## 4.13.6 Resource Immunization - Formal Definitions

Formal definitions for the elements in the immunization resource.

|  |  |
| --- | --- |
| **Immunization** | |
| Definition | Immunization event information. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| **Immunization.identifier** | |
| Definition | A unique identifier assigned to this adverse reaction record. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Identifier](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "Identifier) |
| **Immunization.date** | |
| Definition | Date vaccine administered or was to be administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [dateTime](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "dateTime) |
| **Immunization.vaccineType** | |
| Definition | Vaccine that was administered or was to be administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | VaccineType : The type of vaccine administered ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\v3\\vs\\VaccineType\\index.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [CodeableConcept](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "CodeableConcept) |
| **Immunization.subject** | |
| Definition | The patient to whom the vaccine was to be administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Patient](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\patient.html" \l "Patient)) |
| **Immunization.refusedIndicator** | |
| Definition | Indicates if the vaccination was refused. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [boolean](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "boolean) |
| **Immunization.reported** | |
| Definition | True if this administration was reported rather than directly administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [boolean](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "boolean) |
| Comments | May need source of reported info (e.g. parent), but leave out for now. |
| **Immunization.performer** | |
| Definition | Clinician who administered the vaccine. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Practitioner](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\practitioner.html" \l "Practitioner)) |
| **Immunization.requester** | |
| Definition | Clinician who ordered the vaccination. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Practitioner](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\practitioner.html" \l "Practitioner)) |
| Comments | Other participants - delegate to Provenance resource. |
| **Immunization.manufacturer** | |
| Definition | Name of vaccine manufacturer. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Organization](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\organization.html" \l "Organization)) |
| **Immunization.location** | |
| Definition | The service delivery location where the vaccine administration occurred. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Location](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\location.html" \l "Location)) |
| **Immunization.lotNumber** | |
| Definition | Lot number of the vaccine product. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [string](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "string) |
| **Immunization.expirationDate** | |
| Definition | Date vaccine batch expires. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [date](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "date) |
| **Immunization.site** | |
| Definition | Body site where vaccine was administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | ImmunizationSite : ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\valueset-immunization-site.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [CodeableConcept](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "CodeableConcept) |
| **Immunization.route** | |
| Definition | The path by which the vaccine product is taken into the body. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | ImmunizationRoute : ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\valueset-immunization-route.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [CodeableConcept](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "CodeableConcept) |
| **Immunization.doseQuantity** | |
| Definition | The quantity of vaccine product that was administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Quantity](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "Quantity) |
| **Immunization.explanation** | |
| Definition | Reasons why a vaccine was administered or refused. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| **Immunization.explanation.reason** | |
| Definition | Reasons why a vaccine was administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | ImmunizationReason : ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\valueset-immunization-reason.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [CodeableConcept](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "CodeableConcept) |
| **Immunization.explanation.refusalReason** | |
| Definition | Refusal or exemption reasons. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | NoImmunizationReason : ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\valueset-no-immunization-reason.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [CodeableConcept](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "CodeableConcept) |
| **Immunization.reaction** | |
| Definition | Categorical data indicating that an adverse event is associated in time to an immunization. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| **Immunization.reaction.date** | |
| Definition | Date of reaction to the immunization. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [dateTime](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "dateTime) |
| **Immunization.reaction.detail** | |
| Definition | Details of the reaction. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([AdverseReaction](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\adversereaction.html" \l "AdverseReaction)|[Observation](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\observation.html" \l "Observation)) |
| **Immunization.reaction.reported** | |
| Definition | Self-reported indicator. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [boolean](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "boolean) |
| **Immunization.vaccinationProtocol** | |
| Definition | Contains information about the protocol(s) under which the vaccine was administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| **Immunization.vaccinationProtocol.doseSequence** | |
| Definition | Nominal position in a series. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [integer](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "integer) |
| **Immunization.vaccinationProtocol.description** | |
| Definition | Contains the description about the protocol under which the vaccine was administered. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [string](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "string) |
| **Immunization.vaccinationProtocol.authority** | |
| Definition | Indicates the authority who published the protocol? E.g. ACIP. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Organization](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\organization.html" \l "Organization)) |
| **Immunization.vaccinationProtocol.series** | |
| Definition | One possible path to achieve presumed immunity against a disease - within the context of an authority. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [string](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "string) |
| **Immunization.vaccinationProtocol.seriesDoses** | |
| Definition | The recommended number of doses to achieve immunity. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [integer](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "integer) |
| **Immunization.vaccinationProtocol.doseTarget** | |
| Definition | The targeted disease. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | VaccinationProtocolDoseTarget : ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\valueset-vaccination-protocol-dose-target.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [CodeableConcept](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "CodeableConcept) |
| **Immunization.vaccinationProtocol.doseStatus** | |
| Definition | Indicates if the immunization event should "count" against the protocol. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | VaccinationProtocolDoseStatus : ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\valueset-vaccination-protocol-dose-status.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [CodeableConcept](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "CodeableConcept) |
| Comments | May need to differentiate between status declarations by a provider vs. a CDS engine. |
| **Immunization.vaccinationProtocol.doseStatusReason** | |
| Definition | Provides an explanation as to why an immunization event should or should not count against the protocol. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | VaccinationProtocolDoseStatusReason : ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\valueset-vaccination-protocol-dose-status-reason.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [CodeableConcept](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "CodeableConcept) |