

# Health & Care Information Model: nl.zorg.Infusion-v3.0

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# Content

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# 1. nl.zorg.Infusion-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, Toedieningssysteem
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
HCIM::PublicationLanguage	EN

## 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.

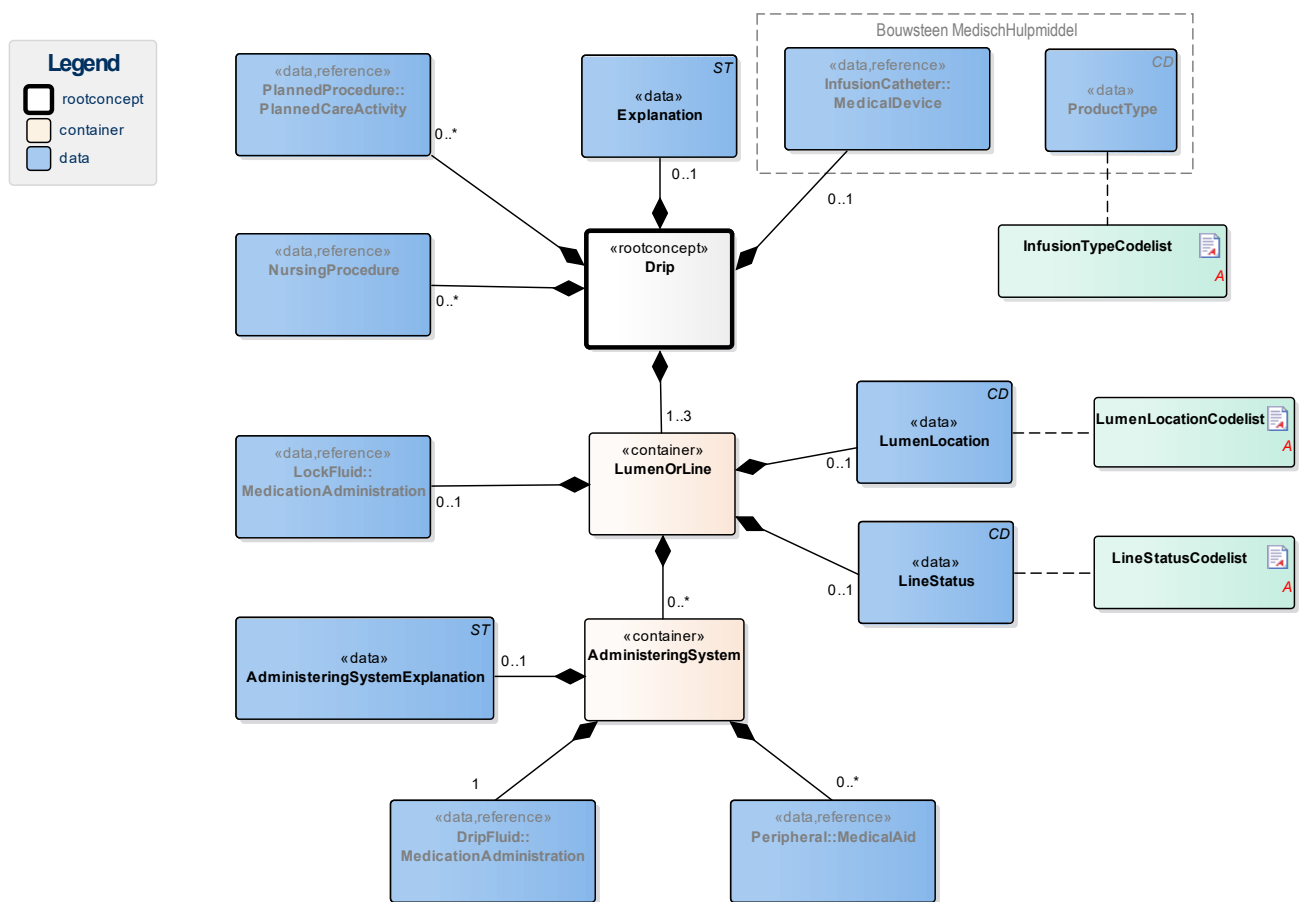
Information on present drips is recorded to inform other healthcare providers. This information is of

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

«data»	InfusionCatheter::MedicalDevice
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.

<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:10.2.3	
<b>DCM::ReferencedConceptId</b>	NL-CM:10.1.1	This is a reference to concept MedischHulpmiddel in information model MedischHulpmiddel.
<b>Opties</b>		

<b>«data»</b>	<b>ProductType</b>	
<b>Definitie</b>	A description of the type of cannula/catheter.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:10.1.3	
<b>DCM::ValueSet</b>	InfusionTypeCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.1
<b>Opties</b>		

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

<b>«data»</b>	<b>PlannedProcedure::PlannedCareActivity</b>	
<b>Definitie</b>	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.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:10.2.5	
<b>DCM::ReferencedConceptId</b>	NL-CM:16.1.1	This is a reference to concept GeplandeZorgActiviteit in information model OverdrachtGeplandeZorgActiviteit.
<b>Opties</b>		

<b>«data»</b>	<b>Explanation</b>	
<b>Definitie</b>	An explanation of the drip.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:10.2.8	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>Opties</b>		

<b>«container»</b>	<b>LumenOrLine</b>	
<b>Definitie</b>	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.	
<b>Datatype</b>		

<b>DCM::ConceptId</b>	NL-CM:10.2.10	
<b>Opties</b>		

<b>«data»</b>	<b>LineStatus</b>	
<b>Definitie</b>	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.	
<b>Datatype</b>	CD	
<b>DCM::ConceptId</b>	NL-CM:10.2.9	
<b>DCM::ValueSet</b>	LineStatusCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.3
<b>Opties</b>		

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

<b>«data»</b>	<b>LockFluid::MedicationAdministration</b>	
<b>Definitie</b>	The description of the fluid used as an anticoagulation lock, such as heparin.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:10.2.13	
<b>DCM::ReferencedConceptId</b>	NL-CM:9.3.1	This is a reference to concept MedicatieToediening in information model MedicatieToediening.
<b>Opties</b>		

<b>«container»</b>	<b>AdministeringSystem</b>	
<b>Definitie</b>	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.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:10.2.7	
<b>Opties</b>		

<b>«data»</b>	<b>DripFluid::MedicationAdministration</b>	
<b>Definitie</b>	The description of the fluid administered through the drip and the dose administered, as given in the medication prescription.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:10.2.2	
<b>DCM::DefinitionCode</b>	SNOMED CT: 440132002 Parenteral dosage form product	

<b>DCM::ExampleValue</b>	1 liter glucose 5% per 24 uur	
<b>DCM::ReferencedConceptId</b>	NL-CM:9.3.1	This is a reference to concept MedicatieToediening in information model MedicatieToediening.
<b>Opties</b>		

<b>«data»</b>	<b>Peripheral::MedicalAid</b>	
<b>Definitie</b>	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.	
<b>Datatype</b>		
<b>DCM::ConceptId</b>	NL-CM:10.2.6	
<b>DCM::ReferencedConceptId</b>	NL-CM:10.1.1	This is a reference to concept MedischHulpmiddel in information model MedischHulpmiddel.
<b>Opties</b>		

<b>«data»</b>	<b>AdministeringSystemExplanation</b>	
<b>Definitie</b>	An explanation of the administering system.	
<b>Datatype</b>	ST	
<b>DCM::ConceptId</b>	NL-CM:10.2.12	
<b>DCM::DefinitionCode</b>	LOINC: 48767-8 Annotation comment	
<b>Opties</b>		

<b>«document»</b>	<b>LineStyleCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.10.2.3	
<b>Opties</b>		

<b>LijnStatusCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.3</b>	
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

<b>«document»</b>	<b>LumenLocationCodelist</b>	
<b>Definitie</b>		
<b>Datatype</b>		

<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.10.2.2			
<b>Opties</b>				
<b>LumenLocatieCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.2</b>	
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

<b>«document»</b>	<b>InfusionTypeCodelist</b>			
<b>Definitie</b>				
<b>Datatype</b>				
<b>DCM::ValueSetId</b>	2.16.840.1.113883.2.4.3.11.60.40.2.10.2.1			
<b>Opties</b>				
<b>InfuuskatheterTypeCodelijst</b>			<b>OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.1</b>	
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	
<b>Infuuskatheter</b>	
ProductType	Centraal veneuze katheter
BeginDatum	30-11-2014
HulpmiddelAnatomischeLocatie	Vena subclavia links
<b>VerpleegkundigeActie</b>	
Activiteit	Insteekopening controleren.
<b>GeplandeActie</b>	
Activiteit	Op 31-12-2014 katheter verschonen.
<b>LumenOfLijn</b>	
LumenLocatie	Proximaal
LijnStatus	Lopend
<b>ToedieningsSysteem</b>	
ToedieningssysteemToelichting	-
<b>Randapparaat</b>	
ProductType	Infuus pomp
<b>InfuusVloeistof</b>	
ProductNaam	TPV
Inloopsnelheid	1 liter per 24 uur
<b>LumenOfLijn</b>	
Lumen locatie	Mediaal
LijnStatus	Zoutspoelings slot
<b>SlotVloeistof</b>	
ProductNaam	NaCl 0.9 %
Keerdosis	5ml
<b>LumenOfLijn</b>	
LumenLocatie	Distaal
LijnStatus	Lopend
<b>ToedieningsSysteem</b>	
ToedieningssysteemToelichting	-
<b>Randapparaat</b>	
ProductType	Infuus pomp
<b>InfuusVloeistof</b>	
ProductNaam	NaCl 0.9 %
Inloopsnelheid	500 ml per 24 uur
Toelichting	-

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

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