



**Adverse Reaction  
Detailed Clinical Model Specification  
Version 3.2**

18 December 2015

Approved for external use

Document ID: NEHTA-2090:2015

**National E-Health Transition Authority Ltd**

Level 25  
56 Pitt Street  
Sydney NSW 2000  
Australia  
[www.nehta.gov.au](http://www.nehta.gov.au)

**Disclaimer**

The National E-Health Transition Authority Ltd (NEHTA) makes the information and other material (“Information”) in this document available in good faith but without any representation or warranty as to its accuracy or completeness. NEHTA cannot accept any responsibility for the consequences of any use of the Information. As the Information is of a general nature only, it is up to any person using or relying on the Information to ensure that it is accurate, complete and suitable for the circumstances of its use.

**Document control**

This document is maintained in electronic form and is uncontrolled in printed form. It is the responsibility of the user to verify that this copy is the latest revision.

**Copyright © 2015 National E-Health Transition Authority Ltd. (NEHTA)**

This document contains information which is protected by copyright. All Rights Reserved. No part of this work may be reproduced or used in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems—without the permission of NEHTA. All copies of this document must include the copyright and other information contained on this page.

# Document Information

## Key Information

---

<b>Owner</b>	Head of Strategy, Architecture and Informatics
<b>Contact for enquiries</b>	NEHTA Help Centre
t:	1300 901 001
e:	<a href="mailto:help@nehta.gov.au">help@nehta.gov.au</a>

---

## Product Version History

---

<b>Product version</b>	<b>Date</b>	<b>Release comments</b>
1.0	29 Jun 2007	Initial public release
1.1	29 Feb 2008	Minor typographical corrections and wording changes in Introduction.
2.0	7 Sep 2009	Updated to incorporate changes made in the version 2.0 of the Discharge Summary Specification.
3.0	24 Aug 2011	New version created in accordance with the archetype from <a href="#">NEHTA Clinical Knowledge Manager</a> <sup>1</sup> .
3.1	22 Dec 2011	This version of the specification is published to support the Structured Content Specifications published (at the end of 2011) that use the versions of the DCMs included in this specification. Changes to the DCMs, included in this specification, are primarily to support the Consolidated View in the PCEHR.
3.2	18 Dec 2015	This specification is published to support the Structured Content Specifications published in the first half of 2015 that use the versions of DCMs included in this specification. Changes to the DCMs included in this specification are primarily to support the Shared Health Summary and Event Summary in the PCEHR.

---

## Related Documents

---

<b>Name</b>	<b>Version/Release Date</b>
<a href="#">Participation Data Specification</a>	Version 3.2, Issued 20 July 2011

---

## Included Detailed Clinical Models

This specification contains the following Detailed Clinical Models:

- Adverse Reaction, version 5.2
- Exclusion Statement - Adverse Reactions, version 1.3

---

<sup>1</sup> <http://dcm.nehta.org.au/ckm>

*This page is intentionally left blank.*

# Acknowledgements

## Council of Australian Governments

The National E-Health Transition Authority is jointly funded by the Australian Government and all State and Territory Governments.

## Regenstrief Institute (LOINC)

This material contains content from LOINC™ (<http://loinc.org>). The LOINC table, LOINC codes, LOINC panels and forms file, and LOINC linguistic variants file are copyright © 1995-2015, Regenstrief Institute, Inc. and the Logical Observation Identifiers Names and Codes (LOINC) Committee and available at no cost under the license at <https://loinc.org/terms-of-use/>. LOINC is a trademark of Regenstrief Institute, Inc., registered in the United States.

## IHTSDO (SNOMED CT)

This material includes SNOMED Clinical Terms™ (SNOMED CT®) which is used by permission of the International Health Terminology Standards Development Organisation (IHTSDO). All rights reserved. SNOMED CT® was originally created by The College of American Pathologists.

“SNOMED” and “SNOMED CT” are registered trademarks of the IHTSDO, (<http://www.ihtsdo.org/>).

## HL7 International

This document includes excerpts of HL7™ International standards and other HL7 International material. HL7 International is the publisher and holder of copyright in the excerpts. The publication, reproduction and use of such excerpts is governed by the HL7 IP Policy (see <http://www.hl7.org/legal/ippolicy.cfm>) and the HL7 International License Agreement. HL7 and CDA are trademarks of Health Level Seven International and are registered with the United States Patent and Trademark Office.

*This page is intentionally left blank.*

# Table of Contents

1. Introduction .....	1
1.1. Purpose and Scope .....	1
1.2. Intended Audience .....	1
1.3. Background .....	1
1.4. Terminology .....	2
2. Adverse Reaction Detailed Clinical Model .....	3
2.1. Purpose .....	3
2.2. Use .....	3
2.3. Misuse .....	4
2.4. UML Class Diagrams .....	4
2.5. ADVERSE REACTION .....	6
2.6. Substance/Agent .....	10
2.7. Substance/Agent Values .....	11
2.8. Absolute Contraindication .....	12
2.9. Adverse Reaction Comment .....	13
2.10. REACTION EVENT .....	14
2.11. Specific Substance/Agent .....	16
2.12. Manifestation .....	17
2.13. Clinical Manifestation Values .....	18
2.14. Reaction Type .....	19
2.15. Adverse Reaction Type Values .....	20
2.16. Adverse Reaction Certainty .....	21
2.17. Adverse Reaction Certainty Values .....	22
2.18. Reaction Description .....	24
2.19. Reaction Onset Date .....	25
2.20. Duration of Reaction .....	26
2.21. ANATOMICAL LOCATION .....	27
2.22. SPECIFIC LOCATION .....	28
2.23. Anatomical Location Name .....	29
2.24. Body Structure Foundation Reference Set .....	30
2.25. Side .....	31
2.26. Laterality Reference Set .....	32
2.27. Numerical Identifier .....	33
2.28. Anatomical Plane .....	34
2.29. RELATIVE LOCATION .....	35
2.30. Identified Landmark .....	36
2.31. Anatomical Location Aspect .....	37
2.32. Distance From Landmark .....	39
2.33. Anatomical Location Description .....	40
2.34. Visual Markings/Orientation .....	41
2.35. Anatomical Location Image .....	42
2.36. Exposure Description .....	43
2.37. Earliest Exposure .....	44
2.38. Duration of Exposure .....	45
2.39. ADDITIONAL EXPOSURE DETAIL .....	46
2.40. AMOUNT OF MEDICATION .....	47
2.41. Quantity .....	48
2.42. Dose Unit .....	49
2.43. Dose Unit Reference Set .....	50
2.44. Quantity Description .....	51
2.45. TIMING .....	52
2.46. Intervention Frequency Range .....	53
2.47. Intervention Interval Range .....	54
2.48. Intervention Time .....	55
2.49. Intervention Day of Week .....	56
2.50. Intervention Day of Month .....	57
2.51. Intervention Date .....	58
2.52. MEDICATION ADMINISTRATION .....	59

2.53. Route .....	61
2.54. Route of Administration Reference Set .....	62
2.55. Anatomical Site .....	63
2.56. Body Structure Foundation Reference Set .....	64
2.57. Medication Delivery Method .....	65
2.58. Dose Duration .....	66
2.59. Intravenous Administration Details .....	67
2.60. Clinical Management Description .....	68
2.61. Multimedia .....	69
2.62. Reporting Details .....	70
2.63. Adverse Reaction Event Comment .....	71
2.64. Reaction Reported .....	72
2.65. Adverse Reaction Report .....	73
2.66. Supporting Clinical Record Information .....	74
2.67. INFORMATION PROVIDER .....	75
2.68. SUBJECT .....	77
2.69. Adverse Reaction Instance Identifier .....	78
2.70. RELATED INFORMATION .....	79
2.71. Link Nature .....	81
2.72. Link Nature Values .....	82
2.73. Link Role .....	84
2.74. Link Role Values .....	85
2.75. Target .....	87
2.76. Detailed Clinical Model Identifier .....	88
3. Exclusion Statement - Adverse Reactions Detailed Clinical Model .....	89
3.1. Purpose .....	89
3.2. Use .....	89
3.3. UML Class Diagrams .....	89
3.4. EXCLUSION STATEMENT - ADVERSE REACTIONS .....	91
3.5. Global Statement .....	93
3.6. Global Statement Values .....	94
3.7. No Known Adverse Reaction to .....	95
3.8. No Known Allergic Reaction to .....	96
3.9. No Known Hypersensitivity Reaction to .....	97
3.10. No Known Intolerance to .....	98
3.11. INFORMATION PROVIDER .....	99
3.12. SUBJECT .....	101
3.13. Exclusion Statement - Adverse Reactions Instance Identifier .....	102
3.14. RELATED INFORMATION .....	103
3.15. Link Nature .....	105
3.16. Link Nature Values .....	106
3.17. Link Role .....	108
3.18. Link Role Values .....	109
3.19. Target .....	111
3.20. Detailed Clinical Model Identifier .....	112
A. Known Issues .....	113
B. Specification Guide for Use .....	115
B.1. Overview .....	115
B.2. The Structured Content Specification Metamodel .....	115
Structured Document .....	116
Context .....	117
Content .....	117
Section .....	117
Data Group .....	117
Participation .....	117
Choice .....	117
Data Element .....	118
Value Domain .....	118
B.3. Icon Legend .....	118
Metadata Types Legend .....	119



Data Types Legend .....	119
Keywords Legend .....	123
Obligation Legend .....	124
B.4. Abnormal and Absent Values .....	125
B.5. Information Model Specification Parts Legends .....	126
Chapter Name .....	126
Identification Section Legend .....	126
Definition Section Legend .....	126
Data Hierarchy .....	127
Sample SCS Data Hierarchy .....	128
Value Domain Section Legend .....	128
Usage Section Legend .....	129
Relationships Section Legend .....	129
C. Change History .....	131
C.1. Changes Since Version 3.1 - 22 December 2011 .....	131
Reference List .....	135
Index .....	137

*This page is intentionally left blank.*

# 1 Introduction

## 1.1 Purpose and Scope

This detailed clinical model (DCM) specification forms part of a suite of data specifications that the National E-Health Transition Authority (NEHTA) is developing for the Australian health informatics community. The suite comprises specifications for a range of health topics (represented as data groups), which are considered to be the most critical to support the work programme given to NEHTA and to realise the benefits derived from Level 4 (semantic) interoperability<sup>1</sup> in the Australian healthcare setting.

NEHTA values your questions and comments about this document. Please direct your questions or feedback to [help@nehta.gov.au](mailto:help@nehta.gov.au).

## 1.2 Intended Audience

This document is intended to be read by jurisdictional information and communication technology (ICT) managers, clinicians involved in clinical information system specifications, software architects and developers, and implementers of clinical information systems in various healthcare settings.

It is reasonably technical in nature and expects the audience to be familiar with the language of health data specification and have some familiarity with health information standards and specifications. Definitions and examples are provided to clarify relevant terminology usage and intent.

## 1.3 Background

There are several e-health priority areas to be addressed by NEHTA specifications. One area of priority is identification of the data to be communicated and its structure. NEHTA is addressing this through data specifications, which detail the data elements (logically grouped) and their associated value domains.

Data specifications need to be independent of messaging formats. They are concerned with providing an information framework in which to achieve semantic interoperability.

Data specifications have been developed:

- Based on jurisdiction and clinician identified priorities;
- Specifically to suit the Australian model for a shared electronic health record (EHR);
- To define collections of related information, e.g. event summaries, data groups, data elements;
- To allow for expansion and extension as electronic systems mature;
- So they are human readable (with information enhanced by the hierarchical structure);
- Incorporating clinical examples of use to enhance utility and adoption; and
- To provide a set of clinical terminologies, specific to the requirements of the Australian healthcare system.

While the Personally Controlled Electronic Health Record (PCEHR) system is referred to in these documents, the implementation of the PCEHR system is not dealt with here.

---

<sup>1</sup>Level 4 interoperability is described in [The Value Of Health Care Information Exchange And Interoperability \[WALJ2005a\]](#).

## 1.4 Terminology

NEHTA, through the National Clinical Terminology and Information Service (NCTIS), is defining a national approach to clinical terminology. Consistent and accurate articulation and interpretation of clinical terms is critical to the process of safe exchange.

The Systematized Nomenclature of Medicine - Clinical Terms (SNOMED CT) has been recommended by NEHTA and endorsed by the Australian, state and territory governments as the preferred clinical terminology for Australia, and is now freely available for e-health software developers to use in their Australian products under International Health Terminology Standards Development Organisation (IHTSDO) licensing arrangements.

While NEHTA's achievement of a national standard clinical terminology is based on SNOMED CT as the foundational resource, local variations and customisation of terms relevant to the Australian healthcare sector will be incorporated. SNOMED CT Australian Release (SNOMED CT-AU) is the Australian extension to SNOMED CT; the integrated national release of SNOMED CT for implementation in Australian deployed clinical IT systems. NEHTA is also developing the Australian Medicines Terminology (AMT) as the designated clinical terminology for medicines available in Australia. The AMT will provide a consistent approach to the identification and naming of medicines, to support medicines management and activity across the Australian healthcare domain. The AMT will be integrated with SNOMED CT-AU in the near future.

Reference sets listed as value domains within this document have been developed taking into account data element and data group definitions, as well as how they align and complement the SNOMED CT concept model. For further information regarding terminology and the development of reference sets please visit <http://www.nehta.gov.au/our-work/clinical-terminology> and direct your questions or feedback to [help@nehta.gov.au](mailto:help@nehta.gov.au).

# 2 Adverse Reaction Detailed Clinical Model

This chapter describes version 5.2 of the *Adverse Reaction* Detailed Clinical Model (DCM).

## 2.1 Purpose

To record health information that will inform a clinical assessment of the propensity of an individual for a future reaction to a substance, class of substance or agent.

To record information about exposure events to a substance, building up a persisting and evolving summary over time.

To record information about any adverse reaction, including:

- immune mediated reactions Types I-IV (including allergic reactions and hypersensitivities), and
- non-immune mediated reactions (including pseudoallergic reactions, side effects, intolerances, drug toxicities (e.g. Gentamicin), drug-drug interactions, food-drug interactions, drug-disease interactions and idiosyncratic reactions).

## 2.2 Use

Use to record all information about adverse reactions (including allergic reactions) that are required to support direct clinical care of an individual, safe exchange of information about adverse reactions and to enable computerised knowledge-based activities such as clinical decision support and alerts.

Use to provide a single place within the health record to record a range of clinical statements about adverse reactions, including:

- recording cumulative information about each exposure to a known substance, class of substance or agent; and
- recording a clinician's opinion that administration of, or exposure to, a substance or agent is absolutely contraindicated.

It can also be used to record an individual's reflections on their adverse reactions.

Use to record the information about an adverse reaction that might be exchanged with other systems, including as part of an adverse reaction report sent to statutory authorities. It is likely that a formal adverse reaction report will require additional information that will be captured in the health record using other data groups, for example medication and problem/diagnosis etc.

This data group has been designed to allow recording of information about a more generic substance, class of substance or agent, and then allow more specific details to be recorded including identification of the specific substance on a per exposure basis, including links to other parts of the health record where further details may be located. Note: it is possible on second or subsequent exposures to a previously identified substance for a reaction not to occur; this data group allows for these events to be closely linked in a way that will assist in determining if the adverse reaction has been incorrectly identified.

In addition, it is anticipated that in some very specific clinical situations, such as immunologist assessment or for use in clinical trials, more information about the adverse reaction may be required.

The act of recording an adverse reaction in the health record implies there is a potential hazard for the individual if they are exposed to the same substance or agent in the future - a relative contraindication. If a clinician considers that it is not safe for the individual to be deliberately re-exposed to the substance or agent again, for

example, following a manifestation of anaphylaxis, the Absolute Contraindication data flag should be recorded as “true”. Note: Conversely, a statement about severity of propensity (with possible values such as mild, moderate and severe) has deliberately not been modelled explicitly. Predicting or estimating the grade of possible severity of a future reaction is not safe to record and persist in data, except where it is absolutely clear that the risk of deliberate re-exposure is unacceptable and highly likely to cause significant harm, such as a previous manifestation of anaphylaxis, and in this case the Absolute Contraindication data flag should be used.

Valuable first-level information that could be presented to the clinician when they need to assess propensity for future reactions are:

- statements about previous clinical manifestations following exposure,
- source of the information or reporter, and
- a flag for absolute contraindication.

Second-level information can be drawn from each exposure event and links to additional detailed information such as history, examination and diagnoses stored elsewhere in the record, if available.

## 2.3 Misuse

- 1) Not to be used for recording the absence (or negative presence) of a reaction to 'any substances' or to identified substances – use the EVALUATION.exclusion family of data groups to express a positive statement of exclusion.
- 2) Not to be used for recording that no information was able to be obtained about the adverse reaction status of a patient. Use the EVALUATION.absent\_information family of data group to record a positive statement of absent information about adverse reactions was able to be obtained, for example, if a non-cooperative patient refuses to answer questions.
- 3) Not to be used to record adverse events, including failures of clinical process, interventions or products. For example: abnormal use or mistakes or errors made in administration of an agent or substance; mislabelling; harm or injury caused by an intervention or procedure; overdose, etc.
- 4) Not to be used for recording alerts.

## 2.4 UML Class Diagrams

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.

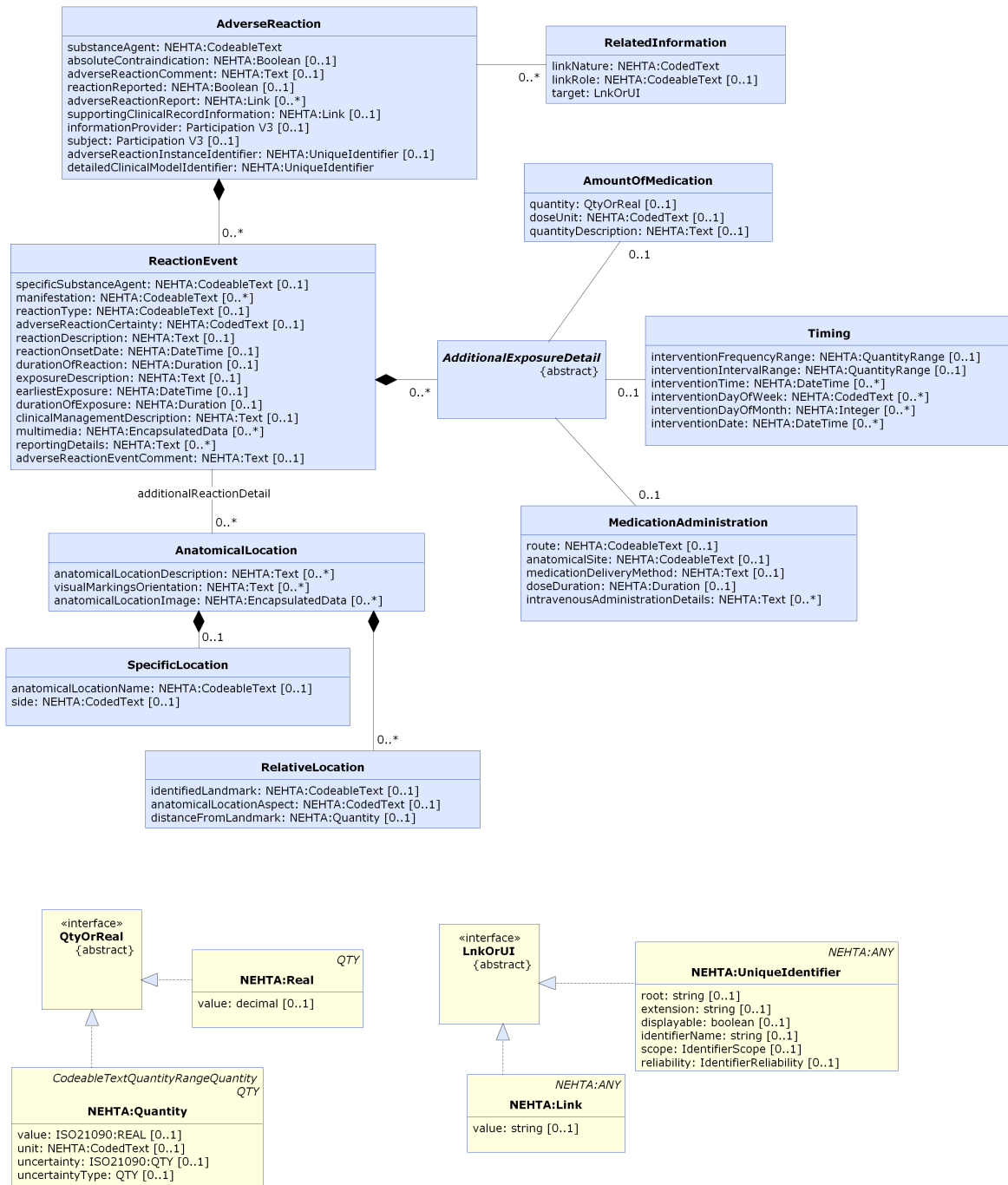


Figure 2.1. Adverse Reaction

## 2.5 ADVERSE REACTION

### Identification

<b>Label</b>	ADVERSE REACTION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-15517
<b>OID</b>	1.2.36.1.2001.1001.101.102.15517

### Definition









<b>Definition</b>	A harmful or undesirable effect associated with exposure to any substance or agent.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Reaction Allergy Sensitivity Intolerance Hypersensitivity Side Effect Toxicity
<b>Scope</b>	Substances and agents include medication at therapeutic or sub-therapeutic doses, food, plants, animals, venom from insect stings and glycoprotein from animals such as cats.
<b>Scope Source</b>	NEHTA

### Data Hierarchy





















































#### Note




Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

		ADVERSE REACTION		
		Substance/Agent		1..1
		Absolute Contraindication		0..1
		Adverse Reaction Comment		0..1
		REACTION EVENT		0..*
		Specific Substance/Agent		0..1
		Manifestation		0..*
		Reaction Type		0..1



		Adverse Reaction Certainty		0..1
		Reaction Description		0..1
		Reaction Onset Date		0..1
		Duration of Reaction		0..1
		Additional Reaction Detail (ANATOMICAL LOCATION)		0..*
			SPECIFIC LOCATION	0..1
			Anatomical Location Name	0..1
			Side	0..1
			Numerical Identifier	0..1
			Anatomical Plane	0..1
			RELATIVE LOCATION	0..*
			Identified Landmark	0..1
			Anatomical Location Aspect	0..1
			Distance From Landmark	0..1
			Anatomical Location Description	0..*
			Visual Markings/Orientation	0..*
			Anatomical Location Image	0..*
			Exposure Description	0..1
			Earliest Exposure	0..1
			Duration of Exposure	0..1
			ADDITIONAL EXPOSURE DETAIL	0..*
			AMOUNT OF MEDICATION	0..1
			Quantity	0..1
			Dose Unit	0..1
			Quantity Description	0..1

			<b>TIMING</b>	0..1
			 Frequency Range ( <a href="#">Intervention Frequency Range</a> )	0..1
			 Interval Range ( <a href="#">Intervention Interval Range</a> )	0..1
			 Time ( <a href="#">Intervention Time</a> )	0..*
			 Day of Week ( <a href="#">Intervention Day of Week</a> )	0..*
			 Day of Month ( <a href="#">Intervention Day of Month</a> )	0..*
			 Date ( <a href="#">Intervention Date</a> )	0..*
			<b>MEDICATION ADMINISTRATION</b>	0..1
			 Route	0..1
			 Site ( <a href="#">Anatomical Site</a> )	0..1
			 Delivery Method ( <a href="#">Medication Delivery Method</a> )	0..1
			 Dose Duration	0..1
			 Intravenous Details ( <a href="#">Intravenous Administration Details</a> )	0..*
			Clinical Management Description	0..1
			Multimedia	0..*
			Reporting Details	0..*
			Adverse Reaction Event Comment	0..1
			Reaction Reported	0..1
			Adverse Reaction Report	0..*
			Supporting Clinical Record Information	0..1
			INFORMATION PROVIDER	0..1
			SUBJECT	0..1
			Adverse Reaction Instance Identifier	0..1
			<b>RELATED INFORMATION</b>	0..*
			Link Nature	1..1

			Link Role	0..1
			Target	1..1
			Detailed Clinical Model Identifier	1..1

## 2.6 Substance/Agent

### Identification

<b>Label</b>	Substance/Agent
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15521
<b>OID</b>	1.2.36.1.2001.1001.101.103.15521

### Definition


<b>Definition</b>	Identification of a substance, agent, or a class of substance, that is considered to be responsible for the adverse reaction.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Agent Substance
<b>Notes</b>	An agent can be a substance such as food, drug or an environmental allergen.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Substance/Agent Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Animal protein</li> <li>2) Latex</li> <li>3) Peanut</li> <li>4) Penicillin</li> <li>5) Bee venom</li> </ol>
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	1..1

## 2.7 Substance/Agent Values

### Identification

<b>Label</b>	Substance/Agent Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-15521
<b>OID</b>	1.2.36.1.2001.1001.101.104.15521

### Definition


<b>Definition</b>	The set of values for the agent or substance causing the adverse reaction experienced by the subject of care.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	NEHTA
<b>Permissible Values</b>	<p>The permissible values are the members of the following 9 reference sets.</p> <p>From SNOMED CT-AU:</p> <ul style="list-style-type: none"> <li>• 142321000036106  <i>Adverse reaction agent reference set</i> </li> <li>• 32570211000036100  <i>Substance foundation reference set</i> </li> </ul> <p>From AMT:</p> <ul style="list-style-type: none"> <li>• 929360061000036106  <i>Medicinal product reference set</i> </li> <li>• 929360081000036101  <i>Medicinal product pack reference set</i> </li> <li>• 929360071000036103  <i>Medicinal product unit of use reference set</i> </li> <li>• 929360021000036102  <i>Trade product reference set</i> </li> <li>• 929360041000036105  <i>Trade product pack reference set</i> </li> <li>• 929360031000036100  <i>Trade product unit of use reference set</i> </li> <li>• 929360051000036108  <i>Containerized trade product pack reference set</i> </li> </ul>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Substance/Agent</a>	1..1

## 2.8 Absolute Contraindication

### Identification

<b>Label</b>	Absolute Contraindication
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16073
<b>OID</b>	1.2.36.1.2001.1001.101.103.16073

### Definition


<b>Definition</b>	A flag indicating that a clinician has identified a propensity for a serious reaction upon further exposure to the substance or agent.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Boolean

### Usage

<b>Conditions of Use</b>	Record as "true" if the clinician assesses that exposure to, or administration of, the agent should be avoided in future.  False is not a valid value for this data element.
<b>Conditions of Use Source</b>	NEHTA
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Boolean</a> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	0..1

## 2.9 Adverse Reaction Comment

### Identification

<b>Label</b>	Adverse Reaction Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15590
<b>OID</b>	1.2.36.1.2001.1001.101.103.15590

### Definition


<b>Definition</b>	Additional narrative about the adverse reaction not captured in other fields, including the reason for flagging an absolute contraindication, instructions related to future exposure, or administration of the substance or agent.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Reaction Note
<b>Notes</b>	Used to provide additional narrative information in relation to the adverse reaction such as finding site or route of administration.
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	ADVERSE REACTION	0..1

## 2.10 REACTION EVENT

### Identification


<b>Label</b>	REACTION EVENT
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16474
<b>OID</b>	1.2.36.1.2001.1001.101.102.16474

### Definition










<b>Definition</b>	Details about each adverse reaction event.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

## Relationships








### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	0..*

### Children

Data Type	Name	Occurrences
	<a href="#">Specific Substance/Agent</a>	0..1
	<a href="#">Manifestation</a>	0..*
	<a href="#">Reaction Type</a>	0..1
	<a href="#">Adverse Reaction Certainty</a>	0..1
	<a href="#">Reaction Description</a>	0..1
	<a href="#">Reaction Onset Date</a>	0..1
	<a href="#">Duration of Reaction</a>	0..1
	<a href="#">Additional Reaction Detail (ANATOMICAL LOCATION)</a>	0..*
	<a href="#">Exposure Description</a>	0..1



Data Type	Name	Occurrences
	Earliest Exposure	0..1
	Duration of Exposure	0..1
	ADDITIONAL EXPOSURE DETAIL	0..*
	Clinical Management Description	0..1
	Multimedia	0..*
	Reporting Details	0..*
	Adverse Reaction Event Comment	0..1

## 2.11 Specific Substance/Agent

### Identification

<b>Label</b>	Specific Substance/Agent
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16349
<b>OID</b>	1.2.36.1.2001.1001.101.103.16349

### Definition


<b>Definition</b>	Specific identification of the substance/agent considered to be responsible for the adverse reaction event.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	This may include a medication trade name.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Substance/Agent Values</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
<b>Misuse</b>	To record broad classes of substance such as "food" or "antibiotic".

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REACTION EVENT</a>	0..1

## 2.12 Manifestation

### Identification

<b>Label</b>	Manifestation
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15564
<b>OID</b>	1.2.36.1.2001.1001.101.103.15564

### Definition


<b>Definition</b>	Presentation or exhibition of signs and symptoms of the adverse reaction expressed as a single word, phrase or brief description.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Reaction
<b>Notes</b>	<p>The clinical manifestation (signs, symptoms, severity or certainty) of the adverse reaction are relevant as they contribute towards the decision as to the immediacy and extent of treatment to be provided, as determined by a healthcare provider.</p> <p>Given that an adverse reaction has occurred, it is important to determine the manifestations of that reaction.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Clinical Manifestation Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Itchy eyes</li> <li>2) Dysphagia</li> <li>3) Tinnitus</li> <li>4) Nausea</li> <li>5) Rash</li> </ol>
-----------------	------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REACTION EVENT</a>	0..*

## 2.13 Clinical Manifestation Values

### Identification

<b>Label</b>	Clinical Manifestation Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-15564
<b>OID</b>	1.2.36.1.2001.1001.101.104.15564

### Definition


<b>Definition</b>	The set of values for recording clinical manifestation of an adverse reaction.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	SNOMED CT-AU
<b>Permissible Values</b>	<p>The permissible values are the members of the following SNOMED CT reference sets:</p> <ul style="list-style-type: none"> <li>• 142341000036103  <i>Clinical manifestation reference set</i> </li> <li>• 32570071000036102  <i>Clinical finding foundation reference set</i> </li> </ul>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Manifestation</a>	1..1

## 2.14 Reaction Type

### Identification

<b>Label</b>	Reaction Type
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15554
<b>OID</b>	1.2.36.1.2001.1001.101.103.15554

### Definition


<b>Definition</b>	The type of reaction, as determined by the clinician.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Context</b>	This field is used to identify the type of adverse reaction as determined by: <ul style="list-style-type: none"> <li>• the signs and symptoms experienced by the subject of care;</li> <li>• information provided by a relevant individual;</li> <li>• previously documented history; and</li> <li>• clinical assessment by a healthcare provider.</li> </ul>
<b>Context Source</b>	NEHTA
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Adverse Reaction Type Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Allergic reaction</li> <li>2) Drug interaction</li> <li>3) Food intolerance</li> <li>4) Hypersensitivity reaction</li> <li>5) Medication side-effect</li> </ol>
-----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REACTION EVENT</a>	0..1

## 2.15 Adverse Reaction Type Values

### Identification

<b>Label</b>	Adverse Reaction Type Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-15554
<b>OID</b>	1.2.36.1.2001.1001.101.104.15554
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 11000036103   <i>Adverse reaction type reference set</i>

### Definition


<b>Definition</b>	The set of values for the type of adverse reaction.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	<a href="#">Reaction Type</a>	1..1

## 2.16 Adverse Reaction Certainty

### Identification

<b>Label</b>	Adverse Reaction Certainty
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15568
<b>OID</b>	1.2.36.1.2001.1001.101.103.15568

### Definition


<b>Definition</b>	Degree of certainty, as assessed by the clinician, that the specific substance/agent was the cause of the reaction.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	It is important to know the degree of certainty of an adverse reaction to an agent/substance as there may be instances where it is not clear whether it is the active agent or a secondary component causing the problem. For example, it may be the filler in a tablet that is the allergen rather than the active drug. Another example is where there is suspicion of a reaction that warrants recording but has not been confirmed objectively, or where a reaction has been recorded but is subsequently discounted following further observation or investigation.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Adverse Reaction Certainty Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Certain</li> <li>2) Probable</li> <li>3) Unlikely</li> </ol>
-----------------	--------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REACTION EVENT</a>	0..1

## 2.17 Adverse Reaction Certainty Values

### Identification

<b>Label</b>	Adverse Reaction Certainty Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-15568
<b>OID</b>	1.2.36.1.2001.1001.101.104.15568

### Definition

<b>Definition</b>	The set of values for the degree of confidence that the agent/substance has caused the adverse reaction.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	WHO-UMC causality assessment system	
<b>Permissible Values</b>	<i>Certain</i>	A clinical event, including laboratory test abnormality, occurring in a plausible time relationship to agent exposure or administration, and which cannot be explained by concurrent disease or other agents or chemicals. The response to withdrawal of the agent (dechallenge) should be clinically plausible. The event must be definitive pharmacologically or phenomenologically, using a satisfactory rechallenge procedure if necessary.
	<i>Probable/Likely</i>	A clinical event, including laboratory test abnormality, with a reasonable time relationship to agent exposure or administration, unlikely to be attributed to concurrent disease or other agents or chemicals, and which follows a clinically reasonable response on withdrawal (dechallenge) Rechallenge information is not required to fulfil this definition.
	<i>Possible</i>	A clinical event, including laboratory test abnormality, with a reasonable time relationship to agent exposure or administration, but which could also be explained by concurrent disease or other agents or chemicals. Information on agent withdrawal may be lacking or unclear.
	<i>Unlikely</i>	A clinical event, including laboratory test abnormality, with a temporal relationship to agent exposure or administration which makes a causal relationship improbable, and in which other agents, chemicals or underlying disease provide plausible explanations.
	<i>Conditional/Unclassified</i>	A clinical event, including laboratory test abnormality, reported as an adverse reaction, about which more data are required for a proper assessment or the additional data are under examination.



*Unassessable/Unclassifiable*

A reported adverse reaction which cannot be judged because information is insufficient or contradictory, and which cannot be supplemented or verified.

## Usage

### Conditions of Use

The value domain options are mutually exclusive and cannot be used in conjunction with each other.

### Conditions of Use Source


Amended from:

- 1) [Harmonisation in Pharmacovigilance \[EDWA1994a\]](#)
- 2) [The use of the WHO-UMC system for standardised case causality assessment \[UMC2011a\]](#)

Note: These sources specifically relate to drug adverse events or pharmacovigilance. Amendments were made to broaden the assessment to all agents that might cause or be suspected of causing an adverse event.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Adverse Reaction Certainty</a>	1..1

## 2.18 Reaction Description

### Identification

<b>Label</b>	Reaction Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15563
<b>OID</b>	1.2.36.1.2001.1001.101.103.15563

### Definition


<b>Definition</b>	Narrative description of the reaction.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Reaction
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Itchy eyes</li> <li>2) Dysphagia</li> <li>3) Tinnitus</li> </ol>
-----------------	------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REACTION EVENT	0..1

## 2.19 Reaction Onset Date

### Identification

<b>Label</b>	Reaction Onset Date
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-15507
<b>OID</b>	1.2.36.1.2001.1001.101.103.15507

### Definition


<b>Definition</b>	Record of the date or time (or both) of the onset of the reaction.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	DateTime Started
<b>Notes</b>	<p>The date or date and time that the specific reaction commenced.</p> <p>Sometimes, the date or age at which a person reacts to an agent is a relevant to understanding a condition, or to determining appropriate treatment. Often, this will be an approximate, self-reported age, date or datetime.</p>
<b>Data Type</b>	DateTime

### Usage

<b>Examples</b>	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a date or time (or both).
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REACTION EVENT	0..1

## 2.20 Duration of Reaction

### Identification

<b>Label</b>	Duration of Reaction
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16352
<b>OID</b>	1.2.36.1.2001.1001.101.103.16352

### Definition


<b>Definition</b>	Length of duration of the reaction.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Duration

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Duration</a> .
-----------------	--------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REACTION EVENT	0..1

## 2.21 ANATOMICAL LOCATION

### Identification


<b>Label</b>	Additional Reaction Detail
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16150
<b>OID</b>	1.2.36.1.2001.1001.101.102.16150

### Definition






<b>Definition</b>	Additional detail about the reaction, including anatomical location.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	REACTION EVENT	0..*

#### Children

Data Type	Name	Occurrences
	SPECIFIC LOCATION	0..1
	RELATIVE LOCATION	0..*
	Anatomical Location Description	0..*
	Visual Markings/Orientation	0..*
	Anatomical Location Image	0..*

## 2.22 SPECIFIC LOCATION

### Identification


<b>Label</b>	SPECIFIC LOCATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16151
<b>OID</b>	1.2.36.1.2001.1001.101.102.16151

### Definition





<b>Definition</b>	Specific and identified anatomical location.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Additional Reaction Detail ( <a href="#">ANATOMICAL LOCATION</a> )	0..1

### Children

Data Type	Name	Occurrences
	<a href="#">Anatomical Location Name</a>	0..1
	<a href="#">Side</a>	0..1
	<a href="#">Numerical Identifier</a>	0..1
	<a href="#">Anatomical Plane</a>	0..1

## 2.23 Anatomical Location Name

### Identification

<b>Label</b>	Anatomical Location Name
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16153
<b>OID</b>	1.2.36.1.2001.1001.101.103.16153

### Definition


<b>Definition</b>	The name of the anatomical location.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Body Structure Foundation Reference Set</a>

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">SPECIFIC LOCATION</a>	0..1

## 2.24 Body Structure Foundation Reference Set

### Identification

<b>Label</b>	Body Structure Foundation Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16152
<b>OID</b>	1.2.36.1.2001.1001.101.104.16152
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570061000036105

### Definition


<b>Definition</b>	The set of values for named anatomical locations.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	<a href="#">Anatomical Location Name</a>	1..1



## 2.25 Side

### Identification

<b>Label</b>	Side
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16336
<b>OID</b>	1.2.36.1.2001.1001.101.103.16336

### Definition


<b>Definition</b>	The laterality of the anatomical location.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Laterality
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Laterality Reference Set</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Right</li> <li>2) Left</li> <li>3) Bilateral</li> </ol>
-----------------	---------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">SPECIFIC LOCATION</a>	0..1

## 2.26 Laterality Reference Set

### Identification

<b>Label</b>	Laterality Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16312
<b>OID</b>	1.2.36.1.2001.1001.101.104.16312
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570611000036103

### Definition


<b>Definition</b>	The set of values for identifying the laterality of an anatomical location.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	Side	1..1

## 2.27 Numerical Identifier

### Identification

<b>Label</b>	Numerical Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16338
<b>OID</b>	1.2.36.1.2001.1001.101.103.16338

### Definition


<b>Definition</b>	An ordinal number that identifies the specific anatomical site from multiple sites.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Conditions of Use</b>	This <b>SHALL</b> be an ordinal number between first and eighteenth.
<b>Conditions of Use Source</b>	NEHTA
<b>Examples</b>	<ol style="list-style-type: none"> <li>1) First, as in 'first rib'.</li> <li>2) Second, as in 'second toe'.</li> <li>3) Third, as in 'third lumbar vertebra'.</li> </ol>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">SPECIFIC LOCATION</a>	0..1

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>

## 2.28 Anatomical Plane

### Identification

<b>Label</b>	Anatomical Plane
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16340
<b>OID</b>	1.2.36.1.2001.1001.101.103.16340

### Definition


<b>Definition</b>	Line describing the position of a vertical anatomical plane in the body.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Midline</li> <li>2) Midclavicular</li> <li>3) Midaxillary</li> <li>4) Midscapular</li> </ol>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	SPECIFIC LOCATION	0..1

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>

## 2.29 RELATIVE LOCATION

### Identification


<b>Label</b>	RELATIVE LOCATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16341
<b>OID</b>	1.2.36.1.2001.1001.101.102.16341

### Definition




<b>Definition</b>	Qualifier(s) to identify a non-specific location.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>An example is: 5cm (distance) inferior (aspect) to the tibial tuberosity (landmark).</p> <p>There may be more than one relative location required to provide a cross reference.</p>

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	Additional Reaction Detail ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

#### Children

Data Type	Name	Occurrences
	<a href="#">Identified Landmark</a>	0..1
	<a href="#">Anatomical Location Aspect</a>	0..1
	<a href="#">Distance From Landmark</a>	0..1

## 2.30 Identified Landmark

### Identification

<b>Label</b>	Identified Landmark
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16343
<b>OID</b>	1.2.36.1.2001.1001.101.103.16343

### Definition


<b>Definition</b>	Identified anatomical landmark from which to specify the relative anatomical location.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>3</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATIVE LOCATION</a>	0..1

<sup>3</sup> <http://www.hl7.org/oid/index.cfm>

## 2.31 Anatomical Location Aspect

### Identification

<b>Label</b>	Anatomical Location Aspect
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16345
<b>OID</b>	1.2.36.1.2001.1001.101.103.16345

### Definition

<b>Definition</b>	Qualifier to identify which direction the anatomical location is in relation to the identified landmark.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>4</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.


### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Medial to: Relative location medial to the landmark.</li> <li>2) Lateral to: Relative location lateral to the landmark.</li> <li>3) Superior to: Relative location superior to the landmark.</li> <li>4) Inferior to: Relative location inferior to the landmark.</li> <li>5) Anterior to: Relative location anterior to the landmark.</li> <li>6) Posterior to: Relative location posterior to the landmark.</li> <li>7) Below: Relative location below the landmark.</li> <li>8) Above: Relative location above the landmark.</li> <li>9) Inferolateral to: Relative location inferior and lateral to the landmark.</li> <li>10) Superolateral to: Relative location superior and lateral to the landmark.</li> <li>11) Inferomedial to: Relative location inferior and medial to the landmark.</li> <li>12) Superomedial to: Relative location superior and medial to the landmark.</li> </ol>
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<sup>4</sup> <http://www.hl7.org/oid/index.cfm>

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	RELATIVE LOCATION	0..1



## 2.32 Distance From Landmark

### Identification

<b>Label</b>	Distance From Landmark
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16346
<b>OID</b>	1.2.36.1.2001.1001.101.103.16346

### Definition


<b>Definition</b>	Distance of location from the identified landmark.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Quantity

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Quantity</a> .
-----------------	--------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATIVE LOCATION</a>	0..1

## 2.33 Anatomical Location Description

### Identification

<b>Label</b>	Anatomical Location Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16319
<b>OID</b>	1.2.36.1.2001.1001.101.103.16319

### Definition


<b>Definition</b>	Description of the anatomical location.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Additional Reaction Detail ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

## 2.34 Visual Markings/Orientation

### Identification

<b>Label</b>	Visual Markings/Orientation
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16407
<b>OID</b>	1.2.36.1.2001.1001.101.103.16407

### Definition


<b>Definition</b>	Description of any visual markings used to orientate the viewer.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) External reference points</li> <li>2) Special sutures</li> <li>3) Ink markings</li> </ol>
-----------------	-------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Additional Reaction Detail ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

## 2.35 Anatomical Location Image

### Identification

<b>Label</b>	Anatomical Location Image
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16199
<b>OID</b>	1.2.36.1.2001.1001.101.103.16199

### Definition


<b>Definition</b>	An image or images used to identify a location.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Context</b>	This element is intended to be an image, e.g. a photo of the anatomical site such as a wound on the leg.
<b>Context Source</b>	NEHTA
<b>Data Type</b>	EncapsulatedData

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">EncapsulatedData</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Additional Reaction Detail ( <a href="#">ANATOMICAL LOCATION</a> )	0..*

## 2.36 Exposure Description

### Identification

<b>Label</b>	Exposure Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16477
<b>OID</b>	1.2.36.1.2001.1001.101.103.16477

### Definition


<b>Definition</b>	Description about exposure to the substance/agent.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REACTION EVENT</a>	0..1

## 2.37 Earliest Exposure

### Identification

<b>Label</b>	Earliest Exposure
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16372
<b>OID</b>	1.2.36.1.2001.1001.101.103.16372

### Definition


<b>Definition</b>	Record of the date or time (or both) of the earliest or initial exposure to the substance/agent.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime

### Usage

<b>Examples</b>	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a date or time (or both).
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REACTION EVENT	0..1

## 2.38 Duration of Exposure

### Identification

<b>Label</b>	Duration of Exposure
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16373
<b>OID</b>	1.2.36.1.2001.1001.101.103.16373

### Definition


<b>Definition</b>	Length of duration of exposure.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	Used to describe the length of exposure to a substance/agent triggering a specific reaction event.
<b>Data Type</b>	Duration

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Duration</a> .
-----------------	--------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REACTION EVENT</a>	0..1

## 2.39 ADDITIONAL EXPOSURE DETAIL

### Identification


<b>Label</b>	ADDITIONAL EXPOSURE DETAIL
<b>Metadata Type</b>	Choice
<b>Identifier</b>	C-16478
<b>OID</b>	1.2.36.1.2001.1001.101.105.16478

### Definition




<b>Definition</b>	Additional detail about exposure/s for this reaction event, including structured medication amount information.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REACTION EVENT	0..*

### Children

Data Type	Name	Occurrences
	AMOUNT OF MEDICATION	0..1
	TIMING	0..1
	MEDICATION ADMINISTRATION	0..1



## 2.40 AMOUNT OF MEDICATION

### Identification


<b>Label</b>	AMOUNT OF MEDICATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16423
<b>OID</b>	1.2.36.1.2001.1001.101.102.16423

### Definition





<b>Definition</b>	Additional detail about exposure/s for this reaction event, including structured medication amount information.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Used to record additional details of exposure to a substance/agent that triggered the adverse reaction event.
<b>Scope Source</b>	NEHTA

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADDITIONAL EXPOSURE DETAIL</a>	0..1

#### Children

Data Type	Name	Occurrences
 	<a href="#">Quantity</a>	0..1
	<a href="#">Dose Unit</a>	0..1
	<a href="#">Quantity Description</a>	0..1

## 2.41 Quantity

### Identification

<b>Label</b>	Quantity
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-10145
<b>OID</b>	1.2.36.1.2001.1001.101.103.10145

### Definition


<b>Definition</b>	The quantity, number or proportion.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	The number of doses or physical amount of the therapeutic good.
<b>Data Type</b>	Real Quantity

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Real</a> , and <a href="#">Quantity</a> .
-----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">AMOUNT OF MEDICATION</a>	0..1

## 2.42 Dose Unit

### Identification

<b>Label</b>	Dose Unit
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16524
<b>OID</b>	1.2.36.1.2001.1001.101.103.16524

### Definition


<b>Definition</b>	The dose unit of this amount.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Dose Unit Reference Set</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Tablets</li> <li>2) Capsules</li> <li>3) Sachets</li> <li>4) mg</li> <li>5) mL</li> </ol>
-----------------	-------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">AMOUNT OF MEDICATION</a>	0..1

## 2.43 Dose Unit Reference Set

### Identification

<b>Label</b>	Dose Unit Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16523
<b>OID</b>	1.2.36.1.2001.1001.101.104.16523
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570641000036102

### Definition


<b>Definition</b>	The set of values for dose unit.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	<a href="#">Dose Unit</a>	1..1

## 2.44 Quantity Description

### Identification

<b>Label</b>	Quantity Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16525
<b>OID</b>	1.2.36.1.2001.1001.101.103.16525

### Definition


<b>Definition</b>	Free text description of the amount which may consist of the quantity and dose unit.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	AMOUNT OF MEDICATION	0..1

## 2.45 TIMING

### Identification


<b>Label</b>	TIMING
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16431
<b>OID</b>	1.2.36.1.2001.1001.101.102.16431

### Definition







<b>Definition</b>	Details of the timing of the use or administration of the medicine, vaccine or other therapeutic good.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	It is for recording timing of exposure to the substance or agent, including medication or vaccine.

### Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADDITIONAL EXPOSURE DETAIL</a>	0..1

#### Children

Data Type	Name	Occurrences
	Frequency Range ( <a href="#">Intervention Frequency Range</a> )	0..1
	Interval Range ( <a href="#">Intervention Interval Range</a> )	0..1
	Time ( <a href="#">Intervention Time</a> )	0..*
	Day of Week ( <a href="#">Intervention Day of Week</a> )	0..*
	Day of Month ( <a href="#">Intervention Day of Month</a> )	0..*
	Date ( <a href="#">Intervention Date</a> )	0..*

## 2.46 Intervention Frequency Range

### Identification

<b>Label</b>	Frequency Range
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16547
<b>OID</b>	1.2.36.1.2001.1001.101.103.16547

### Definition


<b>Definition</b>	The frequency as number of times per time period that the intervention is to take place.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	Includes details of variable upper and lower frequency e.g. 3-4 times a day.
<b>Data Type</b>	QuantityRange

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">QuantityRange</a> .
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	TIMING	0..1

## 2.47 Intervention Interval Range

### Identification

<b>Label</b>	Interval Range
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16548
<b>OID</b>	1.2.36.1.2001.1001.101.103.16548

### Definition


<b>Definition</b>	The length of time between doses or interventions.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	8 Hourly is PT8H, monthly is P1M, every hour and a half is PT1H30M.  Includes details of variable upper and lower intervals e.g. every 2-3 hours.
<b>Data Type</b>	QuantityRange

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">QuantityRange</a> .
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	TIMING	0..1



## 2.48 Intervention Time

### Identification

Label	Time
Metadata Type	Data Element
Identifier	DE-16549
OID	1.2.36.1.2001.1001.101.103.16549

### Definition


Definition	Specific time(s) during the day when the intervention should be applied.
Definition Source	NEHTA
Synonymous Names	
Data Type	DateTime

### Usage

Conditions of Use	This <b>SHALL NOT</b> contain a date component.
Conditions of Use Source	NEHTA
Examples	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a time.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	TIMING	0..*

## 2.49 Intervention Day of Week

### Identification

<b>Label</b>	Day of Week
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16551
<b>OID</b>	1.2.36.1.2001.1001.101.103.16551

### Definition


<b>Definition</b>	The specific and repeating day(s) of the week.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>5</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Monday</li> <li>2) Wednesday</li> <li>3) Friday</li> <li>4) Sunday</li> </ol>
-----------------	-------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	TIMING	0..*

<sup>5</sup> <http://www.hl7.org/oid/index.cfm>

## 2.50 Intervention Day of Month

### Identification

Label	Day of Month
Metadata Type	Data Element
Identifier	DE-16552
OID	1.2.36.1.2001.1001.101.103.16552

### Definition


Definition	The specific and repeating day(s) of the month.
Definition Source	NEHTA
Synonymous Names	
Notes	If it is required to give a dose on the 2nd day of each month, then the value is 2.
Data Type	Integer

### Usage

Examples	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Integer</a> .
----------	-------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	TIMING	0..*

## 2.51 Intervention Date

### Identification

<b>Label</b>	Date
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16553
<b>OID</b>	1.2.36.1.2001.1001.101.103.16553

### Definition


<b>Definition</b>	Actual dates.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	DateTime

### Usage

<b>Examples</b>	Please see <a href="#">DateTime</a> in <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information on specifying a date or time (or both).
-----------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	TIMING	0..*

## 2.52 MEDICATION ADMINISTRATION

### Identification

<b>Label</b>	MEDICATION ADMINISTRATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-10108
<b>OID</b>	1.2.36.1.2001.1001.101.102.10108

### Definition


<b>Definition</b>	Details about the administration of the medicine, vaccine or other therapeutic good.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Scope</b>	Used to describe the exposure mechanism to the substance or agent. This includes the route, anatomical site, and delivery methods of medications.
<b>Scope Source</b>	NEHTA

### Usage





<b>Conditions of Use</b>	This data group is repeated for every instance of medication administration being recorded.
<b>Conditions of Use Source</b>	NEHTA

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADDITIONAL EXPOSURE DETAIL</a>	0..1

#### Children

Data Type	Name	Occurrences
	<a href="#">Route</a>	0..1
	Site ( <a href="#">Anatomical Site</a> )	0..1
	Delivery Method ( <a href="#">Medication Delivery Method</a> )	0..1
	<a href="#">Dose Duration</a>	0..1

---

Data Type	Name	Occurrences
	Intravenous Details ( <a href="#">Intravenous Administration Details</a> )	0..*

## 2.53 Route

### Identification

<b>Label</b>	Route
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-10147
<b>OID</b>	1.2.36.1.2001.1001.101.103.10147

### Definition


<b>Definition</b>	The route by which the medication is administered.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	Route of Administration
<b>Notes</b>	It is used to describe the path or channel by which the substance/agent is introduced or gains access into a patient's body. This includes the route for which medication is administered.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Route of Administration Reference Set</a>

### Usage

<b>Conditions of Use</b>	Use "Unknown" only for retrospective data collection.
<b>Conditions of Use Source</b>	NEHTA
<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Oral</li> <li>2) Subcutaneous injection</li> <li>3) Epidural</li> <li>4) Rectal</li> <li>5) Otic</li> </ol>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">MEDICATION ADMINISTRATION</a>	0..1

## 2.54 Route of Administration Reference Set

### Identification

<b>Label</b>	Route of Administration Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-10147
<b>OID</b>	1.2.36.1.2001.1001.101.104.10147
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570601000036100

### Definition


<b>Definition</b>	A list of all possible routes of administration of medication.
<b>Definition Source</b>	NEHTA
<b>Notes</b>	Set of allowable values to describe the way through which a medication is administered to/by the subject of care.

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	Route	1..1



## 2.55 Anatomical Site

### Identification

<b>Label</b>	Site
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-10156
<b>OID</b>	1.2.36.1.2001.1001.101.103.10156

### Definition


<b>Definition</b>	A description of the site of administration.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	Location on or in the body of the subject of care where the substance/agent entered the body or therapeutic good was administered.
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Body Structure Foundation Reference Set</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Left thigh</li> <li>2) Upper arm</li> <li>3) Entire left renal artery</li> </ol>
-----------------	----------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">MEDICATION ADMINISTRATION</a>	0..1

## 2.56 Body Structure Foundation Reference Set

### Identification

<b>Label</b>	Body Structure Foundation Reference Set
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16152
<b>OID</b>	1.2.36.1.2001.1001.101.104.16152
<b>External Identifier</b>	SNOMED CT-AU Concept Id: 32570061000036105

### Definition


<b>Definition</b>	The set of values for named anatomical locations.
<b>Definition Source</b>	NEHTA

### Value Domain

<b>Source</b>	SNOMED CT-AU
---------------	--------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
 001011001	Site ( <a href="#">Anatomical Site</a> )	1..1

## 2.57 Medication Delivery Method

### Identification

<b>Label</b>	Delivery Method
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16470
<b>OID</b>	1.2.36.1.2001.1001.101.103.16470

### Definition


<b>Definition</b>	The method of delivery if this should be specified.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) Delivery via nebuliser or spacer.</li> <li>2) Delivery via syringe pump.</li> </ol>
-----------------	-------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	MEDICATION ADMINISTRATION	0..1

## 2.58 Dose Duration

### Identification

<b>Label</b>	Dose Duration
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16471
<b>OID</b>	1.2.36.1.2001.1001.101.103.16471

### Definition


<b>Definition</b>	The length of time over which to administer each dose.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Duration

### Usage

<b>Examples</b>	1) An intravenous injection may be administered over a period of 5 minutes.
-----------------	-----------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	MEDICATION ADMINISTRATION	0..1

## 2.59 Intravenous Administration Details

### Identification

<b>Label</b>	Intravenous Details
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16634
<b>OID</b>	1.2.36.1.2001.1001.101.105.16634

### Definition


<b>Definition</b>	Details of intravenous administration.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	This free text data element is currently a placeholder for further structured data that is as yet undefined. See <a href="#">Appendix A, Known Issues</a> for further information.
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information.
-----------------	--------------------------------------------------------------------------------------------------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">MEDICATION ADMINISTRATION</a>	0..*

## 2.60 Clinical Management Description

### Identification

<b>Label</b>	Clinical Management Description
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16482
<b>OID</b>	1.2.36.1.2001.1001.101.103.16482

### Definition


<b>Definition</b>	Description about the clinical management provided.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Conditions of Use</b>	Used to describe details about clinical management provided to manage or treat the adverse reaction.
<b>Conditions of Use Source</b>	NEHTA
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REACTION EVENT	0..1

## 2.61 Multimedia

### Identification

<b>Label</b>	Multimedia
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16376
<b>OID</b>	1.2.36.1.2001.1001.101.103.16376

### Definition


<b>Definition</b>	Inclusion of any multimedia file to support the recording of the reaction event.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	An example is a photo of a rash or presentation with angioneurotic oedema.
<b>Data Type</b>	EncapsulatedData

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">EncapsulatedData</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REACTION EVENT</a>	0..*

## 2.62 Reporting Details

### Identification

<b>Label</b>	Reporting Details
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16631
<b>OID</b>	1.2.36.1.2001.1001.101.105.16631

### Definition


<b>Definition</b>	Further details required for reporting to regulatory bodies.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	This free text data element is currently a placeholder for further structured data that is as yet undefined. See <a href="#">Appendix A, <i>Known Issues</i></a> for further information.
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, <i>Specification Guide for Use</i></a> for examples and usage information.
-----------------	---------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	REACTION EVENT	0..*



## 2.63 Adverse Reaction Event Comment

### Identification

<b>Label</b>	Adverse Reaction Event Comment
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16483
<b>OID</b>	1.2.36.1.2001.1001.101.103.16483

### Definition


<b>Definition</b>	Further comment about the reaction event.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Text

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Text</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">REACTION EVENT</a>	0..1

## 2.64 Reaction Reported

### Identification

<b>Label</b>	Reaction Reported
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16379
<b>OID</b>	1.2.36.1.2001.1001.101.103.16379

### Definition


<b>Definition</b>	Was the adverse reaction reported to a regulatory body?
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Boolean

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Boolean</a> .
-----------------	-------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	0..1

## 2.65 Adverse Reaction Report

### Identification

<b>Label</b>	Adverse Reaction Report
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16484
<b>OID</b>	1.2.36.1.2001.1001.101.103.16484

### Definition


<b>Definition</b>	Link to an adverse reaction report sent to a regulatory body.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Link

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	0..*

## 2.66 Supporting Clinical Record Information

### Identification

<b>Label</b>	Supporting Clinical Record Information
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16485
<b>OID</b>	1.2.36.1.2001.1001.101.103.16485

### Definition


<b>Definition</b>	Link to further information about the presentation and findings that exist elsewhere in the health record.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	Examples of further information are presenting symptoms, examination findings, and diagnoses.
<b>Data Type</b>	Link

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> .
-----------------	----------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	0..1

## 2.67 INFORMATION PROVIDER

### Identification

Label	INFORMATION PROVIDER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	Details pertinent to the identification of the source of the adverse reaction information.
Definition Source	NEHTA
Synonymous Names	
Notes	<p>This does not have to be a person and, in particular, does not have to be a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software.</li> </ul>

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Information Provider".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul>
Conditions of Use Source	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	ADVERSE REACTION	0..1

## 2.68 SUBJECT

### Identification

Label	SUBJECT
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	The individual about whom the adverse reaction information is being recorded.
Definition Source	NEHTA
Synonymous Names	
Scope	Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing Structured Document is assumed.
Scope Source	NEHTA

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to “Subject”.</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
Conditions of Use Source	NEHTA

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	0..1

## 2.69 Adverse Reaction Instance Identifier

### Identification

<b>Label</b>	Adverse Reaction Instance Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16697
<b>OID</b>	1.2.36.1.2001.1001.101.103.16697

### Definition


<b>Definition</b>	A globally unique identifier for each instance of an <i>Adverse Reaction</i> evaluation.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	-----------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	0..1



## 2.70 RELATED INFORMATION

### Identification


<b>Label</b>	RELATED INFORMATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16692
<b>OID</b>	1.2.36.1.2001.1001.101.102.16692

### Definition


<b>Definition</b>	Information held elsewhere that is relevant to this instance of a data component.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>Items of related information include, but are not limited to, documents, parts of documents, images and web pages.</p> <p>“Elsewhere” includes elsewhere in the same document.</p> <p>1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items.</p> <p>Links are only to be used between instances of DCMs or documents, i.e. between objects representing complete domain concepts. This is because relationships between sub-elements of whole concepts are not necessarily meaningful and may be confusing.</p> <p>When the item of related information is a complete document (including images) or a web page (or part thereof) an appropriate specialisation of the <i>Related Information</i> data group should be used.</p> <p>The document or other data component instance containing the <i>Related Information</i> data group is called the <i>source</i>. The related information is called the <i>target</i>.</p>



## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	ADVERSE REACTION	0..*

### Children

Data Type	Name	Occurrences
	Link Nature	1..1

Data Type	Name	Occurrences
	Link Role	0..1
	Target	1..1

## 2.71 Link Nature

### Identification

<b>Label</b>	Link Nature
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16698
<b>OID</b>	1.2.36.1.2001.1001.101.103.16698

### Definition


<b>Definition</b>	The general semantic category of the relationship between this instance of this detailed clinical model (DCM), i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and receiver.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Link Nature Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) is related to</li> <li>2) is confirmed by or authorised by</li> <li>3) is related to the same problem or health issue</li> </ol>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 2.72 Link Nature Values

### Identification

<b>Label</b>	Link Nature Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16698
<b>OID</b>	1.2.36.1.2001.1001.101.104.16698
<b>External Identifier</b>	LINK_NATURE

### Definition

<b>Definition</b>	Set of values for the general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA

### Value Domain


<b>Source</b>	ISO 13606-3:2009	
<b>Permissible Values</b>	The permissible values are those specified in Termlist LINK_NATURE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> . They are listed here.	
	LINK-A0, is related to	A generic category for any Link, the details of which will be given by the value of Link Role.
	LINK-B0, is confirmed by or authorised by	The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].
	LINK-C0, is related to the same problem or health issue	The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.
	LINK-D0, is related to the same care plan, act or episode	The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both might be related milestones.

LINK-E0, is a related documentation

The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Link Nature	1..1

## 2.73 Link Role

### Identification

<b>Label</b>	Link Role
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16699
<b>OID</b>	1.2.36.1.2001.1001.101.103.16699

### Definition


<b>Definition</b>	The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.</p> <p>This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Link Role Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) unspecified link</li> <li>2) suggests</li> <li>3) endorses</li> <li>4) evidence for</li> <li>5) outcome</li> <li>6) is documented by</li> <li>7) excerpts</li> </ol>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	0..1

## 2.74 Link Role Values

### Identification

<b>Label</b>	Link Role Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16699
<b>OID</b>	1.2.36.1.2001.1001.101.104.16699
<b>External Identifier</b>	LINK_ROLE

### Definition

<b>Definition</b>	Set of values for the detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Context</b>	These values are used within the context of the value of the <i>Link Nature</i> data element. They provide greater specificity and may be selected more for human readership than for interoperable automated processing.
<b>Context Source</b>	NEHTA

### Value Domain

<b>Source</b>	ISO 13606-3:2009										
<b>Permissible Values</b>	<p>Values <b>SHOULD</b> be from Termlist LINK_ROLE in ISO 13606-3:2009 <a href="#">[ISO2009a]</a>.</p> <p>Values <b>MAY</b> be from any suitable terminology.</p> <p>Some values from Termlist LINK_ROLE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> are:</p> <table border="1"> <tr> <td>LINK-A1, unspecified link</td> <td>The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.</td> </tr> <tr> <td>LINK-A2, suggests</td> <td>The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.</td> </tr> <tr> <td>LINK-B1, endorses</td> <td>The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-C3, evidence for</td> <td>The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-D1, outcome</td> <td>The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.</td> </tr> </table>	LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.	LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.	LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.	LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.	LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.
LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.										
LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.										
LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.										
LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.										
LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.										


	LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
	LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

## Usage

<b>Conditions of Use</b>	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string “LINK-”. For example the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value <b>SHALL</b> be used from <i>Link Nature Values</i> .
<b>Conditions of Use Source</b>	ISO 13606-3:2009

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Link Role	1..1



## 2.75 Target

### Identification

<b>Label</b>	Target
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16700
<b>OID</b>	1.2.36.1.2001.1001.101.103.16700

### Definition


<b>Definition</b>	The “linked to” or identified information.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Link UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> , and <a href="#">UniquelIdentifier</a> .
-----------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 2.76 Detailed Clinical Model Identifier

### Identification

<b>Label</b>	Detailed Clinical Model Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16693
<b>OID</b>	1.2.36.1.2001.1001.101.103.16693

### Definition


<b>Definition</b>	A globally unique identifier for this Detailed Clinical Model.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Conditions of Use</b>	The value of this item <b>SHALL</b> be either the default value or a semantically equivalent value from an appropriate code system.
<b>Conditions of Use Source</b>	NEHTA
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
<b>Default Value</b>	1.2.36.1.2001.1001.101.102.15517

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">ADVERSE REACTION</a>	1..1

# 3 Exclusion Statement - Adverse Reactions Detailed Clinical Model

This chapter describes version 1.3 of the *Exclusion Statement - Adverse Reactions* Detailed Clinical Model (DCM).

## 3.1 Purpose

To positively record the absence or exclusion of any adverse reactions within the health record.

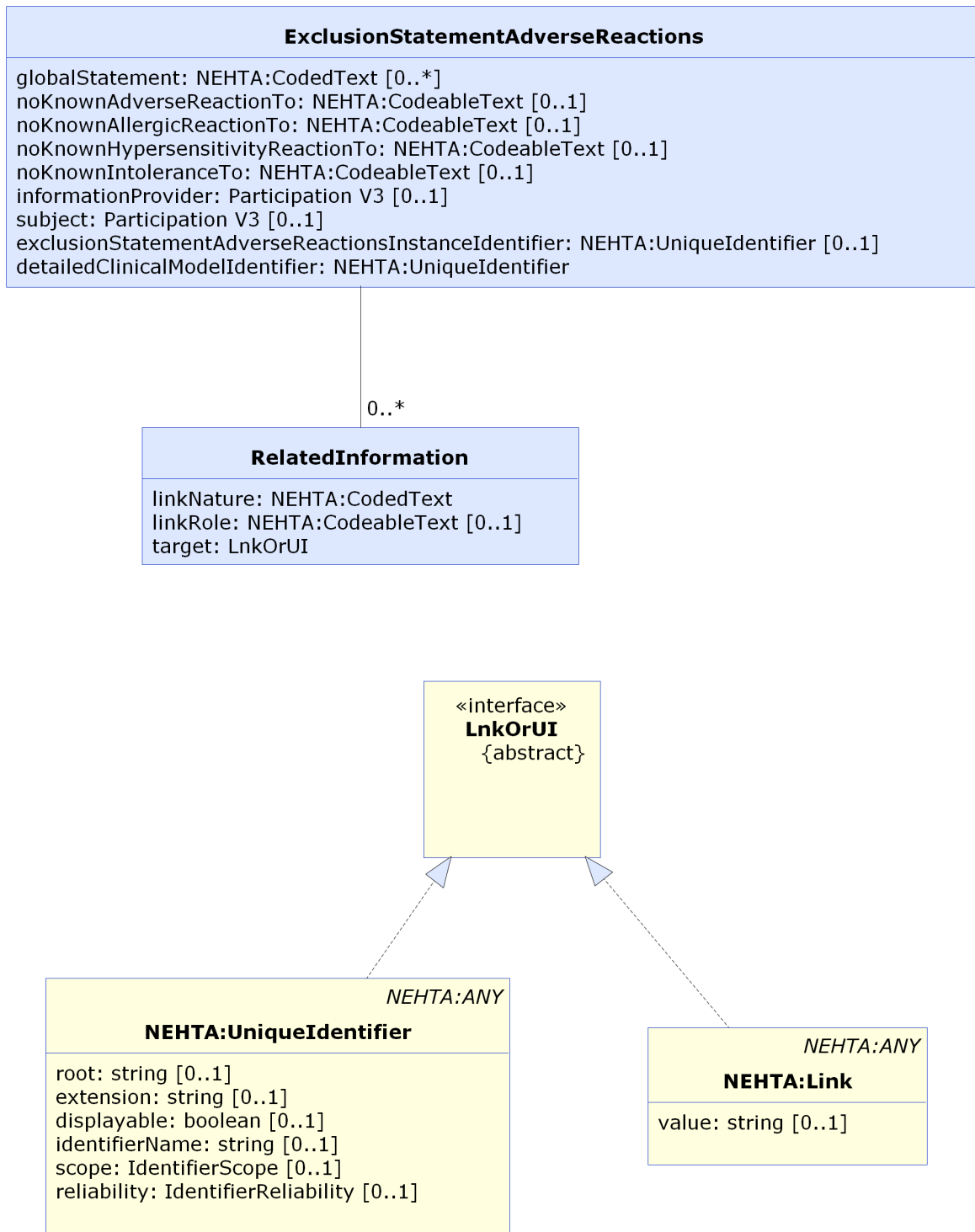
## 3.2 Use

Use to record the positive exclusion or absence of adverse reactions within the health record. This Detailed Clinical Model (DCM) avoids the need to use terminology to express negation about any item within the health record.

It is important to note that the Exclusion Statement information is time-specific. Its validity may not extend beyond the point in time when the information is recorded. The patient should always be asked to verify previous statements about adverse reactions to a substance.

## 3.3 UML Class Diagrams

The following figure represents the data hierarchy using a UML 2.0 class diagram. The diagram displays data groups and data elements, together with their names, data types and multiplicities. Data elements are displayed as attributes; data groups are displayed as classes; their label names are represented as association role names. Association role names are only displayed if they differ from the associated class name. When a data element has a choice of data types, the data type of the attribute that represents it is an abstract interface class generalised from the individual data types. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.



**Figure 3.1. Exclusion Statement for Adverse Reaction**

## 3.4 EXCLUSION STATEMENT - ADVERSE REACTIONS

### Identification

<b>Label</b>	EXCLUSION STATEMENT - ADVERSE REACTIONS
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16137
<b>OID</b>	1.2.36.1.2001.1001.101.102.16137

### Definition










<b>Definition</b>	Statements about adverse reactions that need to be positively recorded as absent or excluded.
<b>Definition Source</b>	openEHR Foundation
<b>Scope</b>	To positively record the absence or exclusion of any adverse reactions within the health record.
<b>Scope Source</b>	openEHR Foundation







### Data Hierarchy



#### Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

 EXCLUSION STATEMENT - ADVERSE REACTIONS		
	 Global Statement	0..*
	 No Known Adverse Reaction to	0..1
	 No Known Allergic Reaction to	0..1
	 No Known Hypersensitivity Reaction to	0..1
	 No Known Intolerance to	0..1
	 INFORMATION PROVIDER	0..1
	 SUBJECT	0..1
	 Exclusion Statement - Adverse Reactions Instance Identifier	0..1

		RELATED INFORMATION		0..*
			Link Nature	1..1
			Link Role	0..1
		 	Target	1..1
		Detailed Clinical Model Identifier		1..1

## 3.5 Global Statement

### Identification

<b>Label</b>	Global Statement
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16302
<b>OID</b>	1.2.36.1.2001.1001.101.103.16302

### Definition


<b>Definition</b>	The statement about the absence or exclusion.
<b>Definition Source</b>	openEHR Foundation
<b>Synonymous Names</b>	
<b>Context</b>	This can be used to capture any information that is needed to be explicitly recorded within the record as being absent or excluded.
<b>Context Source</b>	openEHR Foundation
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Global Statement Values</a>

### Usage

<b>Conditions of Use</b>	The value <b>SHALL NOT</b> be 02 (“Not asked”).
<b>Conditions of Use Source</b>	NEHTA
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodedText</a> .

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXCLUSION STATEMENT - ADVERSE REACTIONS</a>	0..*

## 3.6 Global Statement Values

### Identification

<b>Label</b>	Global Statement Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16299
<b>OID</b>	1.2.36.1.2001.1001.101.104.16299

### Definition


<b>Definition</b>	The set of values for the global statements about the exclusion.
<b>Definition Source</b>	openEHR Foundation

### Value Domain

<b>Source</b>	NEHTA
<b>Permissible Values</b>	<p>01, None known    No information about adverse reactions to any substance is known.</p> <p>02, Not asked    No information about adverse reactions to any substance is available because the patient was not asked or not able to be asked.</p> <p>03, None supplied    No information about adverse reactions to any substance is supplied.</p> <p>Please see <a href="#">Appendix A, Known Issues</a>.</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">Global Statement</a>	1..1



## 3.7 No Known Adverse Reaction to Identification

<b>Label</b>	No Known Adverse Reaction to
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16305
<b>OID</b>	1.2.36.1.2001.1001.101.103.16305

### Definition


<b>Definition</b>	Positive statement about adverse reactions to substances that are explicitly known to have not been identified at the time of recording.
<b>Definition Source</b>	openEHR Foundation
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>1</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXCLUSION STATEMENT - ADVERSE REACTIONS</a>	0..1

<sup>1</sup> <http://www.hl7.org/oid/index.cfm>

## 3.8 No Known Allergic Reaction to

### Identification

<b>Label</b>	No Known Allergic Reaction to
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16306
<b>OID</b>	1.2.36.1.2001.1001.101.103.16306

### Definition


<b>Definition</b>	Positive statement about allergic reactions to substances that are explicitly known to have not been identified at the time of recording.
<b>Definition Source</b>	openEHR Foundation
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>2</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXCLUSION STATEMENT - ADVERSE REACTIONS</a>	0..1

<sup>2</sup> <http://www.hl7.org/oid/index.cfm>

## 3.9 No Known Hypersensitivity Reaction to

### Identification

<b>Label</b>	No Known Hypersensitivity Reaction to
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16307
<b>OID</b>	1.2.36.1.2001.1001.101.103.16307

### Definition


<b>Definition</b>	Positive statement about hypersensitivity reactions to substances that are explicitly known to have not been identified at the time of recording.
<b>Definition Source</b>	openEHR Foundation
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>3</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

#### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXCLUSION STATEMENT - ADVERSE REACTIONS</a>	0..1

<sup>3</sup> <http://www.hl7.org/oid/index.cfm>

## 3.10 No Known Intolerance to

### Identification

<b>Label</b>	No Known Intolerance to
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16308
<b>OID</b>	1.2.36.1.2001.1001.101.103.16308

### Definition


<b>Definition</b>	Positive statement about intolerances to substances that are explicitly known to have not been identified at the time of recording.
<b>Definition Source</b>	openEHR Foundation
<b>Synonymous Names</b>	
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the <a href="#">HL7 code set registration procedure</a> <sup>4</sup> with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.
	When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">CodeableText</a> .
-----------------	------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXCLUSION STATEMENT - ADVERSE REACTIONS</a>	0..1

<sup>4</sup> <http://www.hl7.org/oid/index.cfm>

## 3.11 INFORMATION PROVIDER

### Identification

Label	INFORMATION PROVIDER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	The party who was the source of the information.
Definition Source	NEHTA
Synonymous Names	
Scope	Generally only used when the recorder needs to make it explicit. Otherwise, the author of the enclosing Structured Document is assumed.
Scope Source	NEHTA
Notes	<p>This does not have to be a person and, in particular, does not have to be a healthcare provider. Types of sources include:</p> <ul style="list-style-type: none"> <li>• the subject of care;</li> <li>• a subject of care agent, e.g. parent, guardian;</li> <li>• the clinician; and</li> <li>• a device or software.</li> </ul>

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the provider of the information is not the <i>Composer/Author</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Information Provider".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON or as a DEVICE.</li> </ul>
Conditions of Use Source	NEHTA

# Relationships

## Parents

Data Type	Name	Occurrences (child within parent)
	EXCLUSION STATEMENT - ADVERSE REACTIONS	0..1

## 3.12 SUBJECT

### Identification

Label	SUBJECT
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

### Definition


Definition	The individual about whom the adverse reaction information is being recorded.
Definition Source	NEHTA
Synonymous Names	
Scope	Generally only used when the recorder needs to make it explicit. Otherwise, the subject of the enclosing Structured Document is assumed.
Scope Source	NEHTA

### Usage

Conditions of Use	<p>This <b>SHALL NOT</b> be used unless the subject of the information is not the <i>Subject of Care</i> of the enclosing Structured Document.</p> <p>This is a reuse of the <i>PARTICIPATION</i> data group, which is described in <a href="#">Participation Data Specification [NEHT2011v]</a>.</p> <p>The following constraints are additional to those specified in <a href="#">Participation Data Specification [NEHT2011v]</a>. Constraints are explained in <a href="#">Appendix B, Specification Guide for Use</a>.</p> <ul style="list-style-type: none"> <li>• Participation Type <b>SHALL</b> have an implementation-specific value equivalent to "Subject".</li> <li>• PERSON OR ORGANISATION OR DEVICE <b>SHALL</b> be instantiated as a PERSON.</li> </ul>
Conditions of Use Source	NEHTA

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXCLUSION STATEMENT - ADVERSE REACTIONS</a>	0..1

## 3.13 Exclusion Statement - Adverse Reactions Instance Identifier

### Identification

<b>Label</b>	Exclusion Statement - Adverse Reactions Instance Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16712
<b>OID</b>	1.2.36.1.2001.1001.101.103.16712

### Definition


<b>Definition</b>	A globally unique object identifier for each instance of an <i>Exclusion Statement - Adverse Reactions</i> evaluation.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
-----------------	-----------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXCLUSION STATEMENT - ADVERSE REACTIONS</a>	0..1



## 3.14 RELATED INFORMATION

### Identification


<b>Label</b>	RELATED INFORMATION
<b>Metadata Type</b>	Data Group
<b>Identifier</b>	DG-16692
<b>OID</b>	1.2.36.1.2001.1001.101.102.16692

### Definition




<b>Definition</b>	Information held elsewhere that is relevant to this instance of a data component.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>Items of related information include, but are not limited to, documents, parts of documents, images and web pages.</p> <p>“Elsewhere” includes elsewhere in the same document.</p> <p>1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items. 1:1 and 1:N relationships between instances of DCMs can be expressed by using one, or more than one, respectively, links. Chains of links can be used to see problem threads or other logical groupings of items.</p> <p>Links are only to be used between instances of DCMs or documents, i.e. between objects representing complete domain concepts. This is because relationships between sub-elements of whole concepts are not necessarily meaningful and may be confusing.</p> <p>When the item of related information is a complete document (including images) or a web page (or part thereof) an appropriate specialisation of the <i>Related Information</i> data group should be used.</p> <p>The document or other data component instance containing the <i>Related Information</i> data group is called the <i>source</i>. The related information is called the <i>target</i>.</p>

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	EXCLUSION STATEMENT - ADVERSE REACTIONS	0..*

**Children**

Data Type	Name	Occurrences
	Link Nature	1..1
	Link Role	0..1
	Target	1..1

## 3.15 Link Nature

### Identification

<b>Label</b>	Link Nature
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16698
<b>OID</b>	1.2.36.1.2001.1001.101.103.16698

### Definition


<b>Definition</b>	The general semantic category of the relationship between this instance of this detailed clinical model (DCM), i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs or document. This attribute is intended to be a coarse-grained category that can be used to enable interoperability between sender and receiver.
<b>Data Type</b>	CodedText
<b>Value Domain</b>	<a href="#">Link Nature Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) is related to</li> <li>2) is confirmed by or authorised by</li> <li>3) is related to the same problem or health issue</li> </ol>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 3.16 Link Nature Values

### Identification

<b>Label</b>	Link Nature Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16698
<b>OID</b>	1.2.36.1.2001.1001.101.104.16698
<b>External Identifier</b>	LINK_NATURE

### Definition

<b>Definition</b>	Set of values for the general semantic category of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA

### Value Domain


<b>Source</b>	ISO 13606-3:2009	
<b>Permissible Values</b>	The permissible values are those specified in Termlist LINK_NATURE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> . They are listed here.	
	LINK-A0, is related to	A generic category for any Link, the details of which will be given by the value of Link Role.
	LINK-B0, is confirmed by or authorised by	The target link contains [an instance of a DCM or document] that acts as the legal or clinical basis for the activity documented in the source [DCM instance], or is a declaration of intent to provide (or not to provide) requested care. This Link is to be used to connect two [DCM instances or DCM and document], as opposed to the inclusion of a corroborating or authorising participant as an identified party within a single [DCM instance or document].
	LINK-C0, is related to the same problem or health issue	The target [instance of a DCM or document] documents health or health care that pertains to the same clinical situation as the source [DCM instance]. One of the two might be defining a problem for which the other is a manifestation, or the relationship might for example be cause and effect, stages in an evolving clinical history, a different interpretation of an observation, a clinical indication or contraindication.
	LINK-D0, is related to the same care plan, act or episode	The source and the target [instances of DCM or documents] are each documenting parts of the same care plan, act or episode. One of the two might be defining the same care plan, act or episode, or both might be related milestones.

LINK-E0, is a related documentation

The target [instance of a DCM or document] is an alternative documentary form of the source [DCM instance], such as re-expression of the same clinical information or additional supplementary explanatory information.

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Link Nature	1..1

## 3.17 Link Role

### Identification

<b>Label</b>	Link Role
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16699
<b>OID</b>	1.2.36.1.2001.1001.101.103.16699

### Definition


<b>Definition</b>	The detailed semantic description of the relationship between this instance of this DCM (i.e. the source), and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Notes</b>	<p>This is one of two attributes that together communicate the semantics of the relationship between the source and target DCMs. This attribute provides for a specific description of the actual role played by the target in relation to the source.</p> <p>This attribute may be populated from any suitable terminology, and therefore might support human readership better than interoperable automated processing.</p>
<b>Data Type</b>	CodeableText
<b>Value Domain</b>	<a href="#">Link Role Values</a>

### Usage

<b>Examples</b>	<ol style="list-style-type: none"> <li>1) unspecified link</li> <li>2) suggests</li> <li>3) endorses</li> <li>4) evidence for</li> <li>5) outcome</li> <li>6) is documented by</li> <li>7) excerpts</li> </ol>
-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	0..1

## 3.18 Link Role Values

### Identification

<b>Label</b>	Link Role Values
<b>Metadata Type</b>	Value Domain
<b>Identifier</b>	VD-16699
<b>OID</b>	1.2.36.1.2001.1001.101.104.16699
<b>External Identifier</b>	LINK_ROLE

### Definition

<b>Definition</b>	Set of values for the detailed semantic description of the relationship between this instance of this DCM, i.e. the source, and the target DCM instance or target document.
<b>Definition Source</b>	NEHTA
<b>Context</b>	These values are used within the context of the value of the <i>Link Nature</i> data element. They provide greater specificity and may be selected more for human readership than for interoperable automated processing.
<b>Context Source</b>	NEHTA

### Value Domain

<b>Source</b>	ISO 13606-3:2009										
<b>Permissible Values</b>	<p>Values <b>SHOULD</b> be from Termlist LINK_ROLE in ISO 13606-3:2009 <a href="#">[ISO2009a]</a>.</p> <p>Values <b>MAY</b> be from any suitable terminology.</p> <p>Some values from Termlist LINK_ROLE in <a href="#">ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists [ISO2009a]</a> are:</p> <table border="1"> <tr> <td>LINK-A1, unspecified link</td> <td>The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.</td> </tr> <tr> <td>LINK-A2, suggests</td> <td>The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.</td> </tr> <tr> <td>LINK-B1, endorses</td> <td>The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-C3, evidence for</td> <td>The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.</td> </tr> <tr> <td>LINK-D1, outcome</td> <td>The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.</td> </tr> </table>	LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.	LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.	LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.	LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.	LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.
LINK-A1, unspecified link	The term is used when no semantic information is available for this Link in the EHR system from which the EXTRACT has been created.										
LINK-A2, suggests	The interpretation expressed in the target component is a possible cause or outcome of the findings documented in the source component.										
LINK-B1, endorses	The interpretation expressed in the source component provides confirmatory evidence or a confirmatory opinion of the interpretation expressed in the target component.										
LINK-C3, evidence for	The observation or interpretation documented in the source component provides confirmatory evidence of the interpretation expressed in the target component.										
LINK-D1, outcome	The clinical situation documented in the target component is the direct outcome of the situation documented in the source component.										


LINK-E1, documented by	A clinical situation documented in the source component is more formally documented in the target component.
LINK-E4, excerpts	The source component is an extract (copy) of part or all of the information contained within the target component.

## Usage

<b>Conditions of Use</b>	Each of the link terms in LINK_ROLE from ISO 13606-3:2009 is a subcategory of a corresponding term in <i>Link Nature Values</i> , where that correspondence is indicated by the first letter after the code string “LINK-”. For example the term LINK-A1 is a subcategory of term LINK-A0. If a term in this list is used for the <i>Link Role</i> data element, the appropriate corresponding value <b>SHALL</b> be used from <i>Link Nature Values</i> .
<b>Conditions of Use Source</b>	ISO 13606-3:2009

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	Link Role	1..1



## 3.19 Target

### Identification

<b>Label</b>	Target
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16700
<b>OID</b>	1.2.36.1.2001.1001.101.103.16700

### Definition


<b>Definition</b>	The “linked to” or identified information.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	Link UniquelIdentifier

### Usage

<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">Link</a> , and <a href="#">UniquelIdentifier</a> .
-----------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">RELATED INFORMATION</a>	1..1

## 3.20 Detailed Clinical Model Identifier

### Identification

<b>Label</b>	Detailed Clinical Model Identifier
<b>Metadata Type</b>	Data Element
<b>Identifier</b>	DE-16693
<b>OID</b>	1.2.36.1.2001.1001.101.103.16693

### Definition


<b>Definition</b>	A globally unique identifier for this Detailed Clinical Model.
<b>Definition Source</b>	NEHTA
<b>Synonymous Names</b>	
<b>Data Type</b>	UniquelIdentifier

### Usage

<b>Conditions of Use</b>	The value of this item <b>SHALL</b> be either the default value or a semantically equivalent value from an appropriate code system.
<b>Conditions of Use Source</b>	NEHTA
<b>Examples</b>	Please see <a href="#">Appendix B, Specification Guide for Use</a> for examples and usage information for <a href="#">UniquelIdentifier</a> .
<b>Default Value</b>	1.2.36.1.2001.1001.101.102.16137

## Relationships

### Parents

Data Type	Name	Occurrences (child within parent)
	<a href="#">EXCLUSION STATEMENT - ADVERSE REACTIONS</a>	1..1

# Appendix A. Known Issues

This appendix lists known issues with this specification at the time of publishing. NEHTA is working on solutions to these issues, and we encourage comments to further assist with the development of these solutions.

Reference	Description
Links to external resources	If a link (usually in references section) spans several lines, certain PDF readers have problems opening it.
Data Hierarchy	This Detailed Clinical Model (DCM) has not yet been fully mapped to HL7 CDA. Mapping to CDA may reveal inconsistencies, in the data hierarchy requiring normative change.
Continuous Improvement	In the Detailed Clinical Models (DCM) defined in this document only those data components that are currently used in NEHTA Structure Content Specifications (SCS) have been reviewed and revised for this publication. A more extensive review will be undertaken in the future.
UML Class Diagrams	The representation of data component names and labels with stereotypes and names is not good UML practice. It will be changed when a diagramming tool that supports an appropriate representation is adopted by NEHTA.
Quantity	The correctness of the solution presented in this specification is uncertain; this data element needs to be able to cater for quantities of non-medications.
Anatomical Site Data Element	In the future this data element needs to be updated in order to cater for administration of non-medications.
Global Statement Values Data Element	The list of permissible values is a sample set to initiate discussion and collaboration to develop the correct set of values.
Exclusion Statement	The Exclusion Statement DCMs are the subject of ongoing development and review and will change in the future.
Undefined Value Domains	<p>The following data elements lack a defined value domain: <i>Numerical Identifier, Anatomical Plane, Identified Landmark, Anatomical Location Aspect, Intervention Day of Week, No Known Adverse Reaction to, No Known Allergic Reaction to, No Known Hypersensitivity Reaction to, and No Known Intolerance to.</i></p> <p>NEHTA is in the process of developing national code sets for these items. In the meantime, you are free to use your own code set(s), providing any code set used <b>SHALL</b> be registered, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available. Note that when national standard code set(s) do become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.</p>
Undefined Data Structures	<p>The following data components lack a defined data structure: <i>Intravenous Administration Details and Reporting Details.</i></p> <p>A free text data element is currently used as an interim solution.</p>

*This page is intentionally left blank.*

# Appendix B. Specification Guide for Use

## B.1 Overview

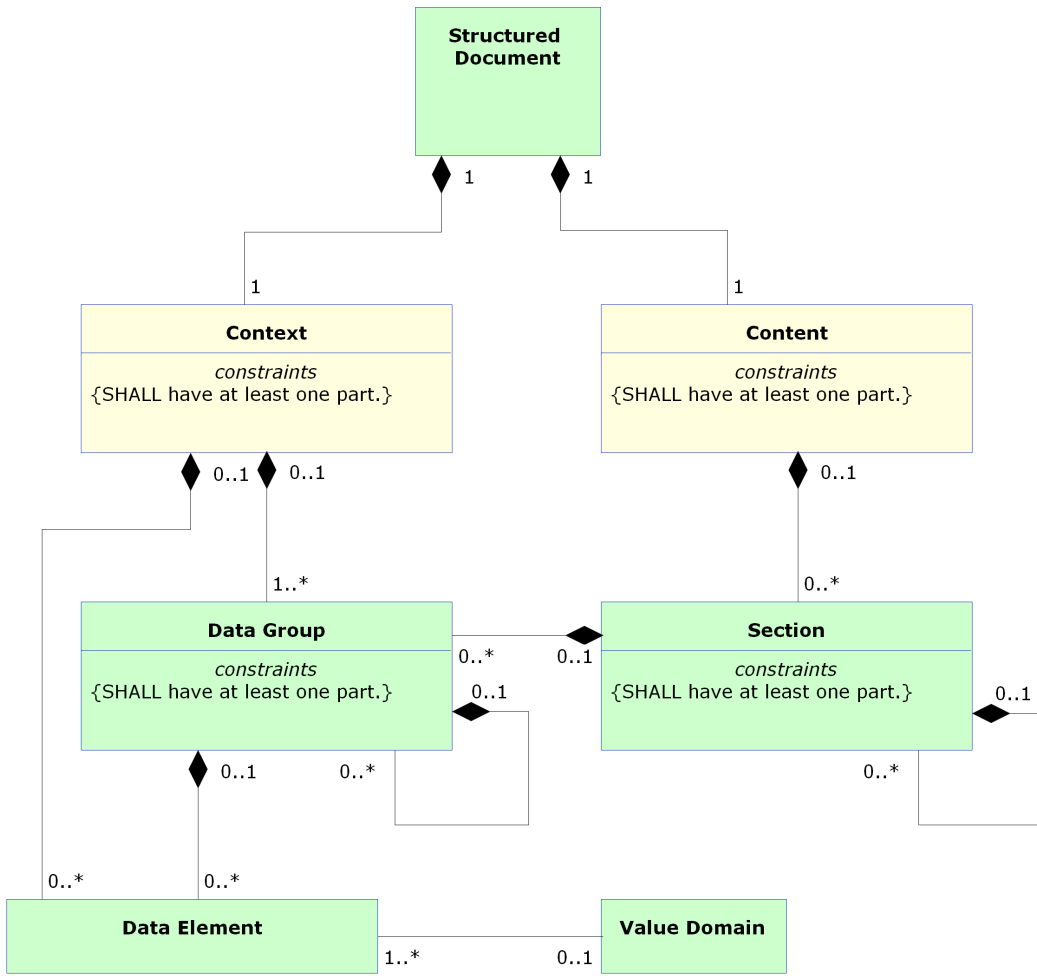
Each detailed clinical model (DCM) and structured content specification (SCS) is designed to be a shared basis for data interpretation. It specifies rigorous business and technical definitions of data which systems may need to share. It is intended to be a logical specification of the data to be persisted within or communicated between systems. It is also the foundation for the compliance, conformance, and declaration process. NEHTA's CDA implementation guides are guides to the implementation of HL7 CDA R2 messages based upon these DCMs and SCSs.

Each DCM specifies all of the data components required for any use of a clinical concept; for instance, an entry in a medical record such as a procedure or an imaging test. As such, they are maximal data sets. DCMs are building blocks which are trimmed to size for use in the construction of SCSs.

Each SCS describes a template of a [Structured Document](#). It specifies the data for a single type of clinical document or information exchange, such as a discharge summary. It is assembled using DCMs that have been constrained to eliminate data components not relevant to the particular context. For example, *Procedure* in a discharge summary uses only some of the data components required by *Procedure* in a specialist report.

## B.2 The Structured Content Specification Metamodel

The NEHTA metamodel for structured content specifications (see Figure 1) is used to specify the overall structure of a structured content specification. The structure is a tree, so every item in the tree, other than the root node, has a parent node. For an SCS, the root node is a Structured Document. For a DCM, the root node is a Data Group.



**Figure 1: SCS Metamodel**

There are two main items used to organise information within an SCS as follows:

- Context: This contains information related to the overall context of the document.
- Content: This contains information that changes between different SCSs, but is always structured as shown in Figure 1, and consists of the following data components:
  - Section
  - Data Group
  - Data Element
  - Value Domain

These data components are described in more detail below.

## Structured Document

A structured document is a collection of health information about a subject of care that is relevant to the ongoing care of that person. They are composed of one or more data groups and data elements that are organised into

sections. Examples of structured documents are *Discharge Summary*, *Shared Health Summary*, and *Advance Care Directive Custodian Record*.

## Context

The purpose of the context is to identify and classify the document and to provide subjects of care and involved healthcare providers with the information related to the relevant healthcare events.

## Content

Content contains a collection of personal information and health information pertinent to a subject of care which is derived from the healthcare event described in the document. The detail is organised into one or more data groups which are optionally grouped into sections.

## Section

A section is composed of other sections, data groups, or both. It is an organising container that gives the reader a clue as to the expected content. A section organises information in a manner suitable for the primary purpose for which it is collected and provides a way to navigate through the data components within the document, thereby enabling more efficient querying. It is recommended that the section support safe reuse for secondary purposes, e.g. clinical coding or inclusion in a summarised form in an electronic health record. A section is context-specific to the document in which it resides.

## Data Group

Each data group is used to represent one concept. A data group consists of other data groups, data elements, or both. Some data groups are reused across DCMs.

Every instance of a data group **SHALL** have at least one child data component instantiated.

## Participation

Participation is a special case of a data group that is based on a data group template, which is reused throughout the DCMs and SCSs. Participations are an amalgam of the Actors (see below) operating within a defined healthcare domain and the Roles they are playing within that domain.

A Participant has been defined to align with the concepts of NEHTA's [Interoperability Framework \[NEHT2007b\]](#). It equates to an *Entity* that is related to the action described in an SCS as an *Actor*. A Participant can be a human, an organisation, or an IT system.

NEHTA's [Participation Data Specification \[NEHT2011v\]](#) defines the full Participation specification.

## Choice

Choice represents a selection, to be made at run-time, of a single member from a set of data groups, where the set is defined at design-time, i.e. one and only one member of the set is chosen for each instance of the choice.

For example, at design-time a healthcare provider provides a service, but it is not until run-time that a decision can be made as to whether the provider is a person or an organisation. Hence, when a healthcare provider *Participant* is instantiated, it will contain either an instance of the *Person* data group or an instance of the *Organisation* data group.

## Data Element

A data element is the smallest named unit of information in the model that can be assigned a value. For example, *DateTime of Observation* and *Observation Note*. Data elements are bound to data types (see [Data Types Legend](#)). Some data elements are reused in different data groups.

While all data elements are constrained by their data type, some data elements are further constrained by value domains (see [Value Domain](#) below).

## Value Domain

A value domain constrains the permissible values for a data element. The values are often a subset of values based on a generic data type.

Value domains are reusable items, therefore the same value domain can be referred to by different data elements in different contexts. Value domains are often specified with reference to a *reference set*. A reference set is a constrained list of SNOMED CT-AU concepts that are appropriate to a particular context or use. Since many of these reference sets have been developed specifically for the context in which they appear, it is recommended that an assessment of fitness for purpose be undertaken before using any of the reference sets in another context.

Value domains constrain either by specifying a lower or upper bound (or both) on the range of permissible values or by specifying a finite set of prescribed values. Such a set of prescribed values can be specified directly within the definition of the data element, or in a separate but associated specification, or else by reference to one or more vocabulary or terminology reference sets. The table below provides some examples of value domains.

**Table 1: Value Domain Examples**

Data Element	Data Type	Example of Value Domain										
Sex	CodedText	<a href="#">Standards Australia AS 4846 (2006) – Health Care Provider Identification [SA2006a]</a> and <a href="#">Standards Australia AS 5017 (2006) – Health Care Client Identification [SA2006b]</a> derive their values from METeOR 287316 which includes values such as: <table border="1" data-bbox="651 1301 1431 1532"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Male</td> </tr> <tr> <td>2</td> <td>Female</td> </tr> <tr> <td>3</td> <td>Intersex or Indeterminate</td> </tr> <tr> <td>9</td> <td>Not Stated/Inadequately Described</td> </tr> </tbody> </table>	Value	Meaning	1	Male	2	Female	3	Intersex or Indeterminate	9	Not Stated/Inadequately Described
Value	Meaning											
1	Male											
2	Female											
3	Intersex or Indeterminate											
9	Not Stated/Inadequately Described											
Diagnosis	CodeableText	A SNOMED CT-AU reference set which references concepts such as “Bronchitis” (Concept ID: 32398004).										
Therapeutic Good Identification	CodeableText	An AMT reference set which references concepts such as “Ibuprofen Blue (Herron) (ibuprofen 200 mg) tablet: film-coated, 1 tablet” (Concept ID: 54363011000036107).										
Individual Pathology Test Result Name	CodeableText	A LOINC subset which references concepts such as “Cholesterol [Moles/volume] in Serum or Plasma” (ID: 14647-2).										

## B.3 Icon Legend






These legends describe all icons that are used in NEHTA's DCMs and SCSs.



## Metadata Types Legend

The following table explains each of the icons used to represent the metadata types within DCMs and SCSs.



**Table 2: Metadata Types Legend**

Icon	Metadata Types
	Structured Document
	Section
	Data Group
	Participation
	Choice

## Data Types Legend

The following table explains each of the icons used to represent the data types bound to each data element in the SCSs. These data types are a profile of the **ISO 21090-2011** data types as specified in [Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification \[NEHT2010c\]](#).

**Table 3: Data Types Legend**

Icon	Data type	Explanation
	Any (ISO 21090: ANY)	Use of this icon indicates that the data type to be used is conditional on another data component.  The values that can be required will vary considerably depending on the context. This is an abstract data type that is the basis for all data types and <b>SHOULD NOT</b> be used in an actual implementation.
	Boolean (ISO 21090: BL)	A data type, sometimes called the logical data type, having one of the two values: <i>true</i> and <i>false</i> .  Many systems represent true as <i>non-zero</i> (often 1, or -1) and false as <i>zero</i> .  <b>Usage/Examples</b>  • An actual value entered by a user might be “yes” or could be chosen by a mouse click on an icon such as <input checked="" type="checkbox"/> .



CodeableText  
(ISO 21090: CD)

Coded text *with* exceptions; supports various ways of holding text, both free text and coded text.

Often used to support compliance for early adopters of the structured content specifications.

While it is recommended that the values in this data type come from the bound value domain, it allows other value domains to also be used (with or without translations to the bound value domain) or free text alternatives. This is useful when it is not possible to define an entire value domain for a complex concept (e.g. *Diagnosis*) and when there are competing code sets in existence. Note that within exchange specifications or message profiles this data type **MAY** be constrained to mandate compliance with the bound value domain.

#### Usage/Examples

- The Australian Institute of Health and Welfare (AIHW) defines a data element concept *Episode of admitted patient care-separation mode* (the status at separation of a subject of care and the place to which they are released). An early adopter could have a similar concept (coded or otherwise) that maps to this data element but does not strictly comply with the AIHW values.
- A SNOMED CT-AU coded/complex expression that embodies single or multiple concepts. The SNOMED CT-AU concepts behind these CodeableText data elements are specified in the structured content specification value domains.



CodedText  
(ISO 21090: CD)

Coded text *without* exceptions; text with code mappings. Values in this data type **SHALL** come from the bound value domain, with no exceptions.

Often used for reference sets with only a small number of applicable values, e.g. Gender and Document Status.

#### Usage/Examples

[Standards Australia AS 5017 \(2006\) – Health Care Client Identification \[SA2006b\]](#) specifies the following value domain representing a type of address:

Value	Meaning
1	Business
2	Mailing or Postal
3	Temporary Accommodation
4	Residential (permanent)
9	Not Stated/Unknown/Inadequately Described



DateTime  
(ISO 21090: TS)

A single date, optionally with a time of day.






Has the ability to indicate a level of precision, but not whether the date or time is estimated. Cannot represent a time alone.

String representations of known dates **SHALL** conform to the format within the **ISO 21090-2011** standard without the use of extensions, i.e. YYYY[MM[DD[HH[MM[SS[U[U[U[U]]]]]]][+|-ZZzz].

#### Usage/Examples

- Partial dates: 2008, 20081001.
- To indicate 1:20 pm on May the 31st, 1999 for a time zone which is 10 hours ahead of Coordinated Universal Time (UTC): 19990531132000+1000.

---

	<b>Duration</b> (ISO 21090: PQ.TIME)	<p>The period of time during which something continues.</p> <p>Consists of a value and a unit which represents the time value, e.g. hours, months.</p> <p>Compound durations are not allowed, e.g. 10 days 3 weeks 5 hours.</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"><li>• 3 hours</li><li>• 6 months</li><li>• 1 year</li></ul>
	<b>EncapsulatedData</b> (ISO 21090: ED)	<p>Data that is primarily intended for human interpretation or for further machine processing outside the scope of this specification. This includes unformatted or formatted written language, multimedia data, or structured information as defined by a different standard (e.g. XML signatures).</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"><li>• JPEG images</li><li>• HTML documents</li><li>• <a href="#">[RFC1521]</a> MIME types</li></ul>
	<b>Integer</b> (ISO 21090: INT)	<p>The mathematical data type comprising the exact integral values.</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"><li>• 1</li><li>• -50</li><li>• 125</li></ul>
	<b>Link</b> (ISO 21090: TEL)	<p>A general link, reference or pointer to an object, data or application that exists logically or is stored electronically in a computer system.</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"><li>• URL (Uniform Resource Locator) – the World Wide Web address of a site on the internet, such as the URL for the Google internet search engine – <i>http://www.google.com</i>.</li><li>• An absolute or relative path within a file or directory structure – e.g. in the Windows operating system, the “link” or absolute path to a particular letter could be <i>C:\Documents and Settings\GuestUser\MyDocuments\letter.doc</i></li></ul>
	<b>Quantity</b> (ISO 21090: PQ)	<p>A magnitude value with a unit of measurement.</p> <p>This is used for recording many real world measurements and observations. As the default unit of measure is 1, even counts of items can be recorded with <i>Quantity</i>.</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"><li>• 100 centimetres</li><li>• 25.5 grams</li></ul>

---

	QuantityRange (ISO 21090: IVL)	<p>A range of <i>Quantity</i> values.</p> <p>It may be identified using a combination of an optional minimum <i>Quantity</i> and an optional maximum <i>Quantity</i> (i.e. lower and upper bounds).</p> <p>This is typically used for defining the valid range of values for a particular measurement or observation. Unbounded quantity ranges can be identified by not including a minimum or a maximum <i>Quantity</i> value.</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"> <li>• -20 to 100 Celsius</li> <li>• 30-50 mg</li> <li>• &gt;10 kg</li> </ul>
	QuantityRatio (ISO 21090: RTO)	<p>A relative magnitude of two <i>Quantity</i> values.</p> <p>Usually recorded as numerator and denominator.</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"> <li>• 25 mg / 500 ml</li> <li>• 200 mmol per litre</li> </ul>
	Real (ISO 21090: REAL)	<p>A computational approximation to the standard mathematical concept of real numbers.</p> <p>These are often called floating-point numbers.</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"> <li>• 1.075</li> <li>• -325.1</li> <li>• 3.14157</li> </ul>
	Text (ISO 21090: ST)	<p>A character string (with optional language) containing any combination of alpha, numeric, or symbols from the Unicode character set. Also referred to as <i>free text</i>.</p> <p><b>Usage/Examples</b></p> <p>“The patient is a 37 year old man who was referred for cardiac evaluation after complaining of occasional palpitations, racing heart beats and occasional dizziness.”</p>
	TimeInterval (ISO 21090:IVL)	<p>An interval in time.</p> <p>It is identified using a combination of an optional start <i>DateTime</i>, an optional end <i>DateTime</i>, and an optional <i>Duration</i>.</p> <p><b>Usage/Examples</b></p> <ul style="list-style-type: none"> <li>• 20080101+1000 - 20081231+1000</li> <li>• 200801010130+1000 - 200801011800+1000</li> <li>• 200801010130+1000, duration=16.5 hours</li> </ul>



## UniquelIdentifier

A unique value used to identify a physical or virtual object or concept.

(ISO 21090: II)

In using this data type, the attributes of the UniquelIdentifier data type **SHOULD** be populated from the identifiers as defined in [AS 4846 \(2006\) – Health Care Provider Identification \[SA2006a\]](#) and [AS 5017 \(2006\) – Health Care Client Identification \[SA2006b\]](#) as follows:

- *root*: a globally unique object identifier that identifies the combination of geographic area, issuer and type. If no such globally unique object identifier exists, it **SHALL** be created.
- *extension*: a unique identifier within the scope of the root that is directly equivalent to the identifier designation element.
- *identifierName*: a human readable name for the namespace represented by the root that is populated with the issuer or identifier type values, or a concatenation of both, as appropriate. The content of this attribute is not intended for machine processing and **SHOULD NOT** be used for that purpose.
- *identifierScope*: the geographic span or coverage that applies to or constrains the identifier. It is directly equivalent to the geographic area element. The content of this attribute is not intended for machine processing and **SHOULD NOT** be used as such.

Also, the following constraints apply on the UniquelIdentifier data type:

- 1) The *root* attribute **SHALL** be used.
- 2) For an Entity Identifier, the *root* attribute **SHALL** be an OID that consists of a node in a hierarchically assigned namespace, formally defined using the ITU-T's ASN.1 standard.
- 3) For an Entity Identifier, the *root* attribute **SHALL NOT** be a UUID.
- 4) The *extension* attribute **SHALL** be used.

#### Usage/Examples

Australian health identifiers (e.g. IHI, HPI-I and HPI-O) and patient hospital medical record numbers are examples of identifiers that may be carried by data elements of this data type.

## Keywords Legend

Where used in this document and in DCMs and SCSs, the keywords **SHALL**, **SHOULD**, **MAY**, **SHALL NOT** and **SHOULD NOT** are to be interpreted as described in [Key words for use in RFCs to Indicate Requirement Levels \[RFC2119\]](#). NEHTA specifications use the terms **SHALL** in place of “MUST” and **SHALL NOT** in place of “MUST NOT”. The key word definitions in RFC 2119, adjusted to remove the key words not used in NEHTA specifications, are presented in the following table.

**Table 4: Keywords Legend**

Keyword	Definition
<b>SHALL</b>	This word means that the statement is an absolute requirement of the specification.
<b>SHOULD</b>	This word means that there may exist valid reasons in particular circumstances to ignore a particular data component, but the full implications must be understood and carefully weighed before choosing a different course.

<b>MAY</b>	This word means that a data component is truly optional. One implementer may choose to include the data component because a particular implementation requires it, or because the implementer determines that it enhances the implementation, while another implementer may omit the same data component. An implementation that does not include a particular option shall be prepared to interoperate with another implementation that does include the option, perhaps with reduced functionality. In the same vein, an implementation that does include a particular option shall be prepared to interoperate with another implementation that does not include the option (except of course, for the feature the option provides).
<b>SHALL NOT</b>	This phrase means that the statement is an absolute prohibition of the specification.
<b>SHOULD NOT</b>	This phrase means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.

## Obligation Legend

In DCMs and SCSs obligations on a data component specify whether or not it **SHALL** be populated in the logical record architecture of a message. NEHTA intends that all data components that are not **PROHIBITED** will be implemented.

Obligations in statements about values specify whether or not certain values are permitted.

Implementation guides specify the rules and formats for implementing and populating data components in specific messaging formats.

The following table defines the obligations.

**Table 5: Obligations Legend**

Keyword	Interpretation
<b>ESSENTIAL</b>	<p>Indicates that the data component is considered a mandatory item of information and <b>SHALL</b> be populated.</p> <p><b>Usage/Examples:</b></p> <p>The Participant data component for a Subject of Care <b>SHALL</b> include an Entity Identifier data component in order to hold the IHI.</p>
<b>OPTIONAL</b>	<p>Indicates that the data component is not considered a mandatory item of information and <b>MAY</b> be populated.</p> <p><b>Usage/Examples:</b></p> <p>Such data components will be implemented, only inclusion and population are optional.</p> <p>This is only needed when a DCM incorrectly asserts that a data component is <b>ESSENTIAL</b>. It will be used with a note stating that the DCM needs revision.</p>
<b>PROHIBITED</b>	<p>On a data component this indicates that the data component is considered a forbidden item of information and <b>SHALL NOT</b> be included.</p> <p>In a statement about values this indicates that the use of the specified values is considered forbidden and they <b>SHALL NOT</b> be used.</p> <p><b>Usage/Examples:</b></p> <p>Within a Participation data group depicting a Subject of Care, the Participation Healthcare Role <b>SHALL NOT</b> be populated.</p>

**CONDITIONAL** Indicates that a data component is considered **ESSENTIAL** only on satisfaction of a given condition. Individual data components specify the obligation of the data component when the condition is not met.

When a condition is met, the data component is considered to be **ESSENTIAL** and **SHALL** be populated.

When a condition is not met, the data component may be considered as **PROHIBITED**, or the data component may be considered **OPTIONAL**.

**Usage/Examples:**

Within a Pathology Result Report, the *Specimen Detail* data group is **ESSENTIAL** if the requested test is to be performed on a specimen; otherwise it **SHALL NOT** be included.

Obligations follow the usual scope rules: where **ESSENTIAL** child data components are contained within **OPTIONAL** parent data components, the child data components **SHALL NOT** be included when the parent is not included.

## B.4 Abnormal and Absent Values

Occasionally a data element will have an abnormal value (i.e. the value cannot be described using the expected set of values) or an absent value (i.e. no value is provided).

The commonly used implementation specifications ISO 21090 and HL7 CDA R2 use *nullFlavor* to manage absent and abnormal values.

The following table provides a classification of *nullFlavor* values as absent or abnormal.

**Table 6: Classification of ISO 21090 nullFlavor values as Absent or Abnormal**

Level	Code	Term	Absent	Abnormal
1	NI	No information	Absent	
2	INV	Invalid		Abnormal
3	OTH	Other		Abnormal
4	PINF	Positive infinity		Abnormal
4	NINF	Negative infinity		Abnormal
3	UNC	Unencoded		Abnormal
3	DER	Derived		Abnormal
2	UNK	Unknown	Absent	
3	ASKU	Asked but unknown	Absent	
4	NAV	Temporarily unavailable	Absent	
3	NASK	Not asked	Absent	
3	QS	Sufficient quantity		Abnormal
3	TRC	Trace		Abnormal
2	MSK	Masked	Absent	
2	NA	Not applicable	Absent	

## B.5 Information Model Specification Parts Legends

This section illustrates the format and parts used to define each section, data group and data element within NEHTA's DCMs and SCSs, and identifies when each part is applicable.

### Chapter Name

Each section, data group, data element, value domain or choice has its own eponymous chapter. The chapter name is used in all data hierarchies.

### Identification Section Legend

The following table illustrates the layout of the Identification section and describes the various parts of the section.

**Table 7: Identification Section Legend**

<b>Label</b>	A suggested display name for the data component.
<b>Metadata Type</b>	The type of the data component, e.g. section, data group or data element.
<b>Identifier</b>	A NEHTA-assigned internal identifier of the data component.
	Note that if one data component is used twice (e.g. <i>Therapeutic Good Identification</i> is used in both <i>Medication Instruction</i> and <i>Medication Action</i> ), both uses of the data component will have the same identifier. A data component identifier identifies a data component, not a <b>use</b> of a data component.
<b>OID</b>	An object identifier equivalent to the data component identifier.
<b>External Identifier</b>	An identifier of the concept represented by the data component that is assigned by an organisation other than NEHTA.

### Definition Section Legend

The following table illustrates the layout of the Definition section and describes the various parts of the section.

**Table 8: Definition Section Legend**

<b>Definition</b>	The meaning, description or explanation of the data component.
	For data groups used in a particular context, the definition <b>MAY</b> be a refinement of the generic data group definition.
<b>Definition Source</b>	The authoritative source for the Definition statement.
<b>Synonymous Names</b>	A list of any names the data component may also be known as.
	Implementers may prefer to use synonymous names to refer to the data component in specific contexts.
<b>Scope</b>	Situations in which the data component may be used, including the Scope circumstances where specified data are required or recommended.
	For example, Medication Instruction (data group) has a scope that includes all prescribable therapeutic goods, both medicines and non-medicines.



	This item is not relevant to data elements or value domains.
<b>Scope Source</b>	The authoritative source for the Scope statement.
<b>Context</b>	The environment in which the data component is meaningful, i.e. the circumstance, purpose and perspective under which this data component is defined or used.  For example, Street Name has a context of Address.
<b>Assumptions</b>	This item is applicable only to data elements. Suppositions and notions used in defining the data component.
<b>Assumptions Source</b>	The authoritative source for the Assumptions statement.
<b>Notes</b>	Informative text that further describes the data component, or assists in the understanding of how the data component can be used.
<b>Notes Source</b>	The authoritative source for the Notes statement.
<b>Data Type</b>	The data type (or data types) of the data element, e.g. DateTime or Text.  The valid data types are specified in the <a href="#">Data Types Legend</a> .
<b>Value Domain</b>	This item is applicable only to data elements. The name of the <a href="#">Value Domain</a> used to define the range of values of the data element, or a statement describing what values to use in the absence of a defined value domain for the related data element.  The statement is:  In the absence of national standard code sets, the code sets used <b>SHALL</b> be registered code sets, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and <b>SHALL</b> be publicly available.  When national standard code sets become available, they <b>SHALL</b> be used and the non-standard code sets <b>SHALL</b> be deprecated.  This item is applicable only to data elements with data type CodedText or CodeableText.

## Data Hierarchy

The top-level data components (a Structured Document in an SCS or Data Groups in a DCM) contain a data hierarchy. Each row contains information about a single data component. The entries are nested to represent inclusion of one data component in another. Each entry contains at least three occupied cells. The left-most cell contains an icon to indicate the entry's data type. The next cell to the right contains the label of the data component (if the label is different from the name, the name is displayed in brackets after the label). The next cell to the right contains the multiplicity range for the data component.

If a row is shaded grey, this indicates that the data component **SHOULD NOT** be used. This will be because analysis of requirements either did not find reasons to use it or found reasons to not use it.

If the text in a row is in a ~~strike-through~~ font and the multiplicity is 0..0, this indicates that the data component **SHALL NOT** be used. This will be because analysis of requirements found reasons to prohibit the use of it.

In some documents the right-hand side of the data hierarchy contains one or more columns under the heading "Core Requirement". Each column contains information for one document exchange scenario. A cell that is empty indicates that the data component on that row is **OPTIONAL** to implement. That is, software that creates documents made in conformance with this specification **MAY** exclude the data component, and software that reads documents made in conformance with this specification **MAY** ignore the data component. All other data components **SHALL** be implemented.

## Sample SCS Data Hierarchy



### Note

Items below whose text is lighter (mid-blue and mid-grey) are technical identifiers whose purpose is to facilitate interoperability, sharing of data and secondary use. Typically, such identifiers will be generated internally by systems and not displayed to users since they rarely have clinical significance.

Items below with a grey background are data components that are included in the relevant detailed clinical model specification, but whose use is discouraged in this particular scenario.

	SPECIALIST LETTER		
CONTEXT			
		SUBJECT OF CARE	1..1
		DOCUMENT AUTHOR	1..1
		ENCOUNTER	1..1
		DateTime Subject of Care Seen ( DateTime Health Event Started)	1..1
		DateTime Health Event Ended	0..0
		HEALTHCARE FACILITY	0..0
		Document Instance Identifier	0..1
		RELATED INFORMATION	0..0
		Document Type	1..1
CONTENT			
		RESPONSE DETAILS	1..1
		Diagnosis (PROBLEM/DIAGNOSIS)	0..*
		Diagnosis Name (Problem/Diagnosis Identification)	1..1
		Clinical Description	0..0
	and more		

## Value Domain Section Legend

The following table illustrates the layout of the Value Domain section and describes the various parts of the section.

**Table 9: Value Domain Section Legend**

<b>Source</b>	The name of the terminology or vocabulary from which the value domain's permissible values are sourced, e.g. SNOMED CT-AU, LOINC.
---------------	-----------------------------------------------------------------------------------------------------------------------------------

<b>Version Number</b>	Version number of the value domain source.
<b>Permissible Values</b>	A specification of the permissible values in the value domain.  This may be a list of codes. (Each code is typically presented as a triple with code values, text equivalent, and description; e.g. 1, Registered, No result yet available.)  This may be a conformance statement (e.g. "The permissible values are the members of the following seven AMT reference sets: ...").

## Usage Section Legend

The following table illustrates the layout of the Usage section and describes the various parts of the section.

**Table 10: Usage Section Legend**

<b>Examples</b>	Sample values for the data element, with or without notes about sample values.  Where a data element has an associated value domain, examples representative of that domain are used where possible. Where the value domain is yet to be determined, indicative examples are provided.  Implementation guides may contain specific examples of how data elements may be populated and how they relate to each other.  This item is applicable only to data elements.
<b>Conditions of Use</b>	Prerequisites, provisos or restrictions for use of the data component.
<b>Conditions of Use Source</b>	The authoritative source for the Conditions of Use statement.
<b>Misuse</b>	Incorrect, inappropriate or wrong uses of the data component.
<b>Default Value</b>	A common denomination, or at least a usable denomination, from the Value Domain where available or applicable, typically assigned at the creation of an instance of the data component.
<b>Absent and Abnormal Values</b>	A statement of limitations on the use of abnormal values and absent values.  Unless otherwise specified, all data elements are permitted to have abnormal or absent values. Some abnormal values are only relevant to data elements of certain data types (e.g. positive infinity is relevant to numbers but not Booleans).  Representative examples of conditions of use statements involving value annotations: <ul style="list-style-type: none"> <li>• Absent values are <b>PROHIBITED</b>.</li> <li>• Abnormal values are <b>PROHIBITED</b>.</li> <li>• Abnormal and absent values are <b>PROHIBITED</b>.</li> </ul> This item is applicable only to data elements.

## Relationships Section Legend

The Relationships section specifies the cardinality between parent and child data components.

The following table illustrates the layout of the Parent relationships table. Note that the occurrences in the relationships described by this table are from the parent to the child data component, i.e. from the data component listed in the table to the data component described by the section.

**Table 11: Parent Legend**

Data Type	Name	Occurrences (child within parent)
The icon illustrating the metadata type or data type.	Parent Data Component Name	The minimum and maximum number of instances of the data component described on this page that <b>SHALL</b> occur.

The following table illustrates the layout of the Children relationships table.

**Table 12: Children Legend**

Data Type	Name	Occurrences
The icon illustrating the metadata type or data type.	Child Data Component Name	The minimum and maximum number of instances of the data component described on this page that <b>SHALL</b> occur.

# Appendix C. Change History

A summary of changes from one document version to the next. Changes to the change history are excluded.

## C.1 Changes Since Version 3.1 - 22 December 2011

The presentation format has changed between version 3.1 and version 3.2. Changes that result from the change in presentation format are not listed below.

Changes to prohibited data components are not described.

### Preliminary Pages

A number of editorial errors have been corrected in Disclaimer and Document Control.

Document Information section has been changed to include the latest release details.

Acknowledgements chapter has been updated to replace generic acknowledgements to Standards Australia, Members of the Australian DataTypes Project, Australian Institute of Health and Welfare and Ocean Informatics with the funding acknowledgement for the Council of Australian Governments, and acknowledgements for LOINC, SNOMED CT and HL7 International.

### Chapter 1 Introduction

In 1.1 Purpose and Scope, corrected email address to help@nehta.gov.au.

In 1.4 Terminology, corrected email address to help@nehta.gov.au.

### Chapter 2 Body Height/Length Detail Clinical Model

In 2.2 Use and 2.3 Misuse, a number of editorial errors have been corrected.

2.24 UML Class Diagram, the diagram and explanatory text have been updated.

In 2.5 *ADVERSE REACTION*:

- Definition has been reworded;
- Synonymous Names has been updated; and
- Scope and Scope Source have been added.

In 2.5 Data Hierarchy, data group *ADVERSE REACTION > LINK* has been replaced with the data group *RELATED INFORMATION*.

In 2.5 Data Hierarchy, the following data elements have had their labels changed to match their names:

- *ADVERSE REACTION > Adverse Reaction Comment*;
- *ADVERSE REACTION > Adverse Reaction Certainty*;
- *ADVERSE REACTION > Reaction Onset Date*;
- *ADVERSE REACTION > Additional Reaction Details > SPECIFIC LOCATION > Anatomical Location Name*;

- *ADVERSE REACTION* > *Additional Reaction Details* > *RELATIVE LOCATION* > *Anatomical Location Aspect*;
- *ADVERSE REACTION* > *Additional Reaction Details* > *Anatomical Location Description*;
- *ADVERSE REACTION* > *Additional Reaction Details* > *Anatomical Location Image*; and
- *ADVERSE REACTION* > *REACTION EVENT* > *Adverse Reaction Event Comment*.

In 2.7 Substance/ Agent Values:

- Definition has been reworded; and
- Permissible Values, the set of values has changed.

In 2.8 Absolute Contraindication, definition has been reworded.

In 2.9 Adverse Reaction Comment:

- the label has been removed to match the name, and
- Definition has been reworded.

In 2.12 Manifestation, definition has been reworded.

In 2.13 Clinical Manifestation Values:

- External Identifier has been deleted;
- Definition has been reworded; and
- in Permissible Values, Permissible Values have been added.

In 2.14 Reaction Type:

- Context has been reworded; and
- Value Domain has been added.

2.15 Adverse Reaction Type Values has been added.

In 2.16 Adverse Reaction Certainty, the label has been removed to match the name.

In 2.17 Adverse Reaction Certainty Values, Conditions of use Source has been reworded.

In 2.19 Reaction Onset Date, the label has been removed to match the name.

In 2.23 Anatomical Location Name, the label has been removed to match the name.

In 2.31 Anatomical Location Aspect, the label has been removed to match the name.

In 2.33 Anatomical Location Description, the label has been removed to match the name.

In 2.35 Anatomical Location Image, the label has been removed to match the name.

In 2.63 Adverse Reaction Event Comment, the label has been removed to match the name.

In 2.66 Supporting Clinical Record Information, notes has been reworded.

2.70 Related Information has a new Name, Label, Definition and Notes. The Identifier is the same as the meaning has not changed.

In 2.71 Link Nature, Definition has been updated.

In 2.72 Link Nature Values:

- External Identifier has been added; and

- Definition has been reworded.

In 2.73 Link Role, Notes has been reworded.

In 2.74 Link Role Values:

- External Identifier has been added;
- Definition has been reworded; and
- Context has been reworded.

In 2.75 Target:

- Label Link Target has been updated to match the name; and
- Definition has been reworded.

In 2.76 Detailed Clinical Model Identifier:

- Definition has been reworded;
- Notes has been added;
- Default Value Conditions of Use has been moved to Conditions of Use.

## **Chapter 3 Exclusion Statement - Adverse Reactions Detailed Clinical Model**

In 3.2 Use, a number of editorial errors have been corrected.

3.3 UML Class Diagram, the diagram and explanatory text have been updated.

In 3.4 Data Hierarchy, data group *EXCLUSION STATEMENT - ADVERSE REACTIONS > LINK* has been replaced with the data group *RELATED INFORMATION*.

In 3.5 Global Statement:

- Context has been reworded; and
- Conditions of Use and Conditions of Use Source have been changed.

In 3.6 Global Statement Values, the Permissible Values have been changed.

In 3.11 INFORMATION PROVIDER:

- Definition has been reworded; and
- Scope and Scope Source have been added.

3.14 Related Information has a new Name, Label, Definition and Notes. The Identifier is the same as the meaning has not changed.

In 3.15 Link Nature, Definition has been updated.

In 3.16 Link Nature Values:

- External Identifier has been added; and
- Definition has been reworded.

In 3.17 Link Role, Notes has been reworded.

In 3.18 Link Role Values:

- External Identifier has been added;
- Definition has been reworded; and
- Context has been reworded.

In 3.19 Target:

- Label Link Target has been updated to match the name; and
- Definition has been reworded.

In 3.20 Detailed Clinical Model Identifier:

- Definition has been reworded; and
- Default Value Conditions of Use has been moved to Conditions of Use.

## **Appendix A Known Issues**

Added generic known issues for links across multiple pages, Detailed Clinical Models and UML Class diagrams.

## **Reference List**

Updated accessed date for all entries.



# Reference List

- [EDWA1994a] I. Ralph Edwards, Cecilia Biriell, 1994, *Harmonisation in Pharmacovigilance, Drug Safety*, 10.2, accessed 14 December 2011.  
<http://www.who-umc.org/graphics/25253.pdf>
- [ISO2009a] International Organization for Standardization, 14 Jan 2009, *ISO 13606-3:2009 Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists*, Edition 1 (Monolingual), accessed 24 June 2015.  
<https://infostore.saiglobal.com/store/Details.aspx?ProductID=1092099>
- [NEHT2007b] National E-Health Transition Authority, 17 August 2007, *Interoperability Framework*, Version 2.0, accessed 24 June 2015.  
<http://www.nehta.gov.au/implementation-resources/ehealth-foundations/EP-1144-2007/-NEHTA-1146-2007>
- [NEHT2010c] National E-Health Transition Authority, September 2010, *Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification*, Version 1.0, accessed 20 July 2014.  
<https://www.nehta.gov.au/implementation-resources/clinical-documents/EP-1135-2010/-NEHTA-1136-2010>
- [NEHT2011v] National E-Health Transition Authority, 20 July 2011, *Participation Data Specification*, Version 3.2, accessed 20 Jul 2014.  
<https://www.nehta.gov.au/implementation-resources/clinical-documents/EP-1224-2011/-NEHTA-0794-2011>
- [RFC1521] Network Working Group, 1993, *RFC1521 - MIME (Multipurpose Internet Mail Extensions) Part One*, accessed 17 July 2014.  
<http://www.faqs.org/rfcs/rfc1521.html>
- [RFC2119] Network Working Group, 1997, *Key words for use in RFCs to Indicate Requirement Levels*, accessed 29 October 2015.  
<https://tools.ietf.org/html/rfc2119>
- [SA2006a] Standards Australia, 2006, *AS 4846 (2006) – Health Care Provider Identification*, accessed 17 July 2014.  
<http://infostore.saiglobal.com/store/Details.aspx?ProductID=318554>
- [SA2006b] Standards Australia, 2006, *AS 5017 (2006) – Health Care Client Identification*, accessed 17 July 2014.  
<http://infostore.saiglobal.com/store/Details.aspx?ProductID=320426>
- [UMC2011a] The Uppsala Monitoring Centre, *The use of the WHO-UMC system for standardised case causality assessment*, accessed 14 December 2011.  
<http://who-umc.org/graphics/24734.pdf>
- [WALJ2005a] Walker et al., January 2005, *The Value Of Health Care Information Exchange And Interoperability*, *Health Affairs*, 2005, accessed 17 July 2014.  
<http://content.healthaffairs.org/content/early/2005/01/19/hlthaff.w5.10.short>

*This page is intentionally left blank.*

# Index

## A

Absolute Contraindication, 12  
 ADDITIONAL EXPOSURE DETAIL, 46  
 Additional Reaction Detail, 27  
 ADVERSE REACTION, 6  
 Adverse Reaction Certainty, 21  
 Adverse Reaction Certainty Values, 22  
 Adverse Reaction Comment, 13  
 Adverse Reaction Event Comment, 71  
 Adverse Reaction Instance Identifier, 78  
 Adverse Reaction Report, 73  
 Adverse Reaction Type Values, 20  
 AMOUNT OF MEDICATION, 47  
 ANATOMICAL LOCATION, 27  
 Anatomical Location Aspect, 37  
 Anatomical Location Description, 40  
 Anatomical Location Image, 42  
 Anatomical Location Name, 29  
 Anatomical Plane, 34  
 Anatomical Site, 63

## B

Body Structure Foundation Reference Set, 30, 64

## C

Choice  
 ADDITIONAL EXPOSURE DETAIL, 46  
 C-16478, 46  
 Clinical Management Description, 68  
 Clinical Manifestation Values, 18

## D

Data Element  
 Absolute Contraindication, 12  
 Adverse Reaction Certainty, 21  
 Adverse Reaction Comment, 13  
 Adverse Reaction Event Comment, 71  
 Adverse Reaction Instance Identifier, 78  
 Adverse Reaction Report, 73  
 Anatomical Location Aspect, 37  
 Anatomical Location Description, 40  
 Anatomical Location Image, 42  
 Anatomical Location Name, 29  
 Anatomical Plane, 34  
 Anatomical Site, 63  
 Clinical Management Description, 68  
 DE-10145, 48  
 DE-10147, 61  
 DE-10156, 63  
 DE-15507, 25  
 DE-15521, 10  
 DE-15554, 19  
 DE-15563, 24  
 DE-15564, 17  
 DE-15568, 21  
 DE-15590, 13  
 DE-16073, 12  
 DE-16153, 29  
 DE-16199, 42  
 DE-16302, 93  
 DE-16305, 95  
 DE-16306, 96  
 DE-16307, 97  
 DE-16308, 98  
 DE-16319, 40  
 DE-16336, 31  
 DE-16338, 33  
 DE-16340, 34  
 DE-16343, 36  
 DE-16345, 37  
 DE-16346, 39  
 DE-16349, 16  
 DE-16352, 26  
 DE-16372, 44  
 DE-16373, 45  
 DE-16376, 69  
 DE-16379, 72  
 DE-16407, 41  
 DE-16470, 65  
 DE-16471, 66  
 DE-16477, 43  
 DE-16482, 68  
 DE-16483, 71  
 DE-16484, 73  
 DE-16485, 74  
 DE-16524, 49  
 DE-16525, 51  
 DE-16547, 53  
 DE-16548, 54  
 DE-16549, 55  
 DE-16551, 56  
 DE-16552, 57  
 DE-16553, 58  
 DE-16631, 70  
 DE-16634, 67  
 DE-16693, 88, 112  
 DE-16697, 78  
 DE-16698, 81, 105  
 DE-16699, 84, 108  
 DE-16700, 87, 111  
 DE-16712, 102  
 Detailed Clinical Model Identifier, 88, 112  
 Distance From Landmark, 39  
 Dose Duration, 66  
 Dose Unit, 49  
 Duration of Exposure, 45  
 Duration of Reaction, 26  
 Earliest Exposure, 44  
 Exclusion Statement - Adverse Reactions Instance Identifier, 102  
 Exposure Description, 43  
 Global Statement, 93  
 Identified Landmark, 36  
 Intervention Date, 58  
 Intervention Day of Month, 57  
 Intervention Day of Week, 56

- Intervention Frequency Range, 53
- Intervention Interval Range, 54
- Intervention Time, 55
- Intravenous Administration Details, 67
- Link Nature, 81, 105
- Link Role, 84, 108
- Manifestation, 17
- Medication Delivery Method, 65
- Multimedia, 69
- No Known Adverse Reaction to, 95
- No Known Allergic Reaction to, 96
- No Known Hypersensitivity Reaction to, 97
- No Known Intolerance to, 98
- Numerical Identifier, 33
- Quantity, 48
- Quantity Description, 51
- Reaction Description, 24
- Reaction Onset Date, 25
- Reaction Reported, 72
- Reaction Type, 19
- Reporting Details, 70
- Route, 61
- Side, 31
- Specific Substance/Agent, 16
- Substance/Agent, 10
- Supporting Clinical Record Information, 74
- Target, 87, 111
- Visual Markings/Orientation, 41
- Data Group
  - ADVERSE REACTION, 6
  - AMOUNT OF MEDICATION, 47
  - ANATOMICAL LOCATION, 27
  - DG-10108, 59
  - DG-10296, 75, 77, 99, 101
  - DG-15517, 6
  - DG-16137, 91
  - DG-16150, 27
  - DG-16151, 28
  - DG-16341, 35
  - DG-16423, 47
  - DG-16431, 52
  - DG-16474, 14
  - DG-16692, 79, 103
  - EXCLUSION STATEMENT - ADVERSE REACTIONS, 91
  - INFORMATION PROVIDER, 75, 99
  - MEDICATION ADMINISTRATION, 59
  - REACTION EVENT, 14
  - RELATED INFORMATION, 79, 103
  - RELATIVE LOCATION, 35
  - SPECIFIC LOCATION, 28
  - SUBJECT, 77, 101
  - TIMING, 52
- Date, 58
- Day of Month, 57
- Day of Week, 56
- Delivery Method, 65
- Detailed Clinical Model Identifier, 88, 112
- Distance From Landmark, 39
- Dose Duration, 66
- Dose Unit, 49
- Dose Unit Reference Set, 50
- Duration of Exposure, 45
- Duration of Reaction, 26
- E**
  - Earliest Exposure, 44
  - EXCLUSION STATEMENT - ADVERSE REACTIONS, 91
  - Exclusion Statement - Adverse Reactions Instance Identifier, 102
  - Exposure Description, 43
- F**
  - Frequency Range, 53
- G**
  - Global Statement, 93
  - Global Statement Values, 94
- I**
  - Identified Landmark, 36
  - INFORMATION PROVIDER, 75, 99
  - Interval Range, 54
  - Intervention Date, 58
  - Intervention Day of Month, 57
  - Intervention Day of Week, 56
  - Intervention Frequency Range, 53
  - Intervention Interval Range, 54
  - Intervention Time, 55
  - Intravenous Administration Details, 67
  - Intravenous Details, 67
- L**
  - Laterality Reference Set, 32
  - Link Nature, 81, 105
  - Link Nature Values, 82, 106
  - Link Role, 84, 108
  - Link Role Values, 85, 109
- M**
  - Manifestation, 17
  - MEDICATION ADMINISTRATION, 59
  - Medication Delivery Method, 65
  - Multimedia, 69
- N**
  - No Known Adverse Reaction to, 95
  - No Known Allergic Reaction to, 96
  - No Known Hypersensitivity Reaction to, 97
  - No Known Intolerance to, 98
  - Numerical Identifier, 33
- Q**
  - Quantity, 48
  - Quantity Description, 51

## **R**

Reaction Description, 24  
REACTION EVENT, 14  
Reaction Onset Date, 25  
Reaction Reported, 72  
Reaction Type, 19  
RELATED INFORMATION, 79, 103  
RELATIVE LOCATION, 35  
Reporting Details, 70  
Route, 61  
Route of Administration Reference Set, 62

## **S**

Side, 31  
Site, 63  
SPECIFIC LOCATION, 28  
Specific Substance/Agent, 16  
SUBJECT, 77, 101  
Substance/Agent, 10  
Substance/Agent Values, 11  
Supporting Clinical Record Information, 74

## **T**

Target, 87, 111  
Time, 55  
TIMING, 52

## **V**

Value Domain  
Adverse Reaction Certainty Values, 22  
Adverse Reaction Type Values, 20  
Body Structure Foundation Reference Set, 30, 64  
Clinical Manifestation Values, 18  
Dose Unit Reference Set, 50  
Global Statement Values, 94  
Laterality Reference Set, 32  
Link Nature Values, 82, 106  
Link Role Values, 85, 109  
Route of Administration Reference Set, 62  
Substance/Agent Values, 11  
VD-10147, 62  
VD-15521, 11  
VD-15554, 20  
VD-15564, 18  
VD-15568, 22  
VD-16152, 30, 64  
VD-16299, 94  
VD-16312, 32  
VD-16523, 50  
VD-16698, 82, 106  
VD-16699, 85, 109  
Visual Markings/Orientation, 41

*This page is intentionally left blank.*