

7. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD" (CONF:81-14599).
 - a. The code **SHALL** be selected from LOINC (codeSystem: 2.16.840.1.113883.6.1) or SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96) (CONF:81-14600).
8. **SHALL** contain at least one [1..*] **participant** (CONF:81-14227).
 - a. Such participants **SHALL** contain exactly one [1..1] **@typeCode="IND"** (CONF:81-26451).
 - b. Such participants **MAY** contain zero or one [0..1] **time** (CONF:81-14830).
 - i. The time, if present, **SHALL** contain exactly one [1..1] **low** (CONF:81-14831).
 - ii. The time, if present, **MAY** contain zero or one [0..1] **high** (CONF:81-14832).
 - c. Such participants **SHALL** contain exactly one [1..1] **participantRole** (CONF:81-14228).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode="CAREGIVER"** (CONF:81-14229).

Figure 132: Caregiver Characteristics Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.72"/>
  <id root="c6b5a04b-2bf4-49d1-8336-636a3813df0c"/>
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
  <statusCode code="completed"/>
  <value xsi:type="CD" code="422615001"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="caregiver difficulty providing
      physical care"/>
  <participant typeCode="IND">
    <participantRole classCode="CAREGIVER">
      <code code="MTH" codeSystem="2.16.840.1.113883.5.111"
        displayName="Mother"/>
    </participantRole>
  </participant>
</observation>
```

3.12 Characteristics of Home Environment

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.109 (open)]

Table 244: Characteristics of Home Environment Contexts

Contained By:	Contains:
Health Concern Act (V2) (optional) Risk Concern Act (V2) (optional) Social History Section (V3) (optional)	

This template represents the patient's home environment including, but not limited to, type of residence (trailer, single family home, assisted living), living arrangement (e.g., alone, with parents), and housing status (e.g., evicted, homeless, home owner).

Table 245: Characteristics of Home Environment Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.109)					
@classCode	1..1	SHALL		1098-27890	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-27891	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		1098-27892	
@root	1..1	SHALL		1098-27893	2.16.840.1.113883.10.20.22.4.109
id	1..*	SHALL		1098-27894	
code	1..1	SHALL		1098-31352	
@code	1..1	SHALL		1098-31353	75274-1
@codeSystem	1..1	SHALL		1098-31354	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1098-27901	
@code	1..1	SHALL		1098-27902	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL	CD	1098-28823	urn:oid:2.16.840.1.113883.11.20.9.49 (Residence and Accommodation Type)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-27890).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-27891).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-27892) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.109" (CONF:1098-27893).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-27894).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-31352).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="75274-1" Characteristics of residence (CONF:1098-31353).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1098-31354).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-27901).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-27902).

7. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the code **SHOULD** be selected from ValueSet [Residence and Accommodation Type](#) urn:oid:2.16.840.1.113883.11.20.9.49 **DYNAMIC** (CONF:1098-28823).

Table 246: Residence and Accommodation Type

Value Set: Residence and Accommodation Type urn:oid:2.16.840.1.113883.11.20.9.49 (Clinical Focus: A value set of SNOMED-CT codes descending from "365508006" "Residence and accommodation circumstances - finding" reflecting type of residence, status of accommodations, living situation and environment.), (Data Element Scope: element that is used to describe housing situation), (Inclusion Criteria: All descendants of 365508006), (Exclusion Criteria:) This value set was imported on 6/29/2019 with a version of 20190319. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.49/expansion			
Code	Code System	Code System OID	Print Name
105526001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Homeless family (finding)
105527005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Living in residence with poor sanitation (finding)
105530003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Living in residential institution (finding)
105531004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Housing unsatisfactory (finding)
105532006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Overcrowded in house (finding)
105535008	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Lack of heat in house (finding)
105536009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Living in housing without electricity (finding)
105537000	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Living in housing with technical defects (finding)
113165003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Duplex home living (finding)
11762561000 119103	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Assisted living facility patient (finding)
...			

Figure 133: Characteristics of Home Environment Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- ** Characteristics of Home Environment** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.109" />
  <id root="37f76c51-6411-4e1d-8a37-957fd49d2ceg" />
  <code code="75274-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="Characteristics of residence" />
  <statusCode code="completed" />
  <effectiveTime value="20130312" />
  <value xsi:type="CD" code="308899009" displayName="unsatisfactory living conditions
(finding)" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
</observation>
```

3.13 Code Observations

[observation: identifier urn:oid:2.16.840.1.113883.10.20.6.2.13 (open)]

Table 247: Code Observations Contexts

Contained By:	Contains:
Diagnostic Imaging Report (V3) (optional)	SOP Instance Observation (optional) Quantity Measurement Observation (optional)

DICOM Template 2000 specifies that Imaging Report Elements of Value Type Code are contained in sections. The Imaging Report Elements are inferred from Basic Diagnostic Imaging Report Observations that consist of image references and measurements (linear, area, volume, and numeric). Coded DICOM Imaging Report Elements in this context are mapped to CDA-coded observations that are section components and are related to the SOP Instance Observations (templateId 2.16.840.1.113883.10.20.6.2.8) or Quantity Measurement Observations (templateId 2.16.840.1.113883.10.20.6.2.14) by the SPRT (Support) act relationship.