

**Figure 27: Procedure Activity Procedure Social Determinant of Health Intervention Example**

```
<procedure classCode="PROC" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.14"/>
  <templateId root="2.16.840.1.113883.10.20.22.4.14"
    extension="2014-06-09"/>
  <templateId root="2.16.840.1.113883.10.20.22.4.14"
    extension="2022-06-01"/>
  <id extension="2448483" root="1.2.840.114350.1.13.5552.1.7.2.798268"/>
  <code code="61310001" codeSystem="2.16.840.1.113883.6.96"
    displayName="Nutrition education" codeSystemName="SNOMED-CT">
    <originalText>
      <reference value="#ProcedureDesc3"/>
    </originalText>
    <translation code="97802" codeSystem="2.16.840.1.113883.6.12"
      displayName="Medical nutrition therapy; initial"
      codeSystemName="CPT"/>
    <translation code="S9470" codeSystem="2.16.840.1.113883.6.13"
      displayName="Nutritional counseling, diet"
      codeSystemName="HCPSC"/>
  </code>
  <text>
    <reference value="#Procedure1"/>
  </text>
  <statusCode code="completed"/>
  <effectiveTime value="20160413"/>
</procedure>
```

### 3.16 Section Time Range Observation

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.201:2016-06-01 (open)]

This observation represents the date and time range of the information contained in a section. It is an optional entry and may be used in any section.

**Table 27: Section Time Range Observation Constraints Overview**

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.201:2016-06-01)					
@classCode	1..1	SHALL		<a href="#">3250-32960</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		<a href="#">3250-32961</a>	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		<a href="#">3250-32951</a>	
@root	1..1	SHALL		<a href="#">3250-32955</a>	2.16.840.1.113883.10.20.22.4.201
@extension	1..1	SHALL		<a href="#">3250-32956</a>	2016-06-01
code	1..1	SHALL		<a href="#">3250-32952</a>	
@code	1..1	SHALL		<a href="#">3250-32957</a>	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 82607-3
@codeSystem	1..1	SHALL		<a href="#">3250-32958</a>	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
text	1..1	SHALL		<a href="#">3250-32962</a>	
reference	1..1	SHALL		<a href="#">3250-32963</a>	
@value	1..1	SHALL		<a href="#">3250-32964</a>	
statusCode	1..1	SHALL		<a href="#">3250-32950</a>	
@code	1..1	SHALL		<a href="#">3250-32954</a>	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL	IVL_TS	<a href="#">3250-32953</a>	
low	1..1	SHALL		<a href="#">3250-32965</a>	
high	1..1	SHALL		<a href="#">3250-32966</a>	

221. **SHALL** contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3250-32960).

222. **SHALL** contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3250-32961).

223. **SHALL** contain exactly one [1..1] templateId (CONF:3250-32951) such that it

a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.201" (CONF:3250-32955).

b. **SHALL** contain exactly one [1..1] @extension="2016-06-01" (CONF:3250-32956).

224. **SHALL** contain exactly one [1..1] **code** (CONF:3250-32952).
  - a. This code **SHALL** contain exactly one [1..1] **@code**="82607-3" Section Time Range (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1 **STATIC**) (CONF:3250-32957).
  - 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 **STATIC**) (CONF:3250-32958).
225. **SHALL** contain exactly one [1..1] **text** (CONF:3250-32962).
  - a. This text **SHALL** contain exactly one [1..1] **reference** (CONF:3250-32963).
    - i. This reference **SHALL** contain exactly one [1..1] **@value** (CONF:3250-32964).
226. **SHALL** contain exactly one [1..1] **statusCode** (CONF:3250-32950).
  - 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:3250-32954).
227. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="IVL\_TS" (CONF:3250-32953).
  - a. This value **SHALL** contain exactly one [1..1] **low** (CONF:3250-32965).
  - b. This value **SHALL** contain exactly one [1..1] **high** (CONF:3250-32966).

**Figure 28: Section Time Range Example**

```
<!-- Section Time Range Observation -->
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.68.99999"/>
  <code code="X-SECTIONTIMERANGE" codeSystem="2.16.840.1.113883.6.1"
    displayName="Section Date and Time Range"/>
  <text>
    <reference value="#TS_Narrative1"/>
  </text>
  <statusCode code="completed"/>
  <value xsi:type="IVL_TS">
    <low value="20120815"/>
    <high value="20150815"/>
  </value>
</observation>
```

### 3.17 Sexual Orientation Observation

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.501:2022-06-01 (open)]
```

This observation represents the sexual orientation of the patient, defined as:

A person's identification of their emotional, romantic, sexual, or affectional attraction to another person.

This template was informed by the HL7 Gender Harmony project.

This observation is not appropriate for recording patient gender (administrativeGender), Gender Identity (Gender Identity Observation), or birth sex (Birth Sex Observation).

**Table 28: Sexual Orientation Observation Constraints Overview**

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.501:2022-06-01)					
@classCode	1..1	SHALL		<a href="#">4515-193</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		<a href="#">4515-194</a>	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		<a href="#">4515-185</a>	
@root	1..1	SHALL		<a href="#">4515-188</a>	2.16.840.1.113883.10.20.22.4.501
@extension	1..1	SHALL		<a href="#">4515-189</a>	2022-06-01
code	1..1	SHALL		<a href="#">4515-186</a>	
@code	1..1	SHALL		<a href="#">4515-190</a>	76690-7
@codeSystem	1..1	SHALL		<a href="#">4515-191</a>	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		<a href="#">4515-32881</a>	
@code	1..1	SHALL		<a href="#">4515-32883</a>	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	1..1	SHALL		<a href="#">4515-32882</a>	
low	1..1	SHALL		<a href="#">4515-32884</a>	
high	0..1	MAY		<a href="#">4515-32885</a>	
value	1..1	SHALL	CD	<a href="#">4515-187</a>	urn:oid:2.16.840.1.113762.1.4.1021.33 (Sexual Orientation)
@nullFlavor	0..1	MAY		<a href="#">4515-192</a>	urn:oid:2.16.840.1.113762.1.4.1021.103 (Other or unknown or refused to answer)

228. Conforms to Social History Observation (V3) template (identifier:

urn:hl7ii:2.16.840.1.113883.10.20.22.4.38:2015-08-01).

229. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:4515-193).

230. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:4515-194).

231. **SHALL** contain exactly one [1..1] **templateId** (CONF:4515-185) such that it

a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.501" (CONF:4515-188).

b. **SHALL** contain exactly one [1..1] **@extension**="2022-06-01" (CONF:4515-189).

232. **SHALL** contain exactly one [1..1] **code** (CONF:4515-186).

- a. This code **SHALL** contain exactly one [1..1] @code="76690-7" Sexual Orientation (CONF:4515-190).
  - 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 **STATIC**) (CONF:4515-191).
233. **SHALL** contain exactly one [1..1] **statusCode** (CONF:4515-32881).
- a. This statusCode **SHALL** contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:4515-32883).
234. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:4515-32882).

The effectiveTime represents the relevant time of the observation. A patient's "sexual orientation" may change and using effectiveTime/low and effectiveTime/high defines the time during which the patient had identified their emotional, romantic, sexual, or affectional attraction to another person.

- a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:4515-32884).
  - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:4515-32885).
235. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the code **SHALL** be selected from ValueSet [Sexual Orientation](#) urn:oid:2.16.840.1.113762.1.4.1021.33 **DYNAMIC** (CONF:4515-187).

To represent additional orientations, set nullFlavor="OTH". To represent "choose not to disclose", set nullFlavor="ASKU". To represent "Don't know", set nullFlavor="UNK"

- a. This value **MAY** contain zero or one [0..1] @nullFlavor, which **SHOULD** be selected from ValueSet [Other or unknown or refused to answer](#) urn:oid:2.16.840.1.113762.1.4.1021.103 **DYNAMIC** (CONF:4515-192).

**Figure 29: Sexual Orientation Observation Example**

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.501" extension="2022-06-01"/>
  <id root="7919e027-592e-4f22-9344-12460ec8c368" />
  <code code="76690-7"
    displayName="Sexual Orientation"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC" />
  <statusCode code="completed" />
  <effectiveTime>
    <low value="201211" />
  </effectiveTime>
  <value xsi:type="CD" code="20430005"
    displayName="Heterosexual state"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" />
</observation>
```