

**Table 241: Boundary Observation Constraints Overview**

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.11)					
@classCode	1..1	SHALL		<a href="#">81-9282</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		<a href="#">81-9283</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = EVN
code	1..1	SHALL		<a href="#">81-9284</a>	
@code	1..1	SHALL		<a href="#">81-19157</a>	urn:oid:1.2.840.10008.2.16.4 (DCM) = 113036
value	1..*	SHALL	INT	<a href="#">81-9285</a>	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-9282).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-9283).
3. **SHALL** contain exactly one [1..1] **code** (CONF:81-9284).
  - a. This code **SHALL** contain exactly one [1..1] **@code**="113036" Frames for Display (CodeSystem: DCM urn:oid:1.2.840.10008.2.16.4 **STATIC**) (CONF:81-19157).

Each number represents a frame for display.

4. **SHALL** contain at least one [1..\*] **value** with **@xsi:type**="INT" (CONF:81-9285).

**Figure 131: Boundary Observation Example**

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.6.2.11"/>
  <code code="113036" codeSystem="1.2.840.10008.2.16.4"
    displayName="Frames for Display"/>
  <value xsi:type="INT" value="1"/>
</observation>
```

### 3.11 Caregiver Characteristics

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.72 (open)]

**Table 242: Caregiver Characteristics Contexts**

Contained By:	Contains:
<a href="#">Functional Status Section (V2)</a> (optional) <a href="#">Functional Status Observation (V2)</a> (optional) <a href="#">Health Concern Act (V2)</a> (optional) <a href="#">Risk Concern Act (V2)</a> (optional) <a href="#">Social History Section (V3)</a> (optional)	

This clinical statement represents a caregiver's willingness to provide care and the abilities of that caregiver to provide assistance to a patient in relation to a specific need.

**Table 243: Caregiver Characteristics Constraints Overview**

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.72)					
@classCode	1..1	SHALL		<a href="#">81-14219</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		<a href="#">81-14220</a>	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		<a href="#">81-14221</a>	
@root	1..1	SHALL		<a href="#">81-14222</a>	2.16.840.1.113883.10.20.22.4.72
id	1..*	SHALL		<a href="#">81-14223</a>	
code	1..1	SHALL		<a href="#">81-14230</a>	
statusCode	1..1	SHALL		<a href="#">81-14233</a>	
@code	1..1	SHALL		<a href="#">81-19090</a>	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL	CD	<a href="#">81-14599</a>	
participant	1..*	SHALL		<a href="#">81-14227</a>	
@typeCode	1..1	SHALL		<a href="#">81-26451</a>	IND
time	0..1	MAY		<a href="#">81-14830</a>	
low	1..1	SHALL		<a href="#">81-14831</a>	
high	0..1	MAY		<a href="#">81-14832</a>	
participantRole	1..1	SHALL		<a href="#">81-14228</a>	
@classCode	1..1	SHALL		<a href="#">81-14229</a>	CAREGIVER

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-14219).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:81-14220).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-14221) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.72" (CONF:81-14222).
4. **SHALL** contain at least one [1..\*] **id** (CONF:81-14223).
5. **SHALL** contain exactly one [1..1] **code** (CONF:81-14230).
  - a. This code **MAY** be drawn from LOINC (CodeSystem: LOINC 2.16.840.1.113883.6.1) or **MAY** be bound to ASSERTION (CodeSystem: ActCode 2.16.840.1.113883.5.4 **STATIC**) (CONF:81-26513).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:81-14233).
  - 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:81-19090).

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:
<a href="#">Health Concern Act (V2)</a> (optional) <a href="#">Risk Concern Act (V2)</a> (optional) <a href="#">Social History Section (V3)</a> (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).