

Health & Care Information Model:

nl.zorg.MedicationAgreement-v4.0

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1. nl.zorg.MedicationAgreement-v4.0

| | |
|---------------------------------|--|
| DCM::CoderList | Projectgroep Medicatieproces |
| DCM::ContactInformation.Address | |
| DCM::ContactInformation.Name | * |
| DCM::ContactInformation.Telecom | |
| DCM::ContentAuthorList | Projectgroep Medicatieproces |
| DCM::CreationDate | 1-2-2017 |
| DCM::DeprecatedDate | |
| DCM::DescriptionLanguage | nl |
| DCM::EndorsingAuthority.Address | |
| DCM::EndorsingAuthority.Name | PM |
| DCM::EndorsingAuthority.Telecom | |
| DCM::Id | 2.16.840.1.113883.2.4.3.11.60.40.3.9.6 |
| DCM::KeywordList | Medicatie, Afspraak |
| DCM::LifecycleStatus | Final |
| DCM::ModelerList | Kerngroep Registratie aan de Bron |
| DCM::Name | nl.zorg.Medicatieafpraak |
| DCM::PublicationDate | 23-04-2025 |
| DCM::PublicationStatus | Published |
| DCM::ReviewerList | Projectgroep Medicatieproces & Architectuurgroep Registratie aan de Bron |
| DCM::RevisionDate | 08-04-2025 |
| DCM::Supersedes | nl.zorg.Medicatieafpraak-v3.0 |
| DCM::Version | 4.0 |
| HCIM::PublicationLanguage | EN |

1.1 Revision History

Publicatieversie 1.0 (04-09-2017)

Publicatieversie 1.0.1 (31-12-2017)

Bevat: ZIB-618, ZIB-643.

Publicatieversie 1.1 (31-01-2020)

Bevat: ZIB-888.

Publicatieversie 1.2 (01-09-2020)

Bevat: ZIB-911, ZIB-1020, ZIB-1021.

Publicatieversie 1.3 (01-12-2021)

Bevat: ZIB-1261, ZIB-1454, ZIB-1457, ZIB-1458, ZIB-1575.

Publicatieversie 2.0 (10-06-2022)

Bevat: ZIB-1659, ZIB-1685, ZIB-1696, ZIB-1720.

Publicatieversie 2.1 (15-10-2023)

Bevat: ZIB-1852, ZIB-1939, ZIB-1940.

Publicatieversie 3.0 (15-04-2024)

Bevat: ZIB-1903, ZIB-2092, ZIB-2128, ZIB-2132, ZIB-2133, ZIB-2176, ZIB-2202.

Publicatieversie 4.0 (23-04-2025)

Bevat: ZIB-2607.

1.2 Concept

A medication agreement is a prescriber's proposal for a patient to use medication. An agreement to discontinue the use of medication is also a medication agreement.

1.3 Mindmap

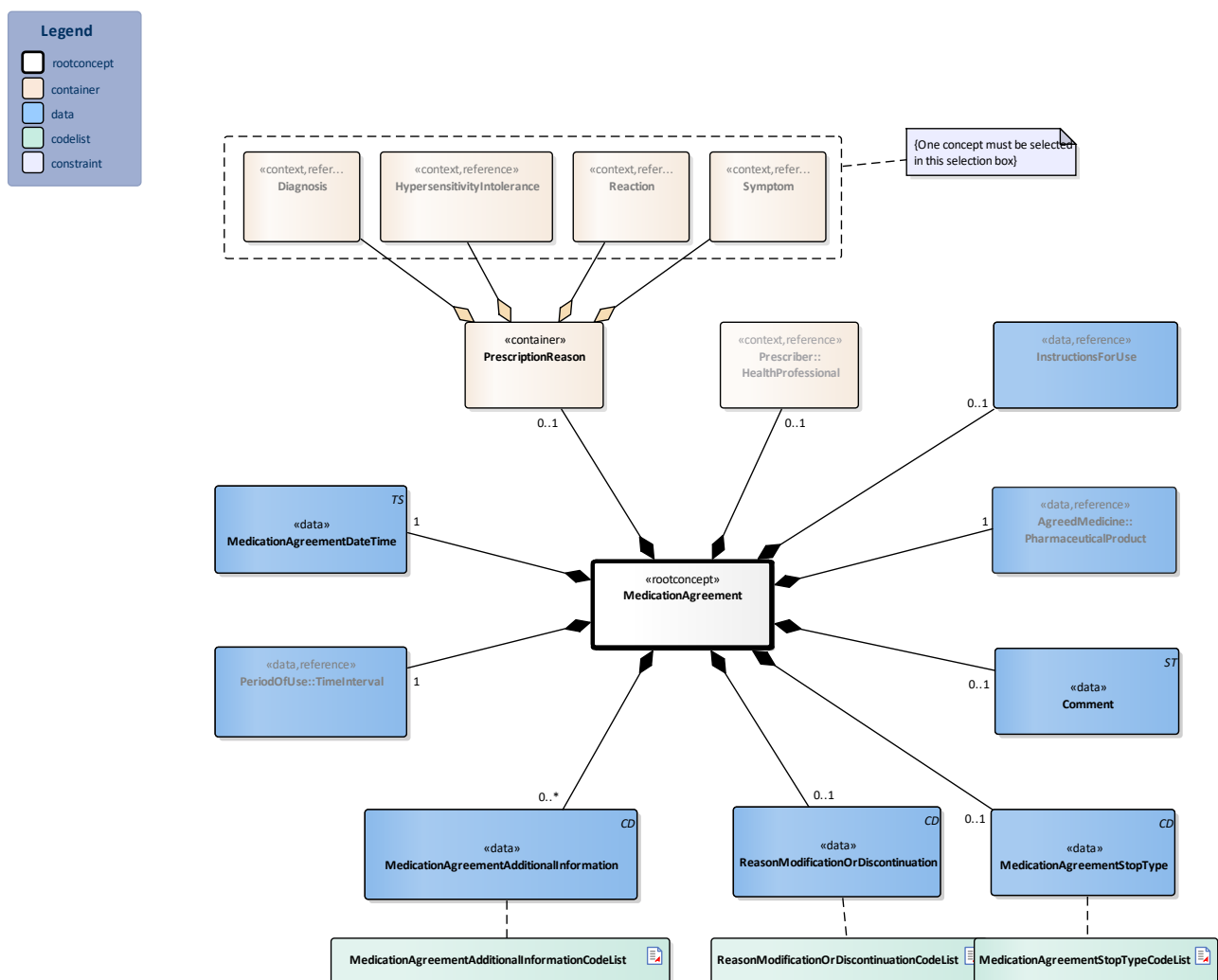
1.4 Purpose

The goal of the medication agreement is to provide insight into the agreements reached between the prescriber and the patient on the use of medication.

1.5 Patient Population

1.6 Evidence Base

1.7 Information Model



| | |
|----------------------|---|
| «rootconcept» | MedicationAgreement |
| Definitie | Root concept of the MedicationAgreement information model. This root concept contains all data elements of the MedicationAgreement information model. |

| | | |
|----------------------------|---|--|
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.9580 | |
| DCM::DefinitionCode | SNOMED CT: 33633005 Prescription of drug | |
| Opties | | |

| | | |
|-----------------------|--|--|
| «container» | PrescriptionReason | |
| Definitie | Container of the PrescriptionReason concept.This container contains all data elements of the PrescriptionReason concept. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.23284 | |
| Opties | | |

| | | |
|---------------------------------|---|--|
| «context» | Diagnosis | |
| Definitie | The diagnosis as the reason for prescription. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.23285 | |
| DCM::ReferencedConceptId | NL-CM:5.6.1 | This is a reference to the rootconcept of information model Diagnosis. |
| Opties | | |

| | | |
|---------------------------------|---|--|
| «context» | HypersensitivityIntolerance | |
| Definitie | The hypersensitivity or intolerance as the reason for prescription. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.23286 | |
| DCM::ReferencedConceptId | NL-CM:8.6.1 | This is a reference to the rootconcept of information model HypersensitivityIntolerance. |
| Opties | | |

| | | |
|---------------------------------|--|---|
| «context» | Reaction | |
| Definitie | The adverse reaction to a substance or radiation as the reason for prescription. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.23287 | |
| DCM::ReferencedConceptId | NL-CM:5.3.1 | This is a reference to the rootconcept of information model Reaction. |
| Opties | | |

| | | |
|---------------------------------|---|--|
| «context» | Symptom | |
| Definitie | The symptom as the reason for prescription. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.23288 | |
| DCM::ReferencedConceptId | NL-CM:5.5.1 | This is a reference to the rootconcept of information model Symptom. |
| Opties | | |

| | | |
|---------------------------------|---|---|
| «context» | Prescriber::HealthProfessional | |
| Definitie | The health professional that entered the medication agreement with the patient. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.1030 | |
| DCM::ReferencedConceptId | NL-CM:17.1.1 | This is a reference to the rootconcept of information model HealthProfessional. |
| Opties | | |

| «data» | AgreedMedicine::PharmaceuticalProduct | |
|--------------------------|---------------------------------------|--|
| Definitie | The medicine agreed upon to be used. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.19925 | |
| DCM::ReferencedConceptId | NL-CM:9.7.19926 | This is a reference to the rootconcept of information model PharmaceuticalProduct. |
| Opties | | |

| «data» | InstructionsForUse | |
|--------------------------|--|---|
| Definitie | Instructions for the use of the medication, e.g. dose and route of administration. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.23240 | |
| DCM::ReferencedConceptId | NL-CM:9.12.22504 | This is a reference to the rootconcept of information model InstructionsForUse. |
| Opties | | |

| «data» | MedicationAgreementDateTime | |
|-------------------|--|--|
| Definitie | The time at which the agreement was made. Appointment date + time are required (order of the appointments must be clear in cases with multiple appointments on one day) | |
| Datatype | TS | |
| DCM::ConceptId | NL-CM:9.6.19757 | |
| DCM::ExampleValue | 27-01-2015 | |
| Opties | | |

| «data» | PeriodOfUse::TimeInterval | |
|--------------------------|--|---|
| Definitie | <p>Start date: This is the time at which the agreement was to take effect (or took effect or will take effect). This is the time at which the instructions for use in this agreement start. In the case of an agreement to discontinue use, this is the start date of the original medication agreement. The end date indicates from when the medication is to be discontinued.</p> <p>Duration: The intended duration of use. E.g. 5 days or 8 weeks. It is not allowed to indicate the duration in months, because different months have a variable duration in days.</p> <p>End date: The time at which the period of use ends (or ended or will end). In the case of an agreement to discontinue use, this is the time at which the medication is to be discontinued. To avoid confusion between 'to' and 'up until and including', the submission of time is always mandatory for the end date.</p> <p>With medication for an indefinite period only a start date is indicated.</p> <p>Permitted units for the duration: hour, day, week, year.</p> | |
| Datatype | | |
| DCM::ConceptId | NL-CM:9.6.19936 | |
| DCM::ExampleValue | 12-03-2012 16:00 | |
| DCM::ReferencedConceptId | NL-CM:20.3.1 | This is a reference to the rootconcept of partial information model TimeInterval. |
| Opties | | |

| «data» | MedicationAgreementStopType | |
|--------|-----------------------------|--|
|--------|-----------------------------|--|

| | | |
|----------------------------|---|--|
| Definitie | Stop type, the manner in which this medication is discontinued (temporary or definitive). | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:9.6.19954 | |
| DCM::DefinitionCode | SNOMED CT: 274512008 Drug therapy discontinued (situation) | |
| DCM::ValueSet | MedicationAgreementStopTypeCodeList | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.1 |
| Opties | | |

| «data» | ReasonModificationOrDiscontinuation | |
|----------------------------|---|--|
| Definitie | Reason for modification or discontinuation of the medication agreement. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:9.6.22094 | |
| DCM::DefinitionCode | SNOMED CT: 160111000146106 Reason for change of prescription | |
| DCM::ValueSet | ReasonModificationOrDiscontinuationCodeList | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2 |
| Opties | | |

| «data» | MedicationAgreementAdditionalInformation | |
|-----------------------|--|--|
| Definitie | Additional information includes details on the structure of the agreement made that are relevant for pharmacovigilance and fulfillment by the pharmacist. This can be used e.g. to indicate that there was a conscious decision to deviate from the norm or that the agreement is to be structured in a certain way. See also the Instructions section for more information about use of the element. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:9.6.23283 | |
| DCM::ValueSet | MedicationAgreementAdditionalInformationCodeList | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3 |
| Opties | | |

| «data» | Comment | |
|----------------------------|---|--|
| Definitie | Comments regarding to the medication agreement. For example: in consultation with the medical specialist. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:9.6.22273 | |
| DCM::DefinitionCode | LOINC: 48767-8 Annotation comment | |
| Opties | | |

| «document» | MedicationAgreementAdditionalInformationCodeList | |
|--------------------------------|---|--|
| Definitie | The G-standard contains a copy of the MP value lists. | |
| Datatype | | |
| DCM::ValueSetBinding | Extensible | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3 | |
| DCM::ValueSetIncludeOTH | True | |
| DCM::ValueSetStatus | Active | |

| | | | | |
|---|---------------------|---|--|---|
| HCIM::ValueSetLanguage | NL | | | |
| Opties | | | | |
| MedicatieafsprakenAanvullendeInformatieCodelijst | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.3 | |
| Concept Name | Concept Code | Coding Syst. Name | Coding System OID | Description |
| Bewust hoge dosering | 1 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Bewust hoge dosering |
| Bewust lage dosering | 2 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Bewust lage dosering |
| Bewust afwijkende toedieningsweg | 3 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Bewust afwijkende toedieningsweg |
| Medische noodzaak | 4 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Medische noodzaak |
| Profylaxe | 5 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Profylaxe |
| Wijziging in GDS per direct | 6 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Wijziging in GDS per direct |
| Wijziging in GDS per rolwissel | 7 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Wijziging in GDS per rolwissel |
| Bewust afwijken van leeftijdsgrenzen | 8 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Bewust afwijken van leeftijdsgrenzen |
| Bewust van te lage nierfunctie voor deze dosering | 9 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Bewust van te lage nierfunctie voor deze dosering |
| Bewust van eerder gemelde overgevoeligheid | 10 | MP codesystem MA aanvullende informatie | 2.16.840.1.113883.2.4.3.11.60.20.77.5.2.14.2050 | Bewust van eerder gemelde overgevoeligheid |

| | | | | |
|--|--|--------------------------|--|---|
| «document» | ReasonModificationOrDiscontinuationCodeList | | | |
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2 | | | |
| DCM::ValueSetIncludeOTH | True | | | |
| DCM::ValueSetStatus | Active | | | |
| HCIM::ValueSetLanguage | NL | | | |
| Opties | | | | |
| RedenWijzigenOfStakenCodelijst | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.2 | |
| Concept Name | Concept Code | Coding Syst. Name | Coding System OID | Description |
| Medication commenced | 266709005 | SNOMED CT | 2.16.840.1.113883.6.96 | Starten medicamenteuze behandeling [DEPRECATED] |
| Administration of drug or medicament contraindicated (situation) | 438833006 | SNOMED CT | 2.16.840.1.113883.6.96 | Toedienen van medicatie gecontra-indiceerd |
| Drug interaction (disorder) | 79899007 | SNOMED CT | 2.16.840.1.113883.6.96 | Geneesmiddelinteractie |
| Adverse reaction to drug | 62014003 | SNOMED CT | 2.16.840.1.113883.6.96 | Ongewenste reactie op medicatie en/of drugs |
| Hypersensitivity | 473010000 | SNOMED CT | 2.16.840.1.113883.6.96 | Overgevoeligheid |

| | | | | |
|---|-----------------|-----------|------------------------|---|
| condition (disorder) | | | | [DEPRECATED] |
| Lack of drug action (finding) | 58848006 | SNOMED CT | 2.16.840.1.113883.6.96 | Gebrek aan geneesmiddeleffect |
| Too strong drug action (finding) | 112251000146103 | SNOMED CT | 2.16.840.1.113883.6.96 | Te sterk effect van medicatie |
| At risk of medication side effect (finding) | 704417003 | SNOMED CT | 2.16.840.1.113883.6.96 | (Mogelijke) bijwerking [DEPRECATED] |
| Insufficient route of administration (finding) | 112191000146101 | SNOMED CT | 2.16.840.1.113883.6.96 | Medicatie-toedieningsweg voldoet niet |
| Drug treatment not indicated (situation) | 183966005 | SNOMED CT | 2.16.840.1.113883.6.96 | Geen indicatie voor medicamenteuze behandeling |
| Medication management changed (situation) | 112751000146109 | SNOMED CT | 2.16.840.1.113883.6.96 | Medicatiebeleids veranderd |
| Admission to establishment (procedure) | 305335007 | SNOMED CT | 2.16.840.1.113883.6.96 | Opname in instelling |
| Patient requested modification of treatment | 159711000146106 | SNOMED CT | 2.16.840.1.113883.6.96 | Verzoek van zorgafnemer om behandeling te wijzigen |
| Patient requested treatment (situation) | 184003006 | SNOMED CT | 2.16.840.1.113883.6.96 | Wens patiënt [DEPRECATED] |
| Patient agreed with treatment (situation) | 112211000146102 | SNOMED CT | 2.16.840.1.113883.6.96 | Volgens afspraak [DEPRECATED] |
| Treatment previous prescriber continued (situation) | 112261000146100 | SNOMED CT | 2.16.840.1.113883.6.96 | Hervatten beleid vorige voorschrijver |
| Planned procedure (situation) | 405613005 | SNOMED CT | 2.16.840.1.113883.6.96 | Verrichting gepland |
| Incorrect registration of medication | 159691000146109 | SNOMED CT | 2.16.840.1.113883.6.96 | Foutieve registratie van medicatie |
| Drug not available - out of stock | 182856006 | SNOMED CT | 2.16.840.1.113883.6.96 | Geneesmiddel niet voorradig |
| Change in lab value | 160131000146104 | SNOMED CT | 2.16.840.1.113883.6.96 | Verandering in labwaarde |
| Duplicate registration of medication treatment | 160161000146108 | SNOMED CT | 2.16.840.1.113883.6.96 | Dubbele registratie van medicamenteuze behandeling [DEPRECATED] |
| Double registration of medication treatment | 180011000146107 | SNOMED CT | 2.16.840.1.113883.6.96 | Dubbele registratie van medicamenteuze behandeling |
| Patient takes medication as prescribed | 112221000146107 | SNOMED CT | 2.16.840.1.113883.6.96 | Medicatiegebruik van patient volgens afspraak |

| «document» | MedicationAgreementStopTypeCodeList | | |
|----------------------|--|--|--|
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Extensible | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.6 0.40.2.9.6.1 | | |

| DCM::ValueSetIncludeOTH | True | | | |
|------------------------------------|-----------------|-------------------|---|--|
| DCM::ValueSetStatus | Active | | | |
| HCIM::ValueSetLanguage | NL | | | |
| Opties | | | | |
| MedicatieafspraakStopTypeCodelijst | | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.9.6.1 | |
| Concept Name | Concept Code | Coding Syst. Name | Coding System OID | Description |
| Drug therapy temporarily stopped | 113381000146106 | SNOMED CT | 2.16.840.1.113883.6.96 | Tijdelijke onderbreking van medicamenteuze behandeling (bijvoorbeeld tijdelijk stoppen gebruik vanwege operatie). [DEPRECATED] |
| Drug therapy definitively stopped | 113371000146109 | SNOMED CT | 2.16.840.1.113883.6.96 | Het staken van een bestaande medicamenteuze behandeling. [DEPRECATED] |
| Discontinued | 410546004 | SNOMED CT | 2.16.840.1.113883.6.96 | Stopgezet |
| Suspended | 385655000 | SNOMED CT | 2.16.840.1.113883.6.96 | Onderbroken |
| Cancelled | 89925002 | SNOMED CT | 2.16.840.1.113883.6.96 | Geannuleerd |

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

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

1.8 Example Instances

| MedicatieAfspraak DatumTijd | Gebruiksperiode | | | Afgesproken geneesmiddel | Voorschrijver | MedicatieAfspraak Stoptype | MedicatieAfspraakRe denWijzigenOfStaken |
|--------------------------------|-----------------|-----------|------|---|---------------|-------------------------------|--|
| | Ingangsdatum | Einddatum | Duur | FarmaceutischProduct | Zorgverlener | | |
| 18-9-2016 18:00:00 | 08-09-2016 | 18-09-16 | | Lisinopril tablet 10mg | D. Bakker | Definitief | Geen of onvoldoende effect |
| 6-3-2016 9:12:30 | 06-03-2016 | | | Methotrexaat injvltst 25mg/ml 0,6 ml | R. Jansen | | |

| RedenVan Voorschrijven | Gebruiksaanwijzing | | | | | | |
|---------------------------|---|------------------|-------------------------|--|--|--|--|
| | Omschrijving | Doseerinstructie | | | | | |
| Diagnose | | Doseerduur | Dosering Keerdosis | Toedieningsschema Frequentie Interval Toedientijd Weekdag Dagdeel | | | |
| Hypertensie | Van 8-9-2017 tot 18-9-2017 1x per dag 1 stuk. Vanaf 18-9-2017 staken. | | 1 stuk | 1x per dag | | | |
| Reumatoïde Artritis | Vanaf 6 maart 2016 1x per week op maandag om 14uur 15 mg (=0,6 ml) | | 15 mg (=0,6 ml) | 1x per week op maandag (14u) | | | |

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

1.16 Functional Model

1.17 Traceability to other Standards

1.18 Disclaimer

The Health and Care Information Models (a.k.a Clinical Building Block) has been made in collaboration with several different parties in healthcare. These parties asked Nictiz to manage good maintenance and development of the information models. Hereafter, these parties and Nictiz are referred to as the collaborating parties. The collaborating parties paid utmost attention to the reliability and topicality of the data in these Health and Care Information Models. Omissions and inaccuracies may however occur. The

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