Table 242: 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		81-9282	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		81-9283	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = EVN
code	1..1	SHALL		81-9284	
@code	1..1	SHALL		81-19157	urn:oid:1.2.840.10008.2.16.4 (DCM) = 113036
value	1..*	SHALL	INT	81-9285	

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 243: Caregiver Characteristics Contexts

Contained By:	Contains:
Functional Status Section (V2) (optional) Functional Status Observation (V2) (optional) Health Concern Act (V2) (optional) Risk Concern Act (V2) (optional) Social History Section (V3) (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 244: 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		81-14219	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		81-14220	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		81-14221	
@root	1..1	SHALL		81-14222	2.16.840.1.113883.10.20.22.4.72
id	1..*	SHALL		81-14223	
code	1..1	SHALL		81-14230	
statusCode	1..1	SHALL		81-14233	
@code	1..1	SHALL		81-19090	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL	CD	81-14599	
participant	1..*	SHALL		81-14227	
@typeCode	1..1	SHALL		81-26451	IND
time	0..1	MAY		81-14830	
low	1..1	SHALL		81-14831	
high	0..1	MAY		81-14832	
participantRole	1..1	SHALL		81-14228	
@classCode	1..1	SHALL		81-14229	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 245: Characteristics of Home Environment Contexts

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