Health & Care Information Model:

nl.zorg.Infuus

Final

Managed by:

Better health
through better IT

Nictiz

Content

1. nl.zorg.Infuus-v3.0

DCM::CoderList	Werkgroep RadB Verpleegkundige Gegevens
DCM::ContactInformation.Address	*
DCM::ContactInformation.Name	*
DCM::ContactInformation.Telecom	*
DCM::ContentAuthorList	Werkgroep RadB Verpleegkundige Gegevens
DCM::CreationDate	3-4-2014
DCM::DeprecatedDate	
DCM::DescriptionLanguage	nl
DCM::EndorsingAuthority.Address	
DCM::EndorsingAuthority.Name	PM
DCM::EndorsingAuthority.Telecom	
DCM::Id	2.16.840.1.113883.2.4.3.11.60.40.3.10.2
DCM::KeywordList	Infuus, Katheter,Toedieningssyteem
DCM::LifecycleStatus	Final
DCM::ModelerList	Werkgroep RadB Verpleegkundige Gegevens
DCM::Name	nl.zorg.Infuus
DCM::PublicationDate	1-5-2016
DCM::PublicationStatus	Published
DCM::ReviewerList	Projectgroep RadB Verpleegkundige Gegevens & Kerngroep Registratie aan de Bron
DCM::RevisionDate	8-9-2015
DCM::Superseeds	nl.nfu.Infuus-v1.0
DCM::Version	3.0

1.1 Revision History

Publicatieversie 1.0 (01-07-2015)

Publicatieversie 3.0 (01-05-2016)
Bevat: ZIB-453

1.2 Concept

A drip is a machine that slowly injects fluid into a blood vessel. The drip has a number of components.
The drip contains:

- the (peripheral) cannula or the (central) catheter put into the patient peripherally or centrally;
- the administering system connected to the cannula/catheter allowing the administered fluid to run;
- the drip bag containing the fluid.

Multiple administering systems may be connected to one cannula/catheter. Furthermore, a central venous catheter may have multiple lumens.
Arterial and epidural catheters also exist in addition to venous catheters.

1.3 Mindmap

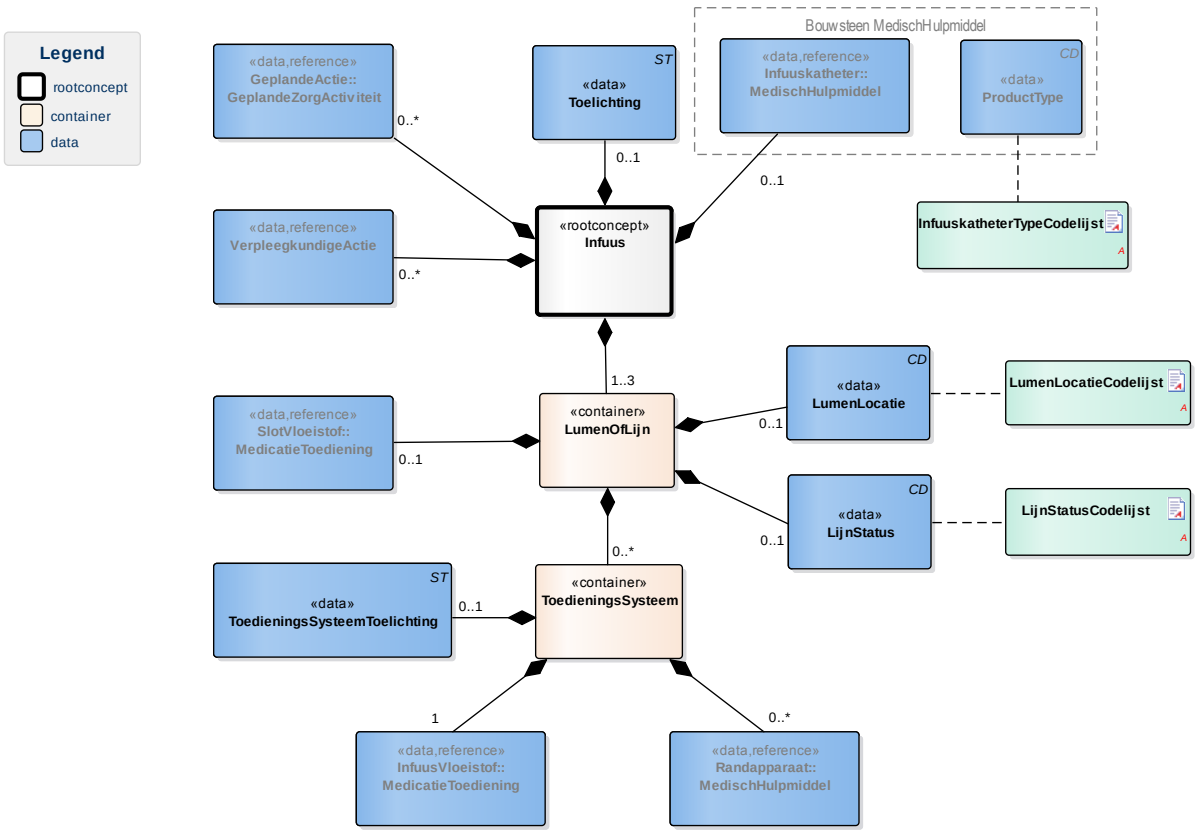
1.4 Purpose

The purpose of a drip is usually to administer fluid and/or medication.
Information on present drips is recorded to inform other healthcare providers. This information is of importance in determining the care required for the patient and in safely administering medication. In a transfer situation, the information offers the option to realize continuity of care by organizing specific expertise and materials in advance, for example.

1.5 Patient Population

1.6 Evidence Base

1.7 Information Model



«rootconcept»	Infuus

Definitie	Root concept of the Drip information model. This root concept contains all data elements of the Drip information model.	
Datatype		
DCM::DefinitionCode	NL-CM:10.2.1	
Opties		

«data»	Infuuskatheter::MedischHulpmiddel	
Definitie	DripCatheter describes the presence of a drip catheter. If this is the case, the date of placement and insertion opening can be described in addition to the type of catheter. Furthermore, it offers the option to record identification information of the cannula/catheter if desired.	
Datatype		
DCM::DefinitionCode	NL-CM:10.2.3	
DCM::ReferencedDefinitionCode	NL-CM:10.1.1	This is a reference to concept MedischHulpmiddel in information model MedischHulpmiddel.
Opties		

«data»	ProductType	
Definitie	A description of the type of cannula/catheter.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:10.1.3	
DCM::ValueSet	InfuuskatheterTypeCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.1
Opties		

«data»	VerpleegkundigeActie	
Definitie	A nursing procedure/point of attention in providing the drip and administering any fluid.	
Datatype		
DCM::DefinitionCode	NL-CM:10.2.4	
DCM::ReferencedDefinitionCode	NL-CM:14.2.9	This is a reference to concept VerpleegkundigeActie in information model VerpleegkundigeInterventie.
Opties		

«data»	GeplandeActie::GeplandeZorgActiviteit	
Definitie	A planned (nursing) procedure or 'clinical reminder' in providing the drip, in which information can be included such as the date on which the drip (cannula and/or drip system) must be replaced.	
Datatype		
DCM::DefinitionCode	NL-CM:10.2.5	
DCM::ReferencedDefinitionCode	NL-CM:16.1.1	This is a reference to concept GeplandeZorgActiviteit in information model OverdrachtGeplandeZorgActiviteit.

Opties	

«data»	Toelichting	
Definitie	An explanation of the drip.	
Datatype	ST	
DCM::DefinitionCode	NL-CM:10.2.8	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«container»	LumenOfLijn	
Definitie	Container of the LumenOrLine concept. This container contains all data elements of the LumenOrLine concept. Central lines can contain one or more lumens; peripheral drips do not have lumens and only have one line.	
Datatype		
DCM::DefinitionCode	NL-CM:10.2.10	
Opties		

«data»	LijnStatus	
Definitie	LineStatus is used to indicate whether it is a running drip, whether it has been capped, or has been fitted with a heparin lock, etc.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:10.2.9	
DCM::ValueSet	LijnStatusCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.3
Opties		

«data»	LumenLocatie	
Definitie	For central venous catheters with multiple lumens, LumenLocation indicates the relative position of the lumen with respect to the insertion opening.	
Datatype	CD	
DCM::DefinitionCode	NL-CM:10.2.11	
DCM::ValueSet	LumenLocatieCodelijst	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.2
Opties		

«data»	SlotVloeistof::MedicatieToediening	
Definitie	The description of the fluid used as an anticoagulation lock, such as heparin.	
Datatype		
DCM::DefinitionCode	NL-CM:10.2.13	

DCM::ReferencedDefinitionCode	NL-CM:9.3.1	This is a reference to concept MedicatieToediening in information model MedicatieToediening.
Opties		

«container»	ToedieningsSysteem	
Definitie	Container of the AdministeringSystem concept. This container contains all data elements of the AdministeringSystem concept. The administering system contains the entire system making the fluid run from the drip bag via the cannula/catheter to the patient. This also includes any three-way valves/connecting joints used.	
Datatype		
DCM::DefinitionCode	NL-CM:10.2.7	
Opties		

«data»	InfuusVloeistof::MedicatieToediening	
Definitie	The description of the fluid administered through the drip and the dose administered, as given in the medication prescription.	
Datatype		
DCM::DefinitionCode	SNOMED CT: 440132002 Parenteral dosage form product	
DCM::DefinitionCode	NL-CM:10.2.2	
DCM::ExampleValue	1 liter glucose 5% per 24 uur	
DCM::ReferencedDefinitionCode	NL-CM:9.3.1	This is a reference to concept MedicatieToediening in information model MedicatieToediening.
Opties		

«data»	Randapparaat::MedischHulpmiddel	
Definitie	A description of medical aids required for administering the drip fluid and placing the catheter, such as a volumetric drip pump, syringe and drip bag.	
Datatype		
DCM::DefinitionCode	NL-CM:10.2.6	
DCM::ReferencedDefinitionCode	NL-CM:10.1.1	This is a reference to concept MedischHulpmiddel in information model MedischHulpmiddel.
Opties		

«data»	ToedieningsSysteemToelichting	
Definitie	An explanation of the administering system.	
Datatype	ST	
DCM::DefinitionCode	NL-CM:10.2.12	
DCM::DefinitionCode	LOINC: 48767-8 Annotation comment	
Opties		

«document»	LijnStatusCodelijst
Definitie	
Datatype	
Opties	

LijnStatusCodelijst			**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.3**	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Lopend	LNP	LijnStatus	2.16.840.1.113883.2.4.3.11.60.40.4.12.1	Lopend
Afgedopt	DOP	LijnStatus	2.16.840.1.113883.2.4.3.11.60.40.4.12.1	Afgedopt
Heparineslot	HEP	LijnStatus	2.16.840.1.113883.2.4.3.11.60.40.4.12.1	Heparineslot
Zoutspoelingslot	ZOU	LijnStatus	2.16.840.1.113883.2.4.3.11.60.40.4.12.1	Zoutspoelingslot
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

«document»	LumenLocatieCodelijst
Definitie	
Datatype	
Opties	

LumenLocatieCodelijst			**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.2**	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description
Proximal	40415009	SNOMED CT	2.16.840.1.113883.6.96	Proximaal
Medial	255561001	SNOMED CT	2.16.840.1.113883.6.96	Mediaal
Distal	46053002	SNOMED CT	2.16.840.1.113883.6.96	Distaal

«document»	InfuuskatheterTypeCodelijst
Definitie	
Datatype	
Opties	

InfuuskatheterTypeCodelijst			**OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.1**	
Concept Name	Concept Code	Coding Syst. Name	Coding System OID	Description

Peripheral intravenous catheter	82449006	SNOMED CT	2.16.840.1.113883.6.96	Perifeer intraveneus infuus
Central venous catheter	52124006	SNOMED CT	2.16.840.1.113883.6.96	Centraal veneuze katheter
Epidural catheter	30610008	SNOMED CT	2.16.840.1.113883.6.96	Epidurale katheter
Arterial catheter	303727009	SNOMED CT	2.16.840.1.113883.6.96	Arteriële katheter
Implantable venous catheter	102318003	SNOMED CT	2.16.840.1.113883.6.96	Port-a-cath
Haemodialysis catheter	450866001	SNOMED CT	2.16.840.1.113883.6.96	Hemodialyse katheter
Other	OTH	NullFlavor	2.16.840.1.113883.5.1008	Anders

1.8 Example Instances

Infuus	
Infuuskatheter	
ProductType	Centraal veneuze katheter
BeginDatum	30-11-2014
HulpmiddelAnatomischeLocatie	Vena subclavia links
VerpleegkundigeActie	
Activiteit	Insteekopening controleren.
GeplandeActie	
Activiteit	Op 31-12-2014 katheter verschonen.
LumenOfLijn	
LumenLocatie	Proximaal
LijnStatus	Lopend
ToedieningsSysteem	
ToedieningssysteemToelichting	-
Randapparaat	
ProductType	Infuuspomp
InfuusVloeistof	
ProductNaam	TPV
Inloopsnelheid	1 liter per 24 uur
LumenOfLijn	
Lumen locatie	Mediaal
LijnStatus	Zoutspoelingsslot
SlotVloeistof	
ProductNaam	NaCl 0.9 %
Keerdosis	5ml
LumenOfLijn	
LumenLocatie	Distaal
LijnStatus	Lopend
ToedieningsSysteem	
ToedieningssysteemToelichting	-
Randapparaat	
ProductType	Infuuspomp
InfuusVloeistof	
ProductNaam	NaCl 0.9 %
Inloopsnelheid	500 ml per 24 uur
Toelichting	-

Infuus	
Infuuskatheter	
ProductType	Perifeer intraveneus infuus
BeginDatum	28-11-2014
HulpmiddelAnatomischeLocatie	Linker onderarm
VerpleegkundigeActie	
Activiteit	Insteekopening controleren.
GeplandeActie	
Activiteit	Op 2-12 systeem verschonen.
LumenOfLijn	
LumenLocatie	-
LijnStatus	Lopend
ToedieningsSysteem	
ToedieningssysteemToelichting	-
Randapparaat	
ProductType	Spuitenpomp (perfusor)
InfuusVloeistof	
ProductNaam	NaCl 0,9% + medicatie 5000 E heparine (totaal 48ml)
Inloopsnelheid	2ml per uur
ToedieningsSysteem	
ToedieningssysteemToelichting	-
Randapparaat	
ProductType	Infuuspomp
InfuusVloeistof	
ProductNaam	NaCl/gluc
Inloopsnelheid	500 ml / 24 uur
Toelichting	-

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. Verpleegkundige Intensive Care Protocollen [Online] Beschikbaar op: http://ic.venvn.nl/Downloads/Verpleegkundige-Intensive-Care-Protocollen [Geraadpleegd: 13 februari 2015]

1.16 Functional Model

1.17 Traceability to other Standards

1.18 Disclaimer

This Health and Care Information Model (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 this Health and Care Information Model. 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 this 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.

1.19 Terms of Use

The user may use the information in this Health and Care Information Model without limitations. The copyright provisions in the paragraph concerned apply to copying, distributing and passing on information from this Health and Care Information Model.

1.20 Copyrights