Health & Care Information Model:

nl.zorg.SurveillanceDecision-v1.1

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Content

1. nl.zorg.SurveillanceDecision-v1.1

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DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Zib-centrum
DCM::CreationDate	07-06-2023
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	*
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.8.5
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DCM::Version	1.1
HCIM::PublicationLanguage	EN

1.1 Revision History

Publicatieversie 1.0 (15-04-2024)
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Publicatieversie 1.1 (24-04-2024)
Bevat: ZIB-2454, ZIB-2634, ZIB-2642, ZIB-2680.

1.2 Concept

The decision to initiate or terminate surveillance for a substance or group of substances that may cause an adverse reaction in the patient.

1.3 Mindmap

1.4 Purpose

Specifying a surveillance decision with an effective date makes it clear on which substance or group of substances surveillance has started or stopped. An overview of surveillance decisions provides insight into which substances are subject to surveillance and options for managing surveillance decisions.

1.5 Patient Population

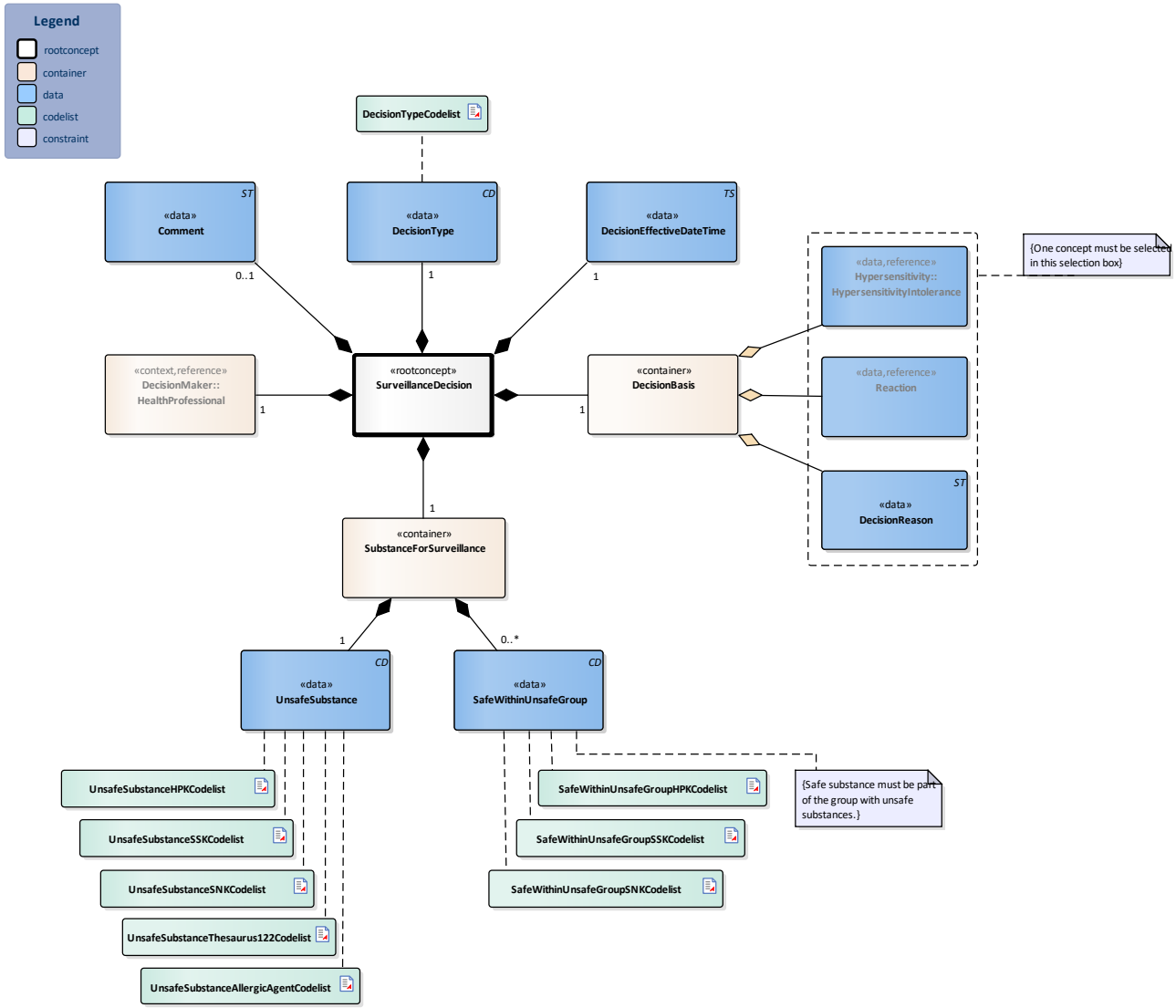
1.6 Evidence Base

The zib SurveillanceDecision represents the health professional's decision to start or end surveillance of a substance or group of substances. Initiating surveillance means that the health professional wants to receive

a warning if an unsafe substance is prescribed. The DecisionEffectiveDateTime represents the moment at which surveillance should start or end, depending on the DecisionType (started or discontinued).
The user can indicate the reason for starting a surveillance decision with one of the three following options:
- A hypersensitivity or intolerance: to be indicated via a reference to HypersensitivityIntolerance
- A reaction: to be indicated via a reference to Reaction
- Specify a decision reason in free text.

The SafeWithinUnsafeGroup element makes it possible to make exceptions within a (large) group of unsafe substances. Suppose that 78 of a group of substances are unsafe and 2 are safe, then one does not need to record a surveillance decision for each of the 78 unsafe substances. Instead, it will suffice to record one surveillance decision in which the entire group of 80 substances is declared as unsafe and 2 substances that are safe within that group.
Where a reaction is related to a (component of) a substance actually administered, the health professional may decide to start surveillance for a broader collection of substances. The substance(s) indicated in a surveillance decision may therefore differ from the substance to which the patient has actually developed a reaction.
A hypersensitivity or intolerance involves a diagnosis in which it has been demonstrated or assumed that the patient has a tendency to develop an adverse reaction when exposed to a certain substance or group of substances. In most cases, a surveillance decision related to this hypersensitivity or intolerance will concern the same substances, but not necessarily. Additional diagnostiscs may reveal an allergy based on a limited number of actually tested substances, and it may then be decided to start surveillance for the entire group to which those substances belong.
Even if no additional diagnostics are possible, but an intolerance is suspected, the specification of the substance(s) for which the health professional decides to start surveillance may deviate from the substance(s) that are recorded for the hypersensitivity or intolerance.

1.7 Information Model



«rootconcept»	SurveillanceDecision	
Definitie	This is a reference to the root concept of information model SurveillanceDecision.	
Datatype		
DCM::ConceptId	NL-CM:8.5.1	
DCM::DefinitionCode	SNOMED CT: 225419007 bewaking	
Opties		

«data»	DecisionType	
Definitie	The kind of decision: to start or stop the surveillance.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.5.2	
DCM::DefinitionCode	SNOMED CT: 408730004 context van verrichting	
DCM::ValueSet	DecisionTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.1
Opties		

«data»	DecisionEffectiveDateTime	
Definitie	Moment (date and time) when the decision should take effect.	
Datatype	TS	
DCM::ConceptId	NL-CM:8.5.3	

DCM::DefinitionCode	SNOMED CT: 330421000146108 effectueringsdatum	
Opties		

«container»	DecisionBasis	
Definitie	Container of the DecisionBasis concept.This container contains all data elements of the DecisionBasis concept. This concerns the basis for the surveillance decision to start or end the surveillance.	
Datatype		
DCM::ConceptId	NL-CM:8.5.4	
Opties		

«data»	Hypersensitivity::HypersensitivityIntolerance	
Definitie	Hypersensitivity in the patient as reason for the surveillance decision.	
Datatype		
DCM::ConceptId	NL-CM:8.5.5	
DCM::DefinitionCode	SNOMED CT: 420134006 neiging tot ongewenste reactie	
DCM::ReferencedConceptId	NL-CM:8.6.1	This is a reference to the rootconcept of information model HypersensitivityIntolerance.
Opties		

«data»	Reaction	
Definitie	Reaction in the patient as reason for the surveillance decision.	
Datatype		
DCM::ConceptId	NL-CM:8.5.6	
DCM::DefinitionCode	SNOMED CT: 281647001 ongewenste reactie	
DCM::ReferencedConceptId	NL-CM:5.3.1	This is a reference to the rootconcept of information model Reaction.
Opties		

«data»	DecisionReason	
Definitie	Reason for the surveillance decision: to start or end the surveillance.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.5.7	
DCM::DefinitionCode	SNOMED CT: 330431000146105 reden voor bewakingsbesluit	
Opties		

«container»	SubstanceForSurveillance	
Definitie	Container of the SubstanceForSurveillance concept. This container contains all data elements of the SubstanceForSurveillance concept. Substance or group of substances that must be monitored in the sense that prescription will trigger a message.	
Datatype		
DCM::ConceptId	NL-CM:8.5.8	
DCM::DefinitionCode	SNOMED CT: 105590001 substantie	
Opties		

«data»	UnsafeSubstance	
Definitie	The substance or group of substances that must be monitored completely or with exceptions.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.5.9	
DCM::DefinitionCode	SNOMED CT: 350221000146108 substantie onveilig voor patiënt	
DCM::ValueSet	UnsafeSubstanceThesaurus122Codelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.11
DCM::ValueSet	UnsafeSubstanceHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.6
DCM::ValueSet	UnsafeSubstanceAllergicAgentCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.4
DCM::ValueSet	UnsafeSubstanceSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.8
DCM::ValueSet	UnsafeSubstanceSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.9
Opties		

«data»	SafeWithinUnsafeGroup	
Definitie	Exception within the group of substances to be monitored that do not require monitoring.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.5.10	
DCM::DefinitionCode	SNOMED CT: 350211000146103 substantie veilig voor patiënt	
DCM::ValueSet	SafeWithinUnsafeGroupSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.7
DCM::ValueSet	SafeWithinUnsafeGroupSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.10
DCM::ValueSet	SafeWithinUnsafeGroupHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.5
Opties		

«context»	DecisionMaker::HealthProfessional	
Definitie	The health professional who made the surveillance decision.	
Datatype		
DCM::ConceptId	NL-CM:8.5.12	
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»	Comment	
Definitie	Textual explanation of the surveillance decision which cannot be expressed in any of the other fields.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.5.13	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	

Opties	

«document»	DecisionTypeCodelist
Definitie	
Datatype	
DCM::ValueSetBinding	Required
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.1
DCM::ValueSetIncludeOTH	False
DCM::ValueSetStatus	Active
HCIM::ValueSetLanguage	--
Opties	

BesluitTypeCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.1	
Concept Name	**Concept Code**	**Coding Syst. Name**	**Coding System OID**	**Description**
Gestart	385652002	SNOMED CT	2.16.840.1.113883.6.96	Bewaking gestart
Stopgezet	410546004	SNOMED CT	2.16.840.1.113883.6.96	Bewaking gestopt

«document»	UnsafeSubstanceAllergicAgentCodelist
Definitie	
Datatype	
DCM::ValueSetBinding	Required
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.4
DCM::ValueSetIncludeOTH	True
DCM::ValueSetStatus	Active
HCIM::ValueSetLanguage	--
Opties	

OnveiligeStofAllergeneStoffenCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.4
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»	SafeWithinUnsafeGroupHPKCodelist
Definitie	
Datatype	
DCM::ValueSetBinding	Required
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.5
DCM::ValueSetIncludeOTH	True
DCM::ValueSetStatus	Active
HCIM::ValueSetLanguage	--
Opties	

VeiligBinnenOnveiligeGroepHPKCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.5
Codes	**Coding Syst. Name**	**Coding System OID**
Alle waarden	G-Standaard Handels	2.16.840.1.113883.2.4.4.7

	Product Kode (HPK)	

«document»	UnsafeSubstanceHPKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.6		
DCM::ValueSetIncludeOTH	True		
DCM::ValueSetStatus	Active		
HCIM::ValueSetLanguage	--		
Opties			

OnveiligeStofHPKCodelijst		**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.6**
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»	SafeWithinUnsafeGroupSNKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.7		
DCM::ValueSetIncludeOTH	True		
DCM::ValueSetStatus	Active		
HCIM::ValueSetLanguage	--		
Opties			

VeiligBinnenOnveiligeGroepSNKCodelijst		**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.7**
Codes	**Coding Syst. Name**	**Coding System OID**
Alle waarden	G-standaard Stofnaamcode (SNK)	2.16.840.1.113883.2.4.4.1.750

«document»	UnsafeSubstanceSNKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.8		
DCM::ValueSetIncludeOTH	True		
DCM::ValueSetStatus	Active		
HCIM::ValueSetLanguage	--		
Opties			

OnveiligeStofSNKCodelijst		**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.8**
Codes	**Coding Syst. Name**	**Coding System OID**
Alle waarden	G-standaard Stofnaamcode (SNK)	2.16.840.1.113883.2.4.4.1.750

«document»	UnsafeSubstanceSSKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.9		
DCM::ValueSetIncludeOTH	True		
DCM::ValueSetStatus	Active		
HCIM::ValueSetLanguage	--		
Opties			

OnveiligeStofSSKCodelijst		**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.9**
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»	SafeWithinUnsafeGroupSSKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.10		
DCM::ValueSetIncludeOTH	True		
DCM::ValueSetStatus	Active		
HCIM::ValueSetLanguage	--		
Opties			

VeiligBinnenOnveiligeGroepSSKCodelijst		**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.10**
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»	UnsafeSubstanceThesaurus122Codelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.11		
DCM::ValueSetIncludeOTH	True		
DCM::ValueSetStatus	Active		
HCIM::ValueSetLanguage	--		
Opties			

OnveiligeStofThesaurus122Codelijst		**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.11**
Codes	**Coding Syst. Name**	**Coding System OID**
Alle waarden	G-standaard Ongewenste medicatiegroepen	2.16.840.1.113883.2.4.4.1.902.122

	Legend

Definitie	
Datatype	
Opties	

	Constraint
Definitie	Safe substance must be part of the group with unsafe substances.
Datatype	
Opties	

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

1.8 Example Instances

BewakingBesluit	
BesluitType	Bewaking gestart
BesluitIngangsDatumTijd	02-07-2023
TeBewakenStof	
OnveiligeStof	Valproïnezuur
VeiligBinnenOnveiligeGroep	
Toelichting	Gegevens in verwijsbrief van huisarts.
Besluitgrond	
BesluitReden	Stof heeft (mogelijk) een nadelige reactie veroorzaakt.
Beslisser::Zorgverlener	
Naam	R. Verhagen-De Leeuw
Specialisme	Huisarts

BewakingBesluit	
BesluitType	Bewaking gestart
BesluitIngangsDatumTijd	12-09-2023 14:30
TeBewakenStof	
OnveiligeStof	Heparine
VeiligBinnenOnveiligeGroep	
Toelichting	Antistolling na CABG
Reactie	
ReactieNaam	Heparine-geïnduceerde trombocytopenie
Beslisser::Zorgverlener	
Naam	J. Gielissen
Specialisme	Apotheker

BewakingBesluit			
BesluitType	Bewaking gestart	Bewaking gestopt	Bewaking gestart
BesluitIngangsDatumTijd	17-03-2018	02-01-2024	02-01-2024
TeBewakenStof			
OnveiligeStof	Penicillines	Penicillines	Amoxicilline/clavulaanzuur
VeiligBinnenOnveiligeGroep			
Besluitgrond			
BesluitReden	Stof heeft (mogelijk) een nadelige reactie veroorzaakt.	De groep waarop wordt bewaakt, is groter of kleiner dan nodig.	Stof heeft (mogelijk) een nadelige reactie veroorzaakt.
Toelichting		Patiënte werd erg misselijk en had extreme diarree. Wil het middel nooit meer gebruiken.	Ceftriaxon werd goed verdragen, waarschijnlijk reactie gehad op amoxiclav.
Beslisser::Zorgverlener			
Naam	F. Zegers	G.J. Zaal	G.J. Zaal
Specialisme	Huisartsgeneeskunde	SEH-arts	SEH-arts

BewakingBesluit	
BesluitType	Bewaking gestart
BesluitIngangsDatumTijd	05-04-2024
TeBewakenStof	
OnveiligeStof	Cefalosporines
VeiligBinnenOnveiligeGroep 1	Cefalozine
VeiligBinnenOnveiligeGroep 2	Ceftriaxon
VeiligBinnenOnveiligeGroep 3	Ceftazidim
Toelichting	
Besluitgrond	
BesluitReden	Gedeeltelijke kruisovergevoeligheid met Cefalosporines.
Beslisser::Zorgverlener	
Naam	G.L. Den Hartog
Specialisme	Inwendige geneeskunde

1.9 Instructions

Medication surveillance with regard to medication contraindication is based on the Zib Alert with AlertType 'Possible medication contraindication'

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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