Description

The EHR allows the provider to select the patients that will be seen in the clinic for the day. Anita Francesca Marina is one of these patients, and a query will be sent to the registry to retrieve her vaccine history.

Querying the registry will consist of the vendor creating a Z44 message for Anita Francesca Marina.

Using the Z42 Response to Immunization Registry Query, the EHR displays the Evaluated History and Forecast to the user for reconciliation and update. The vendor will receive information back from the registry and show the ability to view and reconcile, and import the information returned by the registry. This test will also look at the system's ability to view the vaccine recommendation returned by the registry and create a new recommendation after reconciling the information.

Comments

No Comments

Pre-condition

Anita Francesca Marina is entered as a patient in the EHR with complete Demographic data, Immunization History Data, and Clinical Data according to the steps in the Anita Francesca Marina Initial Data Load.

Post-Condition

A Z44 Query is generated and submitted to the Immunization Registry/Test tool, and a Z42 response is returned.

Test Objectives

Select One or More Patients: The EHR or other clinical software system must allow a provider to specify one or more patients in real time or those scheduled for appointment(s) in the future (e.g., the next day, week, month, etc.) so that a request can be sent to the public health immunization registry for each patient's complete immunization history.

Select New Patient: The EHR or other clinical software system must allow a user to distinguish information about patients with similar names or identifying information in order to select the right patient from the providers' EHR or other clinical software. This information is crucial for identifying and selecting the correct patient. For example, twins living in the same household will have similar dates of birth, addresses, and may have similar sounding names. In order to match patients with those already in the immunization registry, the EHR or other clinical software should have the ability to record the mother's maiden name, whether the patient was part of a multiple birth, and if so, the order of birth (when such information is available). The provider should be aware of how often the protection indicator information must be updated based on local rules.

Request/Receipt of Patient Immunization History: The EHR or other clinical software system sends a request to the public health immunization registry "on demand," or in advance for those with scheduled appointments. The request includes the identifying information the immunization registry needs to match each patient with those in the registry including, if present, the mother's maiden name, a multiple birth indicator, and the birth order. The request also is sent in a pre-determined format the registry can read and interpret (Request Evaluated Immunization History and Forecast (Z44) - HL7 version 2.5.1 Implementation Guide for Immunization Messaging Release 1.5).

Request/Receive Patient Immunization Data and Identify Source: The EHR or other clinical software system stores immunization history accepted electronically from other sources (such as a public health immunization registry consistent with HL7 version 2.5.1, Implementation Guide for Immunization Messaging Release 1.5) or communicated by the patient and manually entered by the clinician. When viewing such information, the provider can determine which immunizations were administered by the practice, which were entered historically as patient-reported, and which were accepted electronically from the public health registry.

View Reconciled Immunization Forecast: The EHR or other clinical software system has the ability to re-evaluate and update the immunization forecast using a patient's newly updated immunization history. Forecasts are updated following reconciliation of immunization data contained in the public health immunization registry with immunization data contained in the EHR. Processing the new forecast can be internal to the EHR or it can use an external forecasting service, but should reference the most recent recommendations.

Review Patient Immunization History: The EHR or other clinical software system displays vaccine history by vaccine series.

Evaluation Criteria

Evaluation criteria is defined within each test step.

Notes

No Note