

Health & Care Information Model:

nl.zorg.Symptom-v1.0

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1. nl.zorg.Symptom-v1.0

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1.1 Revision History

Publicatieversie 1.0 (15-04-2024)

Bevat: ZIB-1934.

1.2 Concept

A phenomenon with which a condition in the patient presents itself. This also includes a complaint or a finding, but not additional research, such as laboratory tests, function tests and imaging studies.

1.3 Mindmap

1.4 Purpose

Symptoms are an important basis for interpreting the condition (making the diagnosis) and for assessing the severity of the condition and the need for further examination or treatment. Symptoms and their course are also essential for evaluating the effectiveness of treatment.

1.5 Patient Population

1.6 Evidence Base

Note on zib Symptom A symptom refers to a phenomenon in a broad sense (including complaint and finding) with which a condition presents itself, but limited to symptoms that the patient notices himself or that a health professional can observe, if necessary with simple instruments.

Multiple symptoms may refer to the same condition, as a disorder or condition may present with > 1 symptom.

If a symptom changes, a new instance of zib Symptom with the same Symptom Name and a more recent SymptomStatusDate indicates how the symptom presented itself at that more recent date(time). A series of instances of Symptom with the same SymptomName then represents the course of the symptom by means of an increasing value for SymptomStatusDate.

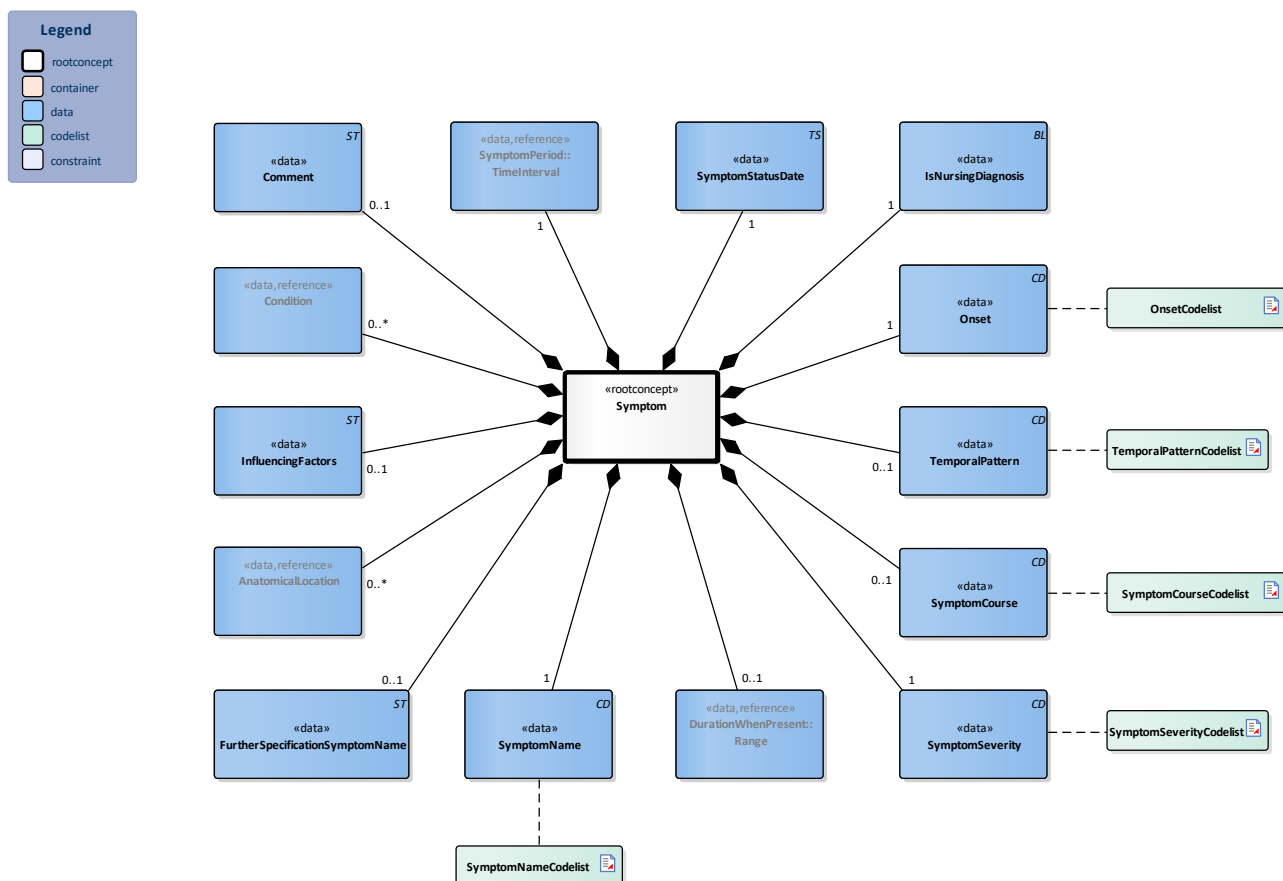
The cardinality of the reference to Condition is 0..1, because a denial of a symptom does not necessarily involve a condition or state to which that denial refers. To represent that a patient does not have a fever, one should use the zib Exclusion with a reference to Symptom. If the denial of fever stands alone, the instance of Symptom does not refer to a Condition. If the denial of fever explicitly refers to a certain condition, then the instance of Symptom does have a reference to the relevant Condition.

Example: in case a patient has a condition diagnosed with diverticulitis, the health professional may want to explicitly record that there is no fever, because fever is an indication for admission. In that case, the excluded symptom 'fever' will refer to the same condition as to which the diagnostic insight 'diverticulitis' refers.

Functionality (informative) It may happen that a health professional cannot yet make a (differential) diagnosis for a patient and can only indicate ≥ 1 important symptoms that he/she thinks belong together and can probably be explained by one condition. In this case, the EHR must create a new Condition and have the new instance(s) of Symptom refer to it. The EHR must also support that the health professional records ≥ 1 symptoms for a condition with an associated (differential) diagnosis. These symptoms then refer to the same condition.

When modifying an existing symptom, the EHR must have the new Symptom instance refer to the same Condition as the previous Symptom instance with the same SymptomName.

1.7 Information Model



«rootconcept»	Symptom
Definitie	This is a reference to the rootconcept of information model Symptom.
Datatype	
DCM::ConceptId	NL-CM:5.5.1

DCM::DefinitionCode	SNOMED CT: 162408000 algemene symptoombeschrijving	
Opties		

«data»	SymptomPeriod::TimeInterval	
Definitie	The period in which the symptom is (was) present.	
Datatype		
DCM::ConceptId	NL-CM:5.5.16	
DCM::DefinitionCode	SNOMED CT: 408731000 periode	
DCM::ReferencedConceptId	NL-CM:20.3.1	This is a reference to the rootconcept of information model TimeInterval.
Opties		

«data»	SymptomStatusDate	
Definitie	Date from which the specification of the symptom applies.	
Datatype	TS	
DCM::ConceptId	NL-CM:5.5.3	
DCM::DefinitionCode	SNOMED CT: 162499001 symptoom is veranderd	
Opties		

«data»	IsNursingDiagnosis	
Definitie	Indicates whether the symptom serves as a nursing diagnosis.	
Datatype	BL	
DCM::ConceptId	NL-CM:5.5.17	
DCM::DefinitionCode	SNOMED CT: 86644006 verpleegkundige diagnose	
Opties		

«data»	Onset	
Definitie	Indication how fast the symptom presented at first.	
Datatype	CD	
DCM::ConceptId	NL-CM:5.5.5	
DCM::ValueSet	OnsetCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.2
Opties		

«data»	TemporalPattern	
Definitie	The temporal pattern with which the symptom presents itself, such as continuous or intermittent.	
Datatype	CD	
DCM::ConceptId	NL-CM:5.5.6	
DCM::DefinitionCode	SNOMED CT: 288524001 beloop	
DCM::ValueSet	TemporalPatternCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.3
Opties		

«data»	SymptomCourse	
Definitie	The course of the intensity of the symptom over time, such as increased, unchanged.	
Datatype	CD	
DCM::ConceptId	NL-CM:5.5.7	

DCM::ValueSet	SymptomCourseCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.4
Opties		

«data»	SymptomSeverity	
Definitie	Indicates the degree of severity of the symptom at the moment of the SymptomStatusDate.	
Datatype	CD	
DCM::ConceptId	NL-CM:5.5.8	
DCM::DefinitionCode	SNOMED CT: 246112005 Ernst	
DCM::ValueSet	SymptomSeverityCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.5
Opties		

«data»	DurationWhenPresent::Range	
Definitie	Duration of an intermittent or paroxysmal symptom while it presents.	
Datatype		
DCM::ConceptId	NL-CM:5.5.9	
DCM::DefinitionCode	SNOMED CT: 162442009 duur van symptoom	
DCM::ReferencedConceptId	NL-CM:20.1.1	This is a reference to the rootconcept of information model Range.
Opties		

«data»	SymptomName	
Definitie	Name and code of the symptom via selection from a code list, based on a standardised coding system.	
Datatype	CD	
DCM::ConceptId	NL-CM:5.5.10	
DCM::ValueSet	SymptomNameCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.8
Opties		

«data»	FurtherSpecificationSymptomName	
Definitie	More detailed specification of the symptomName that has been selected from the code list, because that list does not (yet) contain the required level of detail.	
Datatype	ST	
DCM::ConceptId	NL-CM:5.5.11	
Opties		

«data»	AnatomicalLocation	
Definitie	The location(s) on or in the body where the symptom presents itself.	
Datatype		
DCM::ConceptId	NL-CM:5.5.12	
DCM::DefinitionCode	SNOMED CT: 363698007 locatie van bevinding	
DCM::ReferencedConceptId	NL-CM:20.7.1	This is a reference to the rootconcept of information model AnatomicalLocation.
Opties		

«data»	InfluencingFactors	
Definitie	Actions, events or circumstances that influence the presentation of the symptom. Generally, this pertains to factors that aggravate or alleviate the	

	symptom.	
Datatype	ST	
DCM::ConceptId	NL-CM:5.5.13	
Opties		

«data»	Condition	
Definitie	The condition of which the symptom is a manifestation.	
Datatype		
DCM::ConceptId	NL-CM:5.5.14	
DCM::DefinitionCode	SNOMED CT: 64572001 aandoening	
DCM::ReferencedConceptId	NL-CM:5.4.1	This is a reference to the rootconcept of information model Condition.
Opties		

«data»	Comment	
Definitie	A comment in free text with respect to the symptom, that is not represented by the other data elements in the information model.	
Datatype	ST	
DCM::ConceptId	NL-CM:5.5.15	
Opties		

«document»	SymptomNameCodelist		
Definitie			
Datatype			
DCM::ValueSetBinding	Required		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.5.5.8		
HCIM::ValueSetLanguage	--		
Opties			
SymptoomNaamCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.8	
Codes	Coding Syst. Name	Coding System OID	
SNOMED CT: <404684003 Clinical finding MINUS (<<64572001 aandoening)	SNOMED CT	2.16.840.1.113883.6.96	

«document»	OnsetCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.5.5.2			
HCIM::ValueSetLanguage	--			
Opties				
OntstaanswijzeCodelijst		OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.2		
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Gradual onset	61751001	SNOMED CT	2.16.840.1.113883.6.96	Geleidelijk ontstaan
Subacute onset	373935005	SNOMED CT	2.16.840.1.113883.6.96	Subacuut ontstaan
Sudden onset	385315009	SNOMED CT	2.16.840.1.113883.6.96	Acuut ontstaan

«document»	TemporalPatternCodelist			
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Definitie				
Datatype				
DCM::ValueSetBinding	Extensible			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.5.5.3			
HCIM::ValueSetLanguage	--			
Opties				
TijdPatroonCodelijst				
OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.3				
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Continual	263730007	SNOMED CT	2.16.840.1.113883.6.96	Continu
Intermittent	7087005	SNOMED CT	2.16.840.1.113883.6.96	Intermitterend
Paroxysmal	26593000	SNOMED CT	2.16.840.1.113883.6.96	Aanvalsgewijs
Cyclic	44180009	SNOMED CT	2.16.840.1.113883.6.96	Cyclisch
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	SymptomCourseCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.5.5.4			
HCIM::ValueSetLanguage	--			
Opties				
SymptoomBeloopCodelijst				
OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.4				
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
No status change	260388006	SNOMED CT	2.16.840.1.113883.6.96	Onveranderd
Worse	231877006	SNOMED CT	2.16.840.1.113883.6.96	Verslechterd
Improved	385425000	SNOMED CT	2.16.840.1.113883.6.96	Verbeterd
Fluctuating	255341006	SNOMED CT	2.16.840.1.113883.6.96	Fluctuerend
No longer present	3503610001 46109	SNOMED CT	2.16.840.1.113883.6.96	Niet meer aanwezig
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	SymptomSeverityCodelist			
Definitie				
Datatype				
DCM::ValueSetBinding	Required			
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.6 0.40.2.5.5.5			
HCIM::ValueSetLanguage	--			
Opties				
SymptoomErnstCodelijst				
OID: 2.16.840.1.113883.2.4.3.11.60.40.2.5.5.5				
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Mild	255604002	SNOMED CT	2.16.840.1.113883.6.96	Mild
Mild to moderate	371923003	SNOMED CT	2.16.840.1.113883.6.96	Mild tot matig
Moderate	6736007	SNOMED CT	2.16.840.1.113883.6.96	Matig
Moderate to severe	371924009	SNOMED CT	2.16.840.1.113883.6.96	Matig tot ernstig

Severe	24484000	SNOMED CT	2.16.840.1.113883.6.96	Ernstig
Life threatening severity	442452003	SNOMED CT	2.16.840.1.113883.6.96	Levensbedreigend

Legend	
Definitie	
Datatype	
Opties	

1.8 Example Instances

Symptoom			
SymptoomPeriode			
StartDatumTijd	22-02-2023	22-02-2023	22-02-2023
EindDatumTijd			
TijdsDuur			
SymptoomStatusDatum	01-03-2023	05-03-2023	20-03-2023
SymptoomType	Symptoom	Symptoom	Symptoom
SymptoomNaam	Hoest	Hoest	Hoest
NadereSpecificatieSymptoomNaam	Droge hoest	Productieve hoest	Productieve hoest
Ontstaanswijze	Subacuut		
TijdsPatroon	Aanvalsgewijs	Aanvalsgewijs	
Beloop		Verslechterd	Verbeterd
Ernst	Mild	Matig	Mild
DuurBijOptreden			
minimumWaarde	30 min	5 min	
maximumWaarde	1,5 u	10 min	
nominaleWaarde			
BeïnvloedendeFactoren	Erger bij liggen		
Toelichting			
AnatomischeLocatie			
Locatie			
Lateraliteit			
AandoeningOfGesteldheid			
PeriodeAanwezig			
StartDatumTijd	22-02-2023	22-02-2023	22-02-2023
EindDatumTijd			
StatusDatum	01-03-2023	05-03-2023	20-03-2023
Beloop		Verslechterd	Verbeterd
Ernst	Mild	Matig	Mild

Symptoom		
SymptoomPeriode		
StartDatumTijd	15-01-2023 10:30	15-01-2023 10:30
EindDatumTijd		26-02-2023
TijdsDuur		
SymptoomStatusDatum	15-01-2023	26-02-2023
SymptoomType	Symptoom	Symptoom
SymptoomNaam	Zwelling	Zwelling
NadereSpecificatieSymptoomNaam		
Ontstaanswijze	Acuut	
TijdsPatroon		
Beloop		Niet meer aanwezig
Ernst	Ernstig	
Beïnvloedende actoren	Neemt toe bij beweging en neemt af in rust.	
Toelichting		
AnatomischeLocatie		
Locatie	Pols	Pols
Lateraliteit	Links	Links
AandoeningOfGesteldheid		
PeriodeAanwezig		
StartDatumTijd	15-01-2023	15-01-2023
EindDatumTijd		
StatusDatum	15-01-2023	26-02-2023
Beloop		Herstellend
Ernst		

1.9 Instructions

A symptom always refers to a condition of which it is an expression. Multiple symptoms may refer to the same condition or condition.

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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