages are de-identified per CDC				
3	Identify a Live ED Patient A that has one or more ICD-10 diagnosis codes present in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses Real Time syndromic surveillance process creates HL7 messages when triggered.	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements				
	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements     Messages sent to public health agency				
	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements     Messages sent to public health agency HL7 messages are successfully received and				
4	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses Real Time syndromic surveillance process creates HL7 messages when triggered.	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements Messages sent to public health agency HL7 messages are successfully received and ACKed				
4	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses Real Time syndromic surveillance process creates HL7 messages when triggered.	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements     Messages sent to public health agency HL7 messages are successfully received and ACKed Public health successfully processed by				
4 5	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses Real Time syndromic surveillance process creates HL7 messages when triggered. Check logs for whether HL7 messages ACKed by agency	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements Messages sent to public health agency HL7 messages are successfully received and ACKed				
4 5	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses Real Time syndromic surveillance process creates HL7 messages when triggered. Check logs for whether HL7 messages ACKed by agency	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements     Messages sent to public health agency HL7 messages are successfully received and ACKed Public health successfully processed by	August, 2024			
4 5 6	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses Real Time syndromic surveillance process creates HL7 messages when triggered. Check logs for whether HL7 messages ACKed by agency Check logs to verify that public health data was received for patient A. Calculate and compile metrics	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements     Messages sent to public health agency HL7 messages are successfully received and ACKed Public health successfully processed by	August, 2024			
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4 5 6	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses Real Time syndromic surveillance process creates HL7 messages when triggered. Check logs for whether HL7 messages ACKed by agency Check logs to verify that public health data was received for patient A. Calculate and compile metrics 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	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements     Messages sent to public health agency HL7 messages are successfully received and ACKed Public health successfully processed by agency ensures that address all certification criteria and				
4 5 6	in the Triggers event table that lists reportable Syndromic Surveillance Diagnoses Real Time syndromic surveillance process creates HL7 messages when triggered. Check logs for whether HL7 messages ACKed by agency Check logs to verify that public health data was received for patient A. Calculate and compile metrics 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: Imarkson@bidmc.harvard.edu	Ensure messages are de-identified per CDC PHIN Messaging Guide requirements     Messages sent to public health agency HL7 messages are successfully received and ACKed Public health successfully processed by agency ensures that address all certification criteria and				
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Date: 11/01/23			
Real World Testing Public URL: https://www.bidmc.org/omr_rwt			

	Associated Certification Criteria:					
	§170.315(f)(3) Transmission to public health agencies — reportable laboratory tests and va	lue/results				
					ly provide the most public health benefit. State agencies provide statistics that can be lentifying disease outbreaks, epidemics and even pandemics.	
	Metric Description: 1) 80 percent of HL7 Reportable lab messages successfully sent and acknowledged (via HL7	ACK) by public health agency	Standards Imple N/A	emented:		
	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:		ortable lab te	te Interoperability: ests based on LOINC <sup>®</sup> Code	
		15.07.05.1147.BIDM.01.00.1.230130	Kou Bdilastone			
st 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, 2024			
2		Lab interface is functioning as expected	June, 2024			
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, 2024			
11	Calculate and compile metrics		August, 2024			
	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: Imarkson@bidmc.harvard.edu					
	Authorized Representative Phone: 617-754-8031					
	Authorized Representative Signature: Lawrence Markson					
	Date: 11/01/23					
	Real World Testing Public URL: https://www.bidmc.org/omr_rwt					

I	Measure Description:	Justification:						
	Create antimicrobial use and resistance reports. We chose to focus on aspects of this criterion that would demonstrate the value of using electronic health records to generate reports for submission to public health agencies.							
	Metric Description:		Standards Implemented: N/A					
	1. 95% of report spot checks match EHR data for report range 2. 95% of reports generated by system validate using HAI Validator							
	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. Relied Upon Software: N/A					
	Care Setting: Inpatient and Ambulatory	CHPL ID: 15.07.05.1147.BIDM.01.00.1.230130						
Cham.	Tastian Duran duran	Emerated Outcomerce	Key Milestone	Кеу	Outcomen	Commenter		
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, 2024					
2	Generate antimicrobial use and resistance reports	Reports are created	June 2024					
3	Spot check reports	Reports match EHR data for specified date range						
4	Validate reports	Using HAI Validator to validate report files	August, 2024					
5	Calculate and compile metrics		August, 2024					
	Attestation: This Real World Testing plan is complete with all required elements, int All information in this plan is up to date and fully addresses the Health Authorized Representative Name: Lawrence Markson		35.					
	Authorized Representative Email: Imarkson@bidmc.harvard.edu							
	Authorized Representative Phone: 617-754-8031							
	Authorized Representative Signature: Lawrence Markson							
	Date: 11/01/23							