

Health & Care Information Model:

nl.zorg.Alert-v4.2

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1. nl.zorg.Alert-v4.2

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DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
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1.1 Revision History

Publicatieversie 1.0 (01-04-2015)

Bevat: ZIB-109, ZIB-132, ZIB-203, ZIB-204, ZIB-306, ZIB-308, ZIB-352.

Incl. algemene wijzigingsverzoeken:

ZIB-94, ZIB-154, ZIB-200, ZIB-201, ZIB-309, ZIB-324, ZIB-326.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-438, ZIB-453, ZIB-574.

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-546.

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Bevat: ZIB-593.

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Bevat: ZIB-682.

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Bevat: ZIB-813.

Publicatieversie 4.0 (31-01-2020)

Bevat: ZIB-905, ZIB-526.

Publicatieversie 4.1 (01-09-2020)

Bevat: ZIB-1160, ZIB-1209.

1.2 Concept

An alert describes a clinical or administrative fact brought to the attention of the users of the clinical systems to be taken into account when shaping diagnostic and therapeutic policy or in dealing with the patient, usually because of a safety risk.

Disorders that describe the body's sensitivity to a substance which results in a specific physiological reaction after being exposed to that substance are referred to as allergies. These are described in a separate information model.

Warnings for non-allergic disorders can concern:

- A disorder, condition or diagnosis which can be considered as a contraindication for undergoing a certain type of therapy, such as pregnancy or long QT syndrome;
- Impaired functioning of an organ system (heart failure, impaired liver or kidney function, weakened immune system);
- Risk of spreading certain microorganisms (multi-resistant bacteria, tubercle bacilli, HIV, HBV, Ebola virus);
- Other risks

1.3 Mindmap

1.4 Purpose

Documenting and entering disorders or conditions that require attention is an important part of medical registration. It concerns the core of patient safety. In the execution of research and treatment, these patient characteristics - which are marked as a warning - constantly have to be taken into account. They provide information that is important for the patient's condition and the options a healthcare provider has for therapy. Disorders that are registered or transferred as an Alert can also be described as a Problem. The difference is in the fact that the healthcare provider considers the problem as an Alert = warning. In many cases, transfer will be subject to strict privacy rules, as the warning will not always elicit an adequate reaction in the informed environment.

1.5 Patient Population

1.6 Evidence Base

Note on zib Alert

The zib Alert covers a wide range of patient characteristics based on which the health professional wants to receive unconditional or conditional warnings. This concerns warnings regarding certain infections that require specific (isolation) measures, situations that may be a contraindication for certain treatments or examinations (such as a pacemaker for MRI examinations) or characteristics that may be a contraindication for certain medicines. This latter category 'possible contraindication for medicine' can concern a disorder or condition, but also behavior (such as being a top athlete) or desire to have children. This category can be selected via the AlertType element and has Thesaurus 40 of the G standard as its value list, because the decision rules used by the drug surveillance software are based on this standard.

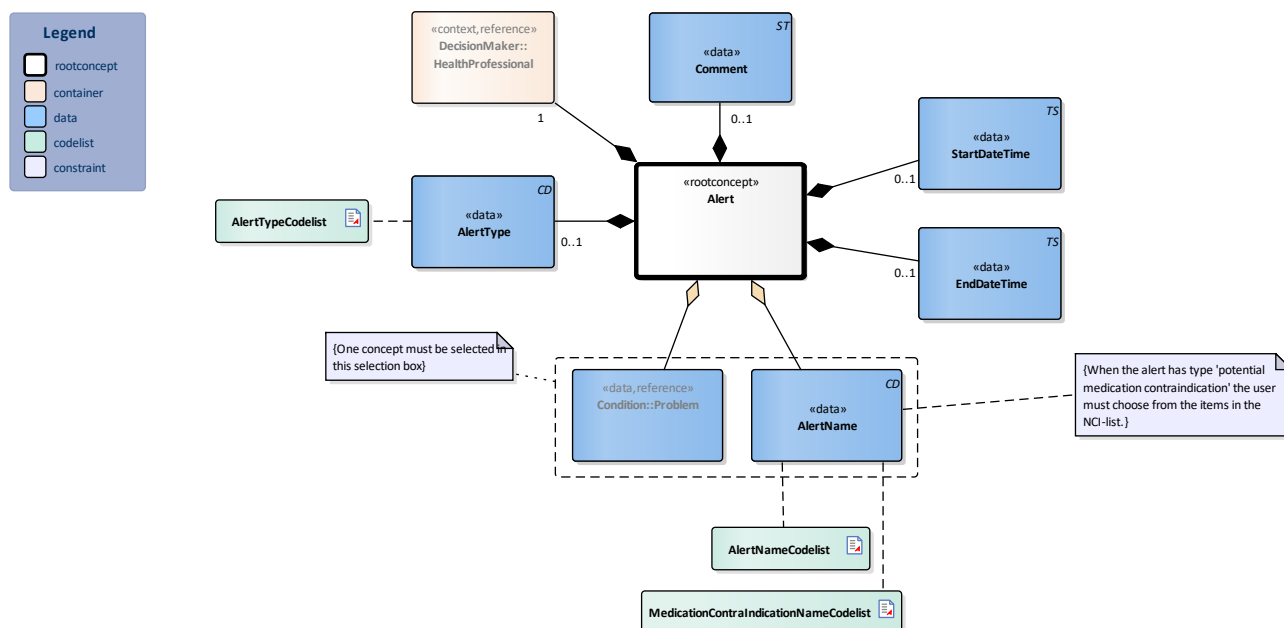
For medication surveillance based on an alert of the type 'possible medication contraindication', the software uses medicine information that is not patient-specific, but is based on pharmacological characteristics. A warning will only be issued if the patient's characteristic is a contraindication to the medicine being prescribed.

In case of medication surveillance based on a surveillance decision, surveillance does not take place on the basis of pharmacological meta-knowledge regarding a medicine, but rather on the basis of specific substance(s) to which one patient reacts adversely and another patient does not.

Functionality (informative)

The intention is that medication surveillance software will consult the Alerts of the 'possible contraindication to medicine' type to determine whether a warning is necessary when prescribing a medicine.

1.7 Information Model



«rootconcept»	Alert	
Definitie	Root concept of the Alert information model. This root concept contains all data elements of the Alert information model.	
Datatype		
DCM::ConceptId	NL-CM:8.3.1	
DCM::DefinitionCode	SNOMED CT: 394155005	Alert note
Opties		

«data»	AlertType	
Definitie	Indicates the type of alert, meaning a rough description of the cause or origin of the warning.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.3.6	
DCM::ExampleValue	Conditie	
DCM::ValueSet	AlertTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.1
Opties		

«context»	DecisionMaker::HealthProfessional	
Definitie	The health professional who is responsible for setting the alert.	
Datatype		
DCM::ConceptId	NL-CM:8.3.9	
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»	StartDateTime	
Definitie	The date and time at which the described condition was entered as a warning. This can be an exact date and time, or a rough indication of the date (such as only the year, or the month and the year).	
Datatype	TS	
DCM::ConceptId	NL-CM:8.3.5	
DCM::ExampleValue	09-10-2011	
Opties		

«data»	EndDateTime	
Definitie	The date and time at which the described condition was retracted as a warning. This can be an exact date and time, or a rough indication of the date (such as only the year, or the month and the year).	
Datatype	TS	
DCM::ConceptId	NL-CM:8.3.8	
DCM::ExampleValue	07-01-2020	
Opties		

«data»	AlertName	
Definitie	A warning, other than a condition or problem. For example, a patient can be given an 'Aggressive patient' alert. The warning can be entered in code (there are codes for frequently used alerts), but seeing the dynamic nature of the warnings cf. SARS and Ebola, these alerts will often be entered as free text.	
Datatype	CD	
DCM::ConceptId	NL-CM:8.3.4	
DCM::ValueSet	MedicationContraIndication NameCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.3
DCM::ValueSet	AlertNameCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.2
Opties		

«data»	Condition::Problem	
Definitie	The patient's health problem or condition that is the subject of the alert. This could involve a patient's problem, condition or diagnosis that is seen as a contraindication in prescribing medication or which has to be taken into account when shaping diagnostic and therapeutic policy. This can be in the patient's own interest, or it can involve a problem or disorder that can make the patient a risk to their surroundings, such as an infection hazard. These are references to conditions included on the patient's problem list.	
Datatype		
DCM::ConceptId	NL-CM:8.3.10	
DCM::ReferencedConceptId	NL-CM:5.1.1	This is a reference to the rootconcept of information model Problem.
Opties		

«data»	Comment	
Definitie	Explanatory comments to the alert that can not be expressed in any of the other elements.	
Datatype	ST	
DCM::ConceptId	NL-CM:8.3.7	

DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«document»	MedicationContraIndicationNameCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.3.3	
HCIM::ValueSetLanguage	--	
Opties		
MedicatieContraIndicatieNaamCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.3
Codes	Coding Syst. Name	Coding System OID
Alle waarden	G-standaard Contra Indicaties (Thesaurus 40)	2.16.840.1.113883.2.4.4.1.902.40

«document»	AlertNameCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.8.3.2			
HCIM::ValueSetLanguage	--			
Opties				
AlertNaamCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.2		
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Infectious disease carrier	66598005	SNOMED CT	2.16.840.1.113883.6.96	Drager van besmettelijke ziekte
Extended spectrum beta-lactamase producing bacteria carrier	762988003	SNOMED CT	2.16.840.1.113883.6.96	Drager van ESBL-producerende bacterie
Carbapenemase producing Enterobacteriaceae carrier	715881003	SNOMED CT	2.16.840.1.113883.6.96	Drager Enterobacteriaceae – CPE
Carrier of multidrug resistant micro organism	NTB	SNOMED CT	2.16.840.1.113883.6.96	Drager van BRMO – Algemeen
Carrier of carbapenem susceptible Enterobacteriaceae	9796100014 6102	SNOMED CT	2.16.840.1.113883.6.96	Drager Enterobacteriaceae – BRMO excl. CPE
Carrier of multidrug resistant Stenotrophomonas maltophilia	9798100014 6105	SNOMED CT	2.16.840.1.113883.6.96	Drager Stenotrophomonas maltophilia – BRMO
Carrier of multidrug resistant Acinetobacter	9797100014 6108	SNOMED CT	2.16.840.1.113883.6.96	Drager Acinetobacter spp – BRMO
Carrier of multidrug resistant Pseudomonas aeruginosa	9800100014 6104	SNOMED CT	2.16.840.1.113883.6.96	Drager Pseudomonas aeruginosa – BRMO

Carrier of vancomycin resistant enterococcus	431109006	SNOMED CT	2.16.840.1.113883.6.96	Drager Enterococcus faecium – VRE
Carrier of multidrug resistant Streptococcus pneumoniae	97991000146107	SNOMED CT	2.16.840.1.113883.6.96	Drager Streptococcus pneumoniae – PRP
Methicillin resistant staphylococcus aureus carrier	432415000	SNOMED CT	2.16.840.1.113883.6.96	Drager MRSA
Human immunodeficiency virus (HIV) carrier	699433000	SNOMED CT	2.16.840.1.113883.6.96	Drager HIV
Victim of elder abuse	706872008	SNOMED CT	2.16.840.1.113883.6.96	Slachtoffer van ouderenmishandeling
Victim of child abuse	397940009	SNOMED CT	2.16.840.1.113883.6.96	Kindermishandeling
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»		AlertTypeCodelist		
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.3.1			
HCIM::ValueSetLanguage	--			
Opties				
AlertTypeCodelist			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.1	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
condition	75323-6	LOINC	2.16.840.1.113883.6.1	conditie
Potential contraindication for medication	350241000146102	SNOMED CT	2.16.840.1.113883.6.96	mogelijke contra-indicatie voor geneesmiddel
alert	74018-3	LOINC	2.16.840.1.113883.6.1	waarschuwing

Legend	
Definitie	
Datatype	
Opties	

Constraint	
Definitie	When the alert has type 'potential medication contraindication' the user must choose from the items in the NCI-list.
Datatype	
Opties	

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

1.8 Example Instances

AlertType	BegindatumTijd	EinddatumTijd	Conditie
Conditie	15-9-2012	30-12-2012	Zwanger
AlertType	BegindatumTijd	EinddatumTijd	Alertnaam
Waarschuwing	01-06-2010	---	Drager MRSA

1.9 Instructions

If there is a contraindication which is also important for medication safety, it should also be registered via the g-standard (Thesaurus 40). See further HCIM MedicationContraIndication.

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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