

Health&Care Information Model: nl.zorg.AllergieIntolerantie

Final

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1. nl.zorg.AllergieIntolerantie-v3.0

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	1-5-2016
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	1-5-2016
DCM::Superseeds	nl.nfu.AllergieIntolerantie-v1.0.2
DCM::Version	3.0

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-427, ZIB-453.

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.

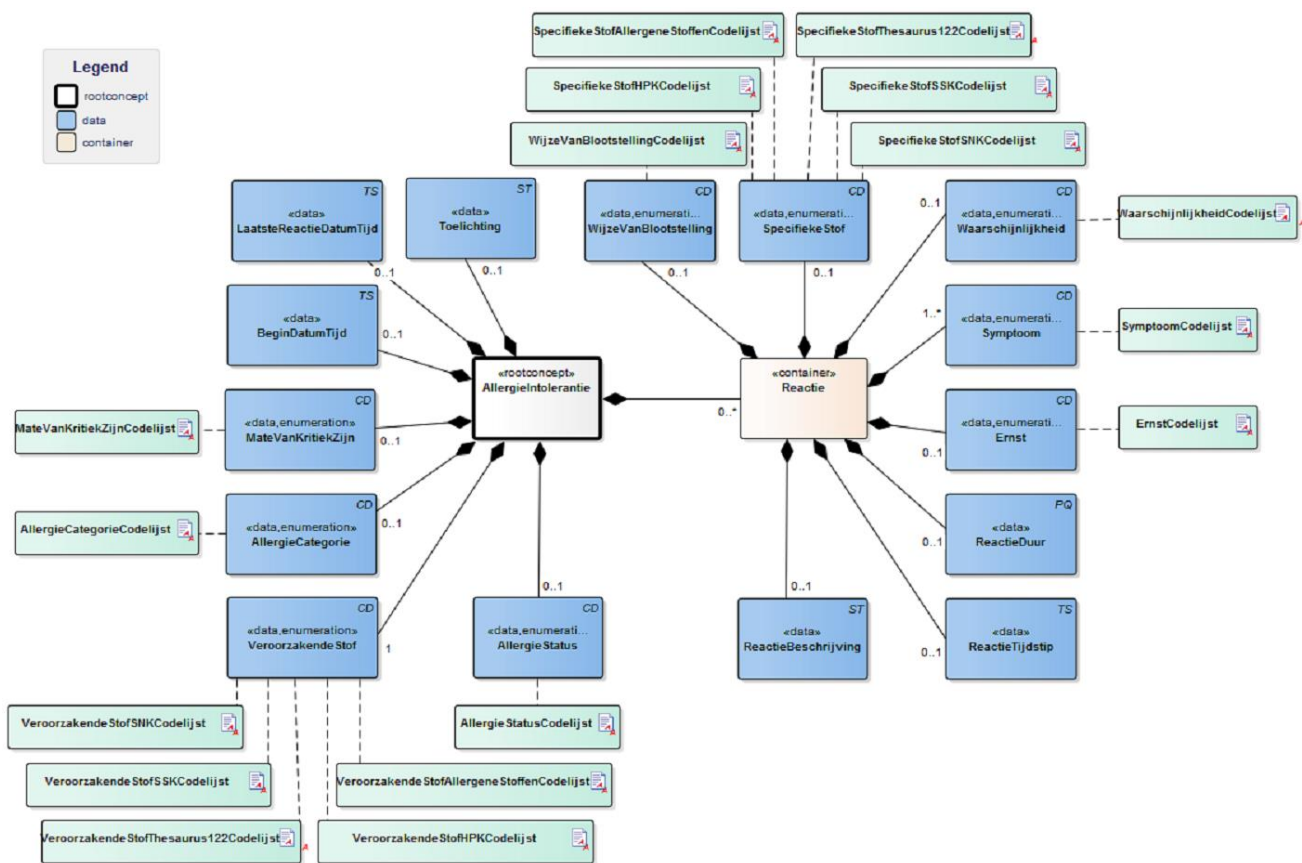
1.5 Patient Population

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»	AllergieIntolerantie	
Alias	EN: AllergyIntolerance	
Definition	Root concept of the AllergyIntolerance information model. This root concept contains all data elements of the AllergyIntolerance information model.	
Datatype		
DCM::DefinitionCode	NL-CM:8.2.1	
Options		

«data»	VeroorzakendeStof	
Alias	EN: CausativeSubstance	
Definition	Substance, group of substances or environmental factor to which the patient is allergic or hypersensitive.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:8.2.2	
DCM::ValueSet	VeroorzakendeStofAllergeneStoffenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.17 Allergene stoffen niet gerelateerd aan medicatiebewaking.
DCM::ValueSet	VeroorzakendeStofHPKCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.19
DCM::ValueSet	VeroorzakendeStofSNKCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.14
DCM::ValueSet	VeroorzakendeStofThesaurus122Codelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.15
DCM::ValueSet	VeroorzakendeStofSSKCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.13
Options		

«data» AllergieCategorie	
Alias	EN: AllergyCategory
Definition	Identifies the allergy category such as medication, food or environment.
Datatype	CD
DCM::DefinitionCode	NL-CM:8.2.4
DCM::ValueSet	AllergieCategorieCodelijst OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.2
Options	

«data» AllergieStatus	
Alias	EN: AllergyStatus
Definition	Statement on the status of the patient's hypersensitivity.
Datatype	CD
DCM::DefinitionCode	NL-CM:8.2.5
DCM::ValueSet	AllergieStatusCodelijst OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.3
Options	

«data» BeginDatumTijd	
Alias	EN: StartDateTime
Definition	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::DefinitionCode	NL-CM:8.2.6
DCM::ExampleValue	09-10-2011
Options	

«data» MateVanKritiekZijn	
Alias	EN: CriticalExtent
Definition	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::DefinitionCode	SNOMED CT: 246112005 Severity
DCM::DefinitionCode	NL-CM:8.2.7
DCM::ValueSet	MateVanKritiekZijnCodelijst OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.4
Options	

«data» LaatsteReactieDatumTijd	
Alias	EN: LastReactionDateTime
Definition	Entry of the last time a hypersensitive reaction took place.
Datatype	TS

DCM::DefinitionCode	NL-CM:8.2.8	
Options		

«data»	Toelichting	
Alias	EN: Explanation	
Definition	Textual explanation of the hypersensitivity which cannot be entered in any of the other fields.	
Datatype	ST	
DCM::DefinitionCode	NL-CM:8.2.9	
Options		

«container»	Reactie	
Alias	EN: Reaction	
Definition	Container of the Reaction concept. This container contains all data elements of the Reaction concept.	
Datatype		
DCM::DefinitionCode	NL-CM:8.2.10	
Options		

«data»	Symptoom	
Alias	EN: Symptom	
Definition	The content specifications of the reaction that takes place when the patient is exposed to the causative substance.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:8.2.11	
DCM::ExampleValue	Anafylaxie, Jeuk	
DCM::ValueSet	SymptoomCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.5
Options		

«data»	SpecifiekeStof	
Alias	EN: SpecificSubstance	
Definition	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::DefinitionCode	NL-CM:8.2.12	
DCM::ValueSet	SpecifiekeStofHPKCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.18
DCM::ValueSet	SpecifiekeStofSNKCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.10
DCM::ValueSet	SpecifiekeStofSSKCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.9
DCM::ValueSet	SpecifiekeStofAllergeneStoffenCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.16 Allergene stoffen niet gerelateerd aan medicatiebewaking.
DCM::ValueSet	SpecifiekeStofThesaurus122Codelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.11
Options		

«data»	Waarschijnlijkheid	
Alias	EN: Probability	
Definition	Indication of the probability that the substance described in the 'SpecificSubstance' concept caused the reaction.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:8.2.18	
DCM::DefinitionCode	SNOMED CT:408729009 Finding context	
DCM::ValueSet	WaarschijnlijkheidCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.8
Options		

«data»	ReactieBeschrijving	
Alias	EN: ReactionDescription	
Definition	Textual description of the reaction as a whole.	
Datatype	ST	
DCM::DefinitionCode	NL-CM:8.2.13	
Options		

«data»	Ernst	
Alias	EN: Severity	
Definition	The severity of the reaction as a result of exposure to the causative substance.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:8.2.14	
DCM::ExampleValue	Ernstig	
DCM::ValueSet	ErnstCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.6
Options		

«data»	WijzeVanBlootstelling	
Alias	EN: MannerOfExposure	
Definition	Way in which the patient came into contact with the causative substance or the way in which the substance was administered.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:8.2.15	
DCM::ValueSet	WijzeVanBlootstellingCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.12
Options		

«data»	ReactieTijdstip	
Alias	EN: ReactionTime	
Definition	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::DefinitionCode	NL-CM:8.2.17	
Options		

«data»	ReactieDuur	
Alias	EN: ReactionDuration	
Definition	Duration of the reaction.	
Datatype	PQ	
DCM::DefinitionCode	NL-CM:8.2.16	
Options		

«document»	SpecifiekeStofAllergeneStoffenCodelijst	
Alias		
Definition		
Datatype		
Options		

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

«document»	SpecifiekeStofHPKCodelijst	
Alias		
Definition		
Datatype		
Options		

SpecifiekeStofHPKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.18
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»	SpecifiekeStofSNKCodelijst	
Alias		
Definition		
Datatype		
Options		

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

«document»	SpecifiekeStofSSKCodelijst	
Alias		
Definition		
Datatype		
Options		

SpecifiekeStofSSKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.9
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»		
SpecifiekeStofThesaurus122Codelijst		
Alias		
Definition		
Datatype		
Options		
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»		
VeroorzakendeStofAllergeneStoffenCodelijst		
Alias		
Definition		
Datatype		
Options		
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»		
VeroorzakendeStofHPKCodelijst		
Alias		
Definition		
Datatype		
Options		
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»		
VeroorzakendeStofSNKCodelijst		
Alias		
Definition		
Datatype		
Options		
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»		
VeroorzakendeStofSSKCodelijst		
Alias		
Definition		
Datatype		
Options		

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»		VeroorzakendeStofThesaurus122Codelijst
Alias		
Definition		
Datatype		
Options		
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»		WijzeVanBlootstellingCodelijst	
Alias			
Definition			
Datatype			
Options			
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	

«document»		WaarschijnlijkheidCodelijst		
Alias				
Definition				
Datatype				
Options				
WaarschijnlijkheidCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.8		
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Definitely present	410591008	SNOMED CT	2.16.840.1.113883.6.96	Zeker
Probably present	410592001	SNOMED CT	2.16.840.1.113883.6.96	Waarschijnlijk
Known possible	410590009	SNOMED CT	2.16.840.1.113883.6.96	Mogelijk
Probably not present	410593006	SNOMED CT	2.16.840.1.113883.6.96	Onwaarschijnlijk
Definitely not present	410594000	SNOMED CT	2.16.840.1.113883.6.96	Zeker niet
Unknown	261665006	SNOMED CT	2.16.840.1.113883.6.96	Onbekend

«document»		AllergieCategorieCodelijst
Alias		
Definition		
Datatype		

Options				
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» AllergieStatusCodelijst				
Alias				
Definition				
Datatype				
Options				
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» MateVanKritiekZijnCodelijst				
Alias				
Definition				
Datatype				
Options				
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
Low	62482003	SNOMED CT	2.16.840.1.113883.6.96	Laag
Medium	255508009	SNOMED CT	2.16.840.1.113883.6.96	Matig
High	7554009	SNOMED CT	2.16.840.1.113883.6.96	Hoog
Fatal	399166001	SNOMED CT	2.16.840.1.113883.6.96	Fataal

«document» SymptoomCodelijst	
Alias	
Definition	
Datatype	

Options				
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»		ErnstCodelijst		
Alias				
Definition				
Datatype				
Options				
ErnstCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.2.6	
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Mild	MILD	Severity Observation	2.16.840.1.113883.2.4.15.20	Mild
Moderate	MOD	Severity Observation	2.16.840.1.113883.2.4.15.20	Matig ernstig
Severe	SEV	Severity Observation	2.16.840.1.113883.2.4.15.20	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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