

# Health & Care Information Model:

nl.zorg.Alert-v4.1

Status: Final

Release: 2021

Release status: Prepublished

Managed by:



# Content

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# 1. nl.zorg.Alert-v4.1

DCM::CoderList	Kerngroep Registratie aan de Bron
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::CreationDate	15-12-2014
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.8.3
DCM::KeywordList	alerts, alert, waarschuwing
DCM::LifecycleStatus	Final
DCM::ModelerList	Kerngroep Registratie aan de Bron
DCM::Name	nl.zorg.Alert
DCM::PublicationDate	01-12-2021
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	29-07-2020
DCM::Supersedes	nl.zorg.Alert-v4.0
DCM::Version	4.1
HCIM::PublicationLanguage	EN

## 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.

Publicatieversie 3.2 (31-12-2017)

Bevat: ZIB-593.

Publicatieversie 3.3 (26-02-2019)

Bevat: ZIB-682.

Publicatieversie 3.4 (06-07-2019)

Bevat: ZIB-813.

Publicatieversie 4.0 (31-01-2020)

Bevat: ZIB-905, ZIB-526.

Publicatieversie 4.1 (01-09-2020)

## 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

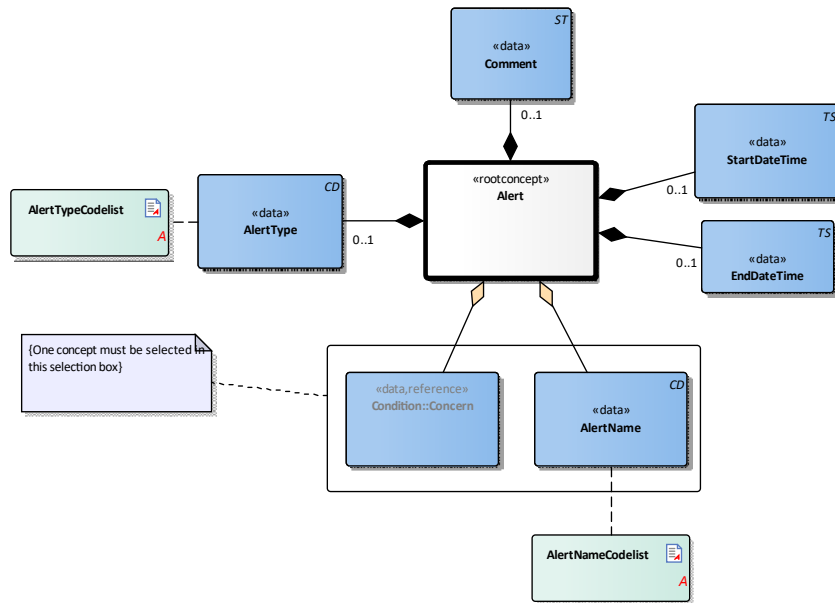
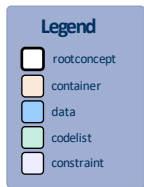
## 1.4 Purpose

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

## 1.7 Information Model



«rootconcept»	Alert
<b>Definitie</b>	Root concept of the Alert information model. This root concept contains all data elements of the Alert information model.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:8.3.1
<b>Opties</b>	

«data»	EndDateTime
<b>Definitie</b>	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).
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:8.3.8
<b>DCM::ExampleValue</b>	07-01-2020
<b>Opties</b>	

«data»	Condition::Concern
<b>Definitie</b>	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.
<b>Datatype</b>	
<b>DCM::ConceptId</b>	NL-CM:8.3.3
<b>DCM::ExampleValue</b>	VERMINDERDE NIERFUNCTIE
<b>DCM::ReferencedConceptId</b>	NL-CM:5.1.1 This is a reference to the rootconcept of information model Problem.
<b>Opties</b>	

«data»	AlertName
<b>Definitie</b>	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.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:8.3.4	
<b>DCM::ValueSet</b>	AlertNameCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.2
<b>Opties</b>		

«data»		StartDateTime
<b>Definitie</b>	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).	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:8.3.5	
<b>DCM::ExampleValue</b>	09-10-2011	
<b>Opties</b>		

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

«data»		Comment
<b>Definitie</b>	Explanatory comments to the alert that can not be expressed in any of the other elements.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:8.3.7	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>Opties</b>		

«document»		AlertNameCodelist
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Extensible	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.8.3.2	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		

AlertNaamCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.2	
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
Infectious disease carrier	66598005	SNOMED CT	2.16.840.1.113883.6.96	Drager van besmettelijke ziekte
Carbapenemase	715881003	SNOMED CT	2.16.840.1.113883.6.96	Drager

producing Enterobacteriaceae carrier				Enterobacteriaceae – CPE
Carrier of carbapenem susceptible Enterobacteriaceae	97961000146102	SNOMED CT	2.16.840.1.113883.6.96	Drager Enterobacteriaceae – BRMO excl. CPE
Carrier of multidrug resistant Stenotrophomonas maltophilia	97981000146105	SNOMED CT	2.16.840.1.113883.6.96	Drager Stenotrophomonas maltophilia – BRMO
Carrier of multidrug resistant Acinetobacter	97971000146108	SNOMED CT	2.16.840.1.113883.6.96	Drager Acinetobacter spp – BRMO
Carrier of multidrug resistant Pseudomonas aeruginosa	98001000146104	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 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	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetBinding</b>	Required	
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.8.3.1	
<b>HCIM::ValueSetLanguage</b>	--	
<b>Opties</b>		

AlertTypeCodelijst			OID: 2.16.840.1.113883.2.4.3.11.60.40.2.8.3.1	
Concept Name	Concept Code	Coding System Name	Coding System OID	Description
condition	75323-6	LOINC	2.16.840.1.113883.6.1	conditie
alert	74018-3	LOINC	2.16.840.1.113883.6.1	waarschuwing

	Constraint
<b>Definitie</b>	One concept must be selected in this selection box
<b>Datatype</b>	
<b>Opties</b>	

	Legend
<b>Definitie</b>	
<b>Datatype</b>	

## 1.8 Example Instances

AlertType	BegindatumTijd	EinddatumTijd	Conditie
			Probleemnaam
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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