Health & Care Information Model:

nl.zorg.SurveillanceDecision-v1.0

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Content

1. nl.zorg.SurveillanceDecision-v1.0

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1.1 Revision History

Publicatieversie 1.0 (15-04-2024)
Bevat: ZIB-1340, ZIB-1440, ZIB-1986.

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

Note on zib SurveillanceDecision
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 via a selection from the StartReasonCodelist

The user can specify the reason for stopping a surveillance decision by selecting from the StopReasonCodelist.

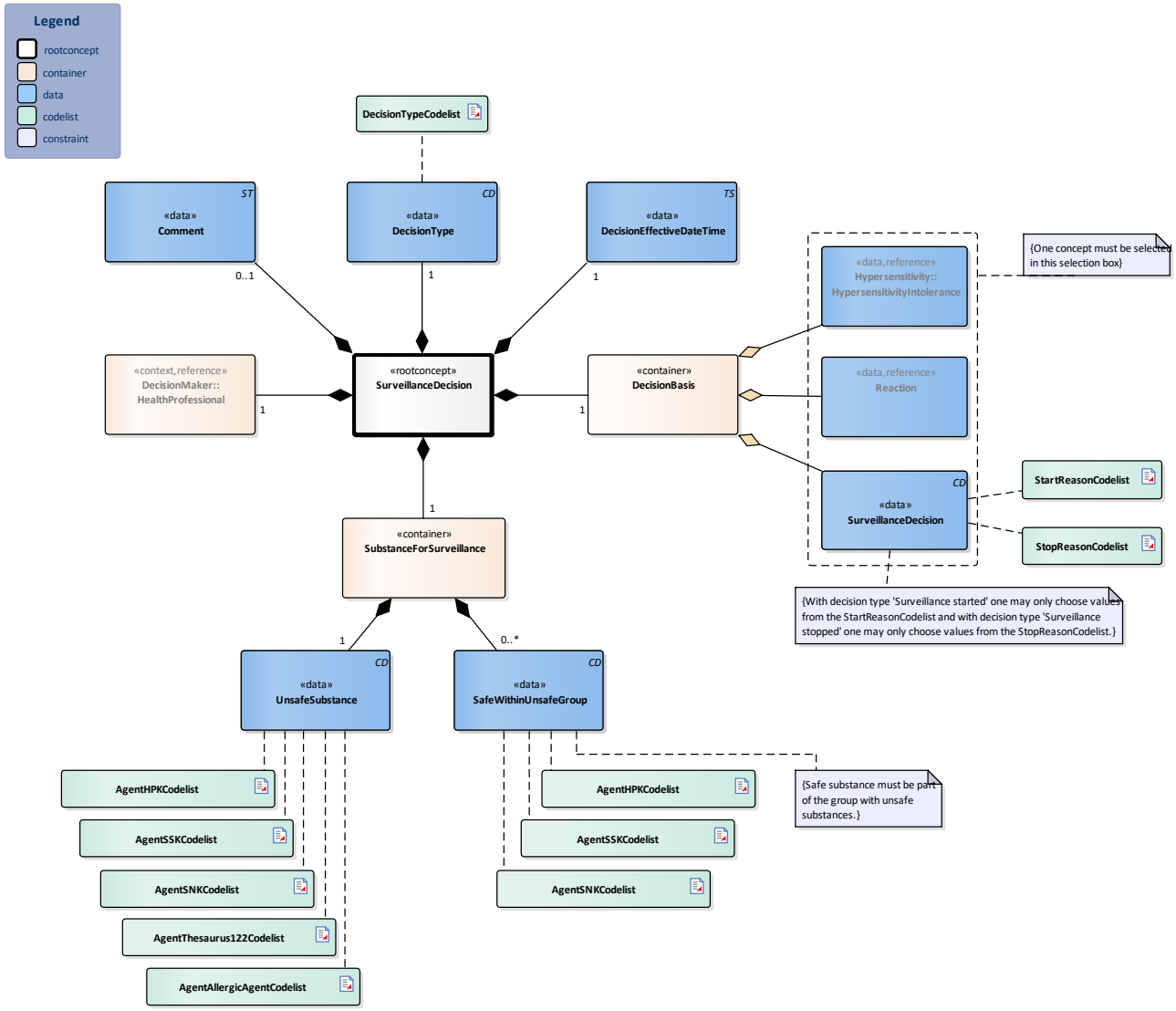
The SafeWithinUnsafeGroup element makes it possible to make exceptions within a (large) group of unsafe substances. Suppose that 78 of a group of substances are unsafe and 2 are safe, then one does not need to record a surveillance decision for each of the 78 unsafe substances. Instead, it will suffice 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 due to side effects based on a pharmacological property of a medicine, 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.

<SPAN style="TEXT-DECORATION: underline">Functionality (informative)
It is desirable that an EHR supports the specification of a surveillance decision as efficiently as possible. If the health professional specifies a reaction or hypersensitivity or intolerance as the reason for a surveillance decision, the EHR can first propose the substance(s) to which that reaction or hypersensitivity or intolerance is related. The user then only needs to change the proposed substance(s) if he wishes.
The EHR must be able to show the user an overview of surveillance decisions that are active and offer the option to select a surveillance decision from this overview and then change or terminate it.
In general, a user will modify a surveillance decision if the reason for the surveillance decision remains the same, but he/she wants to adjust the specification of the substance(s) and/or the comment. The EHR then presents the selected surveillance decision with the data in the fields that the user can subsequently adjust. Changing a surveillance decision essentially means that the selected surveillance decision is terminated and replaced by the surveillance decision with the modified field values.
It is important that the EHR keeps track of the history of each surveillance decision, so that it is clear how the decisions follow each other.

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»	SurveillanceDecision	
Definitie	Reason for the surveillance decision: to start or end the surveillance.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.5.7	
DCM::DefinitionCode	SNOMED CT: 330431000146105 reden voor bewakingsbesluit	
DCM::ValueSet	StopReasonCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.3
DCM::ValueSet	StartReasonCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.2
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	AgentThesaurus122Codelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.11
DCM::ValueSet	AgentHPKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.6
DCM::ValueSet	AgentAllergicAgentCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.4
DCM::ValueSet	AgentSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.8
DCM::ValueSet	AgentSSKCodelist	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	AgentSNKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.7
DCM::ValueSet	AgentSSKCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.10
DCM::ValueSet	AgentHPKCodelist	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	
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»	StartReasonCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.2	
HCIM::ValueSetLanguage	--	
Opties		

StartRedenCodelijst			**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.2**	
Concept Name	**Concept Code**	**Coding Syst. Name**	**Coding System OID**	**Description**
Nadelige reactie (mogelijk) veroorzaakt door de stof(fen).	NTB	SNOMED CT	2.16.840.1.113883.6.96	Nadelige reactie (mogelijk) veroorzaakt door de stof(fen).
Vermoeden van kruisovergevoeligheid.	NTB	SNOMED CT	2.16.840.1.113883.6.96	Vermoeden van kruisovergevoeligheid.
Patiënt vreest nadelige reactie.	NTB	SNOMED CT	2.16.840.1.113883.6.96	Patiënt vreest nadelige reactie.
Bezwaar van patiënt tegen stof vanwege persoonlijke overwegingen.	NTB	SNOMED CT	2.16.840.1.113883.6.96	Bezwaar van patiënt tegen stof vanwege persoonlijke overwegingen.
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	StopReasonCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Extensible	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.3	
HCIM::ValueSetLanguage	--	

Opties	

StopRedenCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.5.3	
Concept Name	**Concept Code**	**Coding Syst. Name**	**Coding System OID**	**Description**
Risico op toekomstige ernstige reactie zeer laag.	NTB	SNOMED CT	2.16.840.1.113883.6.96	Risico op toekomstige ernstige reactie zeer laag.
Geen reactie na hernieuwd gebruik.	NTB	SNOMED CT	2.16.840.1.113883.6.96	Geen reactie na hernieuwd gebruik.
Op basis van aanvullend onderzoek.	NTB	SNOMED CT	2.16.840.1.113883.6.96	Op basis van aanvullend onderzoek.
Bijwerking acceptabel.	NTB	SNOMED CT	2.16.840.1.113883.6.96	Bijwerking acceptabel.
Inzicht m.b.t. reikwijdte van te bewaken stof(fen) is gewijzigd.	NTB	SNOMED CT	2.16.840.1.113883.6.96	De groep waarop wordt bewaakt is breder of smaller dan nodig.
Geen reden voor bewaking gevonden.	NTB	SNOMED CT	2.16.840.1.113883.6.96	Geen reden voor bewaking gevonden.
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	AgentAllergicAgentCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.4		
HCIM::ValueSetLanguage	--		
Opties			

StofAllergeneStoffenCodelijst		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»	AgentHPKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.5		
HCIM::ValueSetLanguage	--		
Opties			

StofHPKCodelijst		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 Product Kode (HPK)	2.16.840.1.113883.2.4.4.7

«document»	AgentHPKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		

DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.6		
HCIM::ValueSetLanguage	--		
Opties			

StofHPKCodelijst		**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»	AgentSNKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.7		
HCIM::ValueSetLanguage	--		
Opties			

StofSNKCodelijst		**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»	AgentSNKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.8		
HCIM::ValueSetLanguage	--		
Opties			

StofSNKCodelijst		**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»	AgentSSKCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.9		
HCIM::ValueSetLanguage	--		
Opties			

StofSSKCodelijst		**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»	AgentSSKCodelist

Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.10		
HCIM::ValueSetLanguage	--		
Opties			

StofSSKCodelijst		**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»	AgentThesaurus122Codelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.5.11		
HCIM::ValueSetLanguage	--		
Opties			

StofThesaurus122Codelijst		**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	With decision type 'Surveillance started' one may only choose values from the StartReasonCodelist and with decision type 'Surveillance stopped' one may only choose values from the StopReasonCodelist.
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

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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