7. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the code **SHALL** be selected from ValueSet **Goal Achievement** urn:oid:2.16.840.1.113883.11.20.9.55 **DYNAMIC** (CONF:1098-31426).

Table 446: Goal Achievement

Value Set: Goal Achievement urn:oid:2.16.840.1.113883.11.20.9.55
(Clinical Focus: The Goal Achievement value set contains concepts that describe a patient's progression (or lack thereof) toward a goal.),(Data Element Scope: Goal attribute value in C-CDA template observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.110),(Inclusion Criteria: The following concepts from SNOMED CT: Self(390802008 | Goal achieved) and DescendentsAndSelf(390801001 | Goal not achieved).),(Exclusion Criteria: only as noted in inclusion criteria)

This value set was imported on 6/24/2019 with a version of 20190319.
Value Set Source:
https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.55/expansion

Code	Code System	Code System OID	Print Name
390801001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Goal not achieved (finding)
390802008	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Goal achieved (finding)
706905005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Goal not attainable (finding)
706906006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	No progress toward goal (finding)

Figure 208: Progress Toward Goal Observation Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.110" />
  <id root="2afcf057-aae4-47cf-bfee-b7498e300424" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <value xsi:type="CD" code="390802008" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT" displayName="Goal achieved" />
</observation>
```

3.88 Purpose of Reference Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.6.2.9 (open)]

Table 447: Purpose of Reference Observation Contexts

Contained By:	Contains:
SOP Instance Observation (optional)	

A Purpose of Reference Observation describes the purpose of the DICOM composite object reference. Appropriate codes, such as externally defined DICOM codes, may be used to specify the semantics of the purpose of reference. When this observation is absent, it implies that the reason for the reference is unknown.

Table 448: Purpose of Reference Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.9)					
@classCode	1..1	SHALL		81-9264	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		81-9265	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		81-9266	
@root	1..1	SHALL		81-10531	2.16.840.1.113883.10.20.6.2.9
code	1..1	SHALL		81-9267	
@code	0..1	SHOULD		81-19208	urn:oid:2.16.840.1.113883.5.4 (HL7ActCode) = ASSERTION
value	0..1	SHOULD	CD	81-9273	urn:oid:2.16.840.1.113883.11.20.9.28 (DICOMPurposeOfReference)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-9264).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:81-9265).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-9266) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.6.2.9" (CONF:81-10531).
4. **SHALL** contain exactly one [1..1] **code** (CONF:81-9267).
    a. This code **SHOULD** contain zero or one [0..1] **@code**="ASSERTION" Assertion (CodeSystem: HL7ActCode urn:oid:2.16.840.1.113883.5.4 **STATIC**) (CONF:81-19208).
    b. For backwards compatibility with the DICOM CMET, the code **MAY** be drawn from ValueSet 2.16.840.1.113883.11.20.9.28 DICOMPurposeOfReference DYNAMIC (CONF:81-19209).

The value element is a SHOULD to allow backwards compatibility with the DICOM CMET. Note that the use of ASSERTION for the code differs from the DICOM CMET. This is intentional. The DICOM CMET was created before the Term Info guidelines describing the use of the assertion pattern were released. It was determined that this IG should follow the latest Term Info guidelines. Implementers using both this IG and the DICOM CMET should be aware of this difference and apply appropriate transformations.

5. **SHOULD** contain zero or one [0..1] **value** with @xsi:type="CD", where the code **SHOULD** be selected from ValueSet **DICOMPurposeOfReference** urn:oid:2.16.840.1.113883.11.20.9.28 **DYNAMIC** (CONF:81-9273).

Table 449: DICOMPurposeOfReference

Value Set: DICOMPurposeOfReference urn:oid:2.16.840.1.113883.11.20.9.28 Value Set Source: http://www.hl7.org			
Code	**Code System**	**Code System OID**	**Print Name**
121079	DCM	urn:oid:1.2.840.10008.2.16.4	Baseline
121080	DCM	urn:oid:1.2.840.10008.2.16.4	Best illustration of finding
121112	DCM	urn:oid:1.2.840.10008.2.16.4	Source of Measurement

Figure 209: Purpose of Reference Observation Example

```
<observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.6.2.9"/>
    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
    <value xsi:type="CD" code="121112" codeSystem="1.2.840.10008.2.16.4"
       codeSystemName="DCM"
       displayName="Source of Measurement"/>
</observation>
```

3.89 Quantity Measurement Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.6.2.14 (open)]

Table 450: Quantity Measurement Observation Contexts

Contained By:	**Contains:**
Text Observation (optional) Code Observations (optional) Diagnostic Imaging Report (V3) (optional)	SOP Instance Observation (optional)

A Quantity Measurement Observation records quantity measurements based on image data such as linear, area, volume, and numeric measurements. The codes in DIRQuantityMeasurementTypeCodes (ValueSet: 2.16.840.1.113883.11.20.9.29) are from the qualifier hierarchy of SNOMED CT and are not valid for observation/code according to the Term Info guidelines. These codes can be used for backwards compatibility, but going forward, codes from the observable entity hierarchy will be requested and used.