## 3.20 Procedure Activity Procedure (V3)

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2022-06-01 (open)]

The common notion of "procedure" is broader than that specified by the HL7 Version 3 Reference Information Model (RIM). Therefore procedure templates can be represented with various RIM classes: act (e.g., dressing change), observation (e.g., EEG), procedure (e.g., splenectomy).

This template represents procedures whose immediate and primary outcome (post-condition) is the alteration of the physical condition of the patient. Examples of these procedures are an appendectomy, hip replacement, and a creation of a gastrostomy.

This template can be used with a contained Product Instance template to represent a device in or on a patient. In this case, targetSiteCode is used to record the location of the device in or on the patient's body. Equipment supplied to the patient (e.g., pumps, inhalers, wheelchairs) is represented by the Non-Medicinal Supply Activity (V2) template.

Procedure Activity Procedure V3 Usage Note: Common practice in the industry has shown that Procedure Activity Procedure is the usually implemented CDA template for any type of intervention or procedure regardless of if the "immediate and primary outcome (post-condition) is the alteration of the physical condition of the patient" or not. As a result, it is recommended to use Procedure Activity Procedure when sending procedures also thought of as "interventions" such as "Home Environment Evaluation" or "Assessment of nutritional status".

Table 70: Procedure Activity Procedure (V3) Constraints Overview

| XPath                          | Card.            | Verb        | Data<br>Type | CONF#                        | Value   |
|--------------------------------|------------------|-------------|--------------|------------------------------|---|
| procedure (identifier: urn:hl7 | 7ii:2.16.840.1.1 | 13883.10.20 | .22.4.14:2   | 2022-06-01)                  |   |
| @classCode                     | 11               | SHALL       |              | 4515-<br>7652                | urn:oid:2.16.840.1.113883.5.6<br>(HL7ActClass) = PROC                   |
| @moodCode                      | 11               | SHALL       |              | 4515-<br>7653                | urn:oid:2.16.840.1.113883.5.1<br>001 (HL7ActMood) = EVN                 |
| templateId                     | 11               | SHALL       |              | 4515-<br>7654                |   |
| @root                          | 11               | SHALL       |              | 4515-<br>10521               | 2.16.840.1.113883.10.20.22.4<br>.14                                     |
| @extension                     | 11               | SHALL       |              | <u>4515-</u><br><u>32506</u> | 2022-06-01  |
| id                             | 1*               | SHALL       |              | 4515-<br>7655                |   |
| code                           | 11               | SHALL       |              | 4515-<br>7656                |   |
| originalText                   | 01               | SHOULD      |              | <u>4515-</u><br><u>19203</u> |   |
| reference                      | 01               | SHOULD      |              | 4515-<br>19204               |   |
| @value                         | 01               | SHOULD      |              | <u>4515-</u><br>19205        |   |
| statusCode                     | 11               | SHALL       |              | 4515-<br>7661                |   |
| @code                          | 11               | SHALL       |              | <u>4515-</u><br><u>32366</u> | urn:oid:2.16.840.1.113883.11.<br>20.9.22 (ProcedureAct<br>statusCode)   |
| effectiveTime                  | 01               | SHOULD      |              | 4515-<br>7662                |   |
| priorityCode                   | 01               | MAY         |              | 4515-<br>7668                | urn:oid:2.16.840.1.113883.1.1<br>1.16866 (ActPriority)                  |
| methodCode                     | 01               | MAY         |              | 4515-<br>7670                |   |
| targetSiteCode                 | 0*               | SHOULD      |              | 4515-<br>7683                | urn:oid:2.16.840.1.113883.3.8<br>8.12.3221.8.9 (Body Site<br>Value Set) |
| specimen                       | 0*               | MAY         |              | 4515-<br>7697                |   |
| specimenRole                   | 11               | SHALL       |              | 4515-<br>7704                |   |
| id                             | 0*               | SHOULD      |              | 4515-<br>7716                |   |
| performer                      | 0*               | SHOULD      |              | 4515-<br>7718                |   |
| assignedEntity                 | 11               | SHALL       |              | 4515-                        |   |

| XPath                   | Card. | Verb   | Data<br>Type | CONF#                       | Value   |
|-------------------------|-------|--------|--------------|-----------------------------|---|
|                         |       |        |              | 7720                        |   |
| id                      | 1*    | SHALL  |              | 4515-<br>7722               |   |
| addr                    | 1*    | SHALL  |              | <u>4515-</u><br><u>7731</u> |   |
| telecom                 | 1*    | SHALL  |              | 4515-<br>7732               |   |
| representedOrganization | 01    | SHOULD |              | 4515-<br>7733               |   |
| id                      | 0*    | SHOULD |              | 4515-<br>7734               |   |
| name                    | 0*    | MAY    |              | 4515-<br>7735               |   |
| telecom                 | 1*    | SHALL  |              | 4515-<br>7737               |   |
| addr                    | 1*    | SHALL  |              | 4515-<br>7736               |   |
| author                  | 0*    | SHOULD |              | 4515-<br>32479              | Author Participation (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.119     |
| participant             | 0*    | MAY    |              | <u>4515-</u><br><u>7751</u> |   |
| @typeCode               | 11    | SHALL  |              | 4515-<br>7752               | urn:oid:2.16.840.1.113883.5.1<br>002 (HL7ActRelationshipType)<br>= DEV          |
| participantRole         | 11    | SHALL  |              | 4515-<br>15911              | Product Instance (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.37          |
| participant             | 0*    | MAY    |              | 4515-<br>7765               |   |
| @typeCode               | 11    | SHALL  |              | 4515-<br>7766               | urn:oid:2.16.840.1.113883.5.9<br>0 (HL7ParticipationType) =<br>LOC              |
| participantRole         | 11    | SHALL  |              | 4515-<br>15912              | Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.32 |
| entryRelationship       | 0*    | MAY    |              | 4515-<br>7768               |   |
| @typeCode               | 11    | SHALL  |              | 4515-<br>7769               | urn:oid:2.16.840.1.113883.5.1<br>002 (HL7ActRelationshipType)<br>= COMP         |
| @inversionInd           | 11    | SHALL  |              | <u>4515-</u><br><u>8009</u> | true  |
| encounter               | 11    | SHALL  |              | 4515-                       |   |

| XPath                   | Card. | Verb  | Data<br>Type | CONF#                        | Value  |
|-------------------------|-------|-------|--------------|------------------------------|--|
|                         |       |       |              | <u>7770</u>                  |  |
| @classCode              | 11    | SHALL |              | 4515-<br>7771                | urn:oid:2.16.840.1.113883.5.6<br>(HL7ActClass) = ENC   |
| @moodCode               | 11    | SHALL |              | <u>4515-</u><br><u>7772</u>  | urn:oid:2.16.840.1.113883.5.1<br>001 (HL7ActMood) = EVN  |
| id                      | 11    | SHALL |              | <u>4515-</u><br><u>7773</u>  |  |
| entryRelationship       | 01    | MAY   |              | 4515-<br>7775                |  |
| @typeCode               | 11    | SHALL |              | 4515-<br>7776                | urn:oid:2.16.840.1.113883.5.1<br>002 (HL7ActRelationshipType)<br>= SUBJ                              |
| @inversionInd           | 11    | SHALL |              | <u>4515-</u><br><u>7777</u>  | true   |
| act                     | 11    | SHALL |              | <u>4515-</u><br><u>31395</u> | Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.20:2014-06-09                  |
| entryRelationship       | 0*    | MAY   |              | 4515-<br>7779                |  |
| @typeCode               | 11    | SHALL |              | 4515-<br>7780                | urn:oid:2.16.840.1.113883.5.1<br>002 (HL7ActRelationshipType)<br>= RSON                              |
| observation             | 11    | SHALL |              | <u>4515-</u><br><u>15914</u> | Indication (V2) (identifier:<br>urn:hl7ii:2.16.840.1.113883.1<br>0.20.22.4.19:2014-06-09             |
| entryRelationship       | 0*    | MAY   |              | 4515-<br>7886                |  |
| @typeCode               | 11    | SHALL |              | <u>4515-</u><br><u>7887</u>  | urn:oid:2.16.840.1.113883.5.1<br>002 (HL7ActRelationshipType)<br>= COMP                              |
| substanceAdministration | 11    | SHALL |              | 4515-<br>15915               | Medication Activity (V2)<br>(identifier:<br>urn:hl7ii:2.16.840.1.113883.1<br>0.20.22.4.16:2014-06-09 |
| entryRelationship       | 0*    | MAY   |              | <u>4515-</u><br><u>32473</u> |  |
| @typeCode               | 11    | SHALL |              | <u>4515-</u><br><u>32474</u> | urn:oid:2.16.840.1.113883.5.1<br>002 (HL7ActRelationshipType)<br>= COMP                              |
| observation             | 11    | SHALL |              | 4515-<br>32475               | Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.9:2014-06-09          |
| entryRelationship       | 0*    | MAY   |              | <u>4515-</u><br><u>32985</u> |  |
| @typeCode               | 11    | SHALL |              | <u>4515-</u><br><u>32987</u> | urn:oid:2.16.840.1.113883.5.1<br>002 (HL7ActRelationshipType)  |

| XPath             | Card. | Verb  | Data<br>Type | CONF#                        | Value  |
|-------------------|-------|-------|--------------|------------------------------|--|
|                   |       |       |              |                              | = RSON   |
| observation       | 11    | SHALL |              | 4515-<br>32986               | Assessment Scale Observation (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.69 |
| entryRelationship | 0*    | MAY   |              | <u>4515-</u><br><u>32988</u> |  |
| @typeCode         | 11    | SHALL |              | 4515-<br>32990               | urn:oid:2.16.840.1.113883.5.1<br>002 (HL7ActRelationshipType)<br>= RSON            |
| act               | 11    | SHALL |              | <u>4515-</u><br><u>32989</u> | Entry Reference (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.122             |

- 1. **SHALL** contain exactly one [1..1] **@classCode="PROC"** Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:4515-7652).
- 2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:4515-7653).
- 3. SHALL contain exactly one [1..1] templateId (CONF:4515-7654) such that it
  - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.14" (CONF:4515-10521).
  - b. **SHALL** contain exactly one [1..1] @extension="2022-06-01" (CONF:4515-32506).
- 4. **SHALL** contain at least one [1..\*] **id** (CONF:4515-7655).
- 5. **SHALL** contain exactly one [1..1] **code** (CONF:4515-7656).
  - a. This code **SHOULD** contain zero or one [0..1] originalText (CONF:4515-19203).
    - i. The originalText, if present, **SHOULD** contain zero or one [0..1] **reference** (CONF:4515-19204).
      - 1. The reference, if present, **SHOULD** contain zero or one [0..1] @value (CONF:4515-19205).
        - a. This reference/@value **SHALL** begin with a '#' and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:4515-19206).
  - b. This @code SHOULD be selected from LOINC (CodeSystem: 2.16.840.1.113883.6.1) or SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96) or CPT (CodeSystem: 2.16.840.1.113883.6.12) or ICD-10-PCS (CodeSystem: 2.16.840.1.113883.6.4) or HCPCS (Code System: 2.16.840.1.113762.1.4.1247.9) or CDT-2 (Code System: 2.16.840.1.113883.6.13) (CONF:4515-19207).
  - c. If the Intervention Procedure is a Social Determinant of Health Intervention, the procedure code **SHOULD** be selected from ValueSet <u>Social Determinant of Health ProceduresDYNAMIC</u> (CONF:4515-32984).
- 6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:4515-7661).
  - a. This statusCode **SHALL** contain exactly one [1..1] @code, which **SHALL** be selected from ValueSet <u>ProcedureAct statusCode</u>

urn:oid:2.16.840.1.113883.11.20.9.22 **STATIC** 2014-04-23 (CONF:4515-32366).

- 7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:4515-7662).
- 8. MAY contain zero or one [0..1] priorityCode, which SHALL be selected from ValueSet ActPriority urn:oid:2.16.840.1.113883.1.11.16866 DYNAMIC (CONF:4515-7668).
- 9. MAY contain zero or one [0..1] methodCode (CONF:4515-7670).
  - a. MethodCode **SHALL NOT** conflict with the method inherent in Procedure / code (CONF:4515-7890).

In the case of an implanted medical device, targetSiteCode is used to record the location of the device, in or on the patient's body.

- 10. **SHOULD** contain zero or more [0..\*] **targetSiteCode**, which **SHALL** be selected from ValueSet Body Site Value Set urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 **DYNAMIC** (CONF:4515-7683).
- 11. MAY contain zero or more [0..\*] specimen (CONF:4515-7697).
  - a. The specimen, if present, **SHALL** contain exactly one [1..1] **specimenRole** (CONF:4515-7704).
    - i. This specimenRole **should** contain zero or more [0..\*] **id** (CONF:4515-7716).
      - If you want to indicate that the Procedure and the Results are referring to the same specimen, the Procedure/specimen/specimenRole/id **SHOULD** be set to equal an Organizer/specimen/ specimenRole/id (CONF:4515-29744).
  - b. This specimen is for representing specimens obtained from a procedure (CONF:4515-16842).
- 12. **SHOULD** contain zero or more [0..\*] **performer** (CONF:4515-7718) such that it
  - a. SHALL contain exactly one [1..1] assignedEntity (CONF:4515-7720).
    - i. This assignedEntity **SHALL** contain at least one [1..\*] **id** (CONF:4515-7722).
    - ii. This assignedEntity **SHALL** contain at least one [1..\*] **addr** (CONF:4515-7731).
    - iii. This assignedEntity **SHALL** contain at least one [1..\*] **telecom** (CONF:4515-7732).
    - iv. This assignedEntity **SHOULD** contain zero or one [0..1] representedOrganization (CONF:4515-7733).
      - 1. The representedOrganization, if present, **SHOULD** contain zero or more [0..\*] **id** (CONF:4515-7734).
      - 2. The representedOrganization, if present, **MAY** contain zero or more [0..\*] **name** (CONF:4515-7735).
      - 3. The representedOrganization, if present, **SHALL** contain at least one [1..\*] **telecom** (CONF:4515-7737).
      - 4. The representedOrganization, if present, **SHALL** contain at least one [1..\*] **addr** (CONF:4515-7736).
- 13. **SHOULD** contain zero or more [0..\*] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:4515-32479).
- 14. MAY contain zero or more [0..\*] participant (CONF:4515-7751) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="DEV" Device (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:4515-7752).
- b. **SHALL** contain exactly one [1..1] Product Instance (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.37) (CONF:4515-15911).
- 15. MAY contain zero or more [0..\*] participant (CONF:4515-7765) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="LOC" Location (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:4515-7766).
  - b. **SHALL** contain exactly one [1..1] Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32) (CONF:4515-15912).
- 16. MAY contain zero or more [0..\*] entryRelationship (CONF:4515-7768) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:4515-7769).
  - b. **SHALL** contain exactly one [1..1] @inversionInd="true" true (CONF:4515-8009).
  - c. **SHALL** contain exactly one [1..1] **encounter** (CONF:4515-7770).
    - i. This encounter **SHALL** contain exactly one [1..1] **@classCode="**ENC" Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:4515-7771).
    - ii. This encounter **SHALL** contain exactly one [1..1] **@moodCode="**EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:4515-7772).
    - iii. This encounter **SHALL** contain exactly one [1..1] **id** (CONF:4515-7773).
      - 1. Set the encounter ID to the ID of an encounter in another section to signify they are the same encounter (CONF:4515-16843).
- 17. MAY contain zero or one [0..1] entryRelationship (CONF:4515-7775) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:4515-7776).
  - b. **SHALL** contain exactly one [1..1] @inversionInd="true" true (CONF:4515-7777).
  - c. **SHALL** contain exactly one [1..1] Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:4515-31395).
- 18. MAY contain zero or more [0..\*] entryRelationship (CONF:4515-7779) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:4515-7780).
  - b. **SHALL** contain exactly one [1..1] Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:4515-15914).
- 19. MAY contain zero or more [0..\*] entryRelationship (CONF:4515-7886) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:4515-7887).

- b. **SHALL** contain exactly one [1..1] Medication Activity (V2) (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09) (CONF:4515-15915).
- 20. MAY contain zero or more [0..\*] entryRelationship (CONF:4515-32473) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-32474).
  - b. **SHALL** contain exactly one [1..1] Reaction Observation (V2) (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09) (CONF:4515-32475).

When an Assessment Scale Observation is contained in a Procedure Template instance that is a Social Determinant of Health intervention procedure, that Assessment scale **MAY** contain Assessment Scale observations that represent LOINC question and answer pairs from SDOH screening instruments.

- 21. MAY contain zero or more [0..\*] entryRelationship (CONF:4515-32985) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-32987).
  - b. **SHALL** contain exactly one [1..1] Assessment Scale Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.69) (CONF:4515-32986).

When an Entry Reference Template is contained in a Procedure Template instance that is a Social Determinant of Health procedure, that Entry Reference **MAY** refer to Assessment Scale Observation in the same document that represent LOINC question and answer pairs from SDOH screening instruments.

- 22. MAY contain zero or more [0..\*] entryRelationship (CONF:4515-32988) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-32990).
  - b. **SHALL** contain exactly one [1..1] Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:4515-32989).

#### Table 71: ProcedureAct statusCode

Value Set: ProcedureAct statusCode urn:oid:2.16.840.1.113883.11.20.9.22

(Clinical Focus: Status of a procedure activity),(Data Element Scope: ),(Inclusion Criteria: ),(Exclusion Criteria: )

This value set was imported on 4/24/2019 with a version of 20190103.

Value Set Source:

https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.22/expansion

| Code      | Code System  | Code System OID                | Print Name |
|-----------|--------------|--------------------------------|------------|
| aborted   | HL7ActStatus | urn:oid:2.16.840.1.113883.5.14 | aborted    |
| active    | HL7ActStatus | urn:oid:2.16.840.1.113883.5.14 | active     |
| cancelled | HL7ActStatus | urn:oid:2.16.840.1.113883.5.14 | cancelled  |
| completed | HL7ActStatus | urn:oid:2.16.840.1.113883.5.14 | completed  |

### Table 72: ActPriority

Value Set: ActPriority urn:oid:2.16.840.1.113883.1.11.16866

(Clinical Focus: The urgency under which the Act happened, can happen, is happening, is intended to happen, or is requested/demanded to happen.),(Data Element Scope: ),(Inclusion Criteria: All members of system 2.16.840.1.113883.5.7),(Exclusion Criteria: )

This value set was imported on 6/24/2019 with a version of 20190425.

Value Set Source:

https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.16866/expansion

| Code | Code System    | Code System OID               | Print Name                       |
|------|----------------|-------------------------------|----------------------------------|
| A    | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | ASAP                             |
| CR   | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | callback results                 |
| CS   | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | callback for scheduling          |
| CSP  | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | callback placer for scheduling   |
| CSR  | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | contact recipient for scheduling |
| EL   | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | elective                         |
| EM   | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | emergency                        |
| P    | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | preop                            |
| PRN  | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | as needed                        |
| R    | HL7ActPriority | urn:oid:2.16.840.1.113883.5.7 | routine                          |
|      |                | -                             |                                  |

### Figure 48: Procedure Activity Procedure Example

```
classCode="PROC" moodCode="EVN">
    <!-- Procedure Activity Procedure -->
    <templateId root="2.16.840.1.113883.10.20.22.4.14" />
    <templateId root="2.16.840.1.113883.10.20.22.4.14" extension="2014-06-09" />
    <templateId root="2.16.840.1.113883.10.20.22.4.14" extension="2022-06-01" />
    <id root="d5b614bd-01ce-410d-8726-e1fd01dcc72a" />
    <code code="103716009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"</pre>
displayName="Stent Placement">
        <originalText>
            <reference value="#Proc1" />
        </originalText>
    </code>
    <statusCode code="completed" />
    <effectiveTime value="20130512" />
    <targetSiteCode code="28273000" displayName="bile duct"</pre>
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
    <specimen typeCode="SPC">
        <specimenRole classCode="SPEC">
            <id root="a6d7b927-2b70-43c7-bdf3-0e7c4133062c" />
            <specimenPlayingEntity>
                <code code="57259009" codeSystem="2.16.840.1.113883.6.96"</pre>
displayName="gallbladder bile" />
            </specimenPlayingEntity>
        </specimenRole>
    </specimen>
    <performer>
         . . .
        </performer>
</procedure>
```

Figure 49: Procedure Activity Procedure Social Determinant of Health Intervention Example

```
classCode="PROC" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.14"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.14"</pre>
          extension="2014-06-09"/>
    <templateId root="2.16.840.1.113883.10.20.22.4.14"</pre>
          extension="2022-06-01"/>
    <id extension="2448483" root="1.2.840.114350.1.13.5552.1.7.2.798268"/>
    <code code="61310001" codeSystem="2.16.840.1.113883.6.96"</pre>
          displayName="Nutrition education" codeSystemName="SNOMED-CT">
        <originalText>
            <reference value="#ProcedureDesc3"/>
        </originalText>
        <translation code="97802" codeSystem="2.16.840.1.113883.6.12"</pre>
            displayName="Medical nutrition therapy; initial"
            codeSystemName="CPT"/>
        <translation code="S9470" codeSystem="2.16.840.1.113883.6.13"</pre>
            displayName="Nutritional counseling, diet"
            codeSystemName="HCPCS"/>
    </code>
    <text>
        <reference value="#Procedure1"/>
    </text>
    <statusCode code="completed"/>
    <effectiveTime value="20160413"/>
</procedure>
```

# 3.21 Reason (V4)

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2023-05-01 (open)]
```

This template describes the thought process or justification for an action or for not performing an action. Examples include patient, system, or non-problem/diagnosis medical-related reasons for declining to perform specific actions, or any reason for performing an action. Note that the parent template that calls this template can be asserted to have occurred or to not have occurred. Therefore, this template simply adds a reason to some other (possibly negated) act. As such, there is nothing in this template that says whether the parent act did or did not occur. It is expected that the primary use of this template within C-CDA is to provide the rationale for why something was not done. If this template is called by a template that is not negated, the Reason template should contain something other than a problem or a diagnosis, such as a patient preference.

The Indication (V3) observation: 2.16.840.1.113883.10.20.22.4.19 should be used to represent a diagnosis or problem to indicate the diagnosis or problem is the rationale for an action. Immunization Refusal Reason: 2.16.840.1.113883.10.20.22.4.53 should be used to represent the rationale for the patient declining an immunization as the value set is crafted for the immunization use case.