Associated Certification Criteria: §170.315(f)(1) Transmission to immunization registries
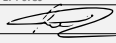
Measure Description:	Justification:
Create and transmit immunization information. Enable a user to request, access, and display a patient's evaluated immunization history and the immunization forecast from an immunization registry	We chose to concentrate on the aspects of this criterion that would provide the most patient care value in an actual setting. Immunization registries can be very helpful in directing and informing patient care and in cost control through identification of needed immunizations and elimination of redundant immunizations. In our experience, most immunization registries do not yet have the ability to handle a bi-directional query/response type of interface. That's why we offered the Alternate Test Approach.

Metric Description:	Standards Implemented:
1) 100 percent correct immunization records successfully posted to registry confirmed by visual validation. 2) 100 percent correct correct immunization history records successfully received in EHR confirmed by visual validation. 3) Successful Transmission to Public Health Registry will be reviewed for ACK & NAK to ensure 100% successful transmission.	• § 170.205(e)(4) HL7 2.5.1 Implementation Specifications. HL7 2.5.1 Implementation Guide for Immunization Messaging, Release 1.5, October 2014 • HL7 Version 2.5.1 Implementation Guide for Immunization Messaging (Release 1.5)—Addendum, July 2015§ 170.207(e)(3) HL7 Standard Code Set CVX— Vaccines Administered, updates through August 17, 2015 • § 170.207(e)(4) National Drug Code (NDC) Directory– Vaccine NDC Linker, updates through August 17, 2015

Developer Info:	Product Info:	Methods Use to Demonstrate Interoperability:
Empower Systems 1200 Harger Road, Suite 408 Oak Brook, IL 60523 (305)766-3245 Care Setting: Inpatient Real World Testing URL: https://www.empower.md/real-world-testing/	Product Name: Empower Inpatient+Ambulatory Product Version: 1.1.57 CHPL ID: 15.04.04.2918.Empo.01.01.1.230726	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: HL7Connect(Kestral)

Test Step:	Testing Procedure:	Expected Outcomes:	Key Milestone Date:	Key Milestone: Outcomes:	Comment(s)
1	Identify Trading Partner (TP) and coordinate with TP for transmitting immunization records using production data as described in this RWT plan.	• Has a state 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. • If we are unable to find a Client that meets these criteria, we will use the Alternate Test Procedure (see below).	May, 2024	FALSE	
2	Implement bi-directional immunization interface (if interface not already in place)	Validate that immunization interface is functioning as expected	June, 2024	FALSE	
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	FALSE	
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	FALSE	
9	Calculate and compile metrics	See above	August, 2024	FALSE	
*	Alternate Test Procedure (Bi-Directional Interface to Registry Not Available)				
1	Identify Trading Partner (TP) and coordinate with TP for transmitting immunization records using production data as described in this RWT plan.	• Has a state immunization registry that can receive immunization data • Already has a functional immunization interface or would like to implement one to their registry	May, 2024	FALSE	
2	Implement send-only immunization interface (if interface not already in place).	Validate that immunization interface is functioning as expected	June, 2024	FALSE	
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	Run immunization process to send to registry (Note: This is an optional step for batch process registry transmission, rather than real-time).	Confirm immunization process			
6	Access registry to verify that immunization data was received for patient A.	Verify that immunization data was received for patient A	July, 2024	FALSE	
7	Calculate and compile metrics		August, 2024	FALSE	

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