the Value Set, @nullFlavor **SHOULD** be "OTH" and the known diagnosis code **SHOULD** be placed in the translation element (CONF:1098-14293).

11. **MAY** contain zero or one [0..1] **methodCode** (CONF:1098-14316).

3.34 Goal Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.121 (open)]

Table 298: Goal Observation Contexts

Contained By:	Contains:
Plan of Treatment Section (V2) (optional)	Goal Observation (optional)
Goals Section (required)	Priority Preference (optional)
Goal Observation (optional)	Author Participation (optional)
	Entry Reference (optional)
	External Document Reference (optional)

This template represents a patient health goal. A Goal Observation template may have related components that are acts, encounters, observations, procedures, substance administrations, or supplies.

A goal may be a patient or provider goal. If the author is set to the recordTarget (patient), this is a patient goal. If the author is set to a provider, this is a provider goal. If both patient and provider are set as authors, this is a negotiated goal.

A goal usually has a related health concern and/or risk.

A goal may have components consisting of other goals (milestones). These milestones are related to the overall goal through entryRelationships.

Table 299: Goal Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.121)					
@classCode	1..1	SHALL		1098-30418	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-30419	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = GOL
templateId	1..1	SHALL		1098-8583	
@root	1..1	SHALL		1098-10512	2.16.840.1.113883.10.20.22.4.121
@extension	0..0	SHALL NOT		1098-32953	
id	1..*	SHALL		1098-32332	
code	1..1	SHALL		1098-30784	urn:oid:2.16.840.1.113883.6.1 (LOINC)
statusCode	1..1	SHALL		1098-32333	

XPath	Card.	Verb	Data Type	CONF#	Value
@code	1..1	SHALL		[1098-32334](#)	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = active
effectiveTime	0..1	SHOULD		[1098-32335](#)	
value	0..1	MAY		[1098-32743](#)	
author	0..*	SHOULD		[1098-30995](#)	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119
entryRelationship	0..*	MAY		[1098-30701](#)	
@typeCode	1..1	SHALL		[1098-30702](#)	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		[1098-30703](#)	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122
entryRelationship	0..*	MAY		[1098-30704](#)	
@typeCode	1..1	SHALL		[1098-30705](#)	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
act	1..1	SHALL		[1098-32879](#)	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122
entryRelationship	0..1	SHOULD		[1098-30785](#)	
@typeCode	1..1	SHALL		[1098-30786](#)	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		[1098-30787](#)	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143
entryRelationship	0..*	MAY		[1098-31448](#)	
@typeCode	1..1	SHALL		[1098-31449](#)	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
observation	1..1	SHALL		[1098-32880](#)	Goal Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.121
entryRelationship	0..*	MAY		[1098-31559](#)	
@typeCode	1..1	SHALL		[1098-31560](#)	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR

XPath	Card.	Verb	Data Type	CONF#	Value
act	1..1	SHALL		1098-31588	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122
reference	0..*	MAY		1098-32754	
@typeCode	1..1	SHALL		1098-32755	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		1098-32756	External Document Reference (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-30418).
2. **SHALL** contain exactly one [1..1] **@moodCode**="GOL" Goal (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-30419).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-8583) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.121" (CONF:1098-10512).
   b. **SHALL NOT** contain [0..0] **@extension** (CONF:1098-32953).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-32332).
5. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from CodeSystem LOINC (urn:oid:2.16.840.1.113883.6.1) (CONF:1098-30784).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-32333).
   a. This statusCode **SHALL** contain exactly one [1..1] **@code**="active" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-32334).
7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-32335).
8. **MAY** contain zero or one [0..1] **value** (CONF:1098-32743).

If the author is the recordTarget (patient), this is a patient goal. If the author is a provider, this is a provider goal. If both patient and provider are authors, this is a negotiated goal. If no author is present, it is assumed the document or section author(s) is the author of this goal.

9. **SHOULD** contain zero or more [0..*] **Author Participation** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-30995).

The following entryRelationship represents the relationship between a Goal Observation and a Health Concern Act (Goal Observation REFERS TO Health Concern Act). As Health Concern Act is already defined in Health Concerns Section, rather than clone the whole Health Concern Act template, an Entry Reference may be used in entryRelationship to refer the template.

10. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-30701) such that it
   a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-30702).

b. **SHALL** contain exactly one [1..1] **Entry Reference** (identifier:
urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:1098-30703).

The following entryRelationship represents a planned component of the goal such as Planned
Encounter (V2), Planned Observation (V2), Planned Procedure (V2), Planned Medication Activity
(V2), Planned Supply (V2), Planned Act (V2) or Planned Immunization Activity. Because these
entries are already described in the Interventions Section of the CDA document instance,
rather than repeating the full content of the entries, the Entry Reference template may be used
to reference the entries.

11. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-30704) 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-
    30705).
    b. **SHALL** contain exactly one [1..1] **Entry Reference** (identifier:
    urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:1098-32879).

The following entryRelationship represents the priority that the patient or a provider puts on
the goal.

12. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:1098-30785) such that it
    a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem:
    HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-
    30786).
    b. **SHALL** contain exactly one [1..1] **Priority Preference** (identifier:
    urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-30787).

The following entryRelationship represents the relationship between two Goal Observations
where the target is a component of the source (Goal Observation HAS COMPONENT Goal
Observation). The component goal (target) is a Milestone.

13. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31448) 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-
    31449).
    b. **SHALL** contain exactly one [1..1] **Goal Observation** (identifier:
    urn:oid:2.16.840.1.113883.10.20.22.4.121) (CONF:1098-32880).

Where a Goal Observation needs to reference another entry already described in the CDA
document instance, rather than repeating the full content of the entry, the Entry Reference
template may be used to reference this entry.

14. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31559) such that it
    a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem:
    HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-
    31560).
    b. **SHALL** contain exactly one [1..1] **Entry Reference** (identifier:
    urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:1098-31588).

Where it is necessary to reference an external clinical document such a Referral document,
Discharge Summary document etc., the External Document Reference template can be used to
reference this document. However, if this Care Plan document is replacing or appending

another Care Plan document in the same set, that relationship is set in the header, using ClinicalDocument/relatedDocument.

15. **MAY** contain zero or more [0..*] **reference** (CONF:1098-32754).

   a. The reference, if present, **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32755).

   b. The reference, if present, **SHALL** contain exactly one [1..1] **External Document Reference** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09) (CONF:1098-32756).

Figure 154: Goal Observation Example

```
<observation classCode="OBS" moodCode="GOL">
  <templateId root="2.16.840.1.113883.10.20.22.4.121" />
  <id root="3700b3b0-fbed-11e2-b778-0800200c9a66" />
  <code code="59408-5"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Oxygen saturation in Arterial blood by Pulse oximetry" />
  <statusCode code="active" />
  <effectiveTime value="20130902" />
  <value xsi:type="IVL_PQ">
    <low value="92" unit="%" />
  </value>
  <!--
    If the author is set to the recordTarget (patient), this is a patient goal.
    If the author is set to a provider, this is a provider goal.
    If both patient and provider are set as authors, this is a negotiated goal.
  -->
  <!-- Provider Author -->
  <author>
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    ...
  </author>
  <!-- Patient Author -->
  <author typeCode="AUT">
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    ...
  </author>
  <!-- This entryRelationship represents the relationship "Goal REFERS TO Health Concern" -
->
  <entryRelationship typeCode="REFR">
    <!-- Entry Reference Concern Act -->
    <act classCode="ACT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.122" />
      <!-- This id points to an already defined Health Concern in the Health Concerns
Section -->
      <id root="4eab0e52-dd7d-4285-99eb-72d32ddb195c" />
      ...
    </act>
  </entryRelationship>
  <!-- Priority Preference -->
  <entryRelationship typeCode="RSON">
    <!-- Priority Preference - this is the preference that the patient
      (specified by the Author Participation template)
                  places on the Goal -->
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.143" />
      ...
    </observation>
  </entryRelationship>
  <!--  Priority Preference - this is the preference that the provider
    (specified by the Author Participation template)
     places on the Goal -->
  <entryRelationship typeCode="RSON">
    <!--  Priority Preference -->
    <observation classCode="OBS" moodCode="EVN">
```

```
        <templateId root="2.16.840.1.113883.10.20.22.4.143" />
        ...
    </observation>
  </entryRelationship>
</observation>
```

3.35 Handoff Communication Participants

[act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.141 (open)]

Table 300: Handoff Communication Participants Contexts

Contained By:	Contains:
Plan of Treatment Section (V2) (optional)	Author Participation (required)
Planned Intervention Act (V2) (optional)	
Intervention Act (V2) (optional)	
Interventions Section (V3) (optional)	

This template represents the sender (author) and receivers (participants) of a handoff communication in a plan of treatment. It does not convey details about the communication. The "handoff" process involves senders, those transmitting the patient's information and releasing the care of that patient to the next clinician, and receivers, those who accept the patient information and care of that patient.