# Allergies Section: XML Example

This an example of the Allergies Section with coded entries required. MU2 only specifies a vocabulary for medication allergies.

# Narrative Description

* Patient relays that they experienced erythema of skin after taking sulfa drug and was told to never take it again.
* Patient has allergy to soybean. Experienced swelling of the tongue as a child and has been instructed to avoid soybean.

# Coded Data

|  |  |
| --- | --- |
| Allergy to Sulfa drugs (medication allergy) | |
| Type of Allergy | 416098002 drug allergy  Code System = SNOMED CT (2.16.840.1.113883.6.96) |
| Drug | 10180  Sulfamethoxazole  Code System = RxNorm (2.16.840.1.113883.6.88) |
| Reaction | 444827008 Erythema of skin  Code System = SNOMED CT (2.16.840.1.113883.6.96) |
| Severity | 6736007  Moderate  Code System = SNOMED CT (2.16.840.1.113883.6.96) |

|  |  |
| --- | --- |
| Allergy to Soy (substance allergy) | |
| Type of Allergy | 419199007 allergy to substance  Code System = SNOMED CT (2.16.840.1.113883.6.96) |
| Substance | L7HT8F1ZOD  SOYBEAN  Code System = UNII (2.16.840.1.113883.4.9) |
| Reaction | 2614313015 Tongue swelling  Code System = SNOMED CT (2.16.840.1.113883.6.96) |
| Severity | 371923003  mild to moderate  Code System = SNOMED CT (2.16.840.1.113883.6.96) |

# Sample XML

<component>  
 <section>  
 <templateId root="2.16.840.1.113883.10.20.22.2.6.1"/>  
 <!-- Allergies (entries required) section template -->  
 <code code="48765-2" codeSystem="2.16.840.1.113883.6.1"/>  
 <title>ALLERGIES</title>  
 <text>  
 <list listType="ordered">  
 <item><content ID="allergy1">Patient relays that they experienced erythema of  
 skin after taking sulfa drug and was told to never take it  
 again.</content></item>  
 <item><content ID="allergy2">Patient has allergy to soybean. Experienced  
 swelling of the tongue as a child and has been instructed to avoid  
 soybean.</content></item>  
 </list>  
 </text>  
 <entry typeCode="DRIV">  
 <act classCode="ACT" moodCode="EVN">  
 <templateId root="2.16.840.1.113883.10.20.22.4.30"/>  
 <!-- \*\* Allergy problem act \*\* -->  
 <id root="802ce207-be61-4842-bd4e-82bc1d643537"/>  
 <code code="48765-2" codeSystem="2**.16.840.1.113883.6.1" codeSystemName="LOINC"  
 displayName="Allergies, adverse reactions, alerts"/>  
 <statusCode code="active"/>  
 <effectiveTime value="20070312">  
 <low value="20070312"/>  
 </effectiveTime>  
 <entryRelationship typeCode="SUBJ" inversionInd="true">  
 <observation classCode="OBS" moodCode="EVN">  
 <!-- allergy observation template -->  
 <templateId root="2.16.840.1.113883.10.20.22.4.7"/>  
 <id root="2515597e-fb41-496a-9f94-c97591c0b1ee"/>  
 <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>  
 <statusCode code="completed"/>  
 <effectiveTime>  
 <low nullFlavor="UNK"/>  
 </effectiveTime>  
 <value xsi:type="CD" code="416098002**" displayName="drug allergy"  
 codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT">  
 <originalText>  
 <reference value="#allergy1"/>  
 </originalText>  
 </value>  
 <participant typeCode="CSM">  
 <participantRole classCode="MANU">  
 <playingEntity classCode="MMAT">  
 <code code="10180" displayName="Sulfamethoxazole"  
 codeSystem="2.16.840.1.113883.6.88" codeSystemName="RxNorm">  
 <originalText>  
 <reference value="#allergy1"/>  
 </originalText>  
 </code>  
 </playingEntity>  
 </participantRole>  
 </participant>  
 <entryRelationship typeCode="MFST" inversionInd="true">  
 <observation classCode="OBS" moodCode="EVN">  
 <!-- Reaction Observation template -->  
 <templateId root="2.16.840.1.113883.10.20.22.4.9"/>  
 <id root="285e2662-1fc8-49d6-b158-78e0a60890f1"/>  
 <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>  
 <text>  
 <reference value="#allergy1"/>  
 </text>  
 <statusCode code="completed"/>  
 <effectiveTime>  
 <low value="20120309"/>  
 <high value="20120310"/>  
 </effectiveTime>  
 <value xsi:type="CD" code="444827008"  
 codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"  
 displayName="Erythema of skin"/>  
 <entryRelationship typeCode="SUBJ" inversionInd="true">  
 <observation classCode="OBS" moodCode="EVN">  
 <!-- Severity Observation template -->  
 <templateId root="2.16.840.1.113883.10.20.22.4.8"/>  
 <code code="SEV" xsi:type="CE"  
 codeSystem="2.16.840.1.113883.5.4"  
 codeSystemName="ActCode"/>  
 <text>  
 <reference value="#allergy1"/>  
 </text>  
 <statusCode code="completed"/>  
 <value xsi:type="CD" code="6736007"  
 codeSystem="2.16.840.1.113883.6.96"  
 codeSystemName="SNOMED CT" displayName="moderate"/>  
 </observation>  
 </entryRelationship>  
 </observation>  
 </entryRelationship>  
 </observation>  
 </entryRelationship>  
 </act>  
 </entry>  
 <entry typeCode="DRIV">  
 <act classCode="ACT" moodCode="EVN">  
 <templateId root="2.16.840.1.113883.10.20.22.4.30"/>  
 <!-- \*\* Allergy problem act \*\* -->  
 <id root="802ce207-be61-4842-bd4e-82bc1d643537"/>  
 <code code="48765-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"  
 displayName="Allergies, adverse reactions, alerts"/>  
 <statusCode code="active"/>  
 <effectiveTime value="20070312">  
 <low value="20070312"/>  
 </effectiveTime>  
 <entryRelationship typeCode="SUBJ" inversionInd="true">  
 <observation classCode="OBS" moodCode="EVN">  
 <!-- allergy observation template -->  
 <templateId root="2.16.840.1.113883.10.20.22.4.7"/>  
 <id root="2515597e-fb41-496a-9f94-c97591c0b1ee"/>  
 <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>  
 <statusCode code="completed"/>  
 <effectiveTime>  
 <low nullFlavor="UNK"/>  
 </effectiveTime>  
 <value xsi:type="CD" code="419199007" displayName="allergy to substance"  
 codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT">  
 <originalText>  
 <reference value="#allergy2"/>  
 </originalText>  
 </value>  
 <participant typeCode="CSM">  
 <participantRole classCode="MANU">  
 <playingEntity classCode="MMAT">  
 <code code="L7HT8F1ZOD" displayName="SOYBEAN"  
 codeSystem="2.16.840.1.113883.4.9" codeSystemName="UNII">  
 <originalText>  
 <reference value="#allergy2"/>  
 </originalText>  
 </code>  
 </playingEntity>  
 </participantRole>  
 </participant>  
 <entryRelationship typeCode="MFST" inversionInd="true">  
 <observation classCode="OBS" moodCode="EVN">  
 <!-- Reaction Observation template -->  
 <templateId root="2.16.840.1.113883.10.20.22.4.9"/>  
 <id root="285e2662-1fc8-49d6-b158-78e0a60890f1"/>  
 <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>  
 <text>  
 <reference value="#allergy2"/>  
 </text>  
 <statusCode code="completed"/>  
 <effectiveTime>  
 <low value="20120309"/>  
 <high value="20120310"/>  
 </effectiveTime>  
 <value xsi:type="CD" code="2614313015"  
 codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"  
 displayName="Tongue swelling"/>  
 <entryRelationship typeCode="SUBJ" inversionInd="true">  
 <observation classCode="OBS" moodCode="EVN">  
 <!-- Severity Observation template -->  
 <templateId root="2.16.840.1.113883.10.20.22.4.8"/>  
 <code code="SEV" xsi:type="CE"  
 codeSystem="2.16.840.1.113883.5.4"  
 codeSystemName="ActCode"/>  
 <text>  
 <reference value="#allergy2"/>  
 </text>  
 <statusCode code="completed"/>  
 <value xsi:type="CD" code="371923003"  
 codeSystem="2.16.840.1.113883.6.96"  
 codeSystemName="SNOMED CT" displayName="mild to moderate"  
 />  
 </observation>  
 </entryRelationship>  
 </observation>  
 </entryRelationship>  
 </observation>  
 </entryRelationship>  
 </act>  
 </entry>  
 </section>  
 </component>

***Allergy to Sulfa drugs***

***Narrative Text for Human Review***

***Allergy to Sulfa drugs (continued)***

***Type of Allergy***

***Drug***

***Allergy to Sulfa drugs (continued)***

***Reaction***

***And Severity***

***Allergy to Soy***

***Allergy to Soy (continued)***

***Type of Allergy***

***Substance***

***Allergy to Soy (continued)***

***Reaction***

***And Severity***