Description

The EHR vendor attempts to enter demographic data for new adult patient Anita Francesca Marina. These data quality checks primarily relate to improving patient matching information that will be included when submitting data to the immunization registry or when querying the immunization registry.

Comments

Evaluates EHR functions for verifying data quality of demographic data used for patient matching. There is no transaction associated with this test step.

Pre-condition

No Pre-Condition

Post-Condition

The EHR has alerted the provider for each of the data quality checks verified for Anita Francesca Marina.

Test Objectives

Data Quality Checks: Integrate additional data quality checks into IIP Testing and Recognition to improve data quality and reduce rejections.

Note: The EHR or other clinical software system prevents specific data issues which would potentially result in IIS errors as defined by the AIRA Error Codes. This supports reducing data quality issues that could trigger the following AIRA-defined Error Codes:

  - 2002 : Indicates that the date of birth messaged in PID-7 is after the date of death messaged in PID-29.

  - 2100 : Indicates that any date field is in the future. Specific errors for date transmitted in an OBX are also provided.

  - 2202 : Indicates individual components of the address are valid, but overall, the address is invalid (conflict between elements, non-existent address, etc)

  - 2007: Indicates a conflict between PID-29 and PID-30 or between PD1-16 and either PID field. In other words, one element indicates the patient is deceased and another element indicates the patient is not deceased.

  - 2306 : Indicates that the patient found is too old.

Evaluation Criteria

Evaluation Criteria: During the course of data entry for information below, the EHR triggers the following data quality issues:

1. Triggers Error that patient is too old (2306)
2. Triggers error indicating, conflict: one element indicates the patient is deceased and another element indicates the patient is not deceased. (2207)
3. Triggers Error that the birth date is after the death date (2002)
4. Triggers conflict in address (Zip inconsistent with city and state) (2202)

Patient ID (previously listed as "Medicaid Number")	Vendor supplied	N
Patient ID: Assigning Authority ID (i.e., owning source)/Facility Name	Metro Primary Care	N
Patient ID: Type (e.g., medical record number, IIS ID)	Vendor supplied	N
Patient Name: First	Anita	N
Patient Name: Middle	Francesca	N
Patient Name: Last	Marina	N
Patient Date of Birth	06/01/1885	Y - Triggers Error that patient is too old (2306)
Corrected Date of Birth	06/01/1995	Y

Death Indicator	Not Deceased	Y - Triggers error indicating, conflict: one element indicates the patient is deceased and another element indicates the patient is not deceased. (2207)
Patient Death Date	12/01/1990	Y - Triggers Error that the birth date is after the death date (2002)
Birth Time	N/A	N
Patient Gender (Administrative Sex)	F	N
Patient Multiple Birth Indicator	No	N
Patient Birth Order	1	N
Responsible Person Name: First	Anita	N
Responsible Person Name: Middle	Francesca	N
Responsible Person Name: Last	Marina	N
Responsible Person Name: Maiden Last	N/A	N
Responsible Person Name: Relationship to Patient	Self	N
Mother's Name: First	Sophia	N
Mother's Name: Middle	Serena	N
Mother's Name: Last	Santos	N
Mother's Name: Maiden Last	Ramirez	N
Patient Address: Street	4623 Standish Way	N
Patient Address: City	Stamford	Y - Triggers conflict in address with ZIP (2202)
Patient Address: State	CT	Y - Triggers conflict in address with ZIP (2202)
Patient Address: Country	USA	N
Patient Address: Zipcode	96903	Y - Triggers conflict in address with City and State (2202)
Patient Address: County of Residence	Fairfield	N
Race	White	N
Ethnicity	Hispanic or Latino	N
Birthing Facility Name	N/A	N
Birth Delivery Location Address (BDL)	N/A	N
Patient Birth State	CT	N
Patient Primary Language	English	N
Patient Telephone Number	(203) 555-1215	N
Patient Telephone Number Type (e.g., home, cell)	cell	N
Patient E-mail Address	Proctor Supplied	N
Publicity Code	Reminder/recall - any method (02 HL70215)	N
Protection Indicator	N	N

Protection Indicator Effective Date	06/1/2025	Y - Triggers error that date is in the future (2100)
Immunization Registry Status	NA	N
Preferred Contact Method	email	N

Notes
The full demographic details are provided here to facilitate the documentation constraints and/or screens that may be required by the vendor in order to attempt to document the data of interest, but these are not verified until the next step. The Anita Francesca email supplied should be provided by the test proctor so they can receive the patient notifications. For the purpose of internal Vendor testing they can use their own emails.