Health & Care Information Model:

nl.zorg.HypersensitivityIntolerance-v1.0

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Content

1. nl.zorg.HypersensitivityIntolerance-v1.0

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1.1 Revision History

Publicatieversie 1.0 (15-04-2024)
Bevat: ZIB-1167, ZIB-1340, ZIB-1370, ZIB-2183.

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

Note on zib HypersensitivityIntolerance
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.

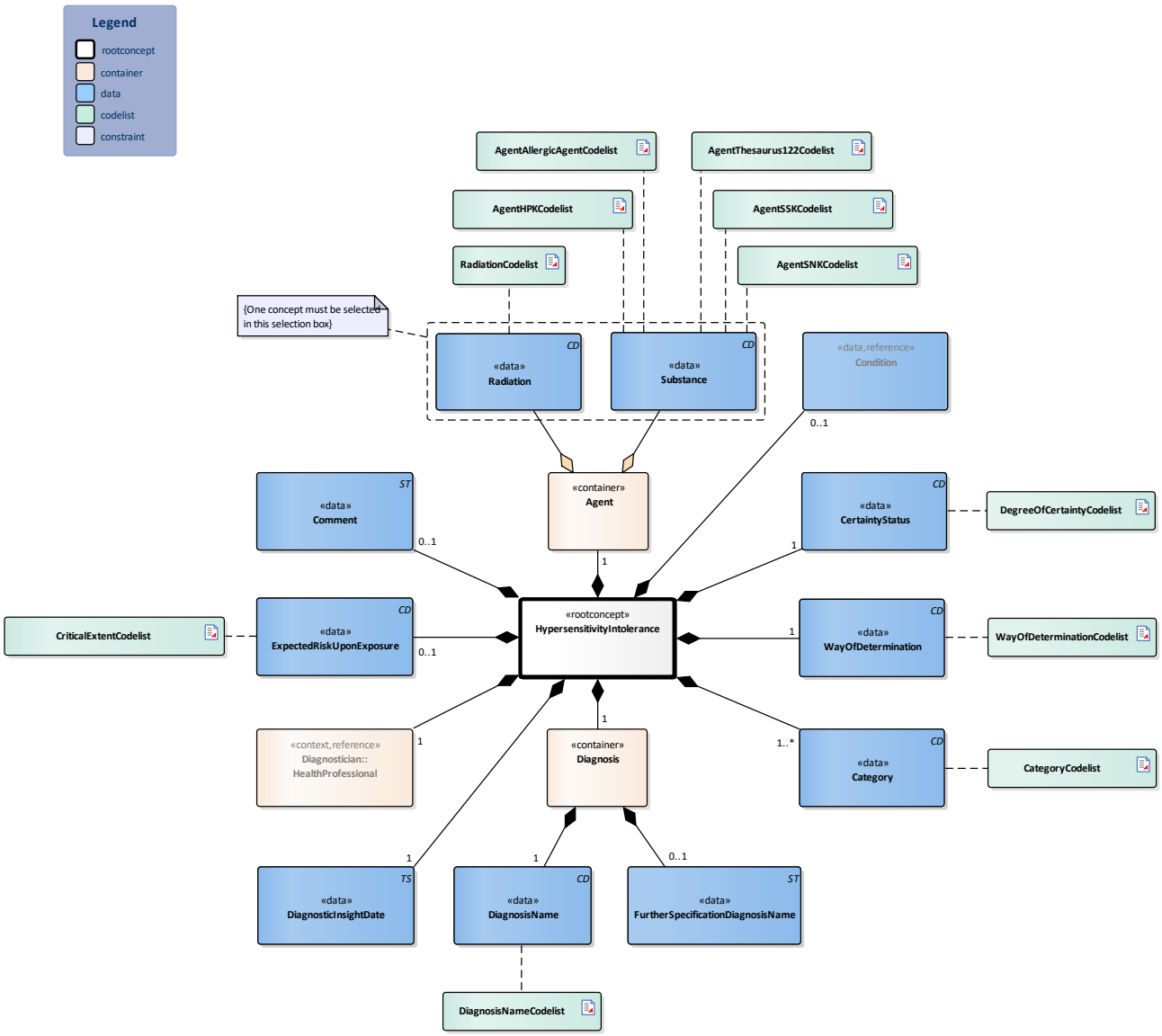
This tendency may have been demonstrated by additional diagnostic tests, but can also be assumed based on the nature of the reaction(s) and/or the number of reactions that occurred when exposed to the substance(s) or radiation. HypersensitivityIntolerance covers, among other things, medicines, food ingredients, inhalation allergens (e.g. pollen), insect venom and contact allergens (e.g. nickel and latex).

The Hypersensitivity Intolerance zib is based on the zib DiagnosticInsight, 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, Agens also has cardinality 1.
Just like DiagnosticInsight, 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.

<SPAN style="TEXT-DECORATION: underline">Functionality (informative)
EHRs already offer the option to distinguish between recording a new diagnosis or changing a diagnosis. Similar functionality is also necessary when it concerns a hypersensitivity or intolerance. When recording a new hypersensitivity or intolerance, the EHR must create a new Condition and have the new instance of HypersensitivityIntolerance refer to it.
Because hypersensitivity or intolerance is a diagnosis, the EHR must also make it possible to change a 'normal' diagnosis to a hypersensitivity or intolerance and vice versa. In the event of such a change, the EHR must have the new instance of HypersensitivityIntolerance or DiagnosticInsight refer to the same Condition as the previous instance of HypersensitivityIntolerance or DiagnosticInsight.
In order to be able to distinguish between a 'normal' diagnosis and a hypersensitivity or intolerance, the EHR should preferably have meta-knowledge of whether or not a diagnosis concerns a hypersensitivity or intolerance and, on that basis, offer the correct subset of the diagnosis list. If not, there is no validation as to whether the diagnosis chosen by the user is a 'normal' diagnosis or a hypersensitivity or intolerance.

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::DefinitionCode	SNOMED CT: 365860008 bevinding betreffende algemene klinische toestand	
DCM::ReferencedConceptId	NL-CM:5.4.1	This is a reference to the rootconcept of information model Condition.
Opties		

«data»	CertaintyStatus

Definitie	Indicates the conviction of the health professional with respect to the hypersensitivity or intolerance as interpretation of the condition.	
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 intlerance is determined.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.6.4	
DCM::DefinitionCode	SNOMED CT: 418775008 methode van bevinding	
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»	Diagnosis	
Definitie	Container of the Diagnosis concept. This container contains all data elements of the Diagnosis 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	
DCM::DefinitionCode	SNOMED CT: 330341000146107 toelichting op diagnose	

Opties	

«data»	DiagnosticInsightDate	
Definitie	Date (and time) at which the care professional obtained the diagnostic insight.	
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.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.6.12	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

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

«data»	Radiation

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

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

«document»	RadiationCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.1	
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**	**Coding System OID**	**Description**
Radioactivity	32888000	SNOMED CT	2.16.840.1.113883.6.96	Radioactieve straling
Sunlight	49926000	SNOMED CT	2.16.840.1.113883.6.96	Zonlicht
Ultraviolet radiation	41355003	SNOMED CT	2.16.840.1.113883.6.96	UV-licht
Radiant heat	285337003	SNOMED CT	2.16.840.1.113883.6.96	Warmtestraling
Radio wave	52799000	SNOMED CT	2.16.840.1.113883.6.96	Radiogolven
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	DegreeOfCertaintyCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.2	

HCIM::ValueSetLanguage	--	
Opties		

ZekerheidStatusCodelijst			**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**
Suspected	415684004	SNOMED CT	2.16.840.1.113883.6.96	Vermoedelijk
Known possible	410590009	SNOMED CT	2.16.840.1.113883.6.96	Mogelijk
Confirmed present	410605003	SNOMED CT	2.16.840.1.113883.6.96	Bevestigd
Probably not present	410593006	SNOMED CT	2.16.840.1.113883.6.96	Onwaarschijnlijk

«document»	DiagnosisNameCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.3	
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
Alle waarden	SNOMED CT	2.16.840.1.113883.6.96

«document»	WayOfDeterminationCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.4	
HCIM::ValueSetLanguage	--	
Opties		

WijzeVanVastellenCodelijst			**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.4**	
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
Vastgesteld op basis van aanvullend onderzoek	NTB	SNOMED CT	2.16.840.1.113883.6.96	Vastgesteld op basis van aanvullend onderzoek
verwerven van gezondheidsinformatie van eerdere behandelaar voor	117131000146104	SNOMED CT	2.16.840.1.113883.6.96	Overgenomen uit betrouwbare rapportage

klinische afstemming				
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	AgentAllergicAgentCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.5		
HCIM::ValueSetLanguage	--		
Opties			

StofAllergeneStoffenCodelijst	**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.6.5**	
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	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.6		
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		
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		

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		
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		
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**
Voedingsmiddelen	NTB	SNOMED CT	2.16.840.1.113883.6.96	Voedingsmiddelen
Geneesmiddelen	NTB	SNOMED CT	2.16.840.1.113883.6.96	Geneesmiddelen
Inhalatieallergenen	NTB	SNOMED CT	2.16.840.1.113883.6.96	Inhalatieallergenen
Contactallergenen	NTB	SNOMED CT	2.16.840.1.113883.6.96	Contactallergenen
Insectengif	NTB	SNOMED CT	2.16.840.1.113883.6.96	Insectengif
Straling	NTB	SNOMED CT	2.16.840.1.113883.6.96	Straling
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	CriticalExtentCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.6.11		
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		
DiagnostischInzichtDatum	07-10-2023	12-12-2023
ZekerheidsStatus	In Overweging	Bevestigd
WijzeVanVaststellen	Vastgesteld op basis van anamnese.	Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek
Categorie		Voedingsmiddelen
VerwachtRisicoBijBlootstelling	Licht	Licht
Diagnose		
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	
DiagnostischInzichtDatum	08-08-2023
ZekerheidsStatus	Waarschijnlijk
WijzeVanVaststellen	Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek.
Categorie	Geneesmiddelen, Voedingsmiddelen.
VerwachtRisicoBijBlootstelling	Ernstig
Diagnose	
DiagnoseNaam	Neiging tot nadelige reactie op stof
NadereSpecificatieDiagnoseNaam	
Agens	
Stof	Carmine
Toelichting	Vastgesteld middels provocatietest.
Diagnosesteller::Zorgverlener	
Naam	Mevr. E. Süshel
Specialisme	Allergologie
AandoeningOfGesteldheid	
PeriodeAanwezig	
StartDatumTijd	05-2023
StatusDatum	07-10-2023
Ernst	Matig

OvergevoeligheidIntolerantie	
DiagnostischInzichtDatum	02-05-2023
ZekerheidsStatus	Bevestigd
WijzeVanVaststellen	Vastgesteld op basis van het klinisch beeld en aanvullend onderzoek.
Categorie	Geneesmiddelen
VerwachtRisicoBijBlootstelling	Mild
Diagnose	
DiagnoseNaam	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 diagnostic insight refers to the same condition, then the instantiation with the most recent diagnosis date represents the current diagnostic insight.

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

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