

**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 248: Code Observations Contexts**

Contained By:	Contains:
<a href="#">Diagnostic Imaging Report (V3)</a> (optional)	<a href="#">SOP Instance Observation</a> (optional) <a href="#">Quantity Measurement Observation</a> (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.

**Table 249: Code Observations Constraints Overview**

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.13)					
@classCode	1..1	SHALL		<a href="#">81-9304</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		<a href="#">81-9305</a>	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		<a href="#">81-15523</a>	
@root	1..1	SHALL		<a href="#">81-15524</a>	2.16.840.1.113883.10.20.6.2.13
code	1..1	SHALL		<a href="#">81-19181</a>	
effectiveTime	0..1	SHOULD		<a href="#">81-9309</a>	
value	1..1	SHALL		<a href="#">81-9308</a>	
entryRelationship	0..*	MAY		<a href="#">81-9311</a>	
@typeCode	1..1	SHALL		<a href="#">81-9312</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SPRT
observation	1..1	SHALL		<a href="#">81-16083</a>	<a href="#">SOP Instance Observation (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.8)</a>
entryRelationship	0..*	MAY		<a href="#">81-9314</a>	
@typeCode	1..1	SHALL		<a href="#">81-9315</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SPRT
observation	1..1	SHALL		<a href="#">81-16084</a>	<a href="#">Quantity Measurement Observation (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.14)</a>

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-9304).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:81-9305).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-15523).
  - a. This templateId **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.6.2.13" (CONF:81-15524).
4. **SHALL** contain exactly one [1..1] **code** (CONF:81-19181).
5. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:81-9309).
6. **SHALL** contain exactly one [1..1] **value** (CONF:81-9308).
7. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:81-9311) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode**="SPRT" Has Support (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:81-9312).

- b. **SHALL** contain exactly one [1..1] [SOP Instance Observation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.8) (CONF:81-16083).
8. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:81-9314) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode="SPRT"** Has Support (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:81-9315).
  - b. **SHALL** contain exactly one [1..1] [Quantity Measurement Observation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.14) (CONF:81-16084).
9. Code Observations **SHALL** be rendered into section/text in separate paragraphs (CONF:81-9310).

**Figure 134: Code Observations Example**

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.6.2.13"/>
  <code code="18782-3" codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Study observation"/>
  <statusCode code="completed"/>
  <value xsi:type="CD" code="309530007"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Hilar mass"/>
  <!-- entryRelationship elements referring to SOP Instance Observations
    or Quantity Measurement Observations may appear here -->
</observation>
```

### 3.14 Cognitive Status Problem Observation (DEPRECATED)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.73:2014-06-09  
(open)]

**Table 250: Cognitive Status Problem Observation (DEPRECATED) Contexts**

Contained By:	Contains:
<a href="#">Functional Status Section (V2)</a> (optional)	

A cognitive status problem observation is a clinical statement that describes a patient's cognitive condition, findings, or symptoms. Examples of cognitive problem observations are inability to recall, amnesia, dementia, and aggressive behavior.

A cognitive problem observation is a finding or medical condition. This is different from a cognitive result observation, which is a response to a question that provides insight into the patient's cognitive status, judgement, comprehension ability, or response speed.

THIS TEMPLATE HAS BEEN DEPRECATED AND MAY BE DELETED FROM A FUTURE RELEASE OF THIS IMPLEMENTATION GUIDE. USE OF THIS TEMPLATE IS NOT RECOMMENDED.

*Reason for deprecation:* Cognitive Status Problem Observation has been merged, without loss of expressivity, into Mental Status Observation (2.16.840.1.113883.10.20.22.4.74).