

Health & Care Information Model: nl.nfu.Infusion-v1.0

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1. nl.nfu.Infusion-v1.0

DCM::CoderList	Werkgroep RadB Verpleegkundige Gegevens
DCM::ContactInformation.Address	*
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1.1 Revision History

Publicatieversie 1.0 (01-07-2015)

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

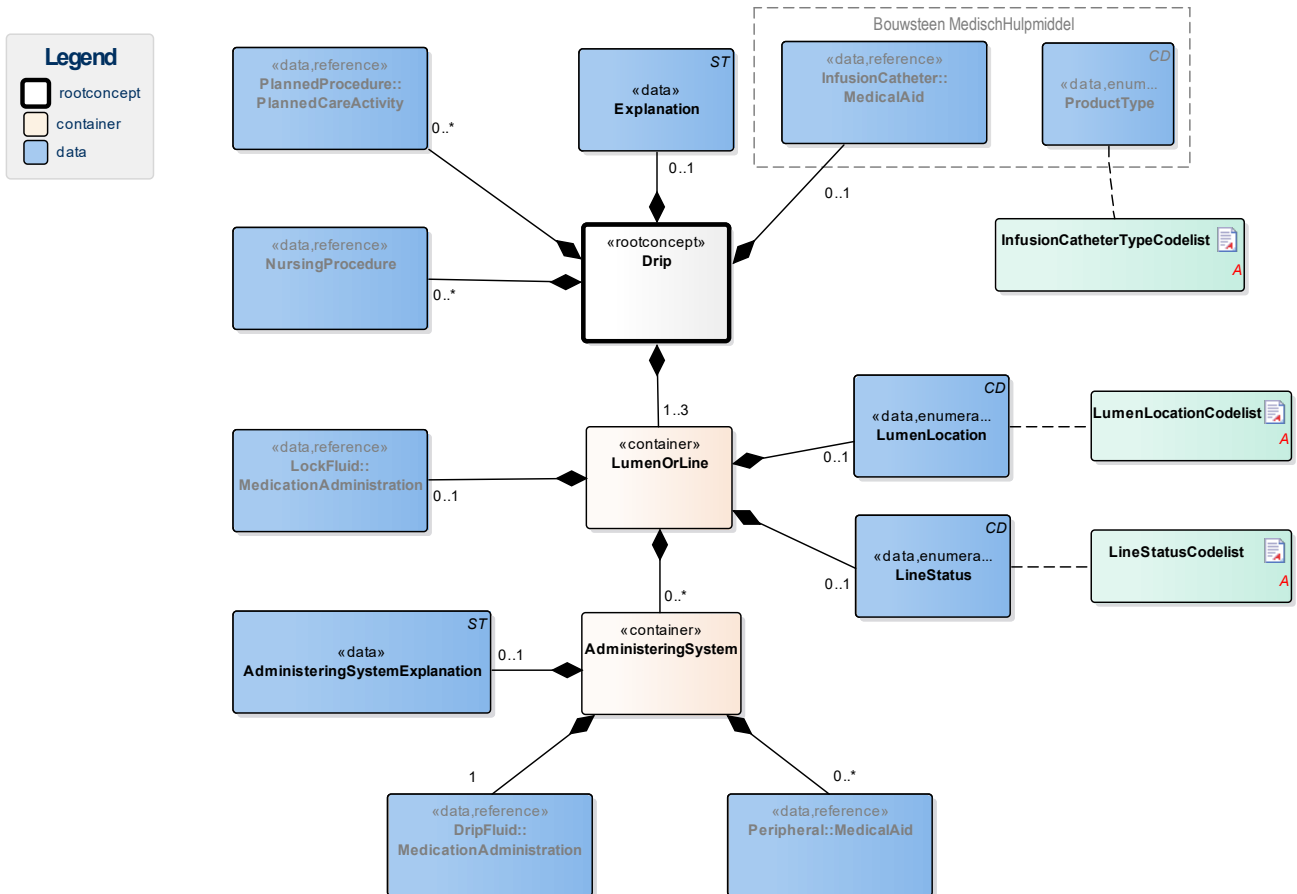
The purpose of a drip is usually to administer fluid and/or medication.

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 building block. This root concept contains all data elements of the Drip building block.	
Datatype		
DCM::ConceptId	NL-CM:10.2.1	
Opties		

«data»	InfusionCatheter::MedicalAid	
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::ConceptId	NL-CM:10.2.3	

DCM::ReferencedConceptId	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::ConceptId	NL-CM:10.1.3	
DCM::ValueSet	InfusionCatheterTypeCodeList	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.1
Opties		

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

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

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

«container»	LumenOrLine	
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::ConceptId	NL-CM:10.2.10	
Opties		

«data»	LineStatus	
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::ConceptId	NL-CM:10.2.9	
DCM::ValueSet	LineStatusCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.3
Opties		

«data»	LumenLocation	
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::ConceptId	NL-CM:10.2.11	
DCM::ValueSet	LumenLocationCodelist	OID: 2.16.840.1.113883.2.4.3.11.60.40.2.10.2.2
Opties		

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

«container»	AdministeringSystem	
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::ConceptId	NL-CM:10.2.7	
Opties		

«data»	DripFluid::MedicationAdministration	
Definitie	The description of the fluid administered through the drip and the dose administered, as given in the medication prescription.	
Datatype		
DCM::ConceptId	NL-CM:10.2.2	
DCM::DefinitionCode	SNOMED CT: 440132002 Parenteral dosage form product	
DCM::ExampleValue	1 liter glucose 5% per 24 uur	

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

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

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

«document»	LineStyleCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.10.2.3	
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»	LumenLocationCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.10.2.2	

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»	InfusionCatheterTypeCodelist	
Definitie		
Datatype		
DCM::ValueSetId	2.16.840.1.113883.2.4.3.11.60.40.2.10.2.1	
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	Infuus pomp
InfuusVloeistof	
ProductNaam	TPV
Inloopsnelheid	1 liter per 24 uur
LumenOfLijn	
Lumen locatie	Mediaal
LijnStatus	Zoutspoelings slot
SlotVloeistof	
ProductNaam	NaCl 0.9 %
Keerdosis	5ml
LumenOfLijn	
LumenLocatie	Distaal
LijnStatus	Lopend
ToedieningsSysteem	
ToedieningssysteemToelichting	-
Randapparaat	
ProductType	Infuus pomp
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	Spuit pomp (perfusor)
InfuusVloeistof	
ProductNaam	NaCl 0,9% + medicatie 5000 E heparine (totaal 48ml)
Inloopsnelheid	2ml per uur
ToedieningsSysteem	
ToedieningssysteemToelichting	-
Randapparaat	
ProductType	Infuus pomp
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

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