

# 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.

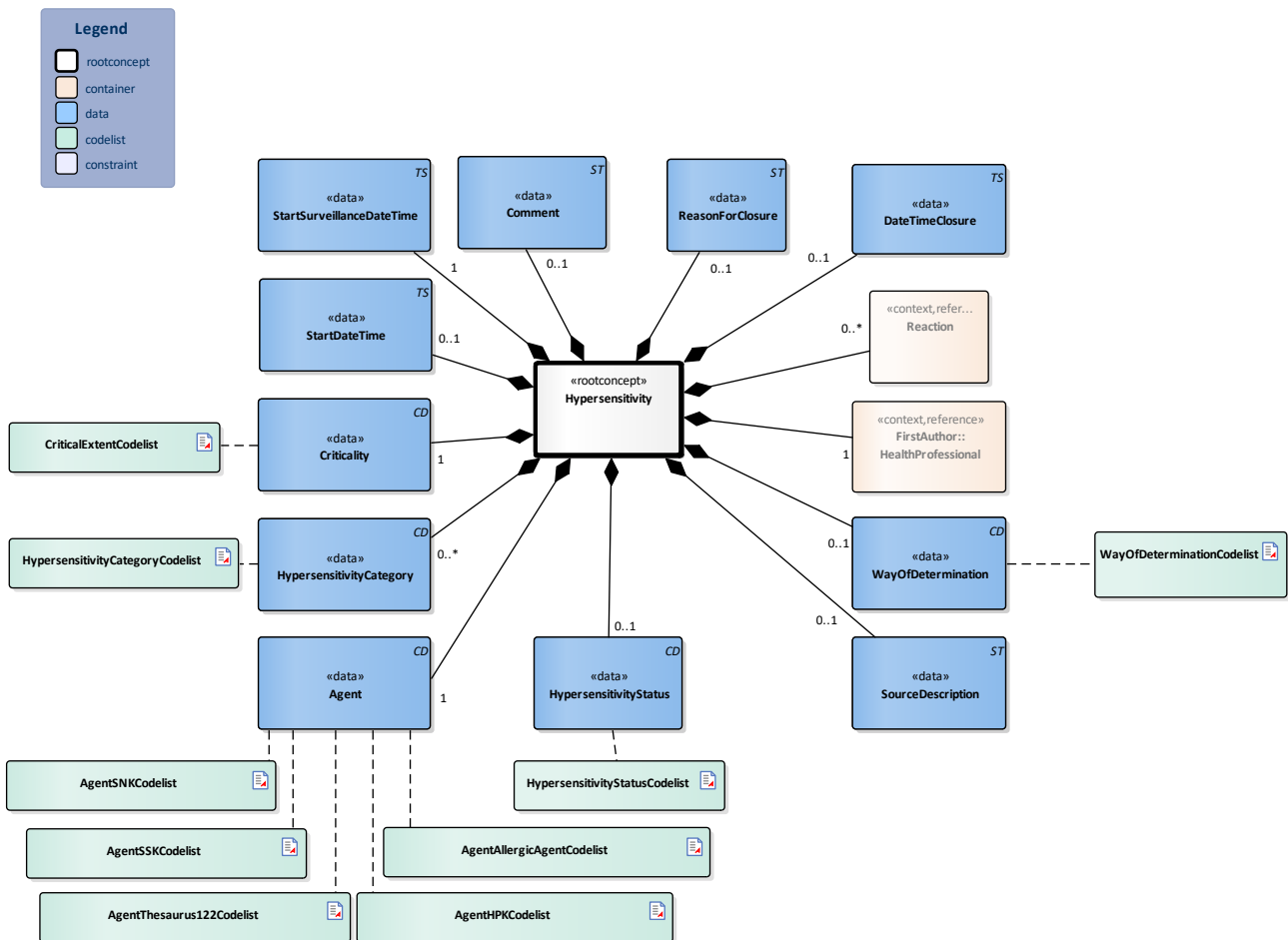
- It is important to share sensitivities with other caregivers of the patient so that they too can provide care in a safe manner. For that purpose, it is possible to record and exchange additional information so that the receiving party can appreciate the hypersensitivity. For example, by describing 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
<b>Definitie</b>	Root concept of the Hypersensitivity information model. This root concept contains all data elements of the Hypersensitivity information model.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:8.4.1
<b>Opties</b>	

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

<b>Opties</b>	
---------------	--

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

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

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

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

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

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

«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	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.1			
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	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.2			
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	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.3			
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 Kode (HPK)	2.16.840.1.113883.2.4.4.7		

«document»		AgentSNKCodelist		
Definitie				
Datatype				

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

<b>«document»</b>	<b>AgentSSKCodelist</b>		
<b>Definitie</b>			
<b>Datatype</b>			
<b>DCM::ValueSetBinding</b>	Required		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.5		
<b>HCIM::ValueSetLanguage</b>	--		
<b>Opties</b>			
<b>StofSSKCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.5</b>	
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	
Alle waarden	G-standaard Stofnaamcode i.c.m. toedieningsweg (SSK)	2.16.840.1.113883.2.4.4.1.725	

<b>«document»</b>	<b>AgentThesaurus122Codelist</b>		
<b>Definitie</b>			
<b>Datatype</b>			
<b>DCM::ValueSetBinding</b>	Required		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.6		
<b>HCIM::ValueSetLanguage</b>	--		
<b>Opties</b>			
<b>StofThesaurus122Codelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.6</b>	
<b>Codes</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	
Alle waarden	G-standaard Ongewenste medicatiegroepen	2.16.840.1.113883.2.4.4.1.902.122	

<b>«document»</b>	<b>HypersensitivityCategoryCodelist</b>			
<b>Definitie</b>				
<b>Datatype</b>				
<b>DCM::ValueSetBinding</b>	Required			
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.4.7			
<b>HCIM::ValueSetLanguage</b>	--			
<b>Opties</b>				
<b>OvergevoeligheidCategorieCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.7</b>		
<b>Concept Name</b>	<b>Concept Code</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
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

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

<b>«document»</b>		<b>CriticalExtentCodelist</b>		
<b>Definitie</b>				
<b>Datatype</b>				
<b>DCM::ValueSetBinding</b>	Required			
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.8.4.9			
<b>HCIM::ValueSetLanguage</b>	--			
<b>Opties</b>				
<b>RisicoBeoordelingCodelijst</b>		<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.4.9</b>		
<b>Concept Name</b>	<b>Concept Code</b>	<b>Coding Syst. Name</b>	<b>Coding System OID</b>	<b>Description</b>
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

<b>Legend</b>	
<b>Definitie</b>	
<b>Datatype</b>	
<b>Opties</b>	

## 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>Overgevoeligheidsstatus</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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