Figure 126: Age Observation Example

```
<observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.31" />
    <!-- Age observation -->
    <code code="445518008"
        codeSystem="2.16.840.1.113883.6.96"
        displayName="Age At Onset" />
    <statusCode code="completed" />
    <value xsi:type="PQ" value="57" unit="a" />
</observation>
```

3.5   Allergy Concern Act (V3)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.30:2015-08-01 (open)]

Table 230: Allergy Concern Act (V3) Contexts

Contained By:	Contains:
Allergies and Intolerances Section (entries optional) (V3) (optional) Allergies and Intolerances Section (entries required) (V3) (required)	Allergy - Intolerance Observation (V2) (required) Author Participation (optional)

This template reflects an ongoing concern on behalf of the provider that placed the allergy on a patient's allergy list. As long as the underlying condition is of concern to the provider (i.e., as long as the allergy, whether active or resolved, is of ongoing concern and interest to the provider), the statusCode is "active". Only when the underlying allergy is no longer of concern is the statusCode set to "completed". The effectiveTime reflects the time that the underlying allergy was felt to be a concern.

The statusCode of the Allergy Concern Act is the definitive indication of the status of the concern, whereas the effectiveTime of the nested Allergy - Intolerance Observation is the definitive indication of whether or not the underlying allergy is resolved.

The effectiveTime/low of the Allergy Concern Act asserts when the concern became active. This equates to the time the concern was authored in the patient's chart. The effectiveTime/high asserts when the concern was completed (e.g., when the clinician deemed there is no longer any need to track the underlying condition).

Table 231: Allergy Concern Act (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.30:2015-08-01)					
@classCode	1..1	SHALL		1198-7469	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1198-7470	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		1198-7471	
@root	1..1	SHALL		1198-10489	2.16.840.1.113883.10.20.22.4.30
@extension	1..1	SHALL		1198-32543	2015-08-01
id	1..*	SHALL		1198-7472	
code	1..1	SHALL		1198-7477	
@code	1..1	SHALL		1198-19158	CONC
@codeSystem	1..1	SHALL		1198-32154	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = 2.16.840.1.113883.5.6
statusCode	1..1	SHALL		1198-7485	
@code	1..1	SHALL		1198-19086	urn:oid:2.16.840.1.113883.11.20.9.19 (ProblemAct statusCode)
effectiveTime	1..1	SHALL		1198-7498	
author	0..*	SHOULD		1198-31145	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119
entryRelationship	1..*	SHALL		1198-7509	
@typeCode	1..1	SHALL		1198-7915	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1198-14925	Allergy - Intolerance Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1198-7469).

2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1198-7470).

3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1198-7471) such that it

   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.30" (CONF:1198-10489).

   b. **SHALL** contain exactly one [1..1] **@extension**="2015-08-01" (CONF:1198-32543).

4. **SHALL** contain at least one [1..*] **id** (CONF:1198-7472).

5. **SHALL** contain exactly one [1..1] **code** (CONF:1198-7477).

   a. This code **SHALL** contain exactly one [1..1] **@code**="CONC" Concern (CONF:1198-19158).

   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.6" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1198-32154).

6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1198-7485).

   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:1198-19086).

7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1198-7498).

   a. If statusCode/@code="active" Active, then effectiveTime **SHALL** contain [1..1] low (CONF:1198-7504).

   b. If statusCode/@code="completed" Completed, then effectiveTime **SHALL** contain [1..1] high (CONF:1198-10085).

8. **SHOULD** contain zero or more [0..*] **Author Participation** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1198-31145).

9. **SHALL** contain at least one [1..*] **entryRelationship** (CONF:1198-7509) such that it

   a. **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-7915).

   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:1198-14925).

Table 232: 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: **https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.19/expansion**			
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 127: Allergy Concern Act (V3) Example

```
<act classCode="ACT" moodCode="EVN">
    <!-- ** Allergy Concern Act ** -->
    <templateId root="2.16.840.1.113883.10.20.22.4.30" extension="2015-08-01" />
    <id root="36e3e930-7b14-11db-9fe1-0800200c9a66" />
    <code code="CONC" codeSystem="2.16.840.1.113883.5.6" />
    <!-- The statusCode represents the need to continue tracking the allergy -->
    <!-- This is of ongoing concern to the provider -->
    <statusCode code="active" />
    <effectiveTime>
        <!-- The low value represents when the allergy was first recorded in the
             patient's chart -->
        <!-- Concern started being tracked as an active issue on May 1, 1998 -->
        <low value="199805011145-0800" />
    </effectiveTime>
    <author typeCode="AUT">
        <!-- Same as Concern effectiveTime/low -->
        <time value="199805011145-0800" />
        <assignedAuthor>
            <id extension="555555555" root="1.1.1.1.1.1.1.2" />
        </assignedAuthor>
    </author>
    <entryRelationship typeCode="SUBJ">
        <observation classCode="OBS" moodCode="EVN">
            <!-- ** Allergy observation ** -->
            <templateId root="2.16.840.1.113883.10.20.22.4.7" extension="2014-06-09" />
            <id root="4adc1020-7b14-11db-9fe1-0800200c9a66" />
            <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
            <!-- Observation statusCode represents the status of the act of observing -->
            <statusCode code="completed" />
            <effectiveTime>
                <!-- The low value reflects the date of onset of the allergy -->
                <!-- Based on patient symptoms, presumed onset is May 1, 1998 -->
                <low value="19980501" />
                <!-- The high value reflects when the allergy was known to be resolved
                     (and will generally be absent) -->
            </effectiveTime>
            <value xsi:type="CD" code="419199007" displayName="Allergy to substance"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
            <author typeCode="AUT">
                <time value="199805011145-0800" />
                <assignedAuthor>
                    <id extension="222223333" root="1.1.1.1.1.1.1.3" />
                </assignedAuthor>
            </author>
            <participant typeCode="CSM">
                <participantRole classCode="MANU">
                    <playingEntity classCode="MMAT">
                        <code code="70618" displayName="Penicillin"
codeSystem="2.16.840.1.113883.6.88" codeSystemName="RxNorm" />
                    </playingEntity>
                </participantRole>
            </participant>
            <entryRelationship typeCode="MFST" inversionInd="true">
                <observation classCode="OBS" moodCode="EVN">
                    <!-- ** Reaction observation ** -->
```

```
                    <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-
09" />
                    <id root="4adc1020-7b14-11db-9fe1-0800200c9a64" />
                    <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
                    <statusCode code="completed" />
                    <effectiveTime>
                        <low value="200802260800-0800" />
                        <high value="2008022801200-0800" />
                    </effectiveTime>
                    <value xsi:type="CD" code="422587007"
codeSystem="2.16.840.1.113883.6.96" displayName="Nausea" />
                </observation>
            </entryRelationship>
        </observation>
    </entryRelationship>
</act>
```

3.6 *Allergy Status Observation*

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.28:2019-06-20
(open)]
```

Table 233: Allergy Status Observation Contexts

Contained By:	Contains:
Allergy - Intolerance Observation (V2) (optional) Substance or Device Allergy - Intolerance Observation (V2) (optional)	

This template represents the clinical status attributed to the allergy or intolerance. There can be only one allergy status observation per allergy - intolerance observation.