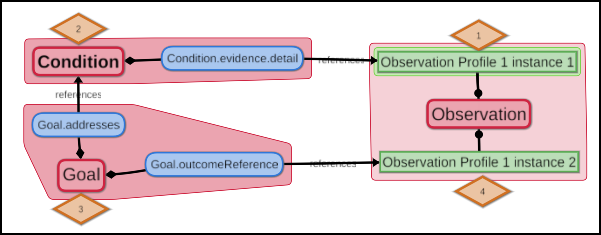
**SDOHCC\_Observation\_FoodInsecurity\_1**

**Additional Guidanc****e**

The FHIR Observation, Condition and Goal resources reference one another. Therefore, to support interoperability and analytics, similar approaches have been used in the structured representation of food insecurity observations, conditions and goals.

The diagram below shows the relationships between Observation, Condition and Goal.

An initial Observation (1) is evidence for a Condition (2) that is addressed by a Goal (3) that may have an outcome of a later Observation (4).



The sections that follow provide additional guidance on 1) rules to improve the integrity of data generated by this profile, 2) specific elements of this profile, and 3) efforts to align the profile with the following correlated Condition and Goal profiles:

* SDOHCC\_Condition\_FoodInsecurity\_1
* SDOHCC\_Goal\_FoodInsecurity\_1

**Observation.code**

This element references sdohcc\_ValueSet\_FoodInsecurity\_1. This value set contains the SNOMED CT codes listed below.

|  |  |
| --- | --- |
| Code | Display |
| 733423003 | Food insecurity (finding) |
| sdohcc-sctt-21000243108 | Mild food insecurity (finding) |
| sdohcc-sctt-31000243105 | Moderate food insecurity (finding) |
| sdohcc-sctt-41000243104 | Severe food insecurity (finding) |

This value set is also used for:

* Condition.code in SDOHCC\_Condition\_FoodInsecurity\_1

The consistent use of similar codes for a condition and an observation referenced as evidence for that condition will facilitate analytics and interoperability between Observation and Condition.

Example:

* SDOHCC\_Condition\_FoodInsecurity\_1 modeled with:
  + Condition code = Mild food insecurity

aligns with the observation that this condition references (via Condition.evidence.detail):

* SDOHCC\_Observation\_FoodInsecurity\_1 modeled with:
  + Observation code = Mild food insecurity
  + Observation value = Known present

**Observation.dataAbsentReason**

This element references the FHIR DataAbsentReason value set. Although the referenced FHIR value set contains more codes than the three below, only the codes listed below should be used for this profile.

|  |  |
| --- | --- |
| Code | Display |
| [unknown](http://hl7.org/fhir/R4/codesystem-data-absent-reason.html#data-absent-reason-unknown) | Unknown |
| [asked-unknown](http://hl7.org/fhir/R4/codesystem-data-absent-reason.html#data-absent-reason-asked-unknown) | Asked But Unknown |
| [asked-declined](http://hl7.org/fhir/R4/codesystem-data-absent-reason.html#data-absent-reason-asked-declined) | Asked But Declined |

**Observation.value**

This element references sdohcc\_ValueSet\_ContextValue\_1. This value set contains the SNOMED CT codes listed below.

|  |  |
| --- | --- |
| Code | Display |
| 410516002 | Known absent (qualifier value) |
| 410515003 | Known present (qualifier value) |

The Known absent (qualifier value) code in this value set is also used as a value for:

* Goal.target.detail in SDOHCC\_Goal\_FoodInsecurity\_1

The consistent use of similar codes for a goal and an observation referenced as an outcome for that goal will facilitate analytics and interoperability between Observation and Goal.

Example:

* SDOHCC\_Observation\_FoodInsecurity\_1 modeled with:
  + Observation code = Food insecurity
  + Observation value = Known absent

aligns with the goal that references this observation (via Goal.outcomeReference):

* SDOHCC\_Goal\_FoodInsecurity\_1 modeled with:
  + Goal description: Food security

and

* + Goal target measure = Food insecurity
  + Goal target detail = Known absent

**Observation.effective**

This element is constrained to “Period”. “Date” is not allowed since, unlike some observations (e.g., a seizure, body weight, etc.) that occur at a point in time, the observation of “Food insecurity” is about a state that is present over an extended period of time (e.g., the past month, year, etc.).

**FHIRpath rules**

This profile will use FHIRpath rules. The objective of the FHIRpath rules are to support creation of observations that clearly establish a patient’s food insecurity state.

Example: Moderate food insecurity = known present

FHIRpath rules will constrain the observations that can be created with this profile to:

* Food insecurity = unknown (and subtypes):
  + Food insecurity = asked-unknown
  + Food insecurity = asked-declined
* Food insecurity = known absent (Essentially the equivalent of “Food security known present”.)
* Food insecurity = known present (and subtypes):
  + Mild food insecurity = known present
  + Moderate food insecurity= known present
  + Severe food insecurity = known present

**Rules:**

1. Observation.value or Observation.dataAbsentReason, but NOT both, MUST be provided.

This rule prohibits creation of nonsense observations like “Food insecurity = known present AND unknown”.

1. “Observation.value = Known absent” can only be used with “Observation.code = Food insecurity”.

This rule prohibits creation of observations like “Mild food insecurity = Known absent” which merely exclude a possible food insecurity state rather than clearly establish a patient’s food insecurity state.

This rule allows creation of the observation “Food insecurity = known absent” which implies that all states of food insecurity (including mild, moderate and severe) are absent. This clearly establishes that the patient is not in a food insecure state (e.g., equates to “Food security = known present”).

1. Observation.dataAbsentReason can only be used with “Observation.code = Food insecurity”

This rule prohibits creation of observations like “Mild food insecurity = unknown” which merely establish that one possible food insecurity state is unknown.

This rule allows creation of observations like “Food insecurity = unknown” which imply that all states of food insecurity (including mild, moderate and severe) are unknown.