

# Health & Care Information Model:

## nl.zorg.HypersensitivityIntolerance-v2.0

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# Content

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# 1. nl.zorg.HypersensitivityIntolerance-v2.0

DCM::CoderList	Zib-centrum
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Zib-centrum
DCM::CreationDate	22-05-2023
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	*
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.8.6
DCM::KeywordList	
DCM::LifecycleStatus	Final
DCM::ModelerList	*
DCM::Name	nl.zorg.OvergevoeligheidIntolerantie
DCM::PublicationDate	17-04-2026
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Zib-centrum
DCM::RevisionDate	03-04-2025
DCM::Supersedes	nl.zorg.OvergevoeligheidIntolerantie-v1.0
DCM::Version	2.0
HCIM::PublicationLanguage	EN

## 1.1 Revision History

Publicatieversie 1.0 (15-04-2024)

Bevat: ZIB-1167, ZIB-1340, ZIB-1370, ZIB-2183.

Publicatieversie 2.0 (24-04-2024)

Bevat: ZIB-2395, ZIB-2643, ZIB-2648,ZIB-2666, ZIB-2667,ZIB-2675, ZIB-2744.

## 1.2 Concept

The tendency to develop an adverse physical reaction when exposed to a specific substance, group of substances or type of radiation.

## 1.3 Mindmap

## 1.4 Purpose

Information regarding a patient's propensity to een adverse reaction indicates that an undesirable reaction may occur upon exposure to the specified substance, group of substances or radiation. This may be a reason for the healthcare provider to monitor the specified substance, group of substances or radiation.

## 1.5 Patient Population

## 1.6 Evidence Base

Not everyone gives the same meaning to the terms Hypersensitivity and Intolerance. There is more

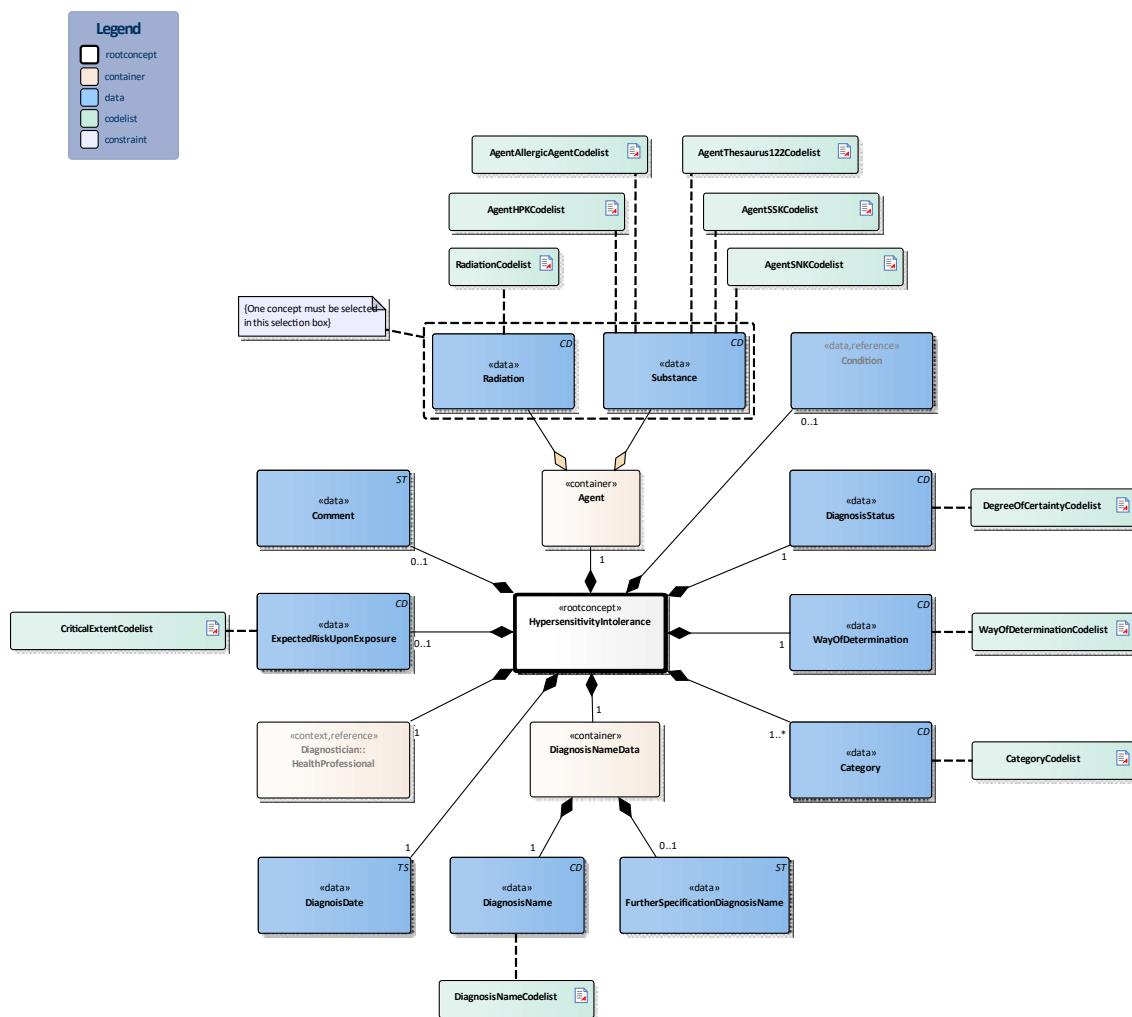
consensus about the term Allergy. The term Hypersensitivity generally serves as broader than Allergy. The name HypersensitivityIntolerance for the root concept of the zib indicates that this zib broadly covers all diagnoses that boil down to the patient's tendency to develop an undesirable reaction when exposed to a specific substance, group of substances or type of radiation.

This tendency may have been demonstrated by additional diagnostic tests, but can also be assumed based on the nature of the reaction(s) and/or the number of reactions that occurred when exposed to the substance(s) or radiation. HypersensitivityIntolerance covers, among other things, medicines, food ingredients, inhalation allergens (e.g. pollen), insect venom and contact allergens (e.g. nickel and latex). The Hypersensitivity Intolerance zib is based on the zib Diagnosis, because it concerns a diagnosis. The main difference is the container 'Agent' instead of 'Reason'. In addition, only 1 diagnosis can be recorded and no differential diagnosis, because a different hypersensitivity also implies a different agent. For this reason, Agents also has cardinality 1.

Just like Diagnosis, HypersensitivityIntolerance has a reference to Condition, because it concerns the diagnostic interpretation of the condition.

The cardinality of the reference to Condition is 0..1, because in the case of a denial of a hypersensitivity or intolerance there is no condition to which that diagnosis relates. To represent that a patient is not aware of, for example, an allergy to penicillin or that an allergy to penicillin has been excluded, one should use the zib Exclusion with a reference to HypersensitivityIntolerance. In this case, the instance of HypersensitivityIntolerance does not refer to a Condition.

## 1.7 Information Model



«rootconcept»	HypersensitivityIntolerance	
Definitie	This is a reference to the rootconcept of information model HypersensitivityIntolerance.	
Datatype		
DCM::ConceptId	NL-CM:8.6.1	
DCM::DefinitionCode	SNOMED CT: 420134006 neiging tot ongewenste reactie	
Opties		

«data»	Condition	
Definitie	The condition of which the hypersensitivity or intolerance is the interpretation.	
Datatype		
DCM::ConceptId	NL-CM:8.6.2	
DCM::ReferencedConceptId	NL-CM:5.4.1	This is a reference to the rootconcept of information model Condition.
Opties		

«data»	DiagnosisStatus	
Definitie	Indicates the status of the diagnostic process.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.6.3	
DCM::ValueSet	DegreeOfCertaintyCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.2
Opties		

«data»	WayOfDetermination	
Definitie	The way in which the hypersensitivity or intolerance is determined.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.6.4	
DCM::DefinitionCode	SNOMED CT: 418775008 methode van bevestiging	
DCM::ValueSet	WayOfDeterminationCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.4
Opties		

«data»	Category	
Definitie	Identifies the category of the agent to which the hypersensitivity or intolerance relates, such as medicines and nutritional substances.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.6.5	
DCM::ValueSet	CategoryCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.10
Opties		

«container»	DiagnosisNameData	
Definitie	Container of the DiagnosisNameData concept. This container contains all data elements of the DiagnosisNameData concept. Represents the hypersensitivity as interpretation of the condition.	
Datatype		
DCM::ConceptId	NL-CM:8.6.6	
Opties		

«data»	DiagnosisName	
Definitie	The term with associated code that the care professional selects from the used code list to specify the diagnosis.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.6.7	
DCM::DefinitionCode	SNOMED CT: 439401001 diagnose	
DCM::ValueSet	DiagnosisNameCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.3
Opties		

«data»	FurtherSpecificationDiagnosisName	
Definitie	A more detailed description of the name of the hypersensitivity or intolerance in free text, when this detail is not available in the used code list.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.6.8	
Opties		

«data»	DiagnosisDate	
Definitie	Date (and time) at which the care professional came to the diagnosis.	
Datatype	TS	
DCM::ConceptId	NL-CM:8.6.9	
DCM::DefinitionCode	SNOMED CT: 432213005 datum van diagnose	
Opties		

«context»	Diagnostician::HealthProfessional	
Definitie	The care professional that acquired the diagnostic insight regarding the hypersensitivity or intolerance. This can be a different individual than the person who recorded the diagnostic insight.	
Datatype		
DCM::ConceptId	NL-CM:8.6.10	
DCM::DefinitionCode	ParticipationType: PRF performer	
DCM::ReferencedConceptId	NL-CM:17.1.1	This is a reference to the rootconcept of information model HealthProfessional.
Opties		

«data»	ExpectedRiskUponExposure	
Definitie	The healthcare professional's assessment of the expected severity of the reaction upon future exposure to the substance, group of substances or environmental factor to which the patient is hypersensitive or intolerant.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.6.11	
DCM::DefinitionCode	SNOMED CT: 340271000146105 expected severity of reaction	
DCM::ValueSet	CriticalExtentCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.11
Opties		

«data»	Comment	
Definitie	Textual explanation of the hypersensitivity or intolerance which cannot be	

	entered in any of the other fields.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:8.6.12	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>Opties</b>		

<b>«container»</b>	<b>Agent</b>	
<b>Definitie</b>	Container of the Agent concept. This container contains all data elements of the Agent concept.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:8.6.13	
<b>DCM::DefinitionCode</b>	SNOMED CT: 246075003 veroorzaker	
<b>Opties</b>		

<b>«data»</b>	<b>Radiation</b>	
<b>Definitie</b>	Radiation as trigger for an adverse reaction.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:8.6.14	
<b>DCM::DefinitionCode</b>	SNOMED CT: 82107009 straling	
<b>DCM::ValueSet</b>	RadiationCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.1
<b>Opties</b>		

<b>«data»</b>	<b>Substance</b>	
<b>Definitie</b>	The substance or group of substances that trigger a reaction in the patient upon exposure.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:8.6.15	
<b>DCM::DefinitionCode</b>	SNOMED CT: 105590001 substantie	
<b>DCM::ValueSet</b>	AgentHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.6
<b>DCM::ValueSet</b>	AgentSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.7
<b>DCM::ValueSet</b>	AgentSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.8
<b>DCM::ValueSet</b>	AgentThesaurus122Codelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.9
<b>DCM::ValueSet</b>	AgentAllergicAgentCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.5
<b>Opties</b>		

<b>«document»</b>	<b>RadiationCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.1	
<b>DCM::ValueSetInclude OTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	

HCIM::ValueSetLanguage	--		
Opties			
StralingCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.1	
Concept Name	Concept Code	Coding Syst. Name	Description
Radioactivity	32888000	SNOMED CT	Radioactieve straling
Sunlight	49926000	SNOMED CT	Zonlicht
Ultraviolet radiation	41355003	SNOMED CT	UV-licht
Radiant heat	285337003	SNOMED CT	Warmtestraling
Radio wave	52799000	SNOMED CT	Radiogolven

«document»	DegreeOfCertaintyCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.2			
DCM::ValueSetIncludeOTH	False			
DCM::ValueSetStatus	Active			
HCIM::ValueSetLanguage	--			
Opties				
DiagnoseStatusCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.2		
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Preliminary diagnosis	148006	SNOMED CT	2.16.840.1.113883.6.96	Voorlopige diagnose
Established diagnosis	14657009	SNOMED CT	2.16.840.1.113883.6.96	Bevestigde diagnose
Differential diagnosis	47965005	SNOMED CT	2.16.840.1.113883.6.96	Differentiaaldiagnose

«document»	DiagnosisNameCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.3	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		
DiagnoseNaamCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.3
Codes	Coding Syst. Name	Coding System OID
Alle waarden	DHD Diagnosethesaurus	2.16.840.1.113883.2.4.3.120.5.1
Alle waarden	ICPC-1 NL	2.16.840.1.113883.2.4.4.31.1
SNOMED CT: <404684003   Clinical finding	SNOMED CT	2.16.840.1.113883.6.96

«document»	WayOfDeterminationCodelist		
Definitie			



<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.4	
<b>DCM::ValueSetIncludeOTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		

<b>WijzeVanVastellenCodelijst</b>	<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.4</b>
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Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Anamnese en lichamelijk onderzoek met evaluatie en management van patiënt	14736009	SNOMED CT	2.16.840.1.113883.6.96	Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek
Anamnese en lichamelijk onderzoek	63332003	SNOMED CT	2.16.840.1.113883.6.96	Vastgesteld op basis van het klinisch beeld
Afnemen van anamnese	84100007	SNOMED CT	2.16.840.1.113883.6.96	Vastgesteld op basis van de anamnese
Bevinding door verrichting	118240005	SNOMED CT	2.16.840.1.113883.6.96	Vastgesteld alléén op basis van een verrichting (toevalsbevinding)
Verwerven van gezondheidsinformatie van eerdere behandelaar voor klinische afstemming	117131000146104	SNOMED CT	2.16.840.1.113883.6.96	Overgenomen uit betrouwbare rapportage [DEPRECATED]

<b>«document»</b>	<b>AgentAllergicAgentCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.5	
<b>DCM::ValueSetIncludeOTH</b>	True	
<b>DCM::ValueSetStatus</b>	Active	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		

<b>StofAllergeneStoffenCodelijst</b>	<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.5</b>
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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

<b>«document»</b>	<b>AgentHPKCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	

DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.6	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		
StofHPKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.6
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		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.7	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		
StofSNKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.7
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	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.8	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		
StofSSKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.8
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	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.9	

DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		
StofThesaurus122Codelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.9
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»	CategoryCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.10			
DCM::ValueSetIncludeOTH	True			
DCM::ValueSetStatus	Active			
HCIM::ValueSetLanguage	--			
Opties				
CategorieCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.10		
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	Voedingsmiddelen
Propensity to adverse reactions to drug	419511003	SNOMED CT	2.16.840.1.113883.6.96	Geneesmiddelen
Propensity to adverse reaction to inhalation allergen	157521000146103	SNOMED CT	2.16.840.1.113883.6.96	Inhalatieallergenen
Propensity to adverse reaction to contact allergen	157531000146101	SNOMED CT	2.16.840.1.113883.6.96	Contactallergenen
Propensity to adverse reaction to insect venom	157511000146108	SNOMED CT	2.16.840.1.113883.6.96	Insectengif
Propensity to adverse reactions to radiation	430421000146102	SNOMED CT	2.16.840.1.113883.6.96	Straling

«document»	CriticalExtentCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.11			
DCM::ValueSetIncludeOTH	False			
DCM::ValueSetStatus	Active			
HCIM::ValueSetLanguage	--			
Opties				
VerwachtRisicoBijBlootstellingCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.11		
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Mild	255604002	SNOMED CT	2.16.840.1.113883.6.96	Mild
Severe	24484000	SNOMED CT	2.16.840.1.113883.6.96	Ernstig

	Legend
Definitie	
Datatype	
Opties	

	Constraint
Definitie	One concept must be selected in this selection box
Datatype	
Opties	

## 1.8 Example Instances

OvergevoeligheidIntolerantie		
DiagnoseDatum	07-10-2023	12-12-2023
DiagnoseStatus	Voorlopige diagnose	Bevestigde diagnose
WijzeVanVaststellen	Vastgesteld op basis van anamnese.	Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek
Categorie		Voedingsmiddelen
VerwachtRisikoBijBlootstelling	Licht	Licht
DiagnoseNaamGegevens		
DiagnoseNaam	Lactose-intolerantie	Lactose-intolerantie
NadereSpecificatieDiagnoseNaam		
Agens		
Stof	Lactose	Lactose
Toelichting		
Diagnosesteller::Zorgverlener		
Naam	Drs. L.J. Verhagen	Drs. L.J. Verhagen
Specialisme	Huisarts	Huisarts
AandoeningOfGesteldheid		
PeriodeAanwezig		
StartDatumTijd	19-08-2023	19-08-2023
StatusDatum	07-10-2023	12-12-2023
Ernst	Matig	Matig

OvergevoeligheidIntolerantie	
DiagnoseDatum	08-08-2023
DiagnoseStatus	Voorlopige diagnose
WijzeVanVaststellen	Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek.
Categorie	Geneesmiddelen, Voedingsmiddelen.
VerwachtRisikoBijBlootstelling	Ernstig
Diagnose	
DiagnoseNaamGegevens	Neiging tot nadelige reactie op stof
NadereSpecificatieDiagnoseNaam	
Agens	
Stof	Carmin
Toelichting	Vastgesteld middels provocatietest.
Diagnosesteller::Zorgverlener	
Naam	Mevr. E. Sushel
Specialisme	Allergologie
AandoeningOfGesteldheid	
PeriodeAanwezig	
StartDatumTijd	05-2023
StatusDatum	07-10-2023
Ernst	Matig

OvergevoeligheidIntolerantie	
DiagnoseDatum	02-05-2023
DiagnoseStatus	Bevestigde diagnose
WijzeVanVaststellen	Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek.
Categorie	Geneesmiddelen
VerwachtRisikoBijBlootstelling	Mild
Diagnose	
DiagnoseNaamGegevens	Geneesmiddelovergevoeligheid
NadereSpecificatieDiagnoseNaam	
Agens	
Stof	Rituximab
Toelichting	Anafylactoïde reacties bij een hogere pompstand dan 5-6. Meerdere positieve challenges en negatieve dechallenges, passend bij rituximab geïnduceerde cellysis.
Diagnosesteller::Zorgverlener	
Naam	Mevr. C. van Aa
Specialisme	Neurologie
AandoeningOfGesteldheid	
PeriodeAanwezig	
StartDatumTijd	15-02-2023
StatusDatum	02-05-2023
Ernst	Matig

## **1.9 Instructions**

A hypersensitivity or intolerance always refers to the condition of which it is the interpretation. If > 1 instance of hypersensitivity or intolerance, reaction or diagnosis refers to the same condition, then the instantiation with the most recent diagnosis date represents the current diagnosis.

Valuesets from this zib may be deprecated when the SNOMED decision comes into force in the Netherlands. More information on the SNOMED decision and what its implementation means for zibs can be found at <https://zibs.nl/wiki/SNOMEDbesluit>. (Dutch)

## **1.10 Interpretation**

## **1.11 Care Process**

## **1.12 Example of the Instrument**

## **1.13 Constraints**

## **1.14 Issues**

## **1.15 References**

## **1.16 Functional Model**

## **1.17 Traceability to other Standards**

## **1.18 Disclaimer**

The Health and Care Information Models (a.k.a Clinical Building Block) has been made in collaboration with several different parties in healthcare. These parties asked Nictiz to manage good maintenance and development of the information models. Hereafter, these parties and Nictiz are referred to as the collaborating parties. The collaborating parties paid utmost attention to the reliability and topicality of the data in these Health and Care Information Models. Omissions and inaccuracies may however occur. The collaborating parties are not liable for any damages resulting from omissions or inaccuracies in the information provided, nor are they liable for damages resulting from problems caused by or inherent to distributing information on the internet, such as malfunctions, interruptions, errors or delays in information or services provide by the parties to you or by you to the parties via a website or via e-mail, or any other digital means. The collaborating parties will also not accept liability for any damages resulting from the use of data, advice or ideas provided by or on behalf of the parties by means of the Health and Care Information Models. The parties will not accept any liability for the content of information in this Health and Care Information Model to which or from which a hyperlink is referred. In the event of contradictions in mentioned Health and Care Information Model documents and files, the most recent and highest version of the listed order in the revisions will indicate the priority of the documents in question. If information included in the digital version of a Health and Care Information Model is also distributed in writing, the

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