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| **FHIR target** | **CC Profile** | **Guidance** | **Status** | **Note** |
| AllergyIntolerance.code | ValueSet << 373873005 |Pharmaceutical / biologic product |  << 105590001 | substance |  (extensible)  Cardinality – same as base  Flags – same as base  DataType – same as base  Description – same as base | Where there are no known allergies then Include codes from http://snomed.info/sct where concept is-a 716186003 (No known allergy)  For no information available the use text "Information not available" (using HL7 FHIR nullFlavor (http://hl7.org/fhir/v3/NullFlavor) "NI" No Information)  Degrade codes ( 196461000000101 | transfer-degraded drug allergy (record artifact) | & 196471000000108 | transfer-degraded non-drug allergy (record artifact) | ) can be used if only a text representation of the allergy is known & precoordinated allergy codes (fro example 213020009 | egg protein allergy | ) |  | Code element changes reflect new ValueSet-CareConnect-AllergyIntolerance-1 and GUIDANCE ADDED |
| dateAsserted | Same as base | <none> |  | Changed cardinality to 0..1 |
| AllergyIntolerance.reaction.manifestation | ValuSet <<404684003 | clinical finding  (extensible)  Cardinality – same as base  Flags – same as base  DataType – same as base  Description – same as base | Where no code is known (but a manifestation needs to be recorded) then populate the Manifestation CodeableConcept with the HL7 FHIR nullFlavor (<http://hl7.org/fhir/v3/NullFlavor>) "UNC" - "un-encoded" & text of manifestation in reaction.description  When patient is asked about reaction, but doesn't know the reaction then use HL7 nullFlavor "ASKU" - "asked but unknown"  When the reaction details cannot be determined/verified, then use the HL7 nullFlavor "NI" - "No Information" |  | element changes reflect new ValueSet- CareConnect-AllergyReactionManifestation-1 and GUIDANCE ADDED |
| AllergyIntolerance.reaction.description | Same as base | <none> |  | What is change? |
| AllergyIntolerance.reaction.severity | Same as base | Create a Concept map (see below) |  |  |
| AllergyIntolerance.verificationStatus |  | “refuted” & “entered-in-error” not to be used  If verificationStatus is not known, then set to unconfirmed. If extra information about certainty is known, this should reported as a note.  Create concept map as below |  |  |
| reaction.note | Same as base |  |  | What is change? |
| AllergyIntolerance.type | Same as base | An absence of AllergyIntollerance.type implies that it is not known whether the reaction was allergic or intolerance |  | Guidance updated |
| AllergyIntolerance.extension.evidence | Same as current CC extension |  |  | What is change? |
| AllergyIntolerance.extension.ProbabilityOfRecurrence | REMOVE THE CURRENT CC EXTENSION |  |  | Removed as not clinically sign. Could be added to text section. |
| AllergyIntolerance.onset[x] | Same as base, other than add a Must Support flag | There should always be a date associated with the allergy. This could either be one of the onset[x] dates, or the assertedDate |  |  |
| AllergyIntolerance. clinicalStatus | Same as base | Care should be taken when sending non-active (inactive or resolved) allergies. It is suggested that inactive or resolved allergies are contained within a List resource (see <https://www.hl7.org/fhir/references.html#contained>) unless both parties are certain that inactive or resolved allergies will be handled correctly. |  | Guidance updated |
| AllerguIntolerance.Category | Same as base |  |  | What is change? |
| AllergyIntolerance.Criticality | Same as base |  |  | What is change? |
| AllergyIntolerance. Lastoccurrence | Same as base | This is the onset date of the last reaction |  | Guidance updated |
| AllergyIntolerance. note | Same as base |  |  | What is change? |
| AllergyIntolerance. reaction.substance | Same as base | it is recommended not to populate this but to populate the top level causative agent.  It must be clinically safe to only process the 'code' and ignore the 'reaction.substance’. See FHIR rules <http://hl7.org/fhir/stu3/allergyintolerance-definitions.html#AllergyIntolerance.reaction.substance>  Coding of the specific substance (or pharmaceutical product) with a terminology capable of triggering decision support should be used wherever possible. The 'code' element allows for the use of a specific substance or pharmaceutical product, or a group or class of substances. In the case of an allergy or intolerance to a class of substances, (for example, "penicillins"), the 'reaction.substance' element could be used to code the specific substance that was identifed as having caused the reaction (for example, "amoxycillin"). Duplication of the value in the 'code' and 'reaction.substance' elements is acceptable when a specific substance has been recorded in 'code |  | Guidance updated |
| AllergyIntolerance. reaction.onset | Same as base |  |  | What is change? |
| AllergyIntolerance. exposureroute | ValueSet as per the SNOMED expression  ^999000051000001100 |ePrescribing route of administration simple reference set|  (extensible)  Cardinality – same as base  Flags – same as base  DataType – same as base  Description – same as base |  |  |  |
| AllergyIntolerance. reaction.note | Same as base |  |  |  |
| Ccare.encounter extension | Same as current CC Allergies |  |  |  |
| CC endDate extension | Same as current CC Allergies |  |  |  |
| CC allergyCertainty extension | REMOVE extension (replaced by verification status & cross map) |  |  |  |
| CC allergySeverity exyension | REMOVE as replaced by reaction.severity & concept map |  |  |  |
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Severity Concept map

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| **HL7** |  | **SNOMED** |
| Mild | Mild [The reaction was mild.][SNOMED-CT::255604002] (Mild (qualifiervalue)) | Mild (maps to mild) |
| Moderate | Moderate [The reaction was moderate.][SNOMED-CT::6736007] (Moderate (severity modifier) (qualifier value)) | Moderate (maps to moderate) |
| Severe | Severe [The reaction was severe.][SNOMED-CT::24484000] (Severe (severity modifier) (qualifier value)) | Sever (maps to severe) |
|  | Life threatening [The reaction was life-threatening.][SNOMED-CT::442452003] (Life threatening severity (qualifier value)) | Life threatening (maps to severe) |
|  | Fatal [The reaction was fatal.][SNOMED-CT::399166001] (Fatal (qualifier value)) | <no match> |
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verificationStatus

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| **HL7** |  | **SNOMED** |
| unconfirmed | • Unlikely [The reaction is thought unlikely to have been caused by the agent.] [SNOMED-CT::1491118016] | Unlikely (map to unconfirmed) |
|  | • Likely [The reaction is thought likely to have been caused by the agent.] [SNOMED-CT::5961011] | Likely (map to unconfirmed) |
| confirmed | • Certain [The agent is thought to be certain to have caused the reaction but this has not been confirmed by challenge testing.] [SNOMED-CT::255545003] (Definite (qualifier value)) | Certain (map to confirmed) |
|  | • Confirmed by challenge testing [The reaction to the agent has been confirmed by challenge testing or other concrete evidence.] [SNOMED-CT::410605003] (Confirmed present (qualifier value)) | Confirmed by challenge testing (map to confirmed) |
| refuted | No map |  |
| entered-in-error | No map |  |
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