

## Description

The Immunization Registry returns an Evaluated History and Forecast (Z42) to the EHR in response to the query for patient (Juana Mariana Vazquez). The provider reviews the immunization history from the registry and compares to the immunization history in the EHR. The provider reviews the information from these sources, identifying information known only to the registry, and identifying information that is more accurately reflected in the local EHR:

The physician accesses the record for Juana Mariana Vazquez and the EHR differentiates:

The following vaccinations are available only to the EHR:

diphtheria, tetanus toxoids and acellular pertussis vaccine, 5 pertussis antigens (CVX 106) administered 11/20/2021

poliovirus vaccine, inactivated (CVX 10) administered 2/21/2019, -- Adverse Reaction: febrile seizure (e.g. Simple febrile seizure (finding) 432354000) VXC11^convulsions (fits, seizures) within 72 hours of dose^CDCPHINV)

Influenza, injectable, quadrivalent, preservative free (CVX 150) administered 10/15/2021

The EHR differentiates the following vaccinations which differ between the EHR and the IIS:

For the hepatitis B vaccine, pediatric or pediatric/adolescent dosage (CVX 08) administered 12/20/2017, that EHR displays different text for the IIS (which documents a Non-specific formulation) and EHR (which documents hepatitis B vaccine, pediatric or pediatric/adolescent dosage) for Vaccine administered

The EHR differentiates the following vaccinations that are available from both the IIS that and the local EHR:

measles, mumps, rubella virus vaccine (CVX 03) administered 8/22/2018 (an invalid dose)

The EHR differentiates the following vaccinations that are available from the IIS that are not known to the local EHR:

hepatitis B vaccine, pediatric or pediatric/adolescent dosage (CVX 08) administered 11/01/2017

hepatitis B vaccine, pediatric or pediatric/adolescent dosage (CVX 08) administered 05/20/2018

diphtheria, tetanus toxoids and acellular pertussis vaccine, 5 pertussis antigens (CVX 106) administered 1/22/2018

diphtheria, tetanus toxoids and acellular pertussis vaccine, 5 pertussis antigens (CVX 106) administered 3/23/2018

diphtheria, tetanus toxoids and acellular pertussis vaccine, 5 pertussis antigens (CVX 106) administered 5/22/2018

diphtheria, tetanus toxoids and acellular pertussis vaccine, 5 pertussis antigens (CVX 106) administered 2/21/2019

Haemophilus influenzae type b vaccine, PRP-OMP conjugate (CVX 49) administered 1/22/2018

Haemophilus influenzae type b vaccine, PRP-OMP conjugate (CVX 49) administered 3/23/2018

Haemophilus influenzae type b vaccine, PRP-OMP conjugate (CVX 49) administered 5/22/2018

Haemophilus influenzae type b vaccine, PRP-OMP conjugate (CVX 49) administered 11/21/2018

poliovirus vaccine, inactivated (CVX 10) administered 1/22/2018

poliovirus vaccine, inactivated (CVX 10) administered 3/23/2018

pneumococcal conjugate vaccine, 13 valent (CVX 133) administered 1/22/2018

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|----------------------------------------------------------------------------------------------------|
| pneumococcal conjugate vaccine, 13 valent (CVX 133) administered 3/23/2018                         |
| pneumococcal conjugate vaccine, 13 valent (CVX 133) administered 5/22/2018                         |
| pneumococcal conjugate vaccine, 13 valent (CVX 133) administered 1/11/2019                         |
| rotavirus, live, monovalent vaccine (CVX 119) administered 1/22/2018                               |
| rotavirus, live, monovalent vaccine (CVX 119) administered 3/23/2018                               |
| Influenza, injectable, quadrivalent, preservative free (CVX 150) administered 9/25/2018            |
| Influenza, injectable, quadrivalent, preservative free (CVX 150) administered 10/29/2018           |
| Influenza, injectable, quadrivalent, preservative free (CVX 150) administered 10/2/2019            |
| Influenza, injectable, quadrivalent, preservative free (CVX 150) administered 11/4/2020            |
| hepatitis A vaccine, pediatric/adolescent dosage, 2 dose schedule (CVX 83) administered 11/23/2018 |
| hepatitis A vaccine, pediatric/adolescent dosage, 2 dose schedule (CVX 83) administered 5/23/2019  |
| measles, mumps, rubella virus vaccine (CVX 03) administered 9/22/2021                              |
| Varicella virus vaccine (CVX 21) administered 12/15/2019                                           |

Comments

No Comments

Pre-condition

Juana Mariana Vazquez Initial Data Load is completed.

Juana Mariana Vazquez is the active working patient in the EHR.

A Z44 query has been submitted to the Immunization Registry and a Z42 response is provided back to the EHR.

Post-Condition

Evaluated Immunization History returned from the registry is reviewed and compared to the immunizations in the patient record (Juana Mariana Vazquez).

Test Objectives

**Request/Receive Patient Immunization Data and Identify Source:** The EHR 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.

**Compare Public Health Immunization Registry (IIS) Immunization History to EHR Immunization History:** The public health immunization registry has returned the requested immunization history for a patient (Return Evaluated Immunization History and Forecast (Z42) – HL7 Version 2.5.1 Implementation Guide for Immunization Messaging Release 1.5). The EHR is able to display the evaluated immunization history received from the registry as well as the immunization history already present in the EHR so that a user can compare them. The EHR provides a way for the provider to view both histories, determine what is different (if anything), and update the existing EHR immunization history with new information from the public health registry if they choose to do so. The system must store the new information as structured data as part of the patient's local immunization history and include the time of the update and the source of the new information.

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

Support for:

**Receive Dose Not Indicated Alert for Single Vaccine Order:** The EHR or other clinical software system notifies the provider in instances when there are single or combination vaccine orders that are inconsistent with the expected timing intervals included in the vaccine forecast. Inconsistencies include suggestion of different date(s) for ordering the vaccine(s) or indication the vaccine(s) is/are no longer required.

Evaluation Criteria

1. The EHR is able to receive the response from the Immunization Registry.
2. The EHR displays the information returned from the Immunization Registry according to the Juror Document.
  - Complete review for Polio administered 3/23/2018, MMR 8/22/2018.
  - remaining vaccines may be reviewed only for the vaccine name and date administered.
3. The EHR is able to differentiate the vaccines in the comparison between the EHR and the vaccination history.

#### Notes

The juror document also contains the verification content for the immunization forecast, which is tested and graded separately at step 5: View the vaccination history for Juana Mariana Vazquez. The criteria for this step is tested separately here and graded only with respect to the vaccine history.

The EHR must minimally display the vaccine administered and the date of the immunization.