Health & Care Information Model:

nl.zorg.Alert-v5.0

Status: Final
Release: 2026-1
Release status: Prepublished

Managed by:

Nictiz

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Content

1. nl.zorg.Alert-v5.0

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	17-04-2026
DCM::PublicationStatus	Prepublished
DCM::ReviewerList	Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	07-04-2025
DCM::Supersedes	nl.zorg.Alert-v4.2
DCM::Version	5.0
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)

Bevat: ZIB-1160, ZIB-1209.

Publicatieversie 4.2 (15-04-2024)
Bevat: ZIB-1440, ZIB-1769, 1814.

Publicatieversie 5.0 (24-04-2024)
Bevat: ZIB-2632, ZIB-2679, ZIB-2735.

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.
This zib is not intended to specify hypersensitivities or intolerances for a specific substance or group of substances. Monitoring for this can be represented on the basis of the zib SurveillanceDecision.
Examples of warnings:

- 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

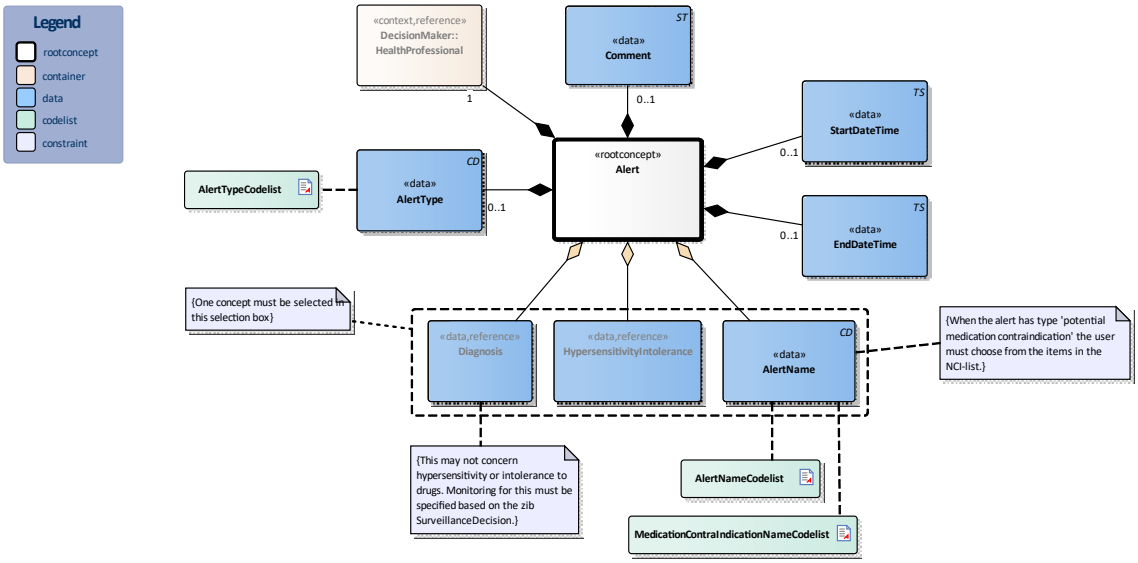
Documenting and entering disorders or conditions that require attention is an important part of medical registration. It concerns the core of patient safety. In the execution of research and treatment, these patient characteristics - which are marked as a warning - constantly have to be taken into account. They provide information that is important for the patient's condition and the options a healthcare provider has for therapy. Patient characteristics that are registered or transferred as an Alert can also be described as a Diagnosis or HypersensitivityIntolerance. The difference is in the fact that the healthcare provider considers the diagnoses, hypersensitivity or intolerance 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.
Medication monitoring based on potential medication contraindications is based on non-patient-specific pharmacological characteristics of medicines. The zib Alert is not intended for medication monitoring based on specific substances to which one patient may react adversely while another does not. For this form of medication monitoring, the zib SurveillanceDecision is intended.

1.5 Patient Population

1.6 Evidence Base

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.
The MedicationContraindicationNameCodelist contains values from the G-standard Contraindications (Thesaurus 40), for medication surveillance.

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: 37341000000109 Alert note	
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»	Diagnosis
Definitie	A warning about a particular diagnosis, because it may pose a risk to the patient with certain treatments. For example, 'Pacemaker' can be included

	as an alert.	
Datatype		
DCM::ConceptId	NL-CM:8.3.10	
DCM::ReferencedConceptId	NL-CM:5.6.1	This is a reference to the rootconcept of information model Diagnosis.
Opties		

«data»	HypersensitivityIntolerance	
Definitie	A warning for a specific hypersensitivity or intolerance, because this can pose a risk to the patient with certain treatments. For example, an alert can be given such as 'Hypersensitivity to UV light'.	
Datatype		
DCM::ConceptId	NL-CM:8.3.11	
DCM::ReferencedConceptId	NL-CM:8.6.1	This is a reference to the rootconcept of information model HypersensitivityIntolerance.
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	MedicationContraIndicationNameCodelist	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»	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»	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	2.16.840.1.113883.2.4.3.11.60.40.2.8.3.3	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
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	2.16.840.1.113883.2.4.3.11.60.40.2.8.3.2	
DCM::ValueSetIncludeOTH	True	
DCM::ValueSetStatus	Active	
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
Multidrug-resistant bacteria carrier	430381000146105	SNOMED CT	2.16.840.1.113883.6.96	Drager van BRMO – Algemeen
Carrier of carbapenem susceptible Enterobacteriaceae	979610001466102	SNOMED CT	2.16.840.1.113883.6.96	Drager Enterobacteriaceae – BRMO excl. CPE
Carrier of multidrug resistant	979810001466105	SNOMED CT	2.16.840.1.113883.6.96	Drager Stenotrophomonas

Stenotrophomonas maltophilia				maltophilia – BRMO
Carrier of multidrug resistant Acinetobacter	979710001461 08	SNOMED CT	2.16.840.1.113883.6.96	Drager Acinetobacter spp – BRMO
Carrier of multidrug resistant Pseudomonas aeruginosa	980010001461 04	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	979910001461 07	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

«document»	AlertTypeCodelist	
Definitie		
Datatype		
DCM::ValueSetBinding	Required	
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.8.3.1	
DCM::ValueSetIncludeOTH	False	
DCM::ValueSetStatus	Active	
HCIM::ValueSetLanguage	--	
Opties		

AlertTypeCodelijst			**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	This may not concern hypersensitivity or intolerance to drugs. Monitoring for this must be specified based on the zib SurveillanceDecision.
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

Alert	
AlertNaam	Zwangerschap
AlertType	Conditie
BeginDatumTijd	15-11-2022
EindDatumTijd	10-08-2023
RedenBeëindigingAlert	Einde zwangerschap
Vaststeller::Zorgverlener	
Naam	R. van der Laan - Bakker
Specialisme	Verloskundige

Alert	
AlertNaam	Drager MRSA
AlertType	Waarschuwing
BeginDatumTijd	12-01-2024
Vaststeller::Zorgverlener	
Naam	G. de Zeeuw
Specialisme	Microbioloog

Alert	
AlertNaam	Topsportbeoefening
AlertType	Mogelijke medicatie contra-indicatie
BeginDatumTijd	18-10-2020
Vaststeller::Zorgverlener	
Naam	L. Peeters
Specialisme	Sportgeneeskunde

1.9 Instructions

The Alerts of the type “possible contraindication for medication” are intended to be used (alongside

SurveillanceDecision), to determine whether a warning is necessary.

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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