3.83 Procedure Activity Procedure (V2)

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09 (open)]

Table 436: Procedure Activity Procedure (V2) Contexts				
	0 4 1			

Contained By:	Contains:
Reaction Observation (V2) (optional)	Service Delivery Location (optional)
Medical Equipment Section (V2) (optional)	Product Instance (optional)
Anesthesia Section (V2) (optional)	Medication Activity (V2) (optional)
Procedures Section (entries optional) (V2) (optional)	Reaction Observation (V2) (optional)
Procedures Section (entries required) (V2) (optional)	Indication (V2) (optional)
Medical Equipment Organizer (optional)	Instruction (V2) (optional)
Intervention Act (V2) (optional)	Author Participation (optional)

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.

Table 437:	Procedi	ire Activity I	Procedure	e (V2) Consti	aints Overview
•					•

XPath	Card.	Verb	Data Type	CONF#	Value	
procedure (identifier: urn:hl7ii:2.16.	procedure (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09)					
@classCode	11	SHALL		1098- 7652	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC	
@moodCode	11	SHALL		1098- 7653	urn:oid:2.16.840.1.113883.5.1 001 (HL7ActMood) = EVN	
templateId	11	SHALL		1098- 7654		

XPath	Card.	Verb	Data Type	CONF#	Value
@root	11	SHALL		1098- 10521	2.16.840.1.113883.10.20.22.4 .14
@extension	11	SHALL		<u>1098-</u> <u>32506</u>	2014-06-09
id	1*	SHALL		1098- 7655	
code	11	SHALL		1098- 7656	
originalText	01	SHOULD		1098- 19203	
reference	01	SHOULD		1098- 19204	
@value	01	SHOULD		1098- 19205	
statusCode	11	SHALL		1098- 7661	
@code	11	SHALL		1098- 32366	urn:oid:2.16.840.1.113883.11. 20.9.22 (ProcedureAct statusCode)
effectiveTime	01	SHOULD		1098- 7662	
priorityCode	01	MAY		1098- 7668	urn:oid:2.16.840.1.113883.1.1 1.16866 (ActPriority)
methodCode	01	MAY		1098- 7670	
targetSiteCode	0*	SHOULD		1098- 7683	urn:oid:2.16.840.1.113883.3.8 8.12.3221.8.9 (Body Site Value Set)
specimen	0*	MAY		1098- 7697	
specimenRole	11	SHALL		1098- 7704	
id	0*	SHOULD		1098- 7716	
performer	0*	SHOULD		1098- 7718	
assignedEntity	11	SHALL		1098- 7720	
id	1*	SHALL		1098- 7722	
addr	1*	SHALL		1098- 7731	
telecom	1*	SHALL		1098- 7732	
representedOrganization	01	SHOULD		1098-	

XPath	Card.	Verb	Data Type	CONF#	Value
				<u>7733</u>	
id	0*	SHOULD		1098- 7734	
name	0*	MAY		1098- 7735	
telecom	1*	SHALL		1098- 7737	
addr	1*	SHALL		1098- 7736	
author	0*	SHOULD		1098- 32479	Author Participation (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.119
participant	0*	MAY		1098- 7751	
@typeCode	11	SHALL		1098- 7752	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = DEV
participantRole	11	SHALL		1098- 15911	Product Instance (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.37
participant	0*	MAY		1098- 7765	
@typeCode	11	SHALL		1098- 7766	urn:oid:2.16.840.1.113883.5.9 0 (HL7ParticipationType) = LOC
participantRole	11	SHALL		1098- 15912	Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.32
entryRelationship	0*	MAY		1098- 7768	
@typeCode	11	SHALL		1098- 7769	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = COMP
@inversionInd	11	SHALL		1098- 8009	true
encounter	11	SHALL		1098- 7770	
@classCode	11	SHALL		1098- 7771	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	11	SHALL		1098- 7772	urn:oid:2.16.840.1.113883.5.1 001 (HL7ActMood) = EVN
id	11	SHALL		1098- 7773	
entryRelationship	01	MAY		1098-	

XPath	Card.	Verb	Data Type	CONF#	Value
				<u>7775</u>	
@typeCode	11	SHALL		1098- 7776	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = SUBJ
@inversionInd	11	SHALL		1098- 7777	true
act	11	SHALL		1098- 31395	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.20:2014-06-09
entryRelationship	0*	MAY		1098- 7779	
@typeCode	11	SHALL		1098- 7780	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = RSON
observation	11	SHALL		1098- 15914	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.19:2014-06-09
entryRelationship	0*	MAY		1098- 7886	
@typeCode	11	SHALL		1098- 7887	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = COMP
substanceAdministration	11	SHALL		1098- 15915	Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.16:2014-06-09
entryRelationship	0*	MAY		1098- 32473	
@typeCode	11	SHALL		<u>1098-</u> <u>32474</u>	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = COMP
observation	11	SHALL		1098- 32475	Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1 0.20.22.4.9:2014-06-09

- 1. **SHALL** contain exactly one [1..1] @classCode="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7652).
- 2. **SHALL** contain exactly one [1..1] **@moodCode="**EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7653).
- 3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7654) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.14" (CONF:1098-10521).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-06-09" (CONF:1098-32506).
- 4. **SHALL** contain at least one [1..*] **id** (CONF:1098-7655).
- 5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-7656).

- a. This code **SHOULD** contain zero or one [0..1] **originalText** (CONF:1098-19203).
 - i. The originalText, if present, **SHOULD** contain zero or one [0..1] **reference** (CONF:1098-19204).
 - 1. The reference, if present, **SHOULD** contain zero or one [0..1] @value (CONF:1098-19205).
 - 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:1098-19206).
- 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), and **MAY** be selected from CPT (CodeSystem: 2.16.840.1.113883.6.12) or ICD-10-PCS (CodeSystem: 2.16.840.1.113883.6.4) or CDT-2 (Code System: 2.16.840.1.113883.6.13) (CONF:1098-19207).
- 6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7661).
 - 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:1098-32366).
- 7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-7662).
- 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:1098-7668).
- 9. MAY contain zero or one [0..1] methodCode (CONF:1098-7670).
 - a. MethodCode **SHALL NOT** conflict with the method inherent in Procedure / code (CONF:1098-7890).

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:1098-7683).
- 11. MAY contain zero or more [0..*] specimen (CONF:1098-7697).
 - a. The specimen, if present, **SHALL** contain exactly one [1..1] **specimenRole** (CONF:1098-7704).
 - i. This specimenRole **should** contain zero or more [0..*] **id** (CONF:1098-7716).
 - 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:1098-29744).
 - b. This specimen is for representing specimens obtained from a procedure (CONF:1098-16842).
- 12. **SHOULD** contain zero or more [0..*] **performer** (CONF:1098-7718) such that it
 - a. **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-7720).
 - i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1098-7722).
 - This assignedEntity **SHALL** contain at least one [1..*] **addr** (CONF:1098-7731).

- iii. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:1098-7732).
- iv. This assignedEntity **SHOULD** contain zero or one [0..1] representedOrganization (CONF:1098-7733).
 - 1. The representedOrganization, if present, **should** contain zero or more [0..*] **id** (CONF:1098-7734).
 - 2. The representedOrganization, if present, **MAY** contain zero or more [0..*] **name** (CONF:1098-7735).
 - 3. The representedOrganization, if present, **SHALL** contain at least one [1..*] **telecom** (CONF:1098-7737).
 - 4. The representedOrganization, if present, **SHALL** contain at least one [1..*] **addr** (CONF:1098-7736).
- 13. **SHOULD** contain zero or more [0..*] <u>Author Participation</u> (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32479).
- 14. MAY contain zero or more [0..*] participant (CONF:1098-7751) 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:1098-7752).
 - b. **SHALL** contain exactly one [1..1] **Product Instance** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.37) (CONF:1098-15911).
- 15. MAY contain zero or more [0..*] participant (CONF:1098-7765) 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:1098-7766).
 - b. **SHALL** contain exactly one [1..1] <u>Service Delivery Location</u> (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32) (CONF:1098-15912).
- 16. MAY contain zero or more [0..*] entryRelationship (CONF:1098-7768) 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:1098-7769).
 - b. **SHALL** contain exactly one [1..1] @inversionInd="true" true (CONF:1098-8009).
 - c. **SHALL** contain exactly one [1..1] **encounter** (CONF:1098-7770).
 - 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:1098-7771).
 - 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:1098-7772).
 - iii. This encounter **SHALL** contain exactly one [1..1] **id** (CONF:1098-7773).
 - 1. Set the encounter ID to the ID of an encounter in another section to signify they are the same encounter (CONF:1098-16843).
- 17. MAY contain zero or one [0..1] entryRelationship (CONF:1098-7775) 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:1098-7776).

- b. **SHALL** contain exactly one [1..1] @inversionInd="true" true (CONF:1098-7777).
- 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:1098-31395).
- 18. MAY contain zero or more [0..*] entryRelationship (CONF:1098-7779) 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:1098-7780).
 - b. **SHALL** contain exactly one [1..1] <u>Indication (V2)</u> (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-15914).
- 19. MAY contain zero or more [0..*] entryRelationship (CONF:1098-7886) 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:1098-7887).
 - b. SHALL contain exactly one [1..1] <u>Medication Activity (V2)</u> (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09) (CONF:1098-15915).
- 20. MAY contain zero or more [0..*] entryRelationship (CONF:1098-32473) 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:1098-32474).
 - 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:1098-32475).

Figure 203: Procedure Activity Procedure (V2) Example

```
classCode="PROC" moodCode="EVN">
    <!-- Procedure Activity Procedure V2-->
    <templateId root="2.16.840.1.113883.10.20.22.4.14" extension="2014-06-09" />
    <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>
```

3.84 Procedure Context

[act: identifier urn:oid:2.16.840.1.113883.10.20.6.2.5 (open)]

Table 438: Procedure Context Contexts

Contained By:	Contains:
Diagnostic Imaging Report (V3) (optional)	

The ServiceEvent Procedure Context of the document header may be overridden in the CDA structured body if there is a need to refer to multiple imaging procedures or acts. The selection of the Procedure or Act entry from the clinical statement choice box depends on the nature of the imaging service that has been performed. The Procedure entry shall be used for image-guided interventions and minimally invasive imaging services, whereas the Act entry shall be used for diagnostic imaging services.