

Health & Care Information Model:

nl.zorg.Wound-v3.1

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Managed by:



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1. nl.zorg.Wound-v3.1

| | |
|---------------------------------|--|
| DCM::CoderList | Werkgroep RadB Verpleegkundige Gegevens |
| DCM::ContactInformation.Address | * |
| DCM::ContactInformation.Name | * |
| DCM::ContactInformation.Telecom | * |
| DCM::ContentAuthorList | Werkgroep RadB Verpleegkundige Gegevens |
| DCM::CreationDate | 7-7-2014 |
| DCM::DeprecatedDate | |
| DCM::DescriptionLanguage | nl |
| DCM::EndorsingAuthority.Address | |
| DCM::EndorsingAuthority.Name | PM |
| DCM::EndorsingAuthority.Telecom | |
| DCM::Id | 2.16.840.1.113883.2.4.3.11.60.40.3.19.2 |
| DCM::KeywordList | Wond, wondzorg, WCS, TIME, ulcus |
| DCM::LifecycleStatus | Final |
| DCM::ModelerList | Werkgroep RadB Verpleegkundige Gegevens |
| DCM::Name | nl.zorg.Wond |
| DCM::PublicationDate | 06-07-2019 |
| DCM::PublicationStatus | Prepublished |
| DCM::ReviewerList | Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron |
| DCM::RevisionDate | 31-12-2017 |
| DCM::Supersedes | nl.zorg.Wond-v3.0 |
| DCM::Version | 3.1 |
| HCIM::PublicationLanguage | EN |

1.1 Revision History

Publicatieversie 1.0 (01-07-2015)

Publicatieversie 3.0 (01-05-2016)

Bevat: ZIB-453

Publicatieversie 3.1 (04-09-2017)

Bevat: ZIB-530, ZIB-533, ZIB-572, ZIB-585.

1.2 Concept

A wound is an interruption of the continuity of the skin, often caused by external influences.

A commonly used model for documenting the wound properties is the TIME ('Tissue', 'Infection', 'Moisture', 'Edge') model, which can be used to systematically describe the wound. For wound tissue (T in the TIME model), the structure of the WCS model (Woundcare Consultant Society, WCS Kenniscentrum Wondzorg) is used. The WCS model is not suited for describing oncological ulcers. There is a separate classification for that.

Oncological ulcers are skin defects which result from the tumor process. They are different from wounds resulting from cancer treatment, such as radiotherapy, chemotherapy or surgery.

The concept does not describe decubitus wounds and burn wounds. For these, the relevant information models can be used.

1.3 Mindmap

1.4 Purpose

Information on the wound is recorded to share this information with other health professionals. This information can be used to monitor the wound's healing process and provide insight into the implemented policy. In a transfer situation, it facilitates continuation of the treatment.

1.5 Patient Population

1.6 Evidence Base

Though the TIME model can be applied to all types of wounds in the list of wound types, the wound tissue classification (T in the TIME model) is different for different types.

The WCS classification is used for surgical wounds, trauma wounds, diabetic foot and venous ulcers. The following values are used:

- Red wound: granulation tissue
- Yellow wound: signs of infection or fibrin layer
- Black wound: with necrosis

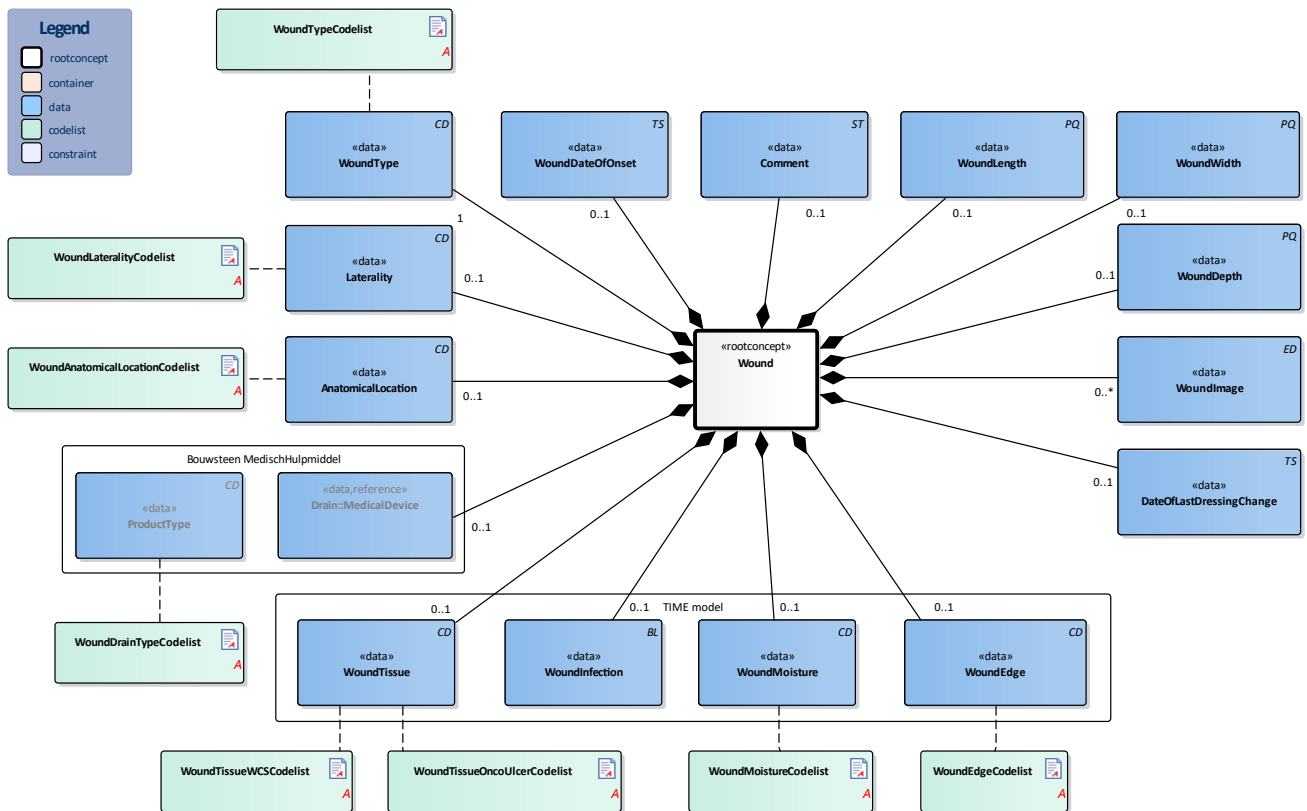
(Source: www.wcs.nl)

Tissue in oncological ulcers is classified as follows:

- Degree I: intact epidermis with imminent damage to the skin through underlying tumor tissue
- Degree II: beginning damage to the subcutis
- Degree III: deep continued growth with damaged subcutis
- Degree IV: dry and/or liquefactive necrosis of up to 30% of the wound surface
- Degree V: dry and/or liquefactive necrosis of more than 30% of the wound surface

(Source: www.oncoline.nl)

1.7 Information Model



| «rootconcept» | Wound | |
|----------------|---|--|
| Definitie | Root concept of the Wound information model. This root concept contains all data elements of the Wound information model. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:19.2.1 | |
| Opties | | |

| «data» | WoundType | |
|-------------------|-----------------------------------|---|
| Definitie | Description of the type of wound. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:19.2.5 | |
| DCM::ExampleValue | Chirurgische wond | |
| DCM::ValueSet | WoundTypeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.4 |
| Opties | | |

| «data» | WoundTissue | |
|-------------------|---|---|
| Definitie | Description of the tissue of the wound. For this, the WCS model can be used. A different classification is used for oncological ulcers. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:19.2.4 | |
| DCM::ExampleValue | Rode wond | |
| DCM::ValueSet | WoundTissueOncoUlcerCode list | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.2 |
| DCM::ValueSet | WoundTissueWCS Codelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.1 |
| Opties | | |

| «data» | WoundInfection | |
|-----------|---|--|
| Definitie | Indication stating whether the wound is infected. | |
| Datatype | BL | |

| | | |
|----------------------------|--|--|
| DCM::ConceptId | NL-CM:19.2.7 | |
| DCM::DefinitionCode | SNOMED CT: 405009004 Infection status | |
| Opties | | |

| | | |
|----------------------------|--|---|
| «data» | WoundMoisture | |
| Definitie | Description of the moisture in the wound. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:19.2.6 | |
| DCM::DefinitionCode | SNOMED CT: 298007001 Moistness of wound | |
| DCM::ExampleValue | Droge wond | |
| DCM::ValueSet | WoundMoistureCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.3 |
| Opties | | |

| | | |
|----------------------------|---|---|
| «data» | WoundEdge | |
| Definitie | Description of the condition of the outer edges of the wound. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:19.2.11 | |
| DCM::DefinitionCode | SNOMED CT: 449747006 Wound edge finding | |
| DCM::ValueSet | WoundEdgeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.5 |
| Opties | | |

| | | |
|----------------------------|---|--|
| «data» | WoundLength | |
| Definitie | The length of the wound. | |
| Datatype | PQ | |
| DCM::ConceptId | NL-CM:19.2.12 | |
| DCM::DefinitionCode | SNOMED CT: 401238003 Length of wound | |
| DCM::ExampleValue | 100 mm | |
| Opties | | |

| | | |
|----------------------------|--|--|
| «data» | WoundWidth | |
| Definitie | The width of the wound. | |
| Datatype | PQ | |
| DCM::ConceptId | NL-CM:19.2.13 | |
| DCM::DefinitionCode | SNOMED CT: 401239006 Width of wound | |
| DCM::ExampleValue | 30 mm | |
| Opties | | |

| | | |
|----------------------------|--|--|
| «data» | WoundDepth | |
| Definitie | The depth of the wound. | |
| Datatype | PQ | |
| DCM::ConceptId | NL-CM:19.2.14 | |
| DCM::DefinitionCode | SNOMED CT: 425094009 Depth of wound | |
| DCM::ExampleValue | 8 mm | |
| Opties | | |

| | | |
|---------------|---------------------------|--|
| «data» | AnatomicalLocation | |
|---------------|---------------------------|--|

| | | |
|----------------------------|--|---|
| Definitie | The location of the wound on the body. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:19.2.8 | |
| DCM::DefinitionCode | SNOMED CT: 363698007 Finding site | |
| DCM::ExampleValue | Bovenbeen | |
| DCM::ValueSet | WoundAnatomicalLocationCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.6 |
| Opties | | |

| | | |
|----------------------------|--|---|
| «data» | Laterality | |
| Definitie | Laterality adds information about body side to the anatomic location, <i>e.g.</i> left | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:19.2.18 | |
| DCM::DefinitionCode | SNOMED CT: 272741003 Laterality | |
| DCM::ExampleValue | Links | |
| DCM::ValueSet | WoundLateralityCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.8 |
| Opties | | |

| | | |
|--------------------------|---------------------------------------|--|
| «data» | WoundDateOfOnset | |
| Definitie | The date on which the wound appeared. | |
| Datatype | TS | |
| DCM::ConceptId | NL-CM:19.2.2 | |
| DCM::ExampleValue | 12-04-2014 | |
| Opties | | |

| | | |
|--------------------------|--|--|
| «data» | DateOfLastDressingChange | |
| Definitie | Date on which the dressing was last changed. | |
| Datatype | TS | |
| DCM::ConceptId | NL-CM:19.2.3 | |
| DCM::ExampleValue | 15-08-2014 | |
| Opties | | |

| | | |
|---------------------------------|---|--|
| «data» | Drain::MedicalDevice | |
| Definitie | A drain is a medical aid placed to drain blood and exudate from the wound area. | |
| Datatype | | |
| DCM::ConceptId | NL-CM:19.2.17 | |
| DCM::DefinitionCode | SNOMED CT: 258646005 Wound drain | |
| DCM::ReferencedConceptId | NL-CM:10.1.1 | This is a reference to the rootconcept of information model MedicalDevice. |
| Opties | | |

| | | |
|-----------------------|-------------------------------------|---|
| «data» | ProductType | |
| Definitie | Type of drain applied to the wound. | |
| Datatype | CD | |
| DCM::ConceptId | NL-CM:10.1.3 | |
| DCM::ValueSet | WoundDrainTypeCodelist | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.7 |
| Opties | | |

| «data» | WoundImage | |
|----------------|-----------------------|--|
| Definitie | A photo of the wound. | |
| Datatype | ED | |
| DCM::ConceptId | NL-CM:19.2.15 | |
| Opties | | |

| «data» | Comment | |
|---------------------|-----------------------------------|--|
| Definitie | Comment on the wound. | |
| Datatype | ST | |
| DCM::ConceptId | NL-CM:19.2.9 | |
| DCM::DefinitionCode | LOINC: 48767-8 Annotation comment | |
| Opties | | |

| «document» | WoundAnatomicalLocationCodelist | | |
|---|---|--|--|
| Definitie | | | |
| Datatype | | | |
| DCM::ValueSetBinding | Extensible | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.6 | | |
| Opties | | | |
| WondAnatomischeLocatieCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.6 | |
| Codes | Coding Syst. Name | Coding System OID | |
| SNOMED CT: < 442083009 Anatomical or acquired body structure | SNOMED CT | 2.16.840.1.113883.6.96 | |

| «document» | WoundLateralityCodelist | |
|----------------------|---|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.8 | |
| Opties | | |

| WondLateraliteitCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.8 | | |
|---------------------------|--------------|--|------------------------|-----------------|
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Left | 7771000 | SNOMED CT | 2.16.840.1.113883.6.96 | Links |
| Right | 24028007 | SNOMED CT | 2.16.840.1.113883.6.96 | Rechts |
| Right and left | 51440002 | SNOMED CT | 2.16.840.1.113883.6.96 | Rechts en links |

| «document» | WoundDrainTypeCodelist | |
|----------------------|---|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Extensible | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.7 | |
| Opties | | |

| WondDrainTypeCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.7 |
|-----------------------------------|---------------|--|
| Concept Name | CodeSys. Name | CodeSystem OID |
| SNOMED CT: << 32712000 drain | SNOMED CT | 2.16.840.1.113883.6.96 |

| «document» | WoundEdgeCodelist | |
|----------------------|---|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Extensible | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11. 60.40.2.19.2.5 | |
| Opties | | |

| WondRandCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.5 | | |
|--------------------------|--------------|--|------------------------------|---------------|
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Wound epithelialisation | 449743005 | SNOMED CT | 2.16.840.1.113883.6.96 | Epithelisatie |
| Skin irritation | 367466007 | SNOMED CT | 2.16.840.1.113883.6.96 | Irritatie |
| Wound tissue undermining | 449752001 | SNOMED CT | 2.16.840.1.113883.6.96 | Ondermijning |
| Macerated skin | 3644009 | SNOMED CT | 2.16.840.1.113883.6.96 | Verweking |
| Other | OTH | NullFlavor | 2.16.840.1.113883.5.10 08 | Anders |

| «document» | WoundTissueOncoUlcerCodelist | |
|----------------------|---|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11. 60.40.2.19.2.2 | |
| Opties | | |

| WondWeefselOncoUlcerCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.2 | | |
|-------------------------------|--------------|--|--|-------------|
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Graad I | GRAAD1 | OncoUlcerWeefsel | 2.16.840.1.113883.2.4.3. 11.60.40.4.7.1 | Graad I |
| Graad II | GRAAD2 | OncoUlcerWeefsel | 2.16.840.1.113883.2.4.3. 11.60.40.4.7.1 | Graad II |
| Graad III | GRAAD3 | OncoUlcerWeefsel | 2.16.840.1.113883.2.4.3. 11.60.40.4.7.1 | Graad III |
| Graad IV | GRAAD4 | OncoUlcerWeefsel | 2.16.840.1.113883.2.4.3. 11.60.40.4.7.1 | Graad IV |
| Graad V | GRAAD5 | OncoUlcerWeefsel | 2.16.840.1.113883.2.4.3. 11.60.40.4.7.1 | Graad V |

| «document» | WoundTissueWCSCodelist | |
|----------------------|------------------------|--|
| Definitie | | |
| Datatype | | |
| DCM::ValueSetBinding | Required | |

| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.1 | | | |
|--------------------------------|---|---|--|---|
| Opties | | | | |
| WondWeefselWCSCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.1 | | |
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Rode wond | ROOD | WondWeefselWCS | 2.16.840.1.113883.2.4.3.11.60.40.4.7.2 | granulerend weefsel |
| Gele wond | GEEL | WondWeefselWCS | 2.16.840.1.113883.2.4.3.11.60.40.4.7.2 | met infectieverschijnselen of fibrinebeslag |
| Zwarte wond | ZWART | WondWeefselWCS | 2.16.840.1.113883.2.4.3.11.60.40.4.7.2 | met necrose |

| «document» | WoundTypeCodelist | | | |
|--------------------------------------|---|---|--------------------------|----------------------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.4 | | | |
| Opties | | | | |
| WondSoortCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.4 | | |
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Surgical wound | 112633009 | SNOMED CT | 2.16.840.1.113883.6.96 | Chirurgische wond |
| Wound | 416462003 | SNOMED CT | 2.16.840.1.113883.6.96 | Traumatische wond |
| Ulcer of lower extremity | 95344007 | SNOMED CT | 2.16.840.1.113883.6.96 | Ulcus cruris |
| Secondary malignant neoplasm of skin | 94579000 | SNOMED CT | 2.16.840.1.113883.6.96 | Oncologische ulcer |
| Radiation ulcer | 403722002 | SNOMED CT | 2.16.840.1.113883.6.96 | Stralingswond |
| Diabetic foot ulcer | 371087003 | SNOMED CT | 2.16.840.1.113883.6.96 | Ulcus van diabetische voet |
| Skin tear | 428220001 | SNOMED CT | 2.16.840.1.113883.6.96 | Skin tear |
| Other | OTH | NullFlavor | 2.16.840.1.113883.5.1008 | Anders |

| «document» | WoundMoistureCodelist | | | |
|---------------------------------|---|---|--|-------------|
| Definitie | | | | |
| Datatype | | | | |
| DCM::ValueSetBinding | Extensible | | | |
| DCM::ValueSetId | 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.3 | | | |
| Opties | | | | |
| WondVochtigheidCodelijst | | OID: 2.16.840.1.113883.2.4.3.11.60.40.2.19.2.3 | | |
| Concept Name | Concept Code | CodeSys. Name | CodeSystem OID | Description |
| Droge wond | DROOG | WondVochtigheid | 2.16.840.1.113883.2.4.3.11.60.40.4.7.3 | Droge wond |

| | | | | |
|---------------|---------|-----------------|--|---------------|
| Vochtige wond | VOCHTIG | WondVochtigheid | 2.16.840.1.113883.2.4.3.11.60.40.4.7.3 | Vochtige wond |
| Natte wond | NAT | WondVochtigheid | 2.16.840.1.113883.2.4.3.11.60.40.4.7.3 | Natte wond |

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

1.8 Example Instances

| Wond | |
|---------------------------|--------------------------|
| WondSoort | Chirurgische wond |
| AnatomischeLocatie | Bovenbuik |
| Lateraliteit | Rechts |
| WondOntstaansdatum | 10-10-2014 |
| WondWeefsel | Gele wond |
| WondInfectie | Nee |
| WondVochtigheid | Vochtige wond |
| WondRand | Ondermijning |
| Wondlengte | 5 cm |
| Wondbreedte | 2 cm |
| Wonddiepte | 1 cm |
| DatumLaatsteVerbandwissel | 18-10-2014 |
| Toelichting | Wond lekt steeds minder. |

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. Richtlijn Wondzorg (Nederlandse Vereniging voor Heelkunde, 2013) [Online] Beschikbaar op: <http://www.heelkunde.nl/uploads/o1/hl/o1hIRR2oR4QDojTm5pGjGA/Richtlijn-Wondzorg-final.pdf> [Geraadpleegd: 13 februari 2015]
2. Richtlijn Oncologische ulcera (2010) [Online] Beschikbaar op: http://www.oncoline.nl/index.php?pagina=/richtlijn/item/pagina.php&id=32570&richtlijn_id=769 [Geraadpleegd: 13 februari 2015]
3. WCS [Online] Beschikbaar op: www.wcs.nl [Geraadpleegd: 13 februari 2015]
4. Oncoline [Online] Beschikbaar op: www.oncoline.nl [Geraadpleegd: 13 februari 2015]

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 collaborating parties are not liable for any damages resulting from omissions or inaccuracies in the information provided, nor are they liable for damages resulting from problems caused by or inherent to distributing information on the internet, such as malfunctions, interruptions, errors or delays in information or services provide by the parties to you or by you to the parties via a website or via e-mail, or any other digital means. The collaborating parties will also not accept liability for any damages resulting from the use of data, advice or ideas provided by or on behalf of the parties by means of the Health and Care Information Models. The parties will not accept any liability for the content of information in this Health and Care Information Model to which or from which a hyperlink is referred. In the event of contradictions in mentioned Health and Care Information Model documents and files, the most recent and highest version of the listed order in the revisions will indicate the priority of the documents in question. If information included in the digital version of a Health and Care Information Model is also distributed in writing, the written version will be leading in case of textual differences. This will apply if both have the same version number and date. A definitive version has priority over a draft version. A revised version has priority over previous versions.

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