

QDM-87: Representation of Immunizations

- **QDM represents immunizations using Medication datatypes**
 - QRDA Cat I supports this via a workaround (*nullFlavor / translation*)
 - Causes “misalignment” with C-CDA R2
- **C-CDA R2 distinguishes between Medication and Immunization**
 - Medication Activity (*using RxNorm codes*)
 - Immunization Activity (*using CVX codes*)
- **FHIR distinguishes between Medication and Immunization**
 - Medication, MedicationPrescription, MedicationAdministration, MedicationDispense, MedicationStatement
 - Immunization, ImmunizationRecommendation

Proposed Immunization Datatypes

Immunization represents vaccines administered to patients in healthcare settings, but does not include non-vaccine agents.

Datatype	Definition	Attributes
Immunization, Administered	Data elements that meet criteria using this datatype should document that the vaccine indicated by the QDM category and its corresponding value set was actually administered to the patient.	<ul style="list-style-type: none"> • Dose • Negation Rationale • Patient Preference • Provider Preference • Reason • Reported • Route • Start Datetime • Stop Datetime
Immunization, Allergy	Data elements that meet criteria using this datatype should document an immunologically mediated reaction that exhibits specificity and recurrence on re-exposure to the offending vaccine indicated by the QDM category and its corresponding value set.	<ul style="list-style-type: none"> • Reaction • Start Datetime • Stop Datetime
Immunization, Intolerance	Data elements that meet criteria using this datatype should document a reaction in specific patients representing a low threshold to the normal pharmacological action of the vaccine indicated by the QDM category and its corresponding value set.	<ul style="list-style-type: none"> • Reaction • Start Datetime • Stop Datetime
Immunization, Order	Data elements that meet criteria using this datatype should document a request for the immunization indicated by the QDM category and its corresponding value set. NOTE: The start and stop <u>datetime</u> of Immunization, Order reflects the "author time" of the record in QRDA. This corresponds to when the order was signed.	<ul style="list-style-type: none"> • Active Datetime • Dose • Negation Rationale • Patient Preference • Provider Preference • Reason • Route • Signed Datetime • Start Datetime • Stop Datetime