

Health & Care Information Model:

nl.zorg.LaboratoryTestResult-v4.6

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Managed by:



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1. nl.zorg.LaboratoryTestResult-v4.6

| | |
|---------------------------------|--|
| 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 | 7-6-2012 |
| DCM::DeprecatedDate | |
| DCM::DescriptionLanguage | nl |
| DCM::EndorsingAuthority.Address | |
| DCM::EndorsingAuthority.Name | PM |
| DCM::EndorsingAuthority.Telecom | |
| DCM::Id | 2.16.840.1.113883.2.4.3.11.60.40.3.13.1 |
| DCM::KeywordList | laboratorium uitslag, lab, laboratorium bepaling |
| DCM::LifecycleStatus | Final |
| DCM::ModelerList | Kerngroep Registratie aan de Bron |
| DCM::Name | nl.zorg.LaboratoriumUitslag |
| DCM::PublicationDate | 01-09-2020 |
| DCM::PublicationStatus | Published |
| DCM::ReviewerList | Projectgroep Generieke Overdrachtsgegevens & Kerngroep Registratie aan de Bron |
| DCM::RevisionDate | 15-07-2020 |
| DCM::Supersedes | nl.zorg.LaboratoriumUitslag-v4.5 |
| DCM::Version | 4.6 |
| HCIM::PublicationLanguage | EN |

1.1 Revision History

Publicatieversie 1.0 (15-02-2013)

Publicatieversie 1.1 (01-07-2013)

Publicatieversie 1.2 (01-04-2015)

Bevat: ZIB-238, ZIB-239, ZIB-240, ZIB-241, ZIB-242, ZIB-243, ZIB-244, ZIB-245, ZIB-246, ZIB-353, ZIB-361, ZIB-367, ZIB-370.

Incl. algemene wijzigingsverzoeken:

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

Publicatieversie 1.2.1 (22-05-2015)

Bevat: ZIB-392.

Publicatieversie 1.2.2 (16-07-2015)

Bevat: ZIB-420.

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-423, ZIB-453.

Publicatieversie 4.0 (04-09-2017)

Bevat: ZIB-479, ZIB-549, ZIB-564, ZIB-576, ZIB-481, ZIB-577.

Publicatieversie 4.1 (31-12-2017)

Bevat: ZIB-609, ZIB-611, ZIB-621, ZIB-645, ZIB-646.

Publicatieversie 4.2 (01-10-2018)

Bevat: ZIB-649, ZIB-676.

Publicatieversie 4.3 (26-02-2019)

Bevat: ZIB-639, ZIB-703.

Publicatieversie 4.4 (06-07-2019)

Bevat: ZIB-669, ZIB-880.

Publicatieversie 4.5 (31-01-2020)

Bevat: ZIB-910, ZIB-901, ZIB-902.

Publicatieversie 4.6 (01-09-2020)

Bevat: ZIB-1016, ZIB-1148.

1.2 Concept

A laboratory result describes the result of a laboratory analysis.

These are specimen-oriented tests as performed in laboratories such as Clinical Chemistry, Serology, Microbiology, etc.

In addition to the results of tests with a singular result, this concept can also contain the results of more complex tests with multiple results or a 'panel'.

1.3 Mindmap

1.4 Purpose

Laboratory tests are done for the purpose of diagnosing and preventing disease and follow-up on the effects of treatment.

1.5 Patient Population

1.6 Evidence Base

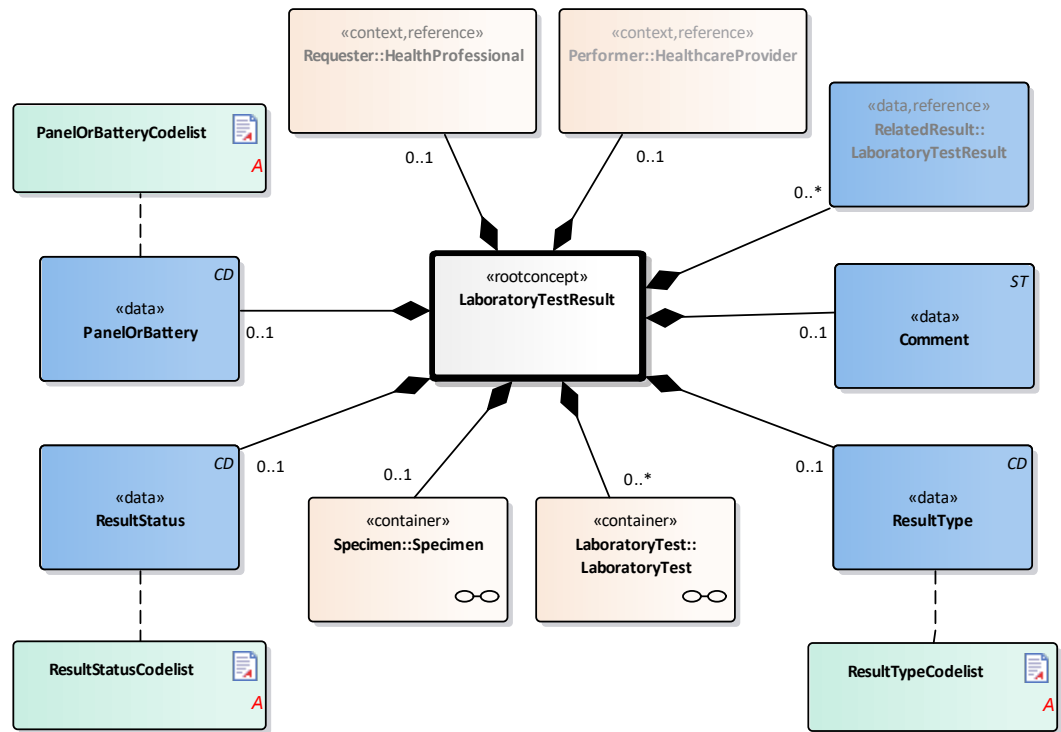
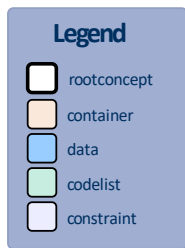
There are two information models for recording laboratory test results: TextResult and LaboratoryTestResult.

In the case of laboratory test results, it is difficult to clearly indicate exactly when to use this information model and when to use the TextResult information model.

In general, laboratory tests resulting in a value (7.1 mmol/L), ordinal number (++ from series to +++) or a quantitative result (Low) are recorded using this information model. The TextResult information model is better suited for textual results that are more descriptive in nature and which are longer than just a few words. Both types of tests occur in almost all laboratories.

The applicability of the aforementioned information models is not determined by the kind of lab but by the kind of result.

1.7 Information Model



| «rootconcept» | LaboratoryTestResult | |
|-----------------------|---|--|
| Definitie | Root concept of the LaboratoryTestResult information model. This root concept contains all data elements of the LaboratoryTestResult information model. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.1 | |
| Opties | | |

| «data» | PanelOrBattery | |
|--------------------------|---|---|
| Definitie | For laboratory tests comprising multiple subtests and often requested together as a whole, this concept contains the name of the compound request (often indicated as a 'panel', 'battery' or 'cluster'). Examples include: blood gases and EBV serology. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.4 | |
| DCM::ExampleValue | Bloedgassen | |
| DCM::ValueSet | PanelOrBatteryCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.5 |
| Opties | | |

| «data» | ResultStatus | |
|--------------------------|---|---|
| Definitie | The status of the laboratory test result .If the laboratory test is an panel/cluster, this status reflects the status of the whole panel/cluster. If the status item per subtest is used too, this status must be in accordance with these status values. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.6 | |
| DCM::ExampleValue | Definitief | |
| DCM::ValueSet | ResultStatusCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.8 |
| Opties | | |

| «data» | Comment | |
|------------------|---|--|
| Definitie | Comments, such as a textual interpretation or advice accompanying the | |

| | | |
|----------------------------|-----------------------------------|--|
| | result, for example. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:13.1.5 | |
| DCM::DefinitionCode | LOINC: 48767-8 Annotation comment | |
| Opties | | |

| | | |
|--------------------------|--|---|
| «data» | ResultType | |
| Definitie | The type of result defines the laboratory specialty under which the test is categorized. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.7 | |
| DCM::ExampleValue | Klinische Chemie | |
| DCM::ValueSet | ResultTypeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.1 |
| Opties | | |

| | | |
|---------------------------------|--|---|
| «data» | RelatedResult::LaboratoryTestResult | |
| Definitie | Reference to related tests, <i>e.g.</i> paired tests or sequential tests like gram staining and microbiological cultures | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.33 | |
| DCM::ReferencedConceptId | NL-CM:13.1.1 | This is a reference to the rootconcept of information model LaboratoryTestResult. |
| Opties | | |

| | | |
|---------------------------------|--|---|
| «context» | Requester::HealthProfessional | |
| Definitie | The healthcare provider and/or organization where or by whom the LaboratoryTestResult was requested. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.34 | |
| DCM::ReferencedConceptId | NL-CM:17.1.1 | This is a reference to the rootconcept of information model HealthProfessional. |
| Opties | | |

| | | |
|---------------------------------|--|---|
| «context» | Performer::HealthcareProvider | |
| Definitie | The healthcare provider and/or organization where or by whom the LaboratoryTestResult was performed. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.35 | |
| DCM::ReferencedConceptId | NL-CM:17.2.1 | This is a reference to the rootconcept of information model HealthcareProvider. |
| Opties | | |

| | | |
|-----------------------------|---|--|
| «document» | PanelOrBatteryCodelist | |
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.5 | |
| Opties | | |

| | | |
|---------------------------|---|-----------------------|
| OnderzoekCodelijst | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.5 | |
| Codes | Coding Syst. Name | Coding System OID |
| Alle waarden | LOINC | 2.16.840.1.113883.6.1 |

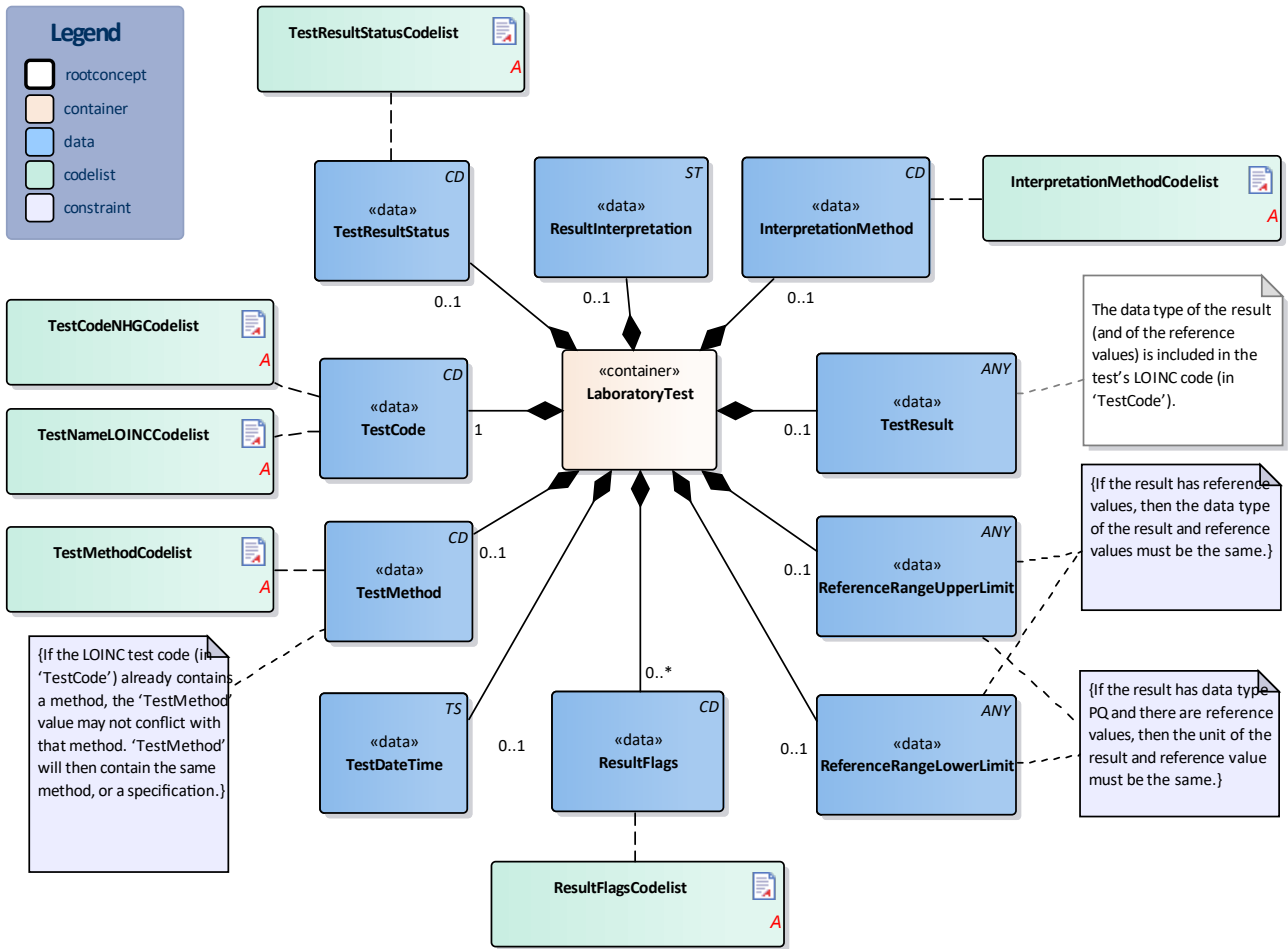
Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| «document» | | ResultStatusCodelist | | |
|--------------------------|---|--|---|---------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.8 | | | |
| Opties | | | | |
| ResultaatStatusCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.8 | | |
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Pending | pending | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Uitslag volgt |
| Preliminary | preliminary | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Voorlopig |
| Final | final | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Definitief |
| Appended | appended | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Aanvullend |
| Corrected | corrected | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Gecorrigeerd |

| «document» | | ResultTypeCodelist | | |
|------------------------|---|--|------------------------|------------------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.1 | | | |
| Opties | | | | |
| ResultaatTypeCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.1 | | |
| Concept Name | Concept Code | Coding Syst. Name | Coding System OID | Omschrijving |
| Hematology | 252275004 | SNOMED CT | 2.16.840.1.113883.6.96 | Hematologie |
| Chemistry | 275711006 | SNOMED CT | 2.16.840.1.113883.6.96 | Klinische chemie |
| Serology | 68793005 | SNOMED CT | 2.16.840.1.113883.6.96 | Serologie/ immunologie |
| Virology | 395124008 | SNOMED CT | 2.16.840.1.113883.6.96 | Virologie |
| Toxicology | 314076009 | SNOMED CT | 2.16.840.1.113883.6.96 | Toxicologie |
| Microbiology | 19851009 | SNOMED CT | 2.16.840.1.113883.6.96 | Microbiologie |
| Molecular genetics | 405825005 | SNOMED CT | 2.16.840.1.113883.6.96 | Moleculaire genetica |

| Legend | |
|-----------|--|
| Definitie | |
| Datatype | |
| Opties | |

1.7.1 LaboratoryTest



| «container» | LaboratoryTest |
|-----------------------|---|
| Definitie | Container of the LaboratoryTest concept. This container contains all data elements of the LaboratoryTest concept. |
| Datatype | |
| DCM::ConceptId | NL-CM:13.1.3 |
| Opties | |

| «data» | TestCode |
|--------------------------|--|
| Definitie | The name and code of the executed test. |
| Datatype | CD |
| DCM::ConceptId | NL-CM:13.1.8 |
| DCM::ExampleValue | HbA1c |
| DCM::ValueSet | TestCodeNHGCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.16 |
| DCM::ValueSet | TestNameLOINCCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.3 |
| Opties | |

| «data» | TestMethod |
|----------------------------|---|
| Definitie | The test method used to obtain the result. |
| Datatype | CD |
| DCM::ConceptId | NL-CM:13.1.9 |
| DCM::DefinitionCode | SNOMED CT: 246501002 Technique (attribute) |
| DCM::ExampleValue | IFCC |
| DCM::ValueSet | TestMethodCodelist OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.4 |
| Opties | |

| «data» | TestDateTime | |
|-------------------|--|--|
| Definitie | The date and if possible the time at which the test was carried out. | |
| Datatype | TS | |
| DCM::ConceptId | NL-CM:13.1.13 | |
| DCM::ExampleValue | 10-07-2012 20:15 | |
| Opties | | |

| «data» | TestResult | |
|-------------------|---|--|
| Definitie | The test result. Depending on the type of test, the result will consist of a value with a unit or a coded value (ordinal or nominal). | |
| Datatype | ANY | |
| DCM::ConceptId | NL-CM:13.1.10 | |
| DCM::ExampleValue | 53 mmol/mol | |
| Opties | | |

| «data» | TestResultStatus | |
|----------------|---|--|
| Definitie | The status of the test result of this test. If the laboratory test is an panel/cluster, the overall status is given in the status of the panel/cluster. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.31 | |
| DCM::ValueSet | TestResultStatusCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.15 |
| Opties | | |

| «data» | ReferenceRangeUpperLimit | |
|-------------------|--|--|
| Definitie | The upper reference limit for the patient of the value measured in the test. | |
| Datatype | ANY | |
| DCM::ConceptId | NL-CM:13.1.11 | |
| DCM::ExampleValue | 42 mmol/mol | |
| Opties | | |

| «data» | ReferenceRangeLowerLimit | |
|-------------------|--|--|
| Definitie | The lower reference limit for the patient of the value measured with the test. | |
| Datatype | ANY | |
| DCM::ConceptId | NL-CM:13.1.12 | |
| DCM::ExampleValue | 20 mmol/mol | |
| Opties | | |

| «data» | InterpretationMethod | |
|----------------|---|--|
| Definitie | The method used to determine interpretation flags. An example of this is EUCAST, for determining clinical breakpoints in microbiological susceptibility tests | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.30 | |
| DCM::ValueSet | InterpretationMethodCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.14 |
| Opties | | |

| «data» | ResultFlags | |
|-----------|---|--|
| Definitie | Attention codes indicating whether the result of a quantitative test is above or below certain reference values or interpreting the result otherwise.(Resistent). The values Resistant, Intermediate en Susceptible | |

| | | |
|----------------------------|---|---|
| | are used with microbiological test results. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.14 | |
| DCM::DefinitionCode | SNOMED CT: 363713009 Has interpretation | |
| DCM::ExampleValue | High | |
| DCM::ValueSet | ResultFlagsCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.7 |
| Opties | | |

| | | |
|----------------------------|--|--|
| «data» | ResultInterpretation | |
| Definitie | Comment of the laboratory specialist regarding the interpretation of the results | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:13.1.32 | |
| DCM::DefinitionCode | SNOMED CT: 441742003 Evaluation finding | |
| Opties | | |

| | | |
|-----------------------------|---|--|
| «document» | TestCodeNHGCodelist | |
| Definitie | These are the values of which the field "Soort" contains the letter "L" | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.16 | |
| Opties | | |

| | | |
|-----------------------------|--|-------------------------------|
| TestCodeNHGCodelijst | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.16 | |
| Codes | Coding Syst. Name | Coding System OID |
| Alle labbepaling waarden | NHG tabel 45 | 2.16.840.1.113883.2.4.4.30.45 |

| | | |
|-----------------------------|---|--|
| «document» | TestNameLOINCCodelist | |
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.3 | |
| Opties | | |

| | | |
|-------------------------------|---|---------------------------------|
| TestCodeLOINCCodelijst | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.3 | |
| Codes | Coding Syst. Name | Coding System OID |
| Alle waarden | Nederlandse Labcodeset | 2.16.840.1.113883.2.4.3.11.51.1 |

| | | |
|-----------------------------|---|--|
| «document» | TestMethodCodelist | |
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.4 | |
| Opties | | |

| | | |
|-----------------------------|---|------------------------|
| TestmethodeCodelijst | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.4 | |
| Codes | Coding Syst. Name | Coding System OID |
| SNOMED CT: < 272394005 | SNOMED CT | 2.16.840.1.113883.6.96 |

| | | |
|-----------------------------|--|--|
| Technique (qualifier value) | | |
|-----------------------------|--|--|

Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| «document» | | TestResultStatusCodelist | | |
|----------------------------|--|---|---|---------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.15 | | | |
| Opties | | | | |
| TestUitslagStatusCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.15 | | |
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Pending | pending | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Uitslag volgt |
| Preliminary | preliminary | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Voorlopig |
| Final | final | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Definitief |
| Appended | appended | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Aanvullend |
| Corrected | corrected | ResultaatStatus | 2.16.840.1.113883.2.4.3.11.60.40.4.16.1 | Gecorrigeerd |

| «document» | | InterpretationMethodCodelist | | |
|-------------------------------|--|---|------------------------|-------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.14 | | | |
| Opties | | | | |
| InterpretatieMethodeCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.14 | | |
| Concept Name | Concept Code | CodeSystem Name | CodeSystem OID | Description |
| EUCAST | tbd | SNOMED CT | 2.16.840.1.113883.6.96 | EUCAST |

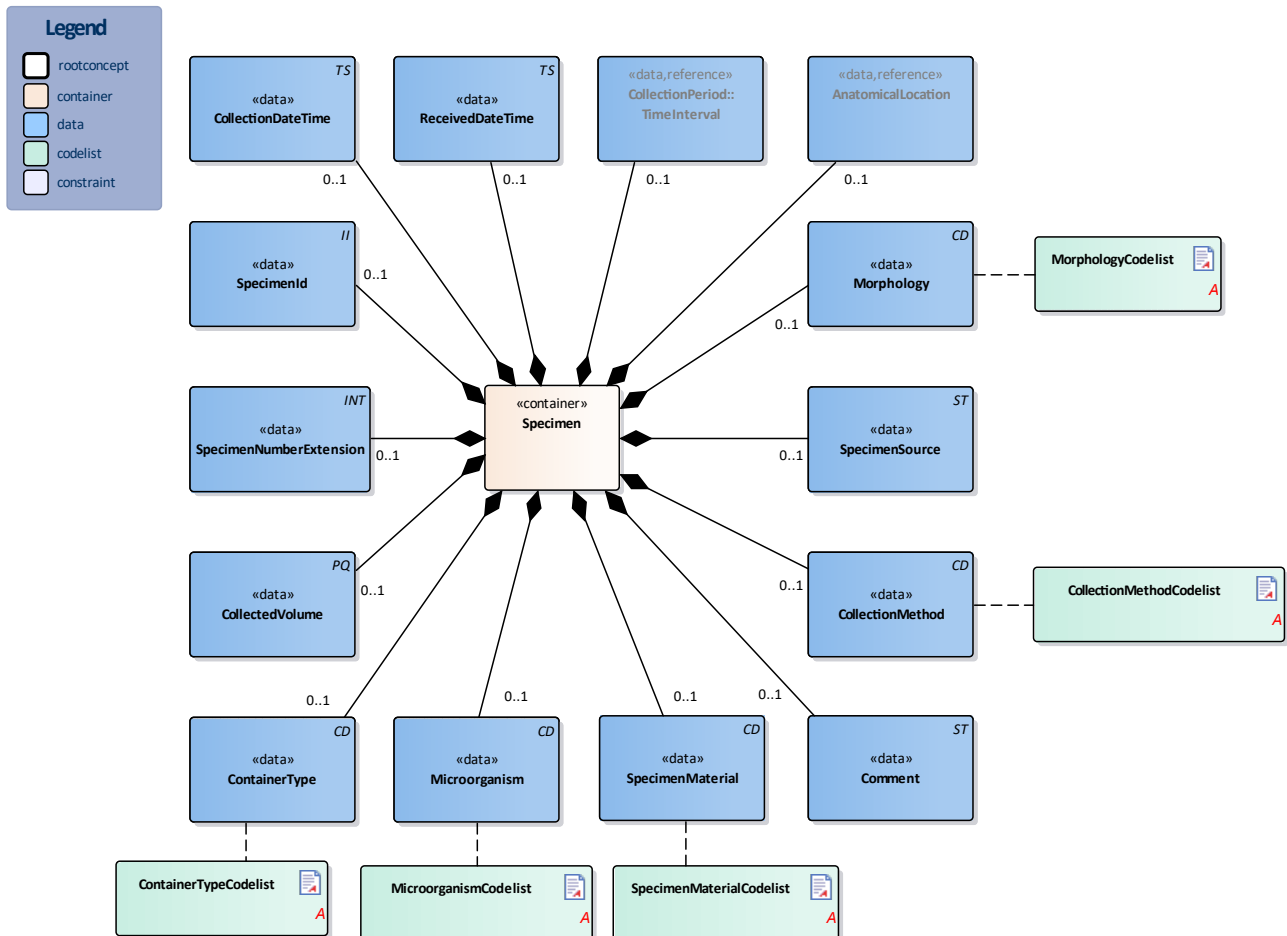
Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| «document» | | ResultFlagsCodelist | | |
|-------------------------------|---|--|-------------------|-------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.7 | | | |
| Opties | | | | |
| InterpretatieVlaggenCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.7 | | |
| Concept Name | Concept Code | Coding Syst. Name | Coding System OID | Description |
| Above | 281302008 | SNOMED CT | | Boven |

| | | | | |
|-----------------------|-----------|-----------|------------------------|------------------------|
| reference range | | | 2.16.840.1.113883.6.96 | referentiewaarde |
| Below reference range | 281300000 | SNOMED CT | 2.16.840.1.113883.6.96 | Onder referentiewaarde |
| Intermediate | 11896004 | SNOMED CT | 2.16.840.1.113883.6.96 | Intermediair |
| Resistant | 30714006 | SNOMED CT | 2.16.840.1.113883.6.96 | Resistent |
| Susceptible | 131196009 | SNOMED CT | 2.16.840.1.113883.6.96 | Sensitief |

| Legend | |
|-----------|--|
| Definitie | |
| Datatype | |
| Opties | |

1.7.2 Specimen



| «container» | Specimen | |
|---------------------|---|---------|
| Definitie | Container of the Specimen concept. This container contains all data elements of the Specimen concept. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.2 | |
| DCM::DefinitionCode | SNOMED CT: 123038009 | monster |

| | |
|---------------|--|
| Opties | |
|---------------|--|

| «data» | SpecimenId | |
|-----------------------|---|--|
| Definitie | Identification number of the material obtained, as a reference for inquiries to the source organization. In a transmural setting, this number will consist of a specimen number including the identification of the issuing organization, to be unique outside of the borders of an organization. | |
| Datatype | II | |
| DCM::ConceptId | NL-CM:13.1.15 | |
| Opties | | |

| «data» | SpecimenNumberExtension | |
|-----------------------|--|--|
| Definitie | The specimen number extension is used when the collected material is distributed from the original tube or container across multiple tubes. In combination with the specimen Id the extension yield a unique identification of the tube or container | |
| Datatype | INT | |
| DCM::ConceptId | NL-CM:13.1.20 | |
| Opties | | |

| «data» | ContainerType | |
|-----------------------|---|---|
| Definitie | Container type describes the envelope in which the material is collected or sent. Examples include blood tubes, transport container, possibly including culture medium. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.21 | |
| DCM::ValueSet | ContainerTypeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.9 |
| Opties | | |

| «data» | SpecimenMaterial | |
|----------------------------|--|---|
| Definitie | SpecimenMaterial describes the material obtained. If the LOINC test code also implicitly describes a material, this element may not conflict with the description. If desired, this component can provide a more detailed description of the material: LOINC codes only contain the materials at a main level. This is in line with the agreements made in the IHE/Nictiz program e-Lab. If the test is carried out on derived material (such as plasma), this element will still contain the material drawn (in this case, blood). In this case, the LOINC code will generally refer to plasma. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.16 | |
| DCM::DefinitionCode | SNOMED CT: 370133003 Specimen substance | |
| DCM::ExampleValue | Urine | |
| DCM::ValueSet | SpecimenMaterialCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.6 |
| Opties | | |

| «data» | AnatomicalLocation | |
|-----------------------|--|--|
| Definitie | Anatomic location where the material is collected, <i>e.g.</i> elbow | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.36 | |

| | | |
|---------------------------------|---|---|
| DCM::DefinitionCode | SNOMED CT: 405814001 Procedure site - Indirect | |
| DCM::ReferencedConceptId | NL-CM:20.7.1 | This is a reference to the rootconcept of information model AnatomicalLocation. |
| Opties | | |

| | | |
|-----------------------|---|--|
| «data» | Microorganism | |
| Definitie | In particular in microbiological determinations the subject of the test is an isolate of a certain microorganism rather than a material. This concept provides the ability to capture information about this microorganism. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.22 | |
| DCM::ValueSet | MicroorganismCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.10 |
| Opties | | |

| | | |
|-----------------------|--|--|
| «data» | CollectedVolume | |
| Definitie | Total volume of the collected material. If it is necessary to determine the absolute amount of a particular substance in the collected material, the volume thereof must be given. | |
| Datatype | PQ | |
| DCM::ConceptId | NL-CM:13.1.23 | |
| Opties | | |

| | | |
|---------------------------------|---|---|
| «data» | CollectionPeriod::TimeInterval | |
| Definitie | If the material has not been collected at a single point in time but over a certain period, this period can be captured in this concept. An example is 24 hour urine. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:13.1.24 | |
| DCM::ReferencedConceptId | NL-CM:20.3.1 | This is a reference to the rootconcept of partial information model TimeInterval. |
| Opties | | |

| | | |
|----------------------------|--|--|
| «data» | CollectionDateTime | |
| Definitie | Date and time at which the material was collected. | |
| Datatype | TS | |
| DCM::ConceptId | NL-CM:13.1.17 | |
| DCM::DefinitionCode | SNOMED CT: 399445004 specimen collection date | |
| DCM::ExampleValue | 10-07-2012 17:20 | |
| Opties | | |

| | | |
|-----------------------|---|--|
| «data» | ReceivedDateTime | |
| Definitie | Date and time that the material is handed over at the laboratory or specimen collection center. This is the issue with material that is collected by the patient himself. | |
| Datatype | TS | |
| DCM::ConceptId | NL-CM:13.1.25 | |
| Opties | | |

| | | |
|------------------|---|--|
| «data» | CollectionMethod | |
| Definitie | If relevant for the results, the method of obtaining the specimen can be entered as well. | |

| | | |
|----------------------------|--|---|
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.18 | |
| DCM::DefinitionCode | SNOMED CT: 118171006 Specimen procedure | |
| DCM::ExampleValue | Midstream | |
| DCM::ValueSet | CollectionMethodCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.2 |
| Opties | | |

| | | |
|----------------------------|--|--|
| «data» | Morphology | |
| Definitie | Morphology describes morphological abnormalities of the anatomical location where the material is taken, for example wound, ulcer. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:13.1.28 | |
| DCM::DefinitionCode | SNOMED CT: 118168003 Specimen source morphology | |
| DCM::ValueSet | MorphologyCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.13 |
| Opties | | |

| | | |
|----------------------------|---|--|
| «data» | SpecimenSource | |
| Definitie | If the material is not collected directly from the patient but comes from a patient-related object, e.g. a cathetertip, this source of material can be recorded here. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:13.1.29 | |
| DCM::DefinitionCode | SNOMED CT: 127454002 Device specimen | |
| Opties | | |

| | | |
|----------------------------|--|--|
| «data» | Comment | |
| Definitie | Comments on the specimen , such as drawing material after a (glucose) stimulus or taking medicine. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:13.1.19 | |
| DCM::DefinitionCode | LOINC: 48767-8 Annotation comment | |
| DCM::ExampleValue | Na (glucose)stimulus | |
| Opties | | |

| | | |
|-----------------------------|---|--|
| «document» | SpecimenMaterialCodelist | |
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11. 60.40.2.13.1.6 | |
| Opties | | |

| | | |
|-----------------------------------|-------------------|---|
| MonstermateriaalCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.6 |
| Codes | Coding Syst. Name | Coding System OID |
| SNOMED CT: <105590001 substantie | SNOMED CT | 2.16.840.1.113883.6.96 |

Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| «document» | ContainerTypeCodelist | |
|----------------------|---|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.9 | |
| Opties | | |

| ContainerTypeCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.9 | |
|---|-------------------|--|--|
| Codes | Coding Syst. Name | Coding System OID | |
| SNOMED CT: < 434711009 Specimen container (physical object) | SNOMED CT | 2.16.840.1.113883.6.96 | |

Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| «document» | MicroorganismCodelist | |
|----------------------|--|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.10 | |
| Opties | | |

| MicroorganismCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.10 | |
|---|-------------------|---|--|
| Codes | Coding Syst. Name | Coding System OID | |
| SNOMED CT: ^2581000146104 simpele referentieset voor micro-organismen (foundation metadata concept) | SNOMED CT | 2.16.840.1.113883.6.96 | |

| «document» | CollectionMethodCodelist | |
|----------------------|---|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.2 | |
| Opties | | |

| AfnameprocedureCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.2 | |
|--|-------------------|--|--|
| Codes | Coding Syst. Name | Coding System OID | |
| SNOMED CT: <71388002 verrichting (verrichting) (alle concepten onder procedure) | SNOMED CT | 2.16.840.1.113883.6.96 | |

Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| «document» | MorphologyCodelist | |
|----------------------|--|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.13 | |
| Opties | | |

| MorfologieCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.13 | |
|---------------------|--|---|--|
|---------------------|--|---|--|

| Codes | Coding Syst. Name | Coding System OID |
|---|-------------------|------------------------|
| SNOMED CT: < 49755003 Morphologically abnormal structure | SNOMED CT | 2.16.840.1.113883.6.96 |

Specifiekere waardenlijsten zullen op termijn opgeleverd worden door het project "Lab-Terminologie"

| Legend | |
|-----------|--|
| Definitie | |
| Datatype | |
| Opties | |

1.8 Example Instances

| LaboratoriumUitslag | | | | | | | | | |
|---------------------|------------------|-------------------|------------------|------------------|------------------|-------------|-----------------------|-----------------------|-----------------------|
| Resultaat Type | Resultaat Status | Monster | | LaboratoriumTest | | | | | |
| | | Monster materiaal | Afname DatumTijd | TestCode | Test DatumTijd | TestUitslag | Referentie Ondergrens | Referentie Bovengrens | Interpretatie Vlaggen |
| Klinische chemie | Definitief | Bloed | 12-06-2012 09:00 | Natrium | 12-06-2012 13:15 | 138 mmol/l | 136 mmol/l | 146 mmol/l | |

| LaboratoriumUitslag | | | | | | | | | |
|---------------------|------------------|-------------------|------------------|------------------|------------------|-------------|-----------------------|-----------------------|-------------------------|
| Resultaat Type | Resultaat Status | Monster | | LaboratoriumTest | | | | | |
| | | Monster materiaal | Afname DatumTijd | TestCode | Test DatumTijd | TestUitslag | Referentie Ondergrens | Referentie Bovengrens | Interpretatie Vlaggen |
| Klinische chemie | Definitief | Bloed | 23-05-2012 08:08 | Chloride | 23-05-2012 12:00 | 109 mmol/l | 99 mmol/l | 108 mmol/l | Boven referentie-waarde |

| LaboratoriumUitslag | | | | | | | | | |
|---------------------|------------------|-------------------|------------------|------------------|------------------|-------------|-----------------------|-----------------------|-----------------------|
| Resultaat Type | Resultaat Status | Monster | | LaboratoriumTest | | | | | |
| | | Monster materiaal | Afname DatumTijd | TestCode | Test DatumTijd | TestUitslag | Referentie Ondergrens | Referentie Bovengrens | Interpretatie Vlaggen |
| Virologie | Definitief | Bloed | 16-01-2012 08:00 | Hepatitis A IgM | 16-01-2012 10:12 | Negatief | | | |

1.9 Instructions

1.10 Interpretation

1.11 Care Process

1.12 Example of the Instrument

1.13 Constraints

1.14 Issues

1.15 References

1. Nederlandse Vereniging voor Medische Microbiologie (2010) *ELab en EvT*. [Online] Beschikbaar op: http://www.nvmm.nl/ict/vereniging/werkgroepen_commissies/elab-en-evt [Geraadpleegd: 23 juli 2014].

1.16 Functional Model

1.17 Traceability to other Standards

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