3.41 Immunization Activity (V3)

[substanceAdministration: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.52:2015-08-01 (open)]

Table 313: Immunization Activity (V3) Contexts

Contained By:	Contains:
Immunizations Section (entries required) (V3) (required) Immunizations Section (entries optional) (V3) (optional) Planned Intervention Act (V2) (optional) Intervention Act (V2) (optional)	Contains: Drug Vehicle (optional) Immunization Refusal Reason (optional) Reaction Observation (V2) (optional) Indication (V2) (optional) Medication Supply Order (V2) (optional) Medication Dispense (V2) (optional) Instruction (V2) (optional) Author Participation (optional) Substance Administered Act (optional) Immunization Medication Information (V2) (required)
	Precondition for Substance Administration (V2) (optional)

An Immunization Activity describes immunization substance administrations that have actually occurred or are intended to occur. Immunization Activities in "INT" mood are reflections of immunizations a clinician intends a patient to receive. Immunization Activities in "EVN" mood reflect immunizations actually received.

An Immunization Activity is very similar to a Medication Activity with some key differentiators. The drug code system is constrained to CVX codes. Administration timing is less complex. Patient refusal reasons should be captured. All vaccines administered should be fully documented in the patient's permanent medical record. Healthcare providers who administer vaccines covered by the National Childhood Vaccine Injury Act are required to ensure that the permanent medical record of the recipient indicates:

APPENDIX A — Date of administration

APPENDIX B — Vaccine manufacturer

APPENDIX C — Vaccine lot number

APPENDIX D — Name and title of the person who administered the vaccine and the address of the clinic or facility where the permanent record will reside

APPENDIX E — Vaccine information statement (VIS)

Date printed on the VISDate VIS given to patient or parent/guardian.

This information should be included in an Immunization Activity when available. (Reference: [https://www.cdc.gov/vaccines/pubs/pinkbook/downloads/appendices/c/vis-instruct.pdf])

Table 314: Immunization Activity (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
substanceAdministration (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.52:2015-08-01)					
@classCode	11	SHALL		<u>1198-</u>	urn:oid:2.16.840.1.113883.5.6

XPath	Card.	Verb	Data Type	CONF#	Value
				8826	(HL7ActClass) = SBADM
@moodCode	11	SHALL		1198- 8827	urn:oid:2.16.840.1.113883.11. 20.9.18 (MoodCodeEvnInt)
@negationInd	11	SHALL		1198- 8985	
templateId	11	SHALL		1198- 8828	
@root	11	SHALL		1198- 10498	2.16.840.1.113883.10.20.22.4 .52
@extension	11	SHALL		1198- 32528	2015-08-01
id	1*	SHALL		1198- 8829	
code	01	MAY		1198- 8830	
statusCode	11	SHALL		1198- 8833	
@code	11	SHALL		1198- 32359	urn:oid:2.16.840.1.113883.1.1 1.15933 (ActStatus)
effectiveTime	11	SHALL		1198- 8834	
repeatNumber	01	MAY		1198- 8838	
routeCode	01	MAY		1198- 8839	urn:oid:2.16.840.1.113883.3.8 8.12.3221.8.7 (SPL Drug Route of Administration Terminology)
translation	0*	SHOULD		1198- 32960	
@code	11	SHALL		1198- 32970	urn:oid:2.16.840.1.113762.1.4 .1099.12 (Medication Route)
approachSiteCode	01	MAY	SET <c D></c 	1198- 8840	urn:oid:2.16.840.1.113883.3.8 8.12.3221.8.9 (Body Site Value Set)
doseQuantity	01	SHOULD		1198- 8841	
@unit	01	SHOULD		1198- 8842	urn:oid:2.16.840.1.113883.1.1 1.12839 (UnitsOfMeasureCaseSensitive)
administrationUnitCode	01	MAY		1198- 8846	urn:oid:2.16.840.1.113762.1.4 .1021.30 (AdministrationUnitDoseForm)
consumable	11	SHALL		1198- 8847	
manufacturedProduct	11	SHALL		1198-	Immunization Medication

XPath	Card.	Verb	Data Type	CONF#	Value
				15546	Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.54:2014-06-09
performer	01	SHOULD		1198- 8849	
author	0*	SHOULD		1198- 31151	Author Participation (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.119
participant	0*	MAY		1198- 8850	
@typeCode	11	SHALL		1198- 8851	urn:oid:2.16.840.1.113883.5.9 0 (HL7ParticipationType) = CSM
participantRole	11	SHALL		<u>1198-</u> <u>15547</u>	Drug Vehicle (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.24
entryRelationship	0*	MAY		1198- 8853	
@typeCode	11	SHALL		1198- 8854	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = RSON
observation	11	SHALL		1198- 15537	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.19:2014-06-09
entryRelationship	01	MAY		1198- 8856	
@typeCode	11	SHALL		1198- 8857	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = SUBJ
@inversionInd	11	SHALL		1198- 8858	true
act	11	SHALL		<u>1198-</u> <u>31392</u>	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.20:2014-06-09
entryRelationship	01	MAY		1198- 8860	
@typeCode	11	SHALL		1198- 8861	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = REFR
supply	11	SHALL		1198- 15539	Medication Supply Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.17:2014-06-09
entryRelationship	01	MAY		1198- 8863	
@typeCode	11	SHALL		1198-	urn:oid:2.16.840.1.113883.5.1

XPath	Card.	Verb	Data Type	CONF#	Value
				8864	002 (HL7ActRelationshipType) = REFR
supply	11	SHALL		1198- 15540	Medication Dispense (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.18:2014-06-09
entryRelationship	01	MAY		<u>1198-</u> <u>8866</u>	
@typeCode	11	SHALL		1198- 8867	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = CAUS
observation	11	SHALL		1198- 15541	Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.9:2014-06-09
entryRelationship	01	MAY		1198- 8988	
@typeCode	11	SHALL		1198- 8989	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = RSON
observation	11	SHALL		1198- 15542	Immunization Refusal Reason (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.53
entryRelationship	0*	SHOULD		1198- 31510	
@typeCode	11	SHALL		<u>1198-</u> <u>31511</u>	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = COMP
@inversionInd	11	SHALL		<u>1198-</u> <u>31512</u>	true
sequenceNumber	01	MAY		<u>1198-</u> <u>31513</u>	
act	11	SHALL		1198- 31514	Substance Administered Act (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.118
precondition	0*	MAY		1198- 8869	
@typeCode	11	SHALL		1198- 8870	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = PRCN
criterion	11	SHALL		1198- 15548	Precondition for Substance Administration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.25:2014-06-09

- 1. **SHALL** contain exactly one [1..1] @classCode="SBADM" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1198-8826).
- 2. **SHALL** contain exactly one [1..1] @moodCode, which **SHALL** be selected from ValueSet MoodCodeEvnInt urn:oid:2.16.840.1.113883.11.20.9.18 **STATIC** (CONF:1198-8827).
- 3. **SHALL** contain exactly one [1..1] @negationInd (CONF:1198-8985). Note: Use negationInd="true" to indicate that the immunization was not given.
- 4. SHALL contain exactly one [1..1] templateId (CONF:1198-8828) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.52" (CONF:1198-10498).
 - b. **SHALL** contain exactly one [1..1] @extension="2015-08-01" (CONF:1198-32528).
- 5. **SHALL** contain at least one [1..*] **id** (CONF:1198-8829).
- 6. MAY contain zero or one [0..1] code (CONF:1198-8830).

 Note: SubstanceAdministration.code is an optional field. Per HL7 Pharmacy Committee,

 "this is intended to further specify the nature of the substance administration act. To date the committee has made no use of this attribute". Because the type of substance administration is generally implicit in the routeCode, in the consumable participant, etc.,
 - the field is generally not used and there is no defined value set.

7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1198-8833).

- a. This statusCode **SHALL** contain exactly one [1..1] @code, which **SHALL** be selected from ValueSet <u>ActStatus</u> urn:oid:2.16.840.1.113883.1.11.15933 **DYNAMIC** (CONF:1198-32359).
- 8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1198-8834).

In "INT" (intent) mood, the repeatNumber defines the number of allowed administrations. For example, a repeatNumber of "3" means that the substance can be administered up to 3 times. In "EVN" (event) mood, the repeatNumber is the number of occurrences. For example, a repeatNumber of "3" in a substance administration event means that the current administration is the 3rd in a series.

- 9. MAY contain zero or one [0..1] repeatNumber (CONF:1198-8838).
- 10. MAY contain zero or one [0..1] routeCode, which SHALL be selected from ValueSet <u>SPL Drug</u>
 Route of Administration Terminology

urn:oid:2.16.840.1.113883.3.88.12.3221.8.7 DYNAMIC (CONF:1198-8839).

- a. The routeCode, if present, **SHOULD** contain zero or more [0..*] **translation** (CONF:1198-32960) such that it
 - i. **SHALL** contain exactly one [1..1] @code, which **SHALL** be selected from ValueSet Medication Route urn:oid:2.16.840.1.113762.1.4.1099.12 **DYNAMIC** (CONF:1198-32970).
- 11. MAY contain zero or one [0..1] approachSiteCode, where the code SHALL be selected from ValueSet Body Site Value Set urn:oid:2.16.840.1.113883.3.88.12.3221.8.9

 DYNAMIC (CONF:1198-8840).
- 12. **SHOULD** contain zero or one [0..1] **doseQuantity** (CONF:1198-8841).

NOTE: The base CDA R2.0 standard requires @unit to be drawn from UCUM, and best practice is to use case sensitive UCUM units

- a. The doseQuantity, if present, **SHOULD** contain zero or one [0..1] @unit, which **SHOULD** be selected from ValueSet <u>UnitsOfMeasureCaseSensitive</u> urn:oid:2.16.840.1.113883.1.11.12839 **DYNAMIC** (CONF:1198-8842).
- 13. MAY contain zero or one [0..1] administrationUnitCode, which SHALL be selected from ValueSet AdministrationUnitDoseForm urn:oid:2.16.840.1.113762.1.4.1021.30 DYNAMIC (CONF:1198-8846).
- 14. SHALL contain exactly one [1..1] consumable (CONF:1198-8847).
 - a. This consumable **SHALL** contain exactly one [1..1] <u>Immunization Medication Information (V2)</u> (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09) (CONF:1198-15546).
- 15. **SHOULD** contain zero or one [0..1] **performer** (CONF:1198-8849).
- 16. **SHOULD** contain zero or more [0..*] <u>Author Participation</u> (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1198-31151).
- 17. MAY contain zero or more [0..*] participant (CONF:1198-8850) such that it
 - a. SHALL contain exactly one [1..1] @typeCode="CSM" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:1198-8851).
 - b. **SHALL** contain exactly one [1..1] **Drug Vehicle** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.24) (CONF:1198-15547).
- 18. MAY contain zero or more [0..*] entryRelationship (CONF:1198-8853) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-8854).
 - b. SHALL contain exactly one [1..1] <u>Indication (V2)</u> (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1198-15537).
- 19. MAY contain zero or one [0..1] entryRelationship (CONF:1198-8856) such that it
 - a. SHALL contain exactly one [1..1] @typeCode="SUBJ" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:1198-8857).
 - b. **SHALL** contain exactly one [1..1] @inversionInd="true" True (CONF:1198-8858).
 - c. SHALL contain exactly one [1..1] <u>Instruction (V2)</u> (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1198-31392).
- 20. MAY contain zero or one [0..1] entryRelationship (CONF:1198-8860) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-8861).
 - b. SHALL contain exactly one [1..1] <u>Medication Supply Order (V2)</u> (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09) (CONF:1198-15539).
- 21. MAY contain zero or one [0..1] entryRelationship (CONF:1198-8863) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-8864).
- b. **SHALL** contain exactly one [1..1] <u>Medication Dispense (V2)</u> (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.18:2014-06-09) (CONF:1198-15540).
- 22. MAY contain zero or one [0..1] entryRelationship (CONF:1198-8866) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-8867).
 - b. SHALL contain exactly one [1..1] Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09) (CONF:1198-15541).
- 23. MAY contain zero or one [0..1] entryRelationship (CONF:1198-8988) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-8989).
 - b. **SHALL** contain exactly one [1..1] <u>Immunization Refusal Reason</u> (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.53) (CONF:1198-15542).

The following entryRelationship is used to indicate a given immunization's order in a series. The nested Substance Administered Act identifies an administration in the series. The entryRelationship/sequenceNumber shows the order of this particular administration in that series.

- 24. SHOULD contain zero or more [0..*] entryRelationship (CONF:1198-31510) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1198-31511).
 - b. **SHALL** contain exactly one [1..1] @inversionInd="true" (CONF:1198-31512).
 - c. MAY contain zero or one [0..1] sequenceNumber (CONF:1198-31513).
 - d. **SHALL** contain exactly one [1..1] <u>Substance Administered Act</u> (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.118) (CONF:1198-31514).
- 25. MAY contain zero or more [0..*] precondition (CONF:1198-8869) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="PRCN" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-8870).
 - b. **SHALL** contain exactly one [1..1] <u>Precondition for Substance Administration</u> (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.25:2014-06-09) (CONF:1198-15548).

Table 315: MoodCodeEvnInt

Value Set: MoodCodeEvnInt urn:oid:2.16.840.1.113883.11.20.9.18

(Clinical Focus: Subset of HL7 ActMood codes, constrained to represent event (EVN) and intent (INT)

moods.),(Data Element Scope:),(Inclusion Criteria:),(Exclusion Criteria:)

This value set was imported on 4/24/2019 with a version of 20190104.

Value Set Source:

https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.18/expansion

Code	Code System	Code System OID	Print Name
EVN	HL7ActMood	urn:oid:2.16.840.1.113883.5.10 01	event (occurrence)
INT	HL7ActMood	urn:oid:2.16.840.1.113883.5.10 01	intent

Table 316: SPL Drug Route of Administration Terminology

Value Set: SPL Drug Route of Administration Terminology urn:oid:2.16.840.1.113883.3.88.12.3221.8.7 (Clinical Focus: The set of route of administration concepts that may be used in structured product labeling.),(Data Element Scope: Ordered, administered, medication route),(Inclusion Criteria: Selected concepts that are descendent of C38114 as determined by the FDA. These concepts are linked to "SPL Drug Route of Administration Terminology (Code C54455)" by Concept_In_Subset.),(Exclusion Criteria: As determined by the FDA those routes not to be used in SPL (navigational concepts, etc.))

This value set was imported on 6/29/2019 with a version of 20190604. Value Set Source:

https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.3.88.12.3221.8.7/expansion

Code	Code System	Code System OID	Print Name
C132737	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Intracanalicular Route of Administration
C28161	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Intramuscular Route of Administration
C38192	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Auricular Route of Administration
C38193	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Buccal Route of Administration
C38194	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Conjunctival Route of Administration
C38197	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Dental Route of Administration
C38198	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Soft Tissue Route of Administration
C38200	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Administration via Hemodialysis
C38203	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Iontophoresis Route of Administration
C38205	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Endocervical Route of Administration
•••	·		

Table 317: Body Site Value Set

Value Set: Body Site Value Set urn:oid:2.16.840.1.113883.3.88.12.3221.8.9

(Clinical Focus: All SNOMED CT anatomic structures, locations, abnormal structures that can be considered to describe an anatomical site.),(Data Element Scope: data element describing body location),(Inclusion Criteria: SNOMED CT concepts descending from the Anatomical Structure (91723000) or Acquired body structure (body structure) (280115004) or Anatomical site notations for tumor staging (body structure) (258331007) or Body structure, altered from its original anatomical structure (morphologic abnormality) (118956008) or Physical anatomical entity (body structure) (91722005)),(Exclusion Criteria: none)

This value set was imported on 6/24/2019 with a version of 20190420. Value Set Source:

https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.3.88.12.3221.8.9/expansion

Code	Code System	Code System OID	Print Name
10013000	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Lateral meniscus structure (body structure)
10024003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Structure of base of lung (body structure)
10025002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Structure of base of phalanx of index finger (body structure)
10026001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Structure of ventral spinocerebellar tract of pons (body structure)
10036009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Structure of nucleus pulposus of intervertebral disc of eighth thoracic vertebra (body structure)
10042008	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Structure of intervertebral foramen of fifth thoracic vertebra (body structure)
10047002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Structure of transplanted lung (body structure)
1005009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Entire diaphragmatic lymph node (body structure)
10052007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Male structure (body structure)
10056005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Structure of ophthalmic nerve (body structure)
•••			

Table 318: UnitsOfMeasureCaseSensitive

Value Set: UnitsOfMeasureCaseSensitive urn:oid:2.16.840.1.113883.1.11.12839

(Clinical Focus: Common UCUM units. This value set is based on the Common UCUM set.),(Data Element Scope: unit of measure),(Inclusion Criteria: all valid UCUM units case sensitive),(Exclusion Criteria:)

This value set was imported on 6/29/2019 with a version of 20180509.

Value Set Source:

https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.12839/expansion

Code	Code System	Code System OID	Print Name
%	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent
%{Hb}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent hemoglobin
%{RBCs}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent of red blood cells
%{WBCs}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent of white blood cells
%{abnormal}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent abnormal
%{activity}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent activity
%{aggregation}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent aggregation
%{at_60_min}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent at 60 minute
%{bacteria}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent of bacteria
%{basal_activi ty}	UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.	percent basal activity
•••			

Table 319: AdministrationUnitDoseForm

Value Set: AdministrationUnitDoseForm urn:oid:2.16.840.1.113762.1.4.1021.30

(Clinical Focus: Codes that are similar to a drug "form" but limited to those used as units when describing drug administration when the drug item is a physical form that is continuous and therefore not administered as an "each" of the physical form, or is not using standard measurement units (inch, ounce, gram, etc.) This set does not include unit concepts that mimic "physical form" concepts that can be counted using "each", such as tablet, bar, lozenge, packet, etc.),(Data Element Scope: C-CDA

substanceAdministration/administrationUnitCode),(Inclusion Criteria: Unit concepts describing drug administration when the drug item is not administered as an "each" of the physical form, or is not using standard measurement units (inch, ounce, gram, etc.) Concepts have a "Concept_In_Subset" relationship to "SPL Unit of Presentation Terminology" (Code C87300)),(Exclusion Criteria: This set does not include unit concepts that mimic "physical form" concepts that can be counted using "each", such as tablet, bar, lozenge, packet, etc. Does not include standard measurement units (inch, ounce, gram, etc.))

This value set was imported on 6/24/2019 with a version of 20190604. Value Set Source:

https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1021.30/expansion

Code	Code System	Code System OID	Print Name
C102405	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Capful Dosing Unit
C122629	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Actuation Dosing Unit
C122631	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Dropperful Dosing Unit
C25397	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Application Unit
C44278	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Unit
C48491	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Metric Drop
C48501	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Inhalation Dosing Unit
C48536	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Scoopful Dosing Unit
C48537	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Spray Dosing Unit
C65060	NCI Thesaurus (NCIt)	urn:oid:2.16.840.1.113883.3.26 .1.1	Puff Dosing Unit
	1	1	'

Table 320: Medication Route

Value Set: Medication Route urn:oid:2.16.840.1.113762.1.4.1099.12

(Clinical Focus: Terms used to describe the path by which a substance is taken into the body.),(Data Element Scope:),(Inclusion Criteria: All SNOMED_CT values descending from 284009009 route of administration value),(Exclusion Criteria:)

This value set was imported on 6/25/2019 with a version of 20190521.

Value Set Source:

https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1099.12/expansion

Code	Code System	Code System OID	Print Name
10547007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Otic route (qualifier value)
12130007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Intra-articular route (qualifier value)
127490009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Gastrostomy route (qualifier value)
127491008	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Jejunostomy route (qualifier value)
127492001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Nasogastric route (qualifier value)
16110001751 09	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Sublesional route (qualifier value)
16857009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Vaginal route (qualifier value)
26643006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Oral route (qualifier value)
34206005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Subcutaneous route (qualifier value)
37161004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Rectal route (qualifier value)
	•		

Figure 161: Immunization Activity (V3) Example

```
<substanceAdministration classCode="SBADM" moodCode="EVN" negationInd="false">
    <!-- ** Immunization activity ** -->
    <templateId root="2.16.840.1.113883.10.20.22.4.52" extension="2015-08-01" />
    <id root="e6f1ba43-c0ed-4b9b-9f12-f435d8ad8f92" />
    <statusCode code="completed" />
    <effectiveTime value="19981215" />
    <routeCode code="C28161" codeSystem="2.16.840.1.113883.3.26.1.1"</pre>
codeSystemName="National Cancer Institute (NCI) Thesaurus" displayName="Intramuscular
injection" />
    <doseQuantity value="50" unit="ug" />
    <consumable>
        <manufacturedProduct classCode="MANU">
            <!-- ** Immunization medication information ** -->
            <templateId root="2.16.840.1.113883.10.20.22.4.54" extension="2014-06-09" />
            <manufacturedMaterial>
                <code code="33" codeSystem="2.16.840.1.113883.12.292"</pre>
displayName="Pneumococcal polysaccharide vaccine" codeSystemName="CVX">
                    <translation code="854981" displayName="Pneumovax 23 (Pneumococcal</pre>
vaccine polyvalent) Injectable Solution" codeSystemName="RxNORM"
codeSystem="2.16.840.1.113883.6.88" />
                </code>
                <lotNumberText>1</lotNumberText>
            </manufacturedMaterial>
            <manufacturerOrganization>
                <name>Health LS - Immuno Inc.</name>
            </manufacturerOrganization>
        </manufacturedProduct>
    </consumable>
    <performer>
        <assignedEntity>
            <id root="2.16.840.1.113883.19.5.9999.456" extension="2981824" />
                <streetAddressLine>1007 Health Drive</streetAddressLine>
                <city>Portland</city>
                <state>OR</state>
                <postalCode>99123</postalCode>
                <country>US</country>
            </addr>
            <telecom use="WP" value="tel: +(555)-555-1030" />
            <assignedPerson>
                <name>
                    <given>Harold</given>
                    <family>Hippocrates</family>
                </name>
            </assignedPerson>
            <representedOrganization>
                <id root="2.16.840.1.113883.19.5.9999.1394" />
                <name>Good Health Clinic</name>
                <telecom use="WP" value="tel: +(555)-555-1030" />
                <addr>
                    <streetAddressLine>1007 Health Drive</streetAddressLine>
                    <city>Portland</city>
                    <state>OR</state>
                    <postalCode>99123</postalCode>
                    <country>US</country>
```

3.42 Immunization Medication Information (V2)

[manufacturedProduct: identifier
urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09 (open)]

Table 321: Immunization Medication Information (V2) Contexts

Contained By:	Contains:
Planned Supply (V2) (optional)	
Medication Supply Order (V2) (optional)	
Medication Dispense (V2) (optional)	
Planned Immunization Activity (required)	
Immunization Activity (V3) (required)	

The Immunization Medication Information represents product information about the immunization substance. The vaccine manufacturer and vaccine lot number are typically recorded in the medical record and should be included if known.