

Health & Care Information Model:

nl.zorg.Hypersensitivity-v1.0

Status: Final

Release status: Prepublished

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1. nl.zorg.Hypersensitivity-v1.0

DCM::CoderList	Werkgroep Overgevoeligheid
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Werkgroep Overgevoeligheid
DCM::CreationDate	4-10-2021
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.8.4
DCM::KeywordList	Allergie,Overgevoeligheid
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep Overgevoeligheid
DCM::Name	nl.zorg.Overgevoeligheid
DCM::PublicationDate	15-10-2023
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Werkgroep Overgevoeligheid
DCM::RevisionDate	
DCM::Supersedes	
DCM::Version	1.0
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (01-12-2021)

1.2 Concept

A hypersensitivity describes a substance or group of substances that is monitored so that a hypersensitivity reaction can be prevented.

1.3 Mindmap

1.4 Purpose

A drug hypersensitivity is recorded so that prescribers, providers and administrators can take it into account when prescribing, dispensing and administering medication. It is recorded in such a way that a medication monitoring system can give a warning at the right time. Other sensitivities such as food, contact, inhalation, insect venom and occupational allergens are recorded so that healthcare providers can take them into account in a general sense.

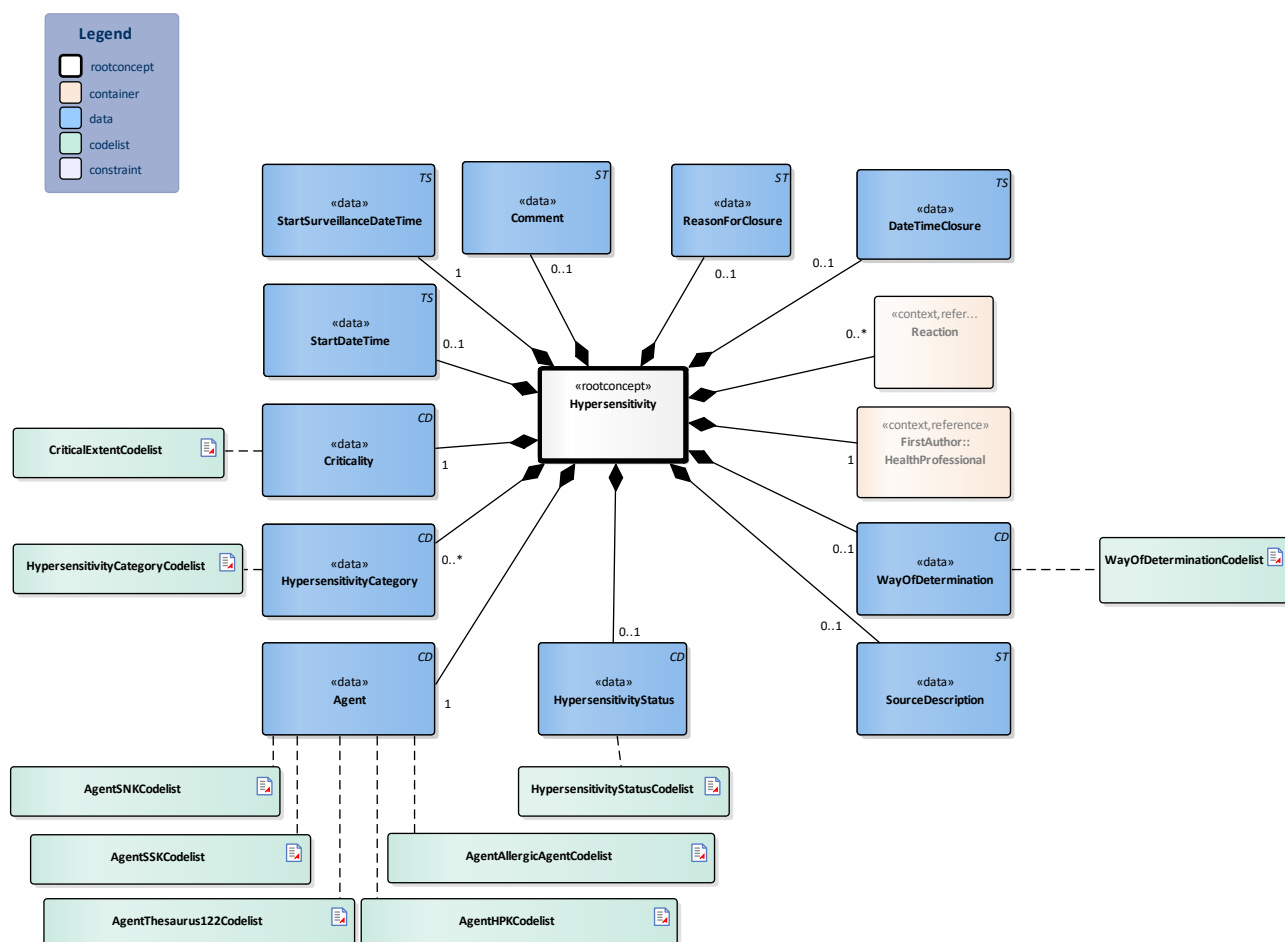
- It is important to share sensitivities with other caregivers of the patient so that they too can provide care in a safe manner. For that purpose, it is possible to record and exchange additional information so that the receiving party can appreciate the hypersensitivity. For example, by describing the method of determination, and also a description of (a) reaction(s) to the substance.
- A (drug) hypersensitivity is not the same as a problem or episode. That's because a hypersensitivity is captured specifically from the context of surveillance. A (drug) hypersensitivity is therefore not recorded in the context of diagnostics or in the context of treatment of a (drug) hypersensitivity.

1.5 Patient Population

1.6 Evidence Base

- In order to be able to register and handle hypersensitivities in the work process of prescribers and pharmacists (in pharmacovigilance), the available codings in the G-standard and SHB are used for medicines in the Netherlands. The working method is laid down in the agreement set Registration and transfer of drug hypersensitivities.
- For hypersensitivity to food, articles (such as bandages and plasters), plants and animals, five reference lists based on SNOMED CT containing food allergens, inhalation allergens, insect venom allergens, occupational allergens and contact allergens are used. Free text is also possible.

1.7 Information Model



«rootconcept»	Hypersensitivity	
Definitie	Root concept of the Hypersensitivity information model. This root concept contains all data elements of the Hypersensitivity information model.	
Datatype		
DCM::ConceptId	NL-CM:8.4.1	
Opties		

«context»	Reaction	
Definitie	Root concept of the Reaction information model. This root concept contains all data elements of the Reaction information model.	
Datatype		
DCM::ConceptId	NL-CM:8.4.2	
DCM::ReferencedConceptId	NL-CM:5.3.1	This is a reference to the rootconcept of information model Reaction.

Opties	
---------------	--

«data»	DateTimeClosure	
Definitie	The date and time when it was decided to stop monitoring.	
Datatype	TS	
DCM::ConceptId	NL-CM:8.4.3	
Opties		

«context»	FirstAuthor::HealthProfessional	
Definitie	The healthcare professional who first started monitoring the hypersensitivity.	
Datatype		
DCM::ConceptId	NL-CM:8.4.4	
DCM::ReferencedConceptId	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional.
Opties		

«data»	WayOfDetermination	
Definitie	The way in which the hypersensitivity is determined.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.4.5	
DCM::ValueSet	WayOfDeterminationCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.1
Opties		

«data»	SourceDescription	
Definitie	The description of how the information was obtained, such as receiving a letter from a specialist or an interview with the patient.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.4.6	
Opties		

«data»	ReasonForClosure	
Definitie	Reason why the hypersensitivity is closed.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.4.7	
Opties		

«data»	Agent	
Definitie	The substance or group of substances that is monitored.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.4.8	
DCM::ValueSet	AgentThesaurus122Codelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.6
DCM::ValueSet	AgentHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.3
DCM::ValueSet	AgentAllergicAgentCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.2
DCM::ValueSet	AgentSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.4
DCM::ValueSet	AgentSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.5
Opties		

«data»	HypersensitivityCategory	
Definitie	Identifies the hypersensitivity category such as medication, food or environment.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.4.9	
DCM::ValueSet	HypersensitivityCategoryCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.7
Opties		

«data»	HypersensitivityStatus	
Definitie	Statement on the status of the patient's hypersensitivity.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.4.10	
DCM::ValueSet	HypersensitivityStatusCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.8
Opties		

«data»	StartDateTime	
Definitie	Date and time when the hypersensitivity first manifested itself in a reaction. This can be an exact date and time, but also a global indication of the date (for example, only year or year and month).	
Datatype	TS	
DCM::ConceptId	NL-CM:8.4.11	
DCM::ExampleValue	09-10-2011	
Opties		

«data»	Criticality	
Definitie	The healthcare professional's assessment of whether the hypersensitivity is a contraindication to intended or unintended exposure to the substance, group of substances or environmental factor to which the patient is hypersensitive.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.4.12	
DCM::DefinitionCode	SNOMED CT: 246112005 Severity	
DCM::ValueSet	CriticalExtentCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.9
Opties		

«data»	StartSurveillanceDateTime	
Definitie	Date and time when the first author started monitoring the hypersensitivity.	
Datatype	TS	
DCM::ConceptId	NL-CM:8.4.13	
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:8.4.14	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«document»	WayOfDeterminationCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.4.1			
HCIM::ValueSetLanguage	--			
Opties				
ManierVanVastellenCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.1	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek	NTB	SNOMED CT	2.16.840.1.113883.6.96	Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek
Vastgesteld op basis van het klinisch beeld	NTB	SNOMED CT	2.16.840.1.113883.6.96	Vastgesteld op basis van het klinisch beeld
Op basis van de anamnese	NTB	SNOMED CT	2.16.840.1.113883.6.96	Op basis van de anamnese

«document»		AgentAllergicAgentCodelist	
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.4.2		
HCIM::ValueSetLanguage	--		
Opties			
StofAllergeneStoffenCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.2	
Codes		Coding Syst. Name	Coding System OID
SNOMED CT: ^98061000146100 Dutch non-drug allergen simple reference set (foundation metadata concept)		SNOMED CT	2.16.840.1.113883.6.96

«document»	AgentHPKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.4.3		
HCIM::ValueSetLanguage	--		
Opties			
StofHPKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.3	
Codes	Coding Syst. Name	Coding System OID	
Alle waarden	G-Standaard Handels Product Code (HPK)	2.16.840.1.113883.2.4.4.7	

«document»		AgentSNKCodelist		
Definitie				
Datatype				

DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.4		
HCIM::ValueSetLanguage	--		
Opties			
StofSNKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.4	
Codes	Coding Syst. Name	Coding System OID	
Alle waarden	G-standaard Stofnaamcode (SNK)	2.16.840.1.113883.2.4.4.1.750	

«document»	AgentSSKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.5		
HCIM::ValueSetLanguage	--		
Opties			
StofSSKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.5	
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»	AgentThesaurus122Codelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.6		
HCIM::ValueSetLanguage	--		
Opties			
StofThesaurus122Codelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.6	
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»	HypersensitivityCategoryCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.7			
HCIM::ValueSetLanguage	--			
Opties				
OvergevoeligheidCategorieCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.7		
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Propensity to adverse reactions to food	418471000	SNOMED CT	2.16.840.1.113883.6.96	Voedselallergeen

Propensity to adverse reactions to drug	419511003	SNOMED CT	2.16.840.1.113883.6.96	Geneesmiddel
Propensity to adverse reaction to occupational allergen	157541000146109	SNOMED CT	2.16.840.1.113883.6.96	Beroepsallergeen
Propensity to adverse reaction to inhalation allergen	157521000146103	SNOMED CT	2.16.840.1.113883.6.96	Inhalatieallergeen
Propensity to adverse reaction to contact allergen	157531000146101	SNOMED CT	2.16.840.1.113883.6.96	Contactallergeen
Propensity to adverse reaction to insect venom	157511000146108	SNOMED CT	2.16.840.1.113883.6.96	Insectengifallergeen

«document»	HypersensitivityStatusCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.4.8			
HCIM::ValueSetLanguage	--			
Opties				
OvergevoeligheidStatusCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.8	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Active	55561003	SNOMED CT	2.16.840.1.113883.6.96	Actief
Inactive	73425007	SNOMED CT	2.16.840.1.113883.6.96	Inactief

«document»	CriticalExtentCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.4.9			
HCIM::ValueSetLanguage	--			
Opties				
RisicoBeoordelingCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.9		
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Mild	255604002	SNOMED CT	2.16.840.1.113883.6.96	Laag
Severe	24484000	SNOMED CT	2.16.840.1.113883.6.96	Hoog
Geen oordeel	NTB	SNOMED CT	2.16.840.1.113883.6.96	Geen oordeel

Legend	
Definitie	
Datatype	
Opties	

1.8 Example Instances

Overgevoeligheid		
Stof	Amoxicilline/clavulaanzuur	Penicillines
Overgevoeligheidscategorie	Geneesmiddelen	Geneesmiddelen
EersteAuteur::Zorgverlener		
Naam	Mevr. Zaal	Mevr. Zaal
Specialisme	SEH-arts	SEH-arts
Risicobeoordeling	Laag	Ernstig
Manier van vast stellen	Vastgesteld op basis van het klinisch beeld	Op basis van anamnese
Omschrijving van de bron	Gesprek met <u>patient</u>	-
Toelichting	-	-
Begindatumtijd	Nu	Nu
<u>Startbewakingdatumtijd</u>	Nu	Nu
Datum van afsluiten	-	-
<u>Overgevoeligheidstatus</u>	Actief	Actief
Reactie		
<u>ReactieErnst</u>	Ernstig	Matig
<u>ReactieTijdstip</u>	12-10-2020	02-06-2021
<u>ReactieSymptomen</u>	Trombocytopenie	Jeuk
<u>Veroorzakendestof</u>	Amoxicilline/clavulaanzuur	Penicillines

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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