

**Figure 33: Social Determinant of Health Text Goal Example**

```
<component>
  <section>
    <!-- Goals Section -->
    <templateId root="2.16.840.1.113883.10.20.22.2.60"/>
    <code code="61146-7" displayName="Goals" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
    <title>Goals Section</title>
    <text>
      <paragraph ID="Goals">Patient wants to move into Cherry Street subsidized
housing</paragraph>
    </text>
    <entry>
      <!-- Goal Observation -->
      <observation classCode="OBS" moodCode="GOL">
        <!-- Goal Observation -->
        <templateId root="2.16.840.1.113883.10.20.22.4.121"/>
        <templateId root="2.16.840.1.113883.10.20.22.4.121" extension="2022-06-
01"/>

        <!-- If you have an id for your goal, include here -->
        <id nullFlavor="UNK"/>
        <code nullFlavor="UNK"/>
        <text>
          <reference value="#Goals"></reference>
        </text>
        <statusCode code="active"/>
        <!-- Author could be included to indicate a patient authored goal or a
provider different than the document or section author. -->
      </observation>
    </entry>
  </section>
</component>
```

### 3.12 Health Concern Act (V3)

```
[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.132:2022-06-01
(open) ]
```

This template represents a health concern.

It is a wrapper for a single health concern which may be derived from a variety of sources within an EHR (such as Problem List, Family History, Social History, Social Worker Note, etc.).

A Health Concern Act is used to track non-optimal physical or psychological situations drawing the patient to the healthcare system. These may be from the perspective of the care team or from the perspective of the patient.

When the underlying condition is of concern (i.e., as long as the condition, whether active or resolved, is of ongoing concern and interest), the statusCode is “active”. Only when the underlying condition is no longer of concern is the statusCode set to “completed”. The effectiveTime reflects the time that the underlying condition was felt to be a concern; it may or may not correspond to the effectiveTime of the condition (e.g., even five years later, a prior heart attack may remain a concern).

Health concerns require intervention(s) to increase the likelihood of achieving the goals of care for the patient and they specify the condition oriented reasons for creating the plan.

**Table 48: Health Concern Act (V3) Constraints Overview**

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.132:2022-06-01)					
@classCode	1..1	SHALL		<a href="#">4515-30750</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		<a href="#">4515-30751</a>	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		<a href="#">4515-30752</a>	
@root	1..1	SHALL		<a href="#">4515-30753</a>	2.16.840.1.113883.10.20.22.4.132
@extension	1..1	SHALL		<a href="#">4515-32861</a>	2022-06-01
id	1..*	SHALL		<a href="#">4515-30754</a>	
code	1..1	SHALL		<a href="#">4515-32310</a>	
@code	1..1	SHALL		<a href="#">4515-32311</a>	75310-3
@codeSystem	1..1	SHALL		<a href="#">4515-32312</a>	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		<a href="#">4515-30758</a>	
@code	1..1	SHALL		<a href="#">4515-32313</a>	urn:oid:2.16.840.1.113883.11.20.9.19 (ProblemAct statusCode)
effectiveTime	0..1	MAY		<a href="#">4515-30759</a>	
author	0..*	SHOULD		<a href="#">4515-31546</a>	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..*	MAY		<a href="#">4515-30761</a>	
@typeCode	1..1	SHALL		<a href="#">4515-30762</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31001</a>	Problem Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2015-08-01)
entryRelationship	0..*	MAY		<a href="#">4515-31007</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31008</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR

XPath	Card.	Verb	Data Type	CONF#	Value
observation	1..1	SHALL		<a href="#">4515-31186</a>	Allergy - Intolerance Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09)
entryRelationship	0..*	MAY		<a href="#">4515-31157</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31158</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		<a href="#">4515-32106</a>	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122)
entryRelationship	0..*	MAY		<a href="#">4515-31160</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31161</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
act	1..1	SHALL		<a href="#">4515-32107</a>	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122)
entryRelationship	0..*	MAY		<a href="#">4515-31190</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31191</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31192</a>	Assessment Scale Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.69)
entryRelationship	0..*	MAY		<a href="#">4515-31232</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31264</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31265</a>	Self-Care Activities (ADL and IADL) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.128)
entryRelationship	0..*	MAY		<a href="#">4515-31234</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31268</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31273</a>	Mental Status Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.74:2015-08-01)
entryRelationship	0..*	MAY		<a href="#">4515-</a>	

XPath	Card.	Verb	Data Type	CONF#	Value
				<a href="#">31235</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31269</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31275</a>	Smoking Status - Meaningful Use (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.78:2014-06-09)
entryRelationship	0..*	MAY		<a href="#">4515-31236</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31270</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		<a href="#">4515-31277</a>	Encounter Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.80:2015-08-01)
entryRelationship	0..*	MAY		<a href="#">4515-31237</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31279</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
organizer	1..1	SHALL		<a href="#">4515-31280</a>	Family History Organizer (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.45:2015-08-01)
entryRelationship	0..*	MAY		<a href="#">4515-31238</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31282</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31283</a>	Functional Status Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.67:2014-06-09)
entryRelationship	0..*	MAY		<a href="#">4515-31241</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31291</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		<a href="#">4515-31292</a>	Hospital Admission Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.34:2015-08-01)
entryRelationship	0..*	MAY		<a href="#">4515-31244</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31300</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType)

XPath	Card.	Verb	Data Type	CONF#	Value
					= REFR
observation	1..1	SHALL		<a href="#">4515-31301</a>	Nutrition Assessment (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.138
entryRelationship	0..*	MAY		<a href="#">4515-31246</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31306</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		<a href="#">4515-31307</a>	Postprocedure Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.51:2015-08-01
entryRelationship	0..*	MAY		<a href="#">4515-31247</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31309</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31310</a>	Pregnancy Observation (identifier: urn:oid:2.16.840.1.113883.10.20.15.3.8
entryRelationship	0..*	MAY		<a href="#">4515-31248</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31312</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		<a href="#">4515-31313</a>	Preoperative Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.65:2015-08-01
entryRelationship	0..*	MAY		<a href="#">4515-31250</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31318</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31319</a>	Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09
entryRelationship	0..*	MAY		<a href="#">4515-31251</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31321</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31322</a>	Result Observation (V3) (identifier:

XPath	Card.	Verb	Data Type	CONF#	Value
					urn:hl7ii:2.16.840.1.113883.10.20.22.4.2:2015-08-01
entryRelationship	0..*	MAY		<a href="#">4515-31252</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31324</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31325</a>	Sensory Status (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.127
entryRelationship	0..*	MAY		<a href="#">4515-31253</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31327</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31328</a>	Social History Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.38:2015-08-01
entryRelationship	0..*	MAY		<a href="#">4515-31254</a>	
@typeCode	1..1	SHALL		<a href="#">4515-32961</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31331</a>	Substance or Device Allergy - Intolerance Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09
entryRelationship	0..*	MAY		<a href="#">4515-31255</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31333</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31334</a>	Tobacco Use (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.85:2014-06-09
entryRelationship	0..*	MAY		<a href="#">4515-31256</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31336</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31337</a>	Vital Sign Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.27:2014-06-09
entryRelationship	0..*	MAY		<a href="#">4515-31257</a>	

XPath	Card.	Verb	Data Type	CONF#	Value
@typeCode	1..1	SHALL		<a href="#">4515-31339</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31340</a>	Longitudinal Care Wound Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.114:2015-08-01
entryRelationship	0..*	MAY		<a href="#">4515-31365</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31366</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SPRT
observation	1..1	SHALL		<a href="#">4515-31367</a>	Problem Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2015-08-01
entryRelationship	0..*	MAY		<a href="#">4515-31368</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31369</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31370</a>	Caregiver Characteristics (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.72
entryRelationship	0..*	MAY		<a href="#">4515-31371</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31372</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31373</a>	Cultural and Religious Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.111
entryRelationship	0..*	MAY		<a href="#">4515-31374</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31375</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31376</a>	Characteristics of Home Environment (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.109
entryRelationship	0..*	MAY		<a href="#">4515-31377</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31378</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR

XPath	Card.	Verb	Data Type	CONF#	Value
observation	1..1	SHALL		<a href="#">4515-31379</a>	Nutritional Status Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.124
entryRelationship	0..*	MAY		<a href="#">4515-31380</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31381</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
organizer	1..1	SHALL		<a href="#">4515-31382</a>	Result Organizer (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.1:2015-08-01
entryRelationship	0..*	MAY		<a href="#">4515-31442</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31443</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">4515-31444</a>	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143
entryRelationship	0..*	MAY		<a href="#">4515-31549</a>	
@typeCode	1..1	SHALL		<a href="#">4515-31550</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		<a href="#">4515-31551</a>	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122
reference	0..*	MAY		<a href="#">4515-32757</a>	
@typeCode	1..1	SHALL		<a href="#">4515-32758</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		<a href="#">4515-32759</a>	External Document Reference (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:4515-30750).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:4515-30751).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:4515-30752) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.132" (CONF:4515-30753).



- b. **SHALL** contain exactly one [1..1] **@extension**="2022-06-01" (CONF:4515-32861).
- 4. **SHALL** contain at least one [1..\*] **id** (CONF:4515-30754).
- 5. **SHALL** contain exactly one [1..1] **code** (CONF:4515-32310).
  - a. This code **SHALL** contain exactly one [1..1] **@code**="75310-3" Health Concern (CONF:4515-32311).
  - 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:4515-32312).
- 6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:4515-30758).
  - a. This statusCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [ProblemAct statusCode](#) urn:oid:2.16.840.1.113883.11.20.9.19 **STATIC** (CONF:4515-32313).
- 7. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:4515-30759).

A health concern may be a patient or provider concern. If the author is set to the recordTarget (patient), this is a patient concern. If the author is set to a provider, this is a provider concern. If both patient and provider are set as authors, this is a concern of both the patient and the provider.

- 8. **SHOULD** contain zero or more [0..\*] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:4515-31546).
- 9. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-30761) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-30762).
  - b. **SHALL** contain exactly one [1..1] Problem Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2015-08-01) (CONF:4515-31001).
- 10. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31007) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31008).
  - b. **SHALL** contain exactly one [1..1] Allergy - Intolerance Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09) (CONF:4515-31186).

The following entryRelationship represents the relationship between two Health Concern Acts where there is a general relationship between the source and the target (Health Concern REFERS TO Health Concern). For example, a patient has 2 health concerns identified in a CARE Plan: Failure to Thrive and Poor Feeding, while it could be that one may have caused the other, at the time of care planning and documentation it is not necessary, nor desirable to have to assert what caused what. The Entry Reference template is used here because the target Health Concern Act will be defined elsewhere in the Health Concerns Section and thus a reference to that template is all that is required.

- 11. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31157) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31158).
- b. **SHALL** contain exactly one [1..1] Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:4515-32106).
  - i. The Entry Reference template **SHALL** contain an id that references a Health Concern Act (CONF:4515-32860).

The following entryRelationship represents the relationship between two Health Concern Acts where the target is a component of the source (Health Concern HAS COMPONENT Health Concern). For example, a patient has an Impaired Mobility Health Concern. There may then be the need to document several component health concerns, such as "Unable to Transfer Bed to Chair", "Unable to Rise from Commode", "Short of Breath Walking with Walker". The Entry Reference template is used here because the target Health Concern Act will be defined elsewhere in the Health Concerns Section and thus a reference to that template is all that is required.

- 12. **MAY** contain zero or more [0..\*] entryRelationship (CONF:4515-31160) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31161).
  - b. **SHALL** contain exactly one [1..1] Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:4515-32107).
    - i. The Entry Reference template **SHALL** contain an id that references a Health Concern Act (CONF:4515-32745).
- 13. **MAY** contain zero or more [0..\*] entryRelationship (CONF:4515-31190) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31191).
  - b. **SHALL** contain exactly one [1..1] Assessment Scale Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.69) (CONF:4515-31192).
- 14. **MAY** contain zero or more [0..\*] entryRelationship (CONF:4515-31232) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31264).
  - b. **SHALL** contain exactly one [1..1] Self-Care Activities (ADL and IADL) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.128) (CONF:4515-31265).
- 15. **MAY** contain zero or more [0..\*] entryRelationship (CONF:4515-31234) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31268).
  - b. **SHALL** contain exactly one [1..1] Mental Status Observation (V3) (identifier: urn:h17ii:2.16.840.1.113883.10.20.22.4.74:2015-08-01) (CONF:4515-31273).
- 16. **MAY** contain zero or more [0..\*] entryRelationship (CONF:4515-31235) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31269).
  - b. **SHALL** contain exactly one [1..1] Smoking Status - Meaningful Use (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.78:2014-06-09) (CONF:4515-31275).
- 17. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31236) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31270).
  - b. **SHALL** contain exactly one [1..1] Encounter Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.80:2015-08-01) (CONF:4515-31277).
- 18. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31237) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers To (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31279).
  - b. **SHALL** contain exactly one [1..1] Family History Organizer (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.45:2015-08-01) (CONF:4515-31280).
- 19. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31238) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31282).
  - b. **SHALL** contain exactly one [1..1] Functional Status Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.67:2014-06-09) (CONF:4515-31283).
- 20. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31241) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31291).
  - b. **SHALL** contain exactly one [1..1] Hospital Admission Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.34:2015-08-01) (CONF:4515-31292).
- 21. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31244) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31300).
  - b. **SHALL** contain exactly one [1..1] Nutrition Assessment (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.138) (CONF:4515-31301).
- 22. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31246) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31306).

- b. **SHALL** contain exactly one [1..1] Postprocedure Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.51:2015-08-01) (CONF:4515-31307).
- 23. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31247) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31309).
  - b. **SHALL** contain exactly one [1..1] Pregnancy Observation (identifier: urn:oid:2.16.840.1.113883.10.20.15.3.8) (CONF:4515-31310).
- 24. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31248) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31312).
  - b. **SHALL** contain exactly one [1..1] Preoperative Diagnosis (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.65:2015-08-01) (CONF:4515-31313).
- 25. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31250) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31318).
  - b. **SHALL** contain exactly one [1..1] Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09) (CONF:4515-31319).
- 26. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31251) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31321).
  - b. **SHALL** contain exactly one [1..1] Result Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.2:2015-08-01) (CONF:4515-31322).
- 27. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31252) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31324).
  - b. **SHALL** contain exactly one [1..1] Sensory Status (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.127) (CONF:4515-31325).
- 28. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31253) such that it
  - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31327).
  - b. **SHALL** contain exactly one [1..1] Social History Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.38:2015-08-01) (CONF:4515-31328).
- 29. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31254) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-32961).
  - b. **SHALL** contain exactly one [1..1] Substance or Device Allergy - Intolerance Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09) (CONF:4515-31331).
30. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31255) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31333).
  - b. **SHALL** contain exactly one [1..1] Tobacco Use (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.85:2014-06-09) (CONF:4515-31334).
31. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31256) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31336).
  - b. **SHALL** contain exactly one [1..1] Vital Sign Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.27:2014-06-09) (CONF:4515-31337).
32. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31257) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31339).
  - b. **SHALL** contain exactly one [1..1] Longitudinal Care Wound Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.114:2015-08-01) (CONF:4515-31340).

The following entryRelationship represents the relationship Health Concern HAS SUPPORT Observation.

33. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31365) 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) (CONF:4515-31366).
  - b. **SHALL** contain exactly one [1..1] Problem Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2015-08-01) (CONF:4515-31367).
34. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31368) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31369).
  - b. **SHALL** contain exactly one [1..1] Caregiver Characteristics (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.72) (CONF:4515-31370).
35. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31371) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31372).
  - b. **SHALL** contain exactly one [1..1] Cultural and Religious Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.111) (CONF:4515-31373).
36. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31374) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31375).
  - b. **SHALL** contain exactly one [1..1] Characteristics of Home Environment (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.109) (CONF:4515-31376).
37. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31377) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31378).
  - b. **SHALL** contain exactly one [1..1] Nutritional Status Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.124) (CONF:4515-31379).
38. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31380) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31381).
  - b. **SHALL** contain exactly one [1..1] Result Organizer (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.1:2015-08-01) (CONF:4515-31382).

The following entryRelationship represents the priority that the patient or a provider puts on the health concern.

39. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31442) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31443).
  - b. **SHALL** contain exactly one [1..1] Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:4515-31444).

Where a Health Concern needs to reference another entry already described in the CDA document instance, rather than repeating the full content of the entry, the Entry Reference template may be used to reference this entry.

40. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:4515-31549) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-31550).
  - b. **SHALL** contain exactly one [1..1] Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:4515-31551).

Where it is necessary to reference an external clinical document such as a Referral document, Discharge Summary document etc., the External Document Reference template can be used to

reference this document. However, if this Care Plan document is replacing or appending another Care Plan document in the same set, that relationship is set in the header, using ClinicalDocument/relatedDocument.

41. **MAY** contain zero or more [0..\*] **reference** (CONF:4515-32757).
- a. The reference, if present, **SHALL** contain exactly one [1..1] @**typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4515-32758).
  - b. The reference, if present, **SHALL** contain exactly one [1..1] External Document Reference (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09) (CONF:4515-32759).
42. When this Health Concern Act is a Social Determinant of Health Health Concern it **SHOULD** contain zero or more [0..\*] entryRelationship subentries such that it contains an observation with an observation/value selected from ValueSet [Social Determinant of Health Conditions 2.16.840.1.113762.1.4.1196.788](#)**DYNAMIC** (CONF:4515-32962).

**Table 49: ProblemAct statusCode**

Value Set: ProblemAct statusCode urn:oid:2.16.840.1.113883.11.20.9.19 A ValueSet of HL7 actStatus codes for use on the concern act Value Set Source: <a href="https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.19/expansion">https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.19/expansion</a>			
Code	Code System	Code System OID	Print Name
completed	HL7ActStatus	urn:oid:2.16.840.1.113883.5.14	Completed
aborted	HL7ActStatus	urn:oid:2.16.840.1.113883.5.14	Aborted
active	HL7ActStatus	urn:oid:2.16.840.1.113883.5.14	Active
suspended	HL7ActStatus	urn:oid:2.16.840.1.113883.5.14	Suspended

**Figure 34: Health Concern Act Example**

```
<act classCode="ACT" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.132" />
  <templateId root="2.16.840.1.113883.10.20.22.4.132" extension="2015-08-01"/>
  <templateId root="2.16.840.1.113883.10.20.22.4.132" extension="2022-06-01"/>
  <id root="4eab0e52-dd7d-4285-99eb-72d32ddb195c" />
  <code code="75310-3"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Health Concern" />
  <!-- This Health Concern has a statusCode of active because it is an active concern -->
  <statusCode code="active" />
  <!-- The effective time is the date that the Health Concern started being followed -
    this does not necessarily correlate to the onset date of the contained health issues--
>
  <effectiveTime value="20130616" />
  <!-- Health Concern: Current every day smoker-->
  <entryRelationship typeCode="REFR">
    <!-- Tobacco Use (V2) -->
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.85" extension="2014-06-09" />
      ...
    </observation>
  </entryRelationship>
  <!-- Health Concern Problem: Respiratory insufficiency -->
  <entryRelationship typeCode="REFR">
    <!-- Problem Observation (V2) -->
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- Health Concern Diagnosis: Pneumonia -->
  <entryRelationship typeCode="REFR">
    <!-- Problem Observation (V2) -->
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01" />
      ...
    </observation>
  </entryRelationship>
  <!--
    This is an entry relationship of the SPRT (support) type which shows
    that the productive cough supports the Health Concern (Problem: Respiratory
    Insufficiency and Diagnosis: Pneumonia
    This entryRelationship represents the relationship:
    Health Concern HAS SUPPORT Observation
  -->
  <entryRelationship typeCode="SPRT">
    <!-- Problem Observation (V2) -->
    <observation classCode="OBS" moodCode="EVN">
```



```

        <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01" />
    ...

    </observation>
</entryRelationship>
<!-- Priority Preference -->
<entryRelationship typeCode="RSON">
    <!-- Priority Preference - this is the preference that the patient
    (specified by the Author Participation template)
    places on the Health Concern -->
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.143" />
    ...

    </observation>
</entryRelationship>
<!-- Priority Preference - this is the preference that the provider
(specified by the Author Participation template)
places on the Health Concern -->
<entryRelationship typeCode="RSON">
    <!-- Priority Preference -->
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.143" />
    ...

    </observation>
</entryRelationship>
</act>

```

**Figure 35: Health Concern Act wrapping Social Determinant of Health Problem Observation Example**

```

<!-- The Health Concern act -->
<act classCode="ACT" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.132"/>
  <templateId root="2.16.840.1.113883.10.20.22.4.132"
    extension="2015-08-01"/>
  <templateId root="2.16.840.1.113883.10.20.22.4.132"
    extension="2022-06-01"/>
  <id root="1.3.6.1.4.1.22812.4.222.334.4.32" extension="1148128"/>
  <code code="75310-3" displayName="Health concerns Document"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  <statusCode code="active"/>
  <entryRelationship typeCode="REFR">
    <!-- The Health Concern's (SDOH) Problem Observation wrapped by the Health Concern
act -->
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.4"
        extension="2015-08-01"/>
      <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
      <id extension="1148128"
        root="1.3.6.1.4.1.22812.4.222.334.4.1.2.1"/>
      <code code="404684003"
        displayName="Clinical Finding (finding)"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT">
        <translation code="75321-0"
          displayName="Clinical Finding"
          codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC"/>
      </code>
      <text>
        <reference
          value="#_delab32d-dd06-40c0-b7c2-5fed94e4ecd6"/>
      </text>
      <statusCode code="completed"/>
      <effectiveTime xsi:type="IVL_TS">
        <low value="20180701"/>
        <!-- The high value has a nullFlavor of "NI" (No Information) because it is
an ongoing finding -->
        <high nullFlavor="NI"/>
      </effectiveTime>
      <value xsi:type="CD" code="733423003"
        displayName="Food insecurity (finding)"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT">
        <originalText>
          <reference value="#_HealthConcern1"/>
        </originalText>
      </value>
    </observation>
  </entryRelationship>
</act>

```

### 3.13 Indication (V3)

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2023-05-01  
(open) ]
```

This template represents the rationale for an action such as an encounter, a medication administration, or a procedure. The id element can be used to reference a problem recorded elsewhere in the document, or can be used with a code and value to record the problem. Indications for treatment are not laboratory results; rather the problem associated with the laboratory result should be cited (e.g., hypokalemia instead of a laboratory result of Potassium 2.0 mEq/L). Use the Drug Monitoring Act [templateId 2.16.840.1.113883.10.20.22.4.123] to indicate if a particular drug needs special monitoring (e.g., anticoagulant therapy). Use Precondition for Substance Administration (V2) [templateId 2.16.840.1.113883.10.20.22.4.25.2] to represent that a medication is to be administered only when the associated criteria are met.

Many templates in C-CDA R2.1 reference the Indications V2 Template. In the next C-CDA release we will update those templates to reference the Indications V3 template.

The Reason 2.16.840.1.113883.10.20.24.3.88:2023-05-01 should be used to represent the justification for an action, or for not performing an action, such as patient, system, or non-problem/diagnosis medical-related reasons

Immunization Refusal Reason 2.16.840.1.113883.10.20.22.4.53 should be used to represent the rationale for the patient declining an immunization as the value set is crafted for the immunization use case.