

Health & Care Information Model: nl.zorg.AllergyIntolerance-v3.1

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1. nl.zorg.AllergyIntolerance-v3.1

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::CreationDate	15-12-2014
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.8.2
DCM::KeywordList	Allergie, Overgevoeligheid
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.AllergieIntolerantie
DCM::PublicationDate	04-09-2017
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	04-09-2017
DCM::Superseeds	nl.nfu.AllergieIntolerantie-v1.0.2
DCM::Version	3.1
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (01-04-2015)

Bevat: ZIB-109, ZIB-111, ZIB-151, ZIB-308, ZIB-352, ZIB-353.

Incl. algemene wijzigingsverzoeken:

ZIB-94, ZIB-154, ZIB-200, ZIB-201, ZIB-309, ZIB-324, ZIB-326.

Publicatieversie 1.0.1 (22-05-2015)

Bevat: ZIB-380, ZIB-373.

Publicatieversie 1.0.2 (16-07-2015)

Bevat: ZIB-417.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-425, ZIB-453.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-426, ZIB-427, ZIB-482, ZIB-487, ZIB-499, ZIB-500, ZIB-564.

1.2 Concept

An allergy or intolerance describes a patient's tendency towards hypersensitivity to a certain substance, so that an unwanted physiological reaction is expected after exposure to the substance, while most people would not exhibit such a reaction to that amount. The observed physiological changes are usually the result of an immunological reaction.

The substances can be categorized as follows:

- Medicine
- Medicine category
- Ingredient/addition
- Nutrition
- Environmental factor
- Animal
- Plants
- Chemicals
- Inhaled allergenic

1.3 Mindmap

1.4 Purpose

Documenting and communicating allergies and intolerances is an important part of medical registration. It concerns the core of patient safety in general and medication safety in particular. In the execution of research, treatment and care, these patient characteristics constantly have to be taken into account. In principle, allergies and intolerances are also disorders and also could be entered as a problem. Nevertheless, these are usually entered separately.

Allergies/Intolerances have a lot in common with warnings (Alert). An important difference is that with allergies and intolerances, a lot of detailed information is recorded on things such as the reactions to the causative substance. Furthermore, not every warning is a problem or medical condition. Every allergy/intolerance is, however, while not every allergy or intolerance implies a warning.

1.5 Patient Population

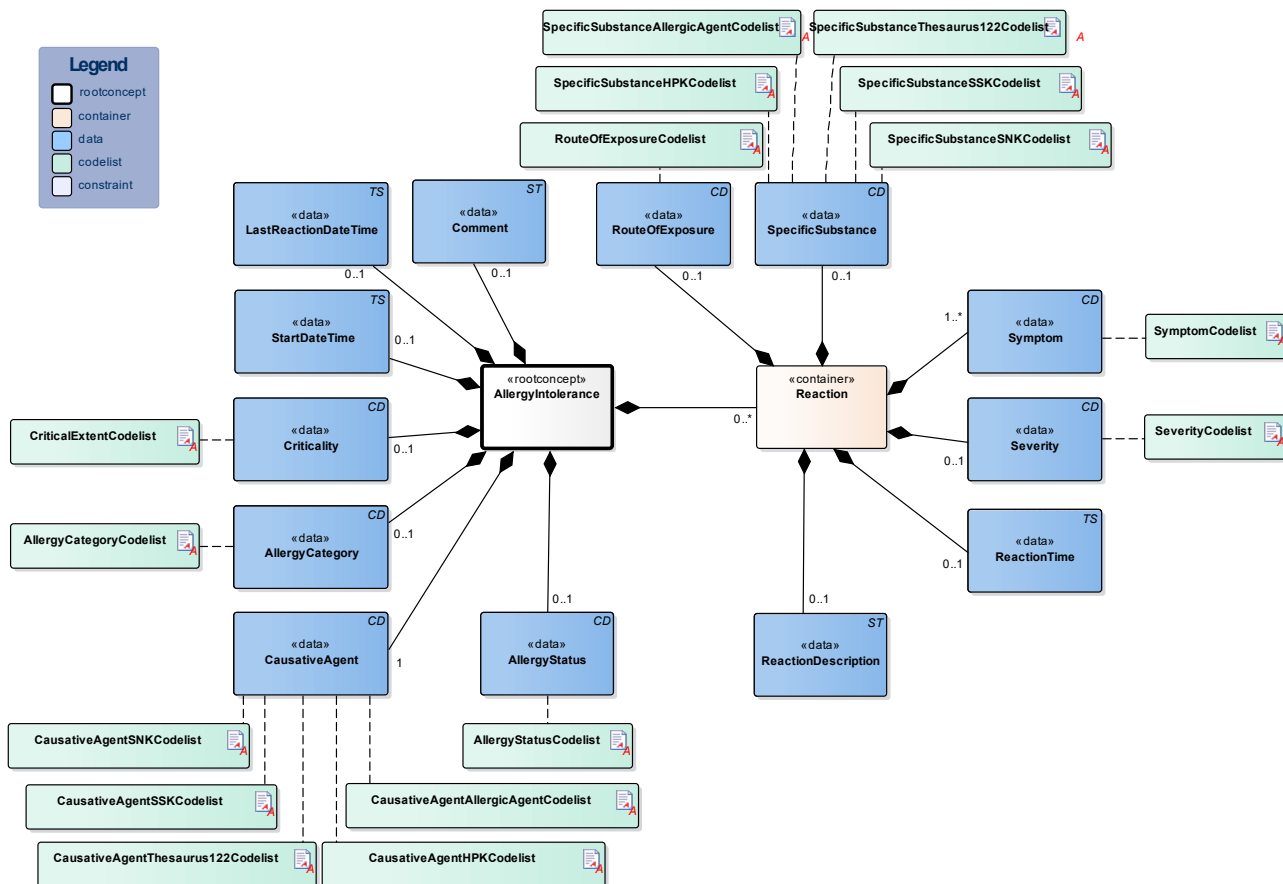
1.6 Evidence Base

For all allergies in the Netherlands, the codes available in the G standard are used to register and complete medicinal allergies in the work process of prescribers and pharmacists (in medication monitoring). This is outlined in the document "Allergies and unwanted substances IR V-2-3-1".

This code is insufficient when it comes to reactions to exposure to food products, items (such as bandages

and band-aids), plants and animals. For these items, the standard allows the use of free text or the use of SNOMED CT code. However, no validated value set is currently available for this purpose for SNOMED CT.

1.7 Information Model



«rootconcept»	AllergyIntolerance	
Definitie	Root concept of the AllergyIntolerance information model. This root concept contains all data elements of the AllergyIntolerance information model.	
Datatype		
DCM::ConceptId	NL-CM:8.2.1	
Opties		

«data»	CausativeAgent	
Definitie	Substance, group of substances or environmental factor to which the patient is allergic or hypersensitive.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.2.2	
DCM::ValueSet	CausativeAgentSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.13
DCM::ValueSet	CausativeAgentSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.14
DCM::ValueSet	CausativeAgentThesaurus122Codelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.15

DCM::ValueSet	CausativeAgentHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.19
DCM::ValueSet	CausativeAgentAllergicAgent Codelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.17 Allergene stoffen niet gerelateerd aan medicatiebewaking.
Opties		

«data»	AllergyCategory	
Definitie	Identifies the allergy category such as medication, food or environment.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.2.4	
DCM::ValueSet	AllergyCategoryCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.2
Opties		

«data»	AllergyStatus	
Definitie	Statement on the status of the patient's hypersensitivity.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.2.5	
DCM::ValueSet	AllergyStatusCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.3
Opties		

«data»	StartDateTime	
Definitie	The date and time at which the allergy or undesired reaction was determined. This can be an exact date and time, or a rough indication of the date (such as only the year, or the month and the year).	
Datatype	TS	
DCM::ConceptId	NL-CM:8.2.6	
DCM::ExampleValue	09-10-2011	
Opties		

«data»	Criticality	
Definitie	Critical extent is defined as "the potential severity of future reactions." This represents a clinical evaluation of the worst case scenario for a future reaction. It can be based on the severity of past reactions, the dose and manner of exposure which caused reactions in the past, and the life-threatening potential of the type of reaction. Critical extent is a property of the allergy, and not of the reaction itself.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.2.7	
DCM::DefinitionCode	SNOMED CT: 246112005 Severity	
DCM::ValueSet	CriticalExtentCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.4
Opties		

«data»	LastReactionDateTime	
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Definitie	Entry of the last time a hypersensitive reaction took place.	
Datatype	TS	
DCM::ConceptId	NL-CM:8.2.8	
Opties		

«data»		Comment
Definitie	Textual explanation of the hypersensitivity which cannot be entered in any of the other fields.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.2.9	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«container»		Reaction
Definitie	Container of the Reaction concept. This container contains all data elements of the Reaction concept.	
Datatype		
DCM::ConceptId	NL-CM:8.2.10	
Opties		

«data»		Symptom
Definitie	The content specifications of the reaction that takes place when the patient is exposed to the causative substance.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.2.11	
DCM::ExampleValue	Anafylaxie, Jeuk	
DCM::ValueSet	SymptomCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.5
Opties		

«data»		SpecificSubstance
Definitie	More specific indication of the substance that caused the reaction. This can be a specific substance from a group of substances to which the patient is allergic or hypersensitive.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.2.12	
DCM::ValueSet	SpecificSubstanceSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.10
DCM::ValueSet	SpecificSubstanceSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.9
DCM::ValueSet	SpecificSubstanceThesaurus122Codelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.11
DCM::ValueSet	SpecificSubstanceHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.18
DCM::ValueSet	SpecificSubstanceAllergicAgentCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.16 Allergene stoffen niet gerelateerd aan medicatiebewaking.

Opties	
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«data»	ReactionDescription	
Definitie	Textual description of the reaction as a whole.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.2.13	
Opties		

«data»	Severity	
Definitie	The severity of the reaction as a result of exposure to the causative substance.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.2.14	
DCM::ExampleValue	Ernstig	
DCM::ValueSet	SeverityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.6
Opties		

«data»	RouteOfExposure	
Definitie	Way in which the patient came into contact with the causative agent or the way in which the agent was administered.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.2.15	
DCM::ValueSet	RouteOfExposureCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.12
Opties		

«data»	ReactionTime	
Definitie	Date and time at which the reaction took place. This may also be just the date or a partial date, in the event that the exact date is unknown.	
Datatype	TS	
DCM::ConceptId	NL-CM:8.2.17	
Opties		

«document»	CausativeAgentAllergicAgentCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.2.17	
Opties		

VeroorzakendeStofAllergeneStoffenCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.17
Codes	Coding Syst. Name	Coding System OID
Alle waarden	SNOMED CT	2.16.840.1.113883.6.96

«document»	CausativeAgentHPKCodelist	
Definitie		
Datatype		

DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.19	
Opties		
VeroorzakendeStofHPKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.19
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Handels Product Kode (HPK)	2.16.840.1.113883.2.4.4.7

«document»	CausativeAgentSNKCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.14	
Opties		
VeroorzakendeStofSNKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.14
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Stofnaamcode (SNK)	2.16.840.1.113883.2.4.4.1.750

«document»	CausativeAgentSSKCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.13	
Opties		
VeroorzakendeStofSSKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.13
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Stofnaamcode i.c.m. toedieningsweg (SSK)	2.16.840.1.113883.2.4.4.1.725

«document»	CausativeAgentThesaurus122Codelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.15	
Opties		
VeroorzakendeStofThesaurus122Codelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.15
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Ongewenste medicatiegroepen	2.16.840.1.113883.2.4.4.1.902.122

«document»	RouteOfExposureCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.12	
Opties		
WijzeVanBlootstellingCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.12
Codes	Coding Syst. Name	Coding System OID

SNOMED CT: <284009009 route of administration value	SNOMED CT	2.16.840.1.113883.6.96
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«document»		SpecificSubstanceAllergicAgentCodelist	
Definitie			
Datatype			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.16		
Opties			

SpecifiekeStofAllergeneStoffenCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.16
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Codes	Coding Syst. Name	Coding System OID
Alle waarden	SNOMED CT	2.16.840.1.113883.6.96

«document»		SpecificSubstanceHPKCodelist	
Definitie			
Datatype			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.18		
Opties			

SpecifiekeStofHPKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.18
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Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-Standaard Handels Product Kode (HPK)	2.16.840.1.113883.2.4.4.7

«document»		SpecificSubstanceSNKCodelist	
Definitie			
Datatype			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.10		
Opties			

SpecifiekeStofSNKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.10
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Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Stofnaamcode (SNK)	2.16.840.1.113883.2.4.4.1.750

«document»		SpecificSubstanceSSKCodelist	
Definitie			
Datatype			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.9		
Opties			

SpecifiekeStofSSKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.9
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Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Stofnaamcode i.c.m. toedieningsweg (SSK)	2.16.840.1.113883.2.4.4.1.725

«document»		SpecificSubstanceThesaurus122Codelist	
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Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.11	
Opties		
SpecifiekeStofThesaurus122Codelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.11
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Ongewenste medicatiegroepen	2.16.840.1.113883.2.4.4.1.902.122

«document»	AllergyCategoryCodelist			
Definitie				
Datatype				
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.2			
Opties				
AllergieCategorieCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.2	
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Propensity to adverse reactions to food	418471000	SNOMED CT	2.16.840.1.113883.6.96	Voeding
Propensity to adverse reactions to drug	419511003	SNOMED CT	2.16.840.1.113883.6.96	Medicijn
Environmental allergy	426232007	SNOMED CT	2.16.840.1.113883.6.96	Omgeving
Allergy to substance	419199007	SNOMED CT	2.16.840.1.113883.6.96	Stof of product
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	AllergyStatusCodelist			
Definitie				
Datatype				
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.3			
Opties				
AllergieStatusCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.3	
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Active	active	ActStatus	2.16.840.1.113883.5.14	Actief
Completed	completed	ActStatus	2.16.840.1.113883.5.14	Niet meer aanwezig
Obsolete	obsolete	ActStatus	2.16.840.1.113883.5.14	Achterhaald
Nullified	nullified	ActStatus	2.16.840.1.113883.5.14	Foutief

«document»	CriticalExtentCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11. 60.40.2.8.2.4	

Opties				
MateVanKritiekZijnCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.4	
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Mild	255604002	SNOMED CT	2.16.840.1.113883.6.96	Licht
Moderate	6736007	SNOMED CT	2.16.840.1.113883.6.96	Matig
Severe	24484000	SNOMED CT	2.16.840.1.113883.6.96	Ernstig
Fatal	399166001	SNOMED CT	2.16.840.1.113883.6.96	Fataal

«document»	SymptomCodelist		
Definitie			
Datatype			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.2.5		
Opties			

SymptoomCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.5		
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Anaphylaxis	39579001	SNOMED CT	2.16.840.1.113883.6.96	Anafylaxie
Angioedema	41291007	SNOMED CT	2.16.840.1.113883.6.96	Angio-oedeem
Upper respiratory tract hypersensitivity reaction	490008	SNOMED CT	2.16.840.1.113883.6.96	Overgevoeligheidsreactie van de bovenste luchtwegen
Dyspnea	267036007	SNOMED CT	2.16.840.1.113883.6.96	Kortademigheid
Bronchospasm	4386001	SNOMED CT	2.16.840.1.113883.6.96	Bronchospasme
Urticaria (hives)	126485001	SNOMED CT	2.16.840.1.113883.6.96	Urticaria
Contact dermatitis	40275004	SNOMED CT	2.16.840.1.113883.6.96	Contactdermatitis
Itching of skin	418363000	SNOMED CT	2.16.840.1.113883.6.96	Jeuk
Eruption of skin	271807003	SNOMED CT	2.16.840.1.113883.6.96	Exantheem
Allergic conjunctivitis	473460002	SNOMED CT	2.16.840.1.113883.6.96	Allergische conjunctivitis
TEN - Toxic epidermal necrolysis	23067006	SNOMED CT	2.16.840.1.113883.6.96	Toxische epidermale necrolyse
Nausea and vomiting	16932000	SNOMED CT	2.16.840.1.113883.6.96	Misselijk en braken
Diarrhoea	62315008	SNOMED CT	2.16.840.1.113883.6.96	Diarree
Drug-induced erythema multiforme	297942002	SNOMED CT	2.16.840.1.113883.6.96	Door medicatie veroorzaakte erythema multiforme
Fever	386661006	SNOMED CT	2.16.840.1.113883.6.96	Koorts
Overig	OTH	NullFlavor	2.16.840.1.113883.5.1008	Overig

«document»	SeverityCodelist		
Definitie			
Datatype			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.2.6		
Opties			

ErnstCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.6
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Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Mild	255604002	SNOMED CT	2.16.840.1.113883.6.96	Licht
Moderate	6736007	SNOMED CT	2.16.840.1.113883.6.96	Matig
Severe	24484000	SNOMED CT	2.16.840.1.113883.6.96	Ernstig

1.8 Example Instances

AllergieIntolerantie		
VeroorzakendeStof	Bijengif	Penicilline
AllergieCategorie	Stof of product	Medicijn
AllergieStatus	Actief	Actief
MateVanKritiekZijn	Hoog	Hoog
BeginDatumTijd	08-11-2008	1995
LaatsteReactieDatumTijd	15-11-2009	02-06-1998
Toelichting	-	-
Reactie		
Symptoom	Misselijk en braken	Exantheem
ReactieBeschrijving	-	-
Ernst	Ernstig	Matig ernstig
ReactieTijdstip	-	02-06-1998
ReactieDuur	-	-
WijzeVanBlootstelling	-	Oraal
SpecifiekeStof	-	Amoxicilline

1.9 Instructions

1.10 Interpretation

1.11 Care Process

1.12 Example of the instrument

1.13 Constraints

1.14 Issues

No known allergies

The question is whether to offer a code for "No known allergies (SNOMED CT 160244002)" and

subdirectories in this information model that fall under this code, or to determine that, where applicable, the document should outline when the information model is to be applied.

Value set for the ‘Causative substance’ concept

Currently, no defined code list is yet available for allergenic substances other than medication. Entering SNOMED CT must therefore suffice to code allergenic substances for the time-being. The G standard is used to code medical products.

1.15 References

1. Z-INDEX. (2011) *Allergieën en ongewenste middelen* [Online] v. R V-2-3-1 Beschikbaar op: <http://www.z-index.nl/g-standaard/beschrijvingen/functioneel/wijzigingen/mb/bewaking-op-allergie/IR%20Allergieen%20V%202-1-1.pdf> [Geraadpleegd: 15 oktober 2014]
2. HL7 FHIR *Resource AllergyIntolerance*. [Online] Continuous Build. Beschikbaar op: <http://hl7-fhir.github.io/allergyintolerance.html> [Geraadpleegd: 12 maart 2014]

1.16 Functional Model

1.17 Traceability to other Standards

1.18 Disclaimer

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