

nehta

Shared Health Summary Structured Content Specification

Version 1.1 — 30 Nov 2011

Final

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Document Information

Document owner

Document Owner

The National Clinical Terminology and Information Service

Change history

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1.0	13 May 2011	Initial draft.
1.1	30 Nov 2011	Final specification for submission to Standards Australia.

Related documents

Name	Version/Release Date
NEHTA Acronyms, Abbreviations & Glossary of Terms	Version 1.2, Issued 25 May 2005
Participation Data Specification	Version 3.2, Issued 20 July 2011
Adverse Reaction Detailed Clinical Model Specification	Version 3.1
Medication Instruction And Action Detailed Clinical Model Specification	Version 2.1
Problem Diagnosis Detailed Clinical Model Specification	Version 3.1
Procedure Detailed Clinical Model Specification	Version 3.1
Miscellaneous Detailed Clinical Model Specification	Version 1.2, Issued To Be Published

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1 Introduction

This document is a Structured Content Specification (SCS) for a Shared Health Summary. It specifies the information structure of NEHTA-compliant Shared Health Summaries in order to support the transfer of shared health summaries.

Appendix B: [Specification Guide for Use](#) provides definitional details on data type constraints applied to data elements defined in the SCS. It also provides important information on how to read and use the SCS best. Therefore, it is an essential compendium for better understanding of the SCS.

NEHTA values your questions and comments about this document. Please direct your questions or feedback to clinicalinformation@nehta.gov.au.

1.1 Document Purpose

This document describes the Structured Content Specification for a Shared Health Summary from a clinical communication perspective.

The content within this document provides reviewers (software development teams, architects, designers, clinicians and informatics researchers) with the necessary information (or references to information held outside this document) to evaluate and assess the clinical suitability of NEHTA-endorsed specifications for the electronic transfer of Shared Health Summaries.

It is also a key input to the [NEHTA Shared Health Summary CDA Implementation Guide \[NEHT2011n\]](#), which describes how to implement NEHTA-compliant Shared Health Summaries using the [HL7 Clinical Document Architecture \[HL7CDAR2\]](#).

1.2 Intended Audience

This document is aimed at software development teams, architects, designers, clinicians and informatics researchers who are responsible for the delivery of clinical applications, infrastructure components and messaging interfaces and also for those who wish to evaluate the clinical suitability of NEHTA-endorsed specifications.

1.3 Document Scope

This document specifies the essential clinical data groups and elements to be captured in a Shared Health Summary exchange and the constraints that should be applied. Its scope is aligned to the document [Concept of Operations: Relating to the introduction of a Personally Controlled Electronic Health Record System \[DHA2011b\]](#).

This is not a guide to implementing any specific messaging standard.

1.4 Known Issues

This is a preliminary draft for trial implementation.

Known issues with this document are described in [A: Known Issues](#).

2 Shared Health Summary Structured Document

2.1 SHARED HEALTH SUMMARY

Identification

Label	SHARED HEALTH SUMMARY
Metadata Type	Structured Document
Identifier	SD-16565
OID	1.2.36.1.2001.1001.101.100.16565

Definition

Definition	A clinical document written by the nominated provider, which contains key pieces of information about an individual's health status and is useful to a wide range of providers in assessing individuals and delivering care. (PCEHR Concept of Operations document)
Definition Source	NEHTA
Synonymous Names	

Data Hierarchy

	SHARED HEALTH SUMMARY		
CONTEXT			
	SUBJECT OF CARE		1..1
	DOCUMENT AUTHOR		1..1
	DateTime Authored		0..0
	DateTime Health Event Started		0..0
	DateTime Health Event Ended		0..0
	HEALTHCARE FACILITY		0..0
	DateTime Attested		1..1

CONTENT			
		ADVERSE REACTIONS	1..1
		EXCLUSION STATEMENT - ADVERSE REACTIONS	0..1
		 Global Statement	1..1
		 No Known Adverse Reaction to	0..0
		 No Known Allergic Reaction to	0..0
		 No Known Hypersensitivity Reaction to	0..0
		 No Known Intolerance to	0..0
		 INFORMATION PROVIDER	0..0
		 SUBJECT	0..0
		 Exclusion Statement – Adverse Reactions Identifier	0..0
		 LINK	0..0
		 Detailed Clinical Model Identifier	1..0
		ADVERSE REACTION	0..*
		 Substance/Agent	1..1
		 Absolute Contraindication	0..0
		 Comment (Adverse Reaction Comment)	0..0
		REACTION EVENT	0..1
		 Specific Substance/Agent	0..0
		 Manifestation	1..*
		 Reaction Type	0..0
		 Certainty (Adverse Reaction Certainty)	0..0
		 Reaction Description	0..0
		 Onset of Reaction (Reaction Onset Date)	0..0
		 Duration of Reaction	0..0

				Additional Reaction Detail (ANATOMICAL LOCATION)	0..0
				Exposure Description	0..0
				Earliest Exposure	0..0
				Duration of Exposure	0..0
				ADDITIONAL EXPOSURE DETAIL	0..0
				Clinical Management Description	0..0
				Multimedia	0..0
				Reporting Details	0..0
				Comment (Adverse Reaction Event Comment)	0..0
				Reaction Reported	0..0
				Adverse Reaction Report	0..0
				Supporting Clinical Record Information	0..0
				INFORMATION PROVIDER	0..0
				SUBJECT	0..0
				Adverse Reaction Identifier	0..0
				LINK	0..0
				Detailed Clinical Model Identifier	1..0
		Medications (MEDICATION ORDERS)			1..1
			EXCLUSION STATEMENT - MEDICATIONS		0..1
				Global Statement	1..1
				Not Currently Taking	0..0
				Not Ever Taken	0..0
				INFORMATION PROVIDER	0..0
				SUBJECT	0..0

			Exclusion Statement – Medications Identifier	0..0
			LINK	0..0
			Detailed Clinical Model Identifier	1..0
			Known Medication (MEDICATION INSTRUCTION)	0..*
			Medicine (Therapeutic Good Identification)	1..1
			Directions	1..1
			Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)	0..0
			Dose Description	0..0
			Structured Dose (AMOUNT OF MEDICATION)	0..0
			TIMING	0..0
			Additional Instruction	0..0
			Clinical Indication	0..1
			Administration Details (MEDICATION ADMINISTRATION)	0..0
			Comment (Medication Instruction Comment)	0..1
			DISPENSING	0..0
			Change Type	0..0
			Change or Recommendation? (Change Status)	0..0
			Change Description	0..0
			Change Reason (Change or Recommendation Reason)	0..0
			Indication for Authorised Use	0..0
			Medication Instruction ID	0..0
			Concession Benefit	0..0
			INFORMATION PROVIDER	0..0
			SUBJECT	0..0

			Medication Instruction Narrative	0..0
			DateTime Medication Instruction Expires	0..0
			Medication Instruction Identifier	0..0
			LINK	0..0
			Detailed Clinical Model Identifier	1..0
		Past and Current Medical History (MEDICAL HISTORY)		1..1
		PROBLEM/DIAGNOSIS		0..*
			Problem/Diagnosis (Problem/Diagnosis Identification)	1..1
			Clinical Description	0..0
			Severity	0..0
			Date of Onset	0..1
			Age at Onset	0..0
			ANATOMICAL LOCATION	0..0
			Occurrence Summary (PROBLEM/DIAGNOSIS OCCURRENCE SUMMARY)	0..0
			RELATED ITEMS	0..0
			Date of Resolution/Remission	0..1
			Age at Resolution/Remission	0..0
			Diagnostic Criteria	0..0
			Clinical Stage/Grade	0..0
			Comment (Problem/Diagnosis Comment)	0..1
			Link to Supporting Clinical Evidence	0..0
			Status	0..0
			INFORMATION PROVIDER	0..0
			SUBJECT	0..0

			Problem/Diagnosis Identifier	0..0
			LINK	0..0
			Detailed Clinical Model Identifier	1..0
			EXCLUSION STATEMENT - PROBLEMS AND DIAGNOSES	0..1
			Global Statement	1..1
			No Previous History of	0..0
			No Evidence of	0..0
			INFORMATION PROVIDER	0..0
			SUBJECT	0..0
			Exclusion Statement – Problems and Diagnoses Identifier	0..0
			LINK	0..0
			Detailed Clinical Model Identifier	1..0
			Procedure (PROCEDURE)	0..*
			Procedure Name	1..1
			Description (Procedure Description)	0..0
			Reason (Procedure Reason)	0..0
			ANATOMICAL LOCATION	0..0
			Procedure Detail	0..0
			Duration (Procedure Duration)	0..0
			Multimedia	0..0
			Comment (Procedure Comment)	0..1
			Start Date/Time (DateTime Started)	0..1
			DEVICE	0..0
			INFORMATION PROVIDER	0..0

			SUBJECT	0..0
			Procedure Identifier	0..0
			LINK	0..0
			Detailed Clinical Model Identifier	1..0
			EXCLUSION STATEMENT - PROCEDURES	0..1
			Global Statement	1..1
			No Previous History of	0..0
			INFORMATION PROVIDER	0..0
			SUBJECT	0..0
			Exclusion Statement – Procedures Identifier	0..0
			LINK	0..0
			Detailed Clinical Model Identifier	1..0
			Other Medical History Item (MEDICAL HISTORY ITEM)	0..*
			Medical History Item Description	1..1
			Medical History Item Timeinterval	0..1
			Medical History Item Comment	0..1
			INFORMATION PROVIDER	0..0
			SUBJECT	0..0
			Medical History Item Identifier	0..0
			LINK	0..0
			Detailed Clinical Model Identifier	1..0
			IMMUNISATIONS	1..1
			Administered Immunisation (MEDICATION ACTION)	0..*
			Medicine (Therapeutic Good Identification)	1..1

			Instructions to Subject of Care or Carer (Medication Action Instructions)	0..0
			Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)	0..0
			Reason (Reason for Action)	0..0
			Quantity of Medication (AMOUNT OF MEDICATION)	0..0
			Comment	0..0
			Vaccine Sequence Number (Sequence Number)	0..1
			Administration (MEDICATION ADMINISTRATION)	0..0
			Brand Substituted (Brand Substitution Occurred)	0..0
			Batchid (Batch Identifier)	0..0
			Date of Expiry (Expiry Date)	0..0
			DISPENSED TO	0..0
			Number of Times Dispensed	0..0
			Remaining Repeats	0..0
			Claim Category	0..0
			Administrative Item Code	0..0
			Administrative Manufacturer Code	0..0
			INFORMATION PROVIDER	0..0
			SUBJECT	0..0
			Medication Action DateTime	1..1
			Exclusion Statement - Immunisations (EXCLUSION STATEMENT - MEDICATIONS)	0..1
			Global Statement	1..1
			Not Currently Taking	0..0
			Not Ever Taken	0..0
			INFORMATION PROVIDER	0..0

				SUBJECT	0..0
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2.2 SUBJECT OF CARE

Identification

Label	SUBJECT OF CARE
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296
External Identifier	AS 5017-2006

Definition

Definition	Identifies the person about whom the healthcare event/encounter/clinical interaction has been captured and/or interchanged, that led to the creation of the document. In other words, the subject of the information.
Definition Source	NEHTA
Synonymous Names	Patient

Usage

Conditions of Use	<p>This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2011v].</p> <p>The following constraints are additional to those specified in Participation Data Specification [NEHT2011v]. Constraints are explained in Appendix B: Specification Guide for Use.</p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> • Participation Period is PROHIBITED. • LOCATION OF PARTICIPATION is PROHIBITED. • Entity Identifier is ESSENTIAL. • ADDRESS is ESSENTIAL. • Relationship to Subject of Care is PROHIBITED. • DEMOGRAPHIC DATA is ESSENTIAL. • Sex is ESSENTIAL. • DATE OF BIRTH DETAIL is ESSENTIAL. • EMPLOYMENT DETAIL is PROHIBITED. • Source of Death Notification is PROHIBITED. • Mothers Original Family Name is PROHIBITED.
--------------------------	--

Conditions of Use Source	<ul style="list-style-type: none"> Indigenous Status is ESSENTIAL. Qualifications is PROHIBITED. <p>Other additional constraints:</p> <ul style="list-style-type: none"> Participation Type SHALL have an implementation-specific fixed value equivalent to "Subject of Care". Role SHALL have a fixed value of "Patient". The value of Entity Identifier SHALL be an Australian IHI. PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON.
	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	SHARED HEALTH SUMMARY	1..1	

2.3 DOCUMENT AUTHOR

Identification

Label	DOCUMENT AUTHOR
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

Definition

Definition	The healthcare provider who composed the shared health summary.
Definition Source	NEHTA
Synonymous Names	Author
Scope	The health provider nominated by the individual as being responsible for creating/managing their Shared Health Summary.
Scope Source	NEHTA
Notes	This should be the specialist to whom the subject of care was referred even if he or she did not physically author or compose the letter.

Usage

Conditions of Use	<p>This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2011v].</p> <p>The following constraints are additional to those specified in Participation Data Specification [NEHT2011v]. Constraints are explained in Appendix B: <i>Specification Guide for Use</i>.</p> <p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> • LOCATION OF PARTICIPATION is PROHIBITED. • Entity Identifier is ESSENTIAL. • ADDRESS is ESSENTIAL. • ELECTRONIC COMMUNICATION DETAIL is ESSENTIAL. • Relationship to Subject of Care is PROHIBITED. • EMPLOYMENT DETAIL is ESSENTIAL. • EMPLOYER ORGANISATION is ESSENTIAL. • EMPLOYER ORGANISATION.Entity Identifier is ESSENTIAL. • DEMOGRAPHIC DATA is PROHIBITED. • ENTITLEMENT is PROHIBITED.
--------------------------	---

Conditions of Use Source	<ul style="list-style-type: none"> • Qualifications is PROHIBITED. <p>Other additional constraints:</p> <ul style="list-style-type: none"> • Participation Type SHALL have an implementation-specific fixed value equivalent to "Document Author". • Role SHOULD have a value chosen from 1220.0 – ANZSCO – Australia and New Zealand Standard Classification of Occupations, First Edition, 2006 – METeOR 350899. However, if a suitable value in this set cannot be found, then any code set that is both registered with HL7 and is publicly available MAY be used. • The value of Entity Identifier SHALL be an Australian HPI-I. • The value of EMPLOYER ORGANISATION.Entity Identifier SHALL be an Australian HPI-O. • AUSTRALIAN OR INTERNATIONAL ADDRESS SHALL be instantiated as an AUSTRALIAN ADDRESS. • PERSON OR ORGANISATION OR DEVICE SHALL be instantiated as a PERSON. <p>NEHTA</p>
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	SHARED HEALTH SUMMARY	1..1	

2.4 DateTime Attested

Identification

Label	DateTime Attested
Metadata Type	Data Element
Identifier	DE-20106
OID	1.2.36.1.2001.1001.101.103.20106

Definition

Definition	The date (and time if known) that the document author or document authoriser/approver confirms (usually by signature) that a document is complete and genuine.
Definition Source	NEHTA
Synonymous Names	Date Sent DateTime Document Sent DateTime Document Transmitted
Context	For use in a healthcare setting. The date and time value when the document author determines the document is complete and can be sent by the authoring provider to the document recipients. In an electronic environment, the date and time when the document is last saved by the document authoring application.
Context Source	NEHTA
Data Type	DateTime

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	SHARED HEALTH SUMMARY	1..1	

2.5 ADVERSE REACTIONS

Identification

Label	ADVERSE REACTIONS
Metadata Type	Section
Identifier	S-20113
OID	1.2.36.1.2001.1001.101.101.20113

Definition

Definition	Information about adverse reactions and/or propensity to adverse reaction of the patient (including allergies and intolerances), and any relevant reaction details.
Definition Source	NEHTA
Synonymous Names	
Scope	Includes allergies and adverse reaction to all substances not just medications / medicines. This might include food allergies, bee sting allergies as well as prescription and nonprescription medicines.
Scope Source	NEHTA

Usage

Conditions of Use	Additional obligation and occurrence constraints: <ul style="list-style-type: none"> Each instance of this section either SHALL have exactly one instance of 'EXCLUSION STATEMENT - ADVERSE REACTIONS' OR SHALL have one or more instances of 'ADVERSE REACTION' but SHALL NOT have both.
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	SHARED HEALTH SUMMARY	1..1	

Children

Data Type	Name	Occurrences	Condition
	EXCLUSION STATEMENT - ADVERSE REACTIONS	0..1	

Data Type	Name	Occurrences	Condition
	ADVERSE REACTION	0..*	

2.6 MEDICATION ORDERS

Identification

Label	Medications
Metadata Type	Section
Identifier	S-16146
OID	1.2.36.1.2001.1001.101.101.16146

Definition

Definition	Medicines which the subject of care is using, this includes self-prescribed, clinician prescribed and nonprescription medicines.
Definition Source	NEHTA
Synonymous Names	
Scope	Inclusion of medicines will be at the discretion of the clinician; however it is likely that predominantly long-term medicines will be shared.
Scope Source	NEHTA
Notes	Must not be used to record vaccine administration record of the subject of care. The Administered Immunisation section must be used for this purpose.

Usage

Conditions of Use	Additional obligation and occurrence constraints: <ul style="list-style-type: none"> Each instance of this section either SHALL have exactly one instance of 'EXCLUSION STATEMENT - MEDICATIONS' OR SHALL have one or more instances of 'Known Medication (MEDICATION INSTRUCTION)' but SHALL NOT have both.
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	SHARED HEALTH SUMMARY	1..1	

Children

Data Type	Name	Occurrences	Condition
	EXCLUSION STATEMENT - MEDICATIONS	0..1	
	Known Medication (MEDICATION INSTRUCTION)	0..*	

2.7 MEDICAL HISTORY

Identification

Label	Past and Current Medical History
Metadata Type	Section
Identifier	S-16117
OID	1.2.36.1.2001.1001.101.101.16117

Definition

Definition	The past and current medical history of the subject of care which is relevant to the clinical event, this includes problem/diagnosis and medical or surgical procedures performed.
Definition Source	NEHTA
Synonymous Names	
Notes	This includes diagnoses that were identified at the event which are significant to it, and also any interventions performed during the event or those occurring in the past that are significant to it.

Usage

Conditions of Use	<p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> Each instance of this section with a child of type 'EXCLUSION STATEMENT - PROBLEMS AND DIAGNOSES' SHALL NOT have a child of type 'PROBLEM/DIAGNOSIS'. Each instance of this section with a child of type 'EXCLUSION STATEMENT - PROCEDURES' SHALL NOT have a child of type 'PROCEDURE'. Unless an instance of this section has two exclusion statement children, it SHALL have at least one instance of 'PROBLEM/DIAGNOSIS' OR 'PROCEDURE' OR 'Other Medical History Item (MEDICAL HISTORY ITEM)'.
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	SHARED HEALTH SUMMARY	1..1	

Children

Data Type	Name	Occurrences	Condition
	PROBLEM/DIAGNOSIS	0..*	
	EXCLUSION STATEMENT - PROBLEMS AND DIAGNOSES	0..1	
	Procedure (PROCEDURE)	0..*	
	EXCLUSION STATEMENT - PROCEDURES	0..1	
	Other Medical History Item (MEDICAL HISTORY ITEM)	0..*	

2.8 IMMUNISATIONS

Identification

Label	IMMUNISATIONS
Metadata Type	Section
Identifier	S-16638
OID	1.2.36.1.2001.1001.101.101.16638

Definition

Definition	Information about the immunisation history of the subject of care.
Definition Source	NEHTA
Synonymous Names	
Scope	Includes immunisations/vaccinations that have been administered or reported to have been administered.
Scope Source	NEHTA

Usage

Conditions of Use	<p>Additional obligation and occurrence constraints:</p> <ul style="list-style-type: none"> Each instance of this section either SHALL have exactly one instance of 'Exclusion Statement - Immunisations (EXCLUSION STATEMENT - MEDICATIONS)' OR SHALL have one or more instances of 'Administered Immunisation (MEDICATION ACTION)' but SHALL NOT have both.
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	SHARED HEALTH SUMMARY	1..1	

Children

Data Type	Name	Occurrences	Condition
	Administered Immunisation (MEDICATION ACTION)	0..*	

Data Type	Name	Occurrences	Condition
	Exclusion Statement - Immunisations (EXCLUSION STATEMENT - MEDICATIONS)	0..1	

3 Exclusion Statement - Adverse Reactions Data Group

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 data group 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 on adverse reaction to a substance.

3.3 EXCLUSION STATEMENT - ADVERSE REACTIONS

Identification

Label	EXCLUSION STATEMENT - ADVERSE REACTIONS
Metadata Type	Data Group
Identifier	DG-16137
OID	1.2.36.1.2001.1001.101.102.16137

Definition

Definition	Statements about Adverse Reactions that need to be positively recorded as absent or excluded.
Definition Source	openEHR Foundation
Synonymous Names	Exclusion No Nil significant Nil relevant
Scope	To positively record the absence or exclusion of any adverse reactions within the health record.
Scope Source	openEHR Foundation

Usage

Conditions of Use	This is a reuse of the EXCLUSION STATEMENT - ADVERSE REACTION data group, which is described in Adverse Reaction Detailed Clinical Model Specification [NEHT2011bb] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	ADVERSE REACTIONS	0..1	

Children

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	

Data Type	Name	Occurrences	Condition
	No Known Adverse Reaction to	0..0	-
	No Known Allergic Reaction to	0..0	-
	No Known Hypersensitivity Reaction to	0..0	-
	No Known Intolerance to	0..0	-
	INFORMATION PROVIDER	0..0	-
	SUBJECT	0..0	-
	Exclusion Statement - Adverse Reactions Identifier	0..0	-
	LINK	0..0	-
	Detailed Clinical Model Identifier	1..0	-

3.4 Global Statement

Identification

Label	Global Statement
Metadata Type	Data Element
Identifier	DE-16302
OID	1.2.36.1.2001.1001.101.103.16302

Definition

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

Usage

Conditions of Use	Captures any information that is needed to be explicitly recorded as being absent or excluded within the record.
Conditions of Use Source	openEHR Foundation
Examples	

Relationships

Parents

Data Type	Name	Occurrences	Condition
	EXCLUSION STATEMENT - ADVERSE REACTIONS	1..1	

3.5 Global Statement Values

Identification

Label	Global Statement Values
Metadata Type	Value Domain
Identifier	VD-16299
OID	1.2.36.1.2001.1001.101.104.16299

Definition

Definition	The set of values for the global statements about the exclusion.
Definition Source	openEHR Foundation

Value Domain

Source	NEHTA	
Permissible Values	<i>Not asked</i>	No information about adverse reactions to any substance is available because the patient was not asked or not able to be asked
	<i>None known</i>	No information about adverse reactions to any substance is known
	<i>None supplied</i>	No information about adverse reactions to any substance is supplied
	Please see Appendix A, Known Issues	

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	

4 Adverse Reaction Data Group

4.1 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. Gentamycin), drug-drug interactions, food-drug interactions, drug-disease interactions and idiosyncratic reactions).

4.2 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:

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

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 and 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. Additional details can be added as cluster data groups using the 'Further Exposure Details' and 'Further Reaction Details' slots. Similarly, additional details that are required only for reporting can be added using the 'Reporting Details' slot.

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/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/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/reporter, and
- a flag for absolute contra-indication.

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 it is available.

4.3 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/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.

4.4 ADVERSE REACTION

Identification

Label	ADVERSE REACTION
Metadata Type	Data Group
Identifier	DG-15517
OID	1.2.36.1.2001.1001.101.102.15517

Definition

Definition	A harmful or undesirable effect associated with exposure to any substance or agent, including food, plants, animals, venom from animal stings or a medication at therapeutic or sub-therapeutic doses.
Definition Source	NEHTA
Synonymous Names	

Usage

Conditions of Use	This is a reuse of the ADVERSE REACTION data group, which is described in Adverse Reaction Detailed Clinical Model Specification [NEHT2011bb] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	ADVERSE REACTIONS	0..*	

Children

Data Type	Name	Occurrences	Condition
	Substance/Agent	1..1	
	Absolute Contraindication	0..0	-
	Comment (Adverse Reaction Comment)	0..0	-
	REACTION EVENT	0..1	

Data Type	Name	Occurrences	Condition
	Reaction Reported	0..0	-
	Adverse Reaction Report	0..0	-
	Supporting Clinical Record Information	0..0	-
	INFORMATION PROVIDER	0..0	-
	SUBJECT	0..0	-
	Adverse Reaction Identifier	0..0	-
	LINK	0..0	-
	Detailed Clinical Model Identifier	1..0	-

4.5 Substance/Agent

Identification

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

Definition

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

Usage

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

Parents

Data Type	Name	Occurrences	Condition
	ADVERSE REACTION	1..1	

4.6 Substance/Agent Values

Identification

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

Definition

Definition	The set of values for the agent/substance causing the adverse reaction experienced by the patient.
Definition Source	NEHTA

Value Domain

Source	NEHTA
Permissible Values	<p>The permissible values are the members of the following 8 reference sets.</p> <p>From SNOMED CT-AU:</p> <ul style="list-style-type: none"> • 32570211000036100 <i>Substance foundation reference set</i> <p>From AMT:</p> <ul style="list-style-type: none"> • 929360061000036106 <i>Medicinal product reference set</i> • 929360081000036101 <i>Medicinal product pack reference set</i> • 929360071000036103 <i>Medicinal product unit of use reference set</i> • 929360021000036102 <i>Trade product reference set</i> • 929360041000036105 <i>Trade product pack reference set</i> • 929360031000036100 <i>Trade product unit of use reference set</i> • 929360051000036108 <i>Containerized trade product pack reference set</i>

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Substance/Agent	1..1	

4.7 REACTION EVENT

Identification

Label	REACTION EVENT
Metadata Type	Data Group
Identifier	DG-16474
OID	1.2.36.1.2001.1001.101.102.16474

Definition

Definition	Details about each adverse reaction event.
Definition Source	NEHTA
Synonymous Names	

Relationships

Parents

Data Type	Name	Occurrences	Condition
	ADVERSE REACTION	0..1	

Children

Data Type	Name	Occurrences	Condition
	Specific Substance/Agent	0..0	-
	Manifestation	1..*	
	Reaction Type	0..0	-
	Certainty (Adverse Reaction Certainty)	0..0	-
	Reaction Description	0..0	-
	Onset of Reaction (Reaction Onset Date)	0..0	-
	Duration of Reaction	0..0	-
	Additional Reaction Detail (ANATOMICAL LOCATION)	0..0	-

Data Type	Name	Occurrences	Condition
 T	Exposure-Description	0..0	-
 MAY 7 th	Earliest Exposure	0..0	-
	Duration of Exposure	0..0	-
	ADDITIONAL EXPOSURE DETAIL	0..0	-
 T	Clinical Management Description	0..0	-
	Multimedia	0..0	-
 T	Reporting Details	0..0	-
 T	Comment (Adverse Reaction Event Comment)	0..0	-

4.8 Manifestation

Identification

Label	Manifestation
Metadata Type	Data Element
Identifier	DE-15564
OID	1.2.36.1.2001.1001.101.103.15564

Definition

Definition	Clinical manifestation of the adverse reaction expressed as a single word, phrase or brief description.
Definition Source	NEHTA
Synonymous Names	Reaction
Notes	<p>The signs, symptoms, severity and/or certainty of the adverse reaction are relevant as it contributes 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>
Data Type	CodeableText
Value Domain	Clinical Manifestation Values

Usage

Examples	<ol style="list-style-type: none"> 1. Itchy eyes. 2. Dysphagia. 3. Tinnitus. 4. Nausea. 5. Rash.
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	REACTION EVENT	1..*	

4.9 Clinical Manifestation Values

Identification

Label	Clinical Manifestation Values
Metadata Type	Value Domain
Identifier	VD-15564
OID	1.2.36.1.2001.1001.101.104.15564
External Identifier	SNOMED CT-AU Concept ID: 32570071000036102

Definition

Definition	The Clinical Manifestation values reference set provides the broadest possible terminology to support the recording of Clinical manifestation of the adverse reaction in Australian eHealth implementations.
Definition Source	NEHTA

Value Domain

Source	SNOMED CT-AU
Permissible Values	<p><i>Not Defined</i></p> <p>Mapped to Clinical finding foundation reference set (SNOMED CT-AU Concept ID: 32570071000036102).</p> <p>Please see Appendix A, Known Issues</p>

Relationships

Parents

Data Type	Name	Occurrences	Condition
 001011001	Manifestation	1..1	

5 Exclusion Statement - Medications Data Group

5.1 Purpose

To positively record the absence or exclusion of any medication use within the health record.

5.2 Use

Use to record the positive exclusion or absence of medication use within the health record. This data group avoids the need to use terminology to express negation about any item within the health record. This data group is only to be used to record 'point in time' or event-based information. It is not to be used for a persistent storage of information as the patient should always be questioned about current or past medication use prior to initiation of any treatment or management plan.

5.3 EXCLUSION STATEMENT - MEDICATIONS

Identification

Label	EXCLUSION STATEMENT - MEDICATIONS
Metadata Type	Data Group
Identifier	DG-16136
OID	1.2.36.1.2001.1001.101.102.16136

Definition

Definition	Statement positively asserting that the patient has not been prescribed or is not taking any medication.
Definition Source	openEHR Foundation
Scope	To positively record the absence or exclusion of any medication use within the health record.
Scope Source	openEHR Foundation

Usage

Conditions of Use	This is a reuse of the EXCLUSION STATEMENT - MEDICATIONS data group, which is described in Medication Instruction And Action Detailed Clinical Specification [NEHT2011ay] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Medications (MEDICATION ORDERS)	0..1	

Children

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	
	Not Currently Taking	0..0	-
	Not Ever Taken	0..0	-

Data Type	Name	Occurrences	Condition
	INFORMATION-PROVIDER	0..0	-
	SUBJECT	0..0	-
	Exclusion Statement - Medications Identifier	0..0	-
	LINK	0..0	-
	Detailed Clinical Model Identifier	1..0	-

5.4 Global Statement

Identification

Label	Global Statement
Metadata Type	Data Element
Identifier	DE-16302
OID	1.2.36.1.2001.1001.101.103.16302

Definition

Definition	The statement about the absence or exclusion of certain medication.
Definition Source	openEHR Foundation
Synonymous Names	
Context	Use to capture any information that is needed to be explicitly recorded as being absent or excluded within the record.
Context Source	openEHR Foundation
Data Type	CodedText
Value Domain	Global Statement Values

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	EXCLUSION STATEMENT - MEDICATIONS	1..1	

5.5 Global Statement Values

Identification

Label	Global Statement Values
Metadata Type	Value Domain
Identifier	VD-16299
OID	1.2.36.1.2001.1001.101.104.16299

Definition

Definition	The set of values for the statement about the absence or exclusion.
Definition Source	openEHR Foundation

Value Domain

Source	NEHTA	
Permissible Values	<i>Not asked</i>	No information about taking any medication is available because the patient was not asked or not able to be asked
	<i>None known</i>	No information about taking any medication is known
	<i>None supplied</i>	No information about taking any medication is supplied
	Please see Appendix A, Known Issues	

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	

6 Medication Instruction Data Group

6.1 Purpose

Recording intent to use or to continue to use a medicine, vaccine or other therapeutic good including instructions on use, dispensing and administration, where necessary.

6.2 Use

For recording instructions to dispense, administer or use a medicine, vaccine or other therapeutic good. This medication instruction can be used in many circumstances including: a record in a progress note; an item in a medication list, prescription or drug chart (to be dispensed and/or administered); or in a summary document such as discharge summary or a referral for care. The instruction may be complex and involve more than one activity, such as in the case of a reducing dose of Prednisolone, or multiple medications as components of the same order. This would include a written order by a physician, dentist, nurse practitioner, or other designated health professional for a medication to be dispensed and administered to a patient.

This instruction will generally apply to things that can be prescribed or are available 'over the counter'.

Use for orders for vaccinations or other therapeutic goods. These may be presented differently in different applications but require the same structure.

Use for the consistent representation of an item in a medication list comprising the medicines that a clinician collectively expect the individual to be taking.

The information recorded may separate dose, route and timing to achieve a computable and sharable specification but also allows for narrative instructions for orders like 'Frusemide 40mg two tablets in the morning and one at lunch' to ensure compatibility with existing systems. To achieve a structure statement for such compound orders, two items are required: 'Frusemide 40mg two tablets in the morning' and 'Frusemide 40mg one tablet at lunch'. The instruction will usually include information about the timing and dose (which may be structured) and in some settings will include the route of administration. The amount of the medicines will usually be given in terms of a number and a dose unit but may be a textual statement to ensure compatibility with existing systems and also coverage of all scenarios.

Use to represent a prescription item for a medicine, vaccine or other therapeutic good within a document such as an electronic prescription or a medication chart.

The content is potentially complex. Where the content is re-usable in other contexts, especially the paired Medication Action DCM (for recording dispensing, administration etc) the content has been specified in re-useable data groups. For example: Amount and Amount range data groups contain the detail about Medication dose; Timing data group contains detail about structured dose timing; Medication administration data group contains structure around administration for both the order and the action; and Chemical description data group described the specific ingredients within a medicine. All of these data groups together are required to make up the total maximal dataset for a re-useable medication instruction.

6.3 Misuse

Not to be used to record administration, use or dispensing. (For those use Medication Action DCM)

Not to be used to record ordering of blood products, implants or major devices such as pacemakers and defibrillators, etc.

6.4 MEDICATION INSTRUCTION

Identification

Label	Known Medication
Metadata Type	Data Group
Identifier	DG-16211
OID	1.2.36.1.2001.1001.101.102.16211

Definition

Definition	Information pertaining to one or more therapeutic goods that is represented to achieve, or is likely to achieve, its principal intended action by pharmacological, chemical, immunological or metabolic means in or on the body of a human.
Definition Source	NEHTA
Synonymous Names	Drug Medicine Potion Therapeutic
Scope	For use in the healthcare setting. Captures detailed information on the medication being used by or prescribed for the subject of care for their personal healthcare. This only includes legal substances. Such information covers not only aspects of the medication itself, but information relating to the ordering, dispensing, administration and review of medications. The specifications herein are presented grouped according to these process states. Recording legal substances such as over-the-counter medications, complementary and alternative medications, and prescribed medications.
Scope Source	NEHTA

Usage

Conditions of Use	This is a reuse of the MEDICATIONS data group, which is described in Medication Instruction And Action Detailed Clinical Specification [NEHT2011ay] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Medications (MEDICATION ORDERS)	0..*	

Children

Data Type	Name	Occurrences	Condition
	Medicine (Therapeutic Good Identification)	1..1	
	Directions	1..1	
	Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)	0..0	-
	Dose-Description	0..0	-
	Structured Dose (AMOUNT OF MEDICATION)	0..0	-
	TIMING	0..0	-
	Additional Instruction	0..0	-
	Clinical Indication	0..1	
	Administration-Details (MEDICATION ADMINISTRATION)	0..0	-
	Comment (Medication Instruction Comment)	0..1	
	DISPENSING	0..0	-
	Change-Type	0..0	-
	Change or Recommendation? (Change-Status)	0..0	-
	Change-Description	0..0	-
	Change-Reason (Change or Recommendation-Reason)	0..0	-
	Indication for Authorised Use	0..0	-
	Medication Instruction ID	0..0	-
	Concession-Benefit	0..0	-
	INFORMATION-PROVIDER	0..0	-
	SUBJECT	0..0	-
	Medication Instruction Narrative	0..0	-
	DateTime Medication Instruction Expires	0..0	-

Data Type	Name	Occurrences	Condition
	Medication Instruction Identifier	0..0	-
	LINK	0..0	-
	Detailed Clinical Model Identifier	1..0	-

6.5 Therapeutic Good Identification

Identification

Label	Medicine
Metadata Type	Data Element
Identifier	DE-10194
OID	1.2.36.1.2001.1001.101.103.10194

Definition

Definition	The medicine, vaccine or other therapeutic good being ordered, administered to or used by the subject of care.
Definition Source	Therapeutic Goods Administration
Synonymous Names	Item Name
Context	This includes medications and medical devices. It includes drugs, appliances, dressings and reagents.
Context Source	NEHTA
Notes	<p>Identifies a therapeutic good, which is broadly defined as a good which is represented in any way to be, or is likely to be taken to be, for therapeutic use (unless specifically excluded or included under Section 7 of the Therapeutic Goods Act 1989).</p> <p>Therapeutic use means use in or in connection with:</p> <ul style="list-style-type: none"> • preventing, diagnosing, curing or alleviating a disease, ailment, defect or injury; • influencing, inhibiting or modifying a physiological process; • testing the susceptibility of persons to a disease or ailment; • influencing, controlling or preventing conception; • testing for pregnancy; or • replacement or modification of parts of the anatomy. <p>From [TGA1989a].</p> <p>The formal definition of a therapeutic good (from the Therapeutic Goods Act 1989) can be found at: [TGA1989a].</p>
Data Type	CodeableText
Value Domain	Medicines Terminology

Usage

Conditions of Use	Where the therapeutic good can be identified by an AMT (Australian Medicines Terminology) concept, this SHALL be the AMT ConceptID and Preferred Term. For details see Medicines Terminology .
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Conditions of Use Source	For items without an AMT code (including some extemporaneous preparations), a text description is suitable. For a medication this SHALL include the name of the medication (brand name or generic name equivalent), strength and dose form, where appropriate.
Examples	<p>NEHTA</p> <p>Some examples of AMT ConceptID and their AMT Preferred Term are:</p> <ol style="list-style-type: none"> 293049011000036110, paracetamol 500 mg + codeine phosphate 30 mg tablet 327004011000036118, paracetamol 500 mg + codeine phosphate 30 mg tablet, 20 234184011000036115, Panadeine Forte tablet: uncoated, 20 tablets 192727011000036112, Panadeine Forte (paracetamol 500 mg + codeine phosphate 30 mg) tablet: uncoated, 1 tablet 278453011000036118, Panadeine Forte tablet: uncoated, 20 tablets, blister pack 315236011000036113, bandage compression 10 cm x 3.5 m bandage: high stretch, 1 bandage 186324011000036116, Eloflex (2480) (bandage compression 10 cm x 3.5 m) bandage: high stretch, 1 bandage 73875011000036101, Je-Vax (Japanese encephalitis virus inactivated vaccine) injection: powder for, vial
Misuse	Detailing the formula of a compounded (extemporaneous) medication.

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Known Medication (MEDICATION INSTRUCTION)	1..1	

6.6 Medicines Terminology

Identification

Label	Medicines Terminology
Metadata Type	Value Domain
Identifier	VD-16115
OID	1.2.36.1.2001.1001.101.104.16115

Definition

Definition	A set of values used to refer to medicines and other therapeutic goods.
Definition Source	NEHTA
Notes	<p>An explanation of AMT concepts can be found in Australian Medicines Terminology Editorial Rules [NEHT2009r].</p> <p>Prescribing and dispensing use different sets of values.</p>

Value Domain

Source	Australian Medicines Terminology
Permissible Values	<p>The permissible values are the members of the following 7 AMT reference sets:</p> <ul style="list-style-type: none"> • 929360061000036106 <i>Medicinal product reference set</i> • 929360081000036101 <i>Medicinal product pack reference set</i> • 929360071000036103 <i>Medicinal product unit of use reference set</i> • 929360021000036102 <i>Trade product reference set</i> • 929360041000036105 <i>Trade product pack reference set</i> • 929360031000036100 <i>Trade product unit of use reference set</i> • 929360051000036108 <i>Containerised trade product pack reference set</i>

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Medicine (Therapeutic Good Identification)	1..1	

6.7 Directions

Identification

Label	Directions
Metadata Type	Data Element
Identifier	DE-16429
OID	1.2.36.1.2001.1001.101.103.16429

Definition

Definition	A complete narrative description of how much, when and how to use the medicine, vaccine or other therapeutic good.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Conditions of Use	It is essential that when the "Directions" data element is used together with structured information components such as "Ingredient and Form" and "Structured Dose" in clinical records or prescriptions, the contents of "Direction" must not contradict the contents of these structured information components.
Conditions of Use Source	NEHTA
Examples	

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Known Medication (MEDICATION INSTRUCTION)	1..1	

6.8 Clinical Indication

Identification

Label	Clinical Indication
Metadata Type	Data Element
Identifier	DE-10141
OID	1.2.36.1.2001.1001.101.103.10141

Definition

Definition	A reason for ordering the medicine, vaccine or other therapeutic good.
Definition Source	NEHTA
Synonymous Names	Reason for prescribing
Notes	The clinical justification (e.g. specific therapeutic effect intended) for this subject of care's use of the therapeutic good.
Data Type	Text

Usage

Conditions of Use	For inpatient discharge summaries, this should always be recorded.
Conditions of Use Source	NEHTA
Examples	1. Long-term maintenance treatment of bronchospasm and dyspnoea.

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Known Medication (MEDICATION INSTRUCTION)	0..1	

6.9 Medication Instruction Comment

Identification

Label	Comment
Metadata Type	Data Element
Identifier	DE-16044
OID	1.2.36.1.2001.1001.101.103.16044

Definition

Definition	Any additional information that may be needed to ensure the continuity of supply, rationale for current dose and timing, or safe and appropriate use.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Examples	<ol style="list-style-type: none"> 1. Patient requires an administration aid. 2. Portable Pulse Oximeter measurement to be taken by clipping the sensor onto the tip of a finger. 3. Consulted prescriber concerning dose.
Misuse	Use for information that could be recorded as structured data.

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Known Medication (MEDICATION INSTRUCTION)	0..1	

7 Problem/Diagnosis Data Group

7.1 Purpose

To record details about a problem or diagnosis by a clinician.

7.2 Use

Use to record detailed information about problems or diagnoses recognised by a clinician. There are many uses including: recording a Diagnosis during an Encounter; populating a Problem List or a Summary Statement, such as a Discharge Summary.

Use to record all problems or diagnoses, including those with context-specific qualifiers such as past/present, primary/secondary, active/inactive etc. These qualifiers can be documented separately and included in the 'Status' data group, because their use varies in different settings.

7.3 Misuse

Not to be used to record 'Differential Diagnoses' - use the *Differential Diagnosis* DCM.

Not to be used to record 'Reason for Encounter' - use the *Reason for Encounter* DCM.

Not to be used to record 'Presenting Complaint' - which is information captured early in the encounter, usually prior to full assessment and will be represented using a separate DCM.

Not to be used to record procedures - use the *Procedure* DCM.

Not to be used to record symptoms or signs - these should be recorded as part of a patient story or history. A problem such as 'Chest pain' may masquerade as a symptom, however in this context we are recording it as a problem the person has.

7.4 PROBLEM/DIAGNOSIS

Identification

Label	PROBLEM/DIAGNOSIS
Metadata Type	Data Group
Identifier	DG-15530
OID	1.2.36.1.2001.1001.101.102.15530

Definition

Definition	The problems and/or diagnoses that form part of the past and current medical history of the subject of care.
Definition Source	NEHTA
Synonymous Names	
Notes	<p>An account of relevant identified health related problems as reported by a healthcare provider. This can include a disease, condition, injury, poisoning, sign, symptom, abnormal finding, complaint, or other factor influencing health status as assessed by a healthcare provider.</p> <p>This item is repeated for every instance of a problem/diagnosis.</p>

Usage

Conditions of Use	This is a reuse of the PROBLEM/DIAGNOSIS data group, which is described in Problem Diagnosis Detailed Clinical Model Specification [NEHT2011az] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Past and Current Medical History (MEDICAL HISTORY)	0..*	

Children

Data Type	Name	Occurrences	Condition
	Problem/Diagnosis (Problem/Diagnosis Identification)	1..1	
	Clinical Description	0..0	-

Data Type	Name	Occurrences	Condition
	Severity	0..0	-
	Date of Onset	0..1	
	Age at Onset	0..0	-
	ANATOMICAL LOCATION	0..0	-
	Occurrence Summary (PROBLEM/DIAGNOSIS OCCURRENCE SUMMARY)	0..0	-
	RELATED ITEMS	0..0	-
	Date of Resolution/Remission	0..1	
	Age at Resolution/Remission	0..0	-
	Diagnostic Criteria	0..0	-
	Clinical Stage/Grade	0..0	-
	Comment (Problem/Diagnosis Comment)	0..1	
	Link to Supporting Clinical Evidence	0..0	-
	Status	0..0	-
	INFORMATION PROVIDER	0..0	-
	SUBJECT	0..0	-
	Problem/Diagnosis Identifier	0..0	-
	LINK	0..0	-
	Detailed Clinical Model Identifier	1..0	-

7.5 Problem/Diagnosis Identification

Identification

Label	Problem/Diagnosis
Metadata Type	Data Element
Identifier	DE-15514
OID	1.2.36.1.2001.1001.101.103.15514

Definition

Definition	Identification of the problem or diagnosis.
Definition Source	NEHTA
Synonymous Names	
Notes	This item denotes the name of the condition used by the healthcare provider, after assessment, to describe the health problem or diagnosis experienced by the subject of care.
Data Type	CodeableText
Value Domain	Problem/Diagnosis Reference Set

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	PROBLEM/DIAGNOSIS	1..1	

7.6 Problem/Diagnosis Reference Set

Identification

Label	Problem/Diagnosis Reference Set
Metadata Type	Value Domain
Identifier	VD-16617
OID	1.2.36.1.2001.1001.101.104.16617
External Identifier	SNOMED CT-AU Concept Id: 32570581000036105

Definition

Definition	The Problem/Diagnosis reference set provides terminology to support the recording of a patient problem or diagnosis for medical records within Australia.
Definition Source	NEHTA

Value Domain

Source	SNOMED CT-AU
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	Problem/Diagnosis (Problem/Diagnosis Identification)	1..1	

7.7 Date of Onset

Identification

Label	Date of Onset
Metadata Type	Data Element
Identifier	DE-15507
OID	1.2.36.1.2001.1001.101.103.15507

Definition

Definition	Estimated or actual date the problem/diagnosis began, in the opinion of the clinician.
Definition Source	NEHTA
Synonymous Names	
Data Type	DateTime

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	PROBLEM/DIAGNOSIS	0..1	

7.8 Date of Resolution/Remission

Identification

Label	Date of Resolution/Remission
Metadata Type	Data Element
Identifier	DE-15510
OID	1.2.36.1.2001.1001.101.103.15510

Definition

Definition	The date or estimated date that the problem/diagnosis resolved or went into remission, as indicated/identified by the clinician.
Definition Source	NEHTA
Synonymous Names	
Data Type	DateTime

Usage

Conditions of Use	Record only date, time SHALL NOT be recorded.
Conditions of Use Source	NEHTA
Examples	

Relationships

Parents

Data Type	Name	Occurrences	Condition
	PROBLEM/DIAGNOSIS	0..1	

7.9 Problem/Diagnosis Comment

Identification

Label	Comment
Metadata Type	Data Element
Identifier	DE-16545
OID	1.2.36.1.2001.1001.101.103.16545

Definition

Definition	Additional narrative about the problem or diagnosis not captured in other fields.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	PROBLEM/DIAGNOSIS	0..1	

8 Exclusion Statement - Problems and Diagnoses Data Group

8.1 Purpose

To positively record the absence or exclusion of any problems or diagnoses within the health record.

8.2 Use

Use to record the positive exclusion or absence of problems or diagnoses within the health record. This detailed clinical model (DCM) avoids the need to use terminology to express negation about any problem or diagnoses within the health record. This DCM is only to be used to record 'point in time' information. It is not to be used for a persistent storage of information as the patient should always be questioned about past or existing problems or diagnoses should always be performed prior to initiation of any treatment or management plan.

8.3 EXCLUSION STATEMENT - PROBLEMS AND DIAGNOSES

Identification

Label	EXCLUSION STATEMENT - PROBLEMS AND DIAGNOSES
Metadata Type	Data Group
Identifier	DG-16138
OID	1.2.36.1.2001.1001.101.102.16138

Definition

Definition	Statements that positively assert that the patient does not have the problem or diagnosis.
Definition Source	openEHR Foundation
Scope	To positively record the absence or exclusion of any problems or diagnoses within the health record.
Scope Source	openEHR Foundation

Usage

Conditions of Use	<p>Use to record the positive exclusion or absence of problems or diagnoses within the health record. This data group avoids the need to use terminology to express negation about any problem or diagnosis within the health record. The positive assertion and persistence of absence of problem or diagnosis is time specific. It is important to note that patient's condition should be reviewed and required to validate such statement at each encounter.</p> <p>This is a reuse of the EXCLUSION STATEMENT - PROBLEMS/DIAGNOSES data group, which is described in Problem Diagnosis Detailed Clinical Model Specification [NEHT2011az].</p>
Conditions of Use Source	openEHR Foundation

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Past and Current Medical History (MEDICAL HISTORY)	0..1	

Children

Data Type	Name	Occurrences	Condition
 Global Statement	Global Statement	1..1	
 No Previous History of	No Previous History of	0..0	-
 No Evidence of	No Evidence of	0..0	-
 INFORMATION PROVIDER	INFORMATION PROVIDER	0..0	-
 SUBJECT	SUBJECT	0..0	-
 Exclusion Statement – Problems and Diagnoses Identifier	Exclusion Statement – Problems and Diagnoses Identifier	0..0	-
 LINK	LINK	0..0	-
 Detailed Clinical Model Identifier	Detailed Clinical Model Identifier	1..0	-

8.4 Global Statement

Identification

Label	Global Statement
Metadata Type	Data Element
Identifier	DE-16302
OID	1.2.36.1.2001.1001.101.103.16302

Definition

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

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	EXCLUSION STATEMENT - PROBLEMS AND DIAGNOSES	1..1	

8.5 Global Statement Values

Identification

Label	Global Statement Values
Metadata Type	Value Domain
Identifier	VD-16299
OID	1.2.36.1.2001.1001.101.104.16299

Definition

Definition	The set of values for the global statements about the exclusion of problems or diagnoses.
Definition Source	openEHR Foundation

Value Domain

Source	NEHTA	
Permissible Values	<i>Not asked</i>	No information about any problem or diagnosis is available because the patient was not asked or not able to be asked
	<i>None known</i>	No information about any problem or diagnosis is known
	<i>None supplied</i>	No information about any problem or diagnosis is supplied
	Please see Appendix A, Known Issues	

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	

9 Procedure (Action) Data Group

9.1 Purpose

To record information about the activities required to carry out a procedure, including the planning, scheduling, performance, suspension, cancellation, documentation and completion.

9.2 Use

Use to record information about the activities required to carry out a procedure, including the planning, scheduling, performance, suspension, cancellation, documentation and completion. This is done by the recording of data against specific activities in the care pathway, which covers the entirety of steps required to effect this action, including booking, performing, etc.

The scope of this DCM encompasses activities for a broad range of clinical procedures performed for therapeutic, evaluative, investigative, screening or diagnostic purposes. Examples range from the relatively simple activities, such as insertion of an intravenous cannula, through to complex surgical operations.

Additional structured and detailed information about the procedure can be captured using purpose-specific data groups inserted into the 'Procedure detail' slot, where required.

Start date/time is included in the Protocol. If this is recorded against the Scheduled care pathway step, it captures the scheduled start time; if recorded against the Procedure performed step, then it captures the actual start time of the procedure.

End date/time has not been specifically modelled in this DCM as this is the date/time that is recorded (per the reference model) as each action or care pathway step is completed.

Within the context of an Operation Report, this DCM will be used to record only what was done during the procedure. Separate DCMs will be used to record the other required components of the Operation Report, including the taking of tissue specimen samples, use of imaging guidance, operation findings, post-operative instructions and plans for followup.

Within the context of a Problem list or summary, this DCM may be used to represent procedures that have been performed. The Problem Diagnosis DCM will be used to represent the patient's problems and diagnoses.

In practice, many procedures (for example, in ambulatory care) will occur once and not be ordered in advance. The pathway step, 'Procedure completed' (or 'Failed attempt', or 'Procedure aborted') will be recorded and the details added. In some cases a recurring procedure will be ordered, and in this situation data against the 'Procedure undertaken' step will be recorded on each occasion, leaving the instruction in the active state. When the last occurrence is recorded the 'Procedure completed' action is recorded showing that this order is now in the completed state.

In other situations, such as secondary care, there may be a formal order for a procedure using corresponding DCMs. This Procedure DCM can then be used to record the workflow of when and how the order has been carried out.

Recording information using this Procedure DCM indicates that some sort of activity has actually occurred; this will usually be the procedure itself but may be a failed attempt or another activity such as postponing the procedure. If there is a formal order for the procedure, the state of this order is represented by the Pathway step against which the data is recorded. For example, using this DCM the progressing state of a Gastroscopy order may be recorded through separate entries in the EHR progress notes at each 'Pathway' step:

- record the scheduled Start date/time for the gastroscopy (Procedure scheduled);
- record the gastroscopy was attempted but failed (Failed attempt); and
- record that the gastroscopy procedure has been completed, including information about the procedure details (Procedure completed).

9.3 Misuse

Not to be used to record details about related DCMs such as use of imaging guidance during the procedure or collection of tissue samples for analysis - use specific DCMs for this purpose.

Not to be used to record a whole operation or procedure report.

Not to be used to record an observation such as a pathology test result or an imaging test.

9.4 PROCEDURE

Identification

Label	Procedure
Metadata Type	Data Group
Identifier	DG-15514
OID	1.2.36.1.2001.1001.101.102.15514

Definition

Definition	A clinical activity carried out for therapeutic, evaluative, investigative, screening or diagnostic purposes.
Definition Source	NEHTA
Synonymous Names	Clinical Intervention

Usage

Conditions of Use	This is a reuse of the PROCEDURE data group, which is described in Procedure Detailed Clinical Model Specification [NEHT2011ba] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Past and Current Medical History (MEDICAL HISTORY)	0..*	

Children

Data Type	Name	Occurrences	Condition
	Procedure Name	1..1	
	Description (Procedure Description)	0..0	-
	Reason (Procedure Reason)	0..0	-
	ANATOMICAL LOCATION	0..0	-

Data Type	Name	Occurrences	Condition
 T	Procedure-Detail	0..0	-
	Duration (Procedure-Duration)	0..0	-
	Multimedia	0..0	-
 T	Comment (Procedure Comment)	0..1	
	Start Date/Time (DateTime Started)	0..1	
	DEVICE	0..0	-
	INFORMATION-PROVIDER	0..0	-
	SUBJECT	0..0	-
	Procedure-Identifier	0..0	-
	LINK	0..0	-
	Detailed-Clinical-Model-Identifier	1..0	-

9.5 Procedure Name

Identification

Label	Procedure Name
Metadata Type	Data Element
Identifier	DE-15579
OID	1.2.36.1.2001.1001.101.103.15579

Definition

Definition	The name of the procedure (to be) performed.
Definition Source	NEHTA
Synonymous Names	
Data Type	CodeableText
Value Domain	Procedure Foundation Reference Set

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences	Condition
 Procedure (PROCEDURE)		1..1	

9.6 Procedure Foundation Reference Set

Identification

Label	Procedure Foundation Reference Set
Metadata Type	Value Domain
Identifier	VD-16580
OID	1.2.36.1.2001.1001.101.104.16580
External Identifier	SNOMED CT-AU Concept Id: 32570141000036105

Definition

Definition	The Procedure foundation reference set provides the broadest possible terminology to support the recording of clinical interventions in Australian eHealth implementations.
Definition Source	NEHTA

Value Domain

Source	SNOMED CT-AU
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	Procedure Name	1..1	

9.7 Procedure Comment

Identification

Label	Comment
Metadata Type	Data Element
Identifier	DE-15595
OID	1.2.36.1.2001.1001.101.103.15595

Definition

Definition	Additional narrative about the procedure not captured in other fields.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	Procedure (PROCEDURE)	0..1	

9.8 DateTime Started

Identification

Label	Start Date/Time
Metadata Type	Data Element
Identifier	DE-15507
OID	1.2.36.1.2001.1001.101.103.15507

Definition

Definition	The start date and/or time for the procedure.
Definition Source	NEHTA
Synonymous Names	Date Started Start Date Start Date and Time
Data Type	DateTime

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Procedure (PROCEDURE)	0..1	

10 Exclusion Statement - Procedures Data Group

10.1 Purpose

To positively record the non-performance or exclusion of general groups of procedures (e.g. "never had a surgical procedure") or specific procedures ("no history of appendectomy") within the health record.

10.2 Use

Use to record the positive non-performance or exclusion of general groups of procedures (e.g. "never had a surgical procedure") or specific procedures ("no history of appendectomy") within the health record. This detailed clinical model avoids the need to use terminology to express negation about any item within the health record.

10.3 EXCLUSION STATEMENT - PROCEDURES

Identification

Label	EXCLUSION STATEMENT - PROCEDURES
Metadata Type	Data Group
Identifier	DG-16603
OID	1.2.36.1.2001.1001.101.102.16603

Definition

Definition	Statements to positively assert that a certain procedure has not been performed on the patient.
Definition Source	NEHTA
Synonymous Names	
Notes	Assertions that procedures have NOT been performed.

Usage

Conditions of Use	This is a reuse of the EXCLUSION STATEMENT - PROCEDURES data group, which is described in Procedure Detailed Clinical Model Specification [NEHT2011ba] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Past and Current Medical History (MEDICAL HISTORY)	0..1	

Children

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	
	No-Previous History of	0..0	-
	INFORMATION-PROVIDER	0..0	-

Data Type	Name	Occurrences	Condition
	SUBJECT	0..0	-
	Exclusion Statement – Procedures Identifier	0..0	-
	LINK	0..0	-
	Detailed Clinical Model Identifier	1..0	-

10.4 Global Statement

Identification

Label	Global Statement
Metadata Type	Data Element
Identifier	DE-16302
OID	1.2.36.1.2001.1001.101.103.16302

Definition

Definition	The statement about the absence or exclusion of procedure performed on the patient.
Definition Source	openEHR Foundation
Synonymous Names	
Context	Use to capture any information that is needed to be explicitly recorded as being absent or excluded within the record.
Context Source	openEHR Foundation
Data Type	CodedText
Value Domain	Global Statement Values

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	EXCLUSION STATEMENT - PROCEDURES	1..1	

10.5 Global Statement Values

Identification

Label	Global Statement Values
Metadata Type	Value Domain
Identifier	VD-16299
OID	1.2.36.1.2001.1001.101.104.16299

Definition

Definition	The set of values for the statement about the absence or exclusion.
Definition Source	openEHR Foundation

Value Domain

Source	NEHTA	
Permissible Values	<i>Not asked</i>	No information about past procedures is available because the patient was not asked or not able to be asked
	<i>None known</i>	No information about past procedures is known
	<i>None supplied</i>	No information about past procedures is supplied
	Please see Appendix A, Known Issues	

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	

11 Medical History Item Data Group

11.1 Purpose

Allows recording of an entry in a medical history when it cannot be determined whether the entry is a Procedure or is a Problem/Diagnosis.

11.2 Misuse

Using this when the item can be identified as a Procedure or can be identified as a Problem/Diagnosis.

11.3 MEDICAL HISTORY ITEM

Identification

Label	Other Medical History Item
Metadata Type	Data Group
Identifier	DG-16627
OID	1.2.36.1.2001.1001.101.102.16627

Definition

Definition	A medical history entry which cannot be categorised into one of the categories such as Procedure and Problem/Diagnosis.
Definition Source	NEHTA
Synonymous Names	

Usage

Conditions of Use	This is a reuse of the MEDICAL HISTORY data group, which is described in Miscellaneous Detailed Clinical Model Specification [NEHT2011aq] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Past and Current Medical History (MEDICAL HISTORY)	0..*	

Children

Data Type	Name	Occurrences	Condition
	Medical History Item Description	1..1	
	Medical History Item Timeinterval	0..1	
	Medical History Item Comment	0..1	
	INFORMATION-PROVIDER	0..0	-

Data Type	Name	Occurrences	Condition
	SUBJECT	0..0	-
	Medical History Item Identifier	0..0	-
	LINK	0..0	-
	Detailed Clinical Model Identifier	1..0	-

11.4 Medical History Item Description

Identification

Label	Medical History Item Description
Metadata Type	Data Element
Identifier	DE-16628
OID	1.2.36.1.2001.1001.101.103.16628

Definition

Definition	A description of the problem, diagnosis, intervention or other medical history item.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Examples	<ol style="list-style-type: none"> 1. Hypercholesterolaemia. 2. Left Total Knee Replacement. 3. RLL pneumonia.
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	Other Medical History Item (MEDICAL HISTORY ITEM)	1..1	

11.5 Medical History Item Timeinterval

Identification

Label	Medical History Item Timeinterval
Metadata Type	Data Element
Identifier	DE-16629
OID	1.2.36.1.2001.1001.101.103.16629

Definition

Definition	The date range during which the item applied or occurred.
Definition Source	NEHTA
Synonymous Names	
Data Type	TimeInterval

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	Other Medical History Item (MEDICAL HISTORY ITEM)	0..1	

11.6 Medical History Item Comment

Identification

Label	Medical History Item Comment
Metadata Type	Data Element
Identifier	DE-16630
OID	1.2.36.1.2001.1001.101.103.16630

Definition

Definition	Free text comments providing additional information relevant to the item in question.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	Other Medical History Item (MEDICAL HISTORY ITEM)	0..1	

12 Medication Action Data Group

12.1 Purpose

The recording of activities undertaken with regard to a medicine, vaccine or other therapeutic good and linking to the instruction if appropriate.

12.2 Use

For recording the planning, issuing of a prescription, dispensing, administration, cessation, suspension, completion of a medicine, vaccine or other therapeutic good . This will usually be in response to a medication order but may be administered immediately without an order at times, thus requiring recording of the administration alone (e.g. in an emergency situation). Such a record may be made to indicate the administration of a dose, dispensing of a certain quantity or as a record of ceasing a medication. The state of the medication instruction is altered by the action taken as indicated in the Pathway definition.

There is a date and time at which this action took place (as there is for all actions) and use of this DCM indicates that some action has actually occurred.

12.3 Misuse

Use when recording an instruction or order (use Medication Instruction DCM).

12.4 MEDICATION ACTION

Identification

Label	Administered Immunisation
Metadata Type	Data Group
Identifier	DG-16210
OID	1.2.36.1.2001.1001.101.102.16210

Definition

Definition	The act of administering a dose of a vaccine to a person for the purpose of preventing or minimising the effects of a disease by producing immunity and/or to counter the effects of an infectious organism or insult.
Definition Source	NEHTA
Synonymous Names	Medication Item
Scope	It is specifically used for the vaccine administration record and is intended to enable recording of the vaccine administered to the subject of care.
Scope Source	NEHTA

Usage

Conditions of Use	This is a reuse of the MEDICATION ACTION data group, which is described in Medication Instruction And Action Detailed Clinical Specification [NEHT2011ay] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	IMMUNISATIONS	0..*	

Children

Data Type	Name	Occurrences	Condition
	Medicine (Therapeutic Good Identification)	1..1	
	Instructions to Subject of Care or Carer (Medication Action Instructions)	0..0	-

Data Type	Name	Occurrences	Condition
	Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)	0..0	-
	Reason (Reason for Action)	0..0	-
	Quantity of Medication (AMOUNT OF MEDICATION)	0..0	-
	Comment	0..0	-
	Vaccine Sequence Number (Sequence Number)	0..1	
	Administration (MEDICATION ADMINISTRATION)	0..0	-
	Brand Substituted (Brand Substitution Occurred)	0..0	-
	Batchid (Batch Identifier)	0..0	-
	Date of Expiry (Expiry Date)	0..0	-
	DISPENSED TO	0..0	-
	Number of Times Dispensed	0..0	-
	Remaining Repeats	0..0	-
	Claim Category	0..0	-
	Administrative Item Code	0..0	-
	Administrative Manufacturer Code	0..0	-
	INFORMATION PROVIDER	0..0	-
	SUBJECT	0..0	-
	Medication Action DateTime	1..1	

12.5 Therapeutic Good Identification

Identification

Label	Medicine
Metadata Type	Data Element
Identifier	DE-10194
OID	1.2.36.1.2001.1001.101.103.10194

Definition

Definition	The vaccine which was the focus of the action.
Definition Source	Therapeutic Goods Administration
Synonymous Names	Item Name
Context	This includes medications and medical devices. It includes drugs, appliances, dressings and reagents.
Context Source	NEHTA
Notes	<p>Identifies a therapeutic good, which is broadly defined as a good which is represented in any way to be, or is likely to be taken to be, for therapeutic use (unless specifically excluded or included under Section 7 of the Therapeutic Goods Act 1989).</p> <p>Therapeutic use means use in or in connection with:</p> <ul style="list-style-type: none"> • preventing, diagnosing, curing or alleviating a disease, ailment, defect or injury; • influencing, inhibiting or modifying a physiological process; • testing the susceptibility of persons to a disease or ailment; • influencing, controlling or preventing conception; • testing for pregnancy; or • replacement or modification of parts of the anatomy. <p>From [TGA1989a].</p> <p>The formal definition of a therapeutic good (from the Therapeutic Goods Act 1989) can be found at: [TGA1989a].</p>
Data Type	CodeableText
Value Domain	Medicines Terminology

Usage

Conditions of Use	Where the therapeutic good can be identified by an AMT (Australian Medicines Terminology) concept, this SHALL be the AMT ConceptID and Preferred Term. For details see Medicines Terminology .
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Conditions of Use Source	For items without an AMT code (including some extemporaneous preparations), a text description is suitable. For a medication this SHALL include the name of the medication (brand name or generic name equivalent), strength and dose form, where appropriate.
Examples	<p>NEHTA</p> <p>Some examples of AMT ConceptID and their AMT Preferred Term are:</p> <ol style="list-style-type: none"> 73875011000036101, Je-Vax (Japanese encephalitis virus inactivated vaccine) injection: powder for, vial 73802011000036101, Twinrix (hepatitis A virus inactivated vaccine 720 ELISA units + hepatitis B virus surface antigen vaccine 20 microgram) injection: suspension, 1 mL syringe 7177011000036104, Fluarix 2007 (influenza virus vaccine 2007) injection: suspension, 0.5 mL syringe
Misuse	Detailing the formula of a compounded (extemporaneous) medication.

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Administered Immunisation (MEDICATION ACTION)	1..1	

12.6 Medicines Terminology

Identification

Label	Medicines Terminology
Metadata Type	Value Domain
Identifier	VD-16115
OID	1.2.36.1.2001.1001.101.104.16115

Definition

Definition	A set of values used to refer to medicines and other therapeutic goods.
Definition Source	NEHTA
Notes	<p>An explanation of AMT concepts can be found in Australian Medicines Terminology Editorial Rules [NEHT2009r].</p> <p>Prescribing and dispensing use different sets of values.</p>

Value Domain

Source	Australian Medicines Terminology
Permissible Values	<p>The permissible values are the members of the following 4 AMT reference sets:</p> <ul style="list-style-type: none"> • {929360061000036106 <i>Medicinal product reference set</i>} • {929360081000036101 <i>Medicinal product pack reference set</i>} • {929360021000036102 <i>Trade product reference set</i>} • {929360041000036105 <i>Trade product pack reference set</i>}

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Medicine (Therapeutic Good Identification)	1..1	

12.7 Sequence Number

Identification

Label	Vaccine Sequence Number
Metadata Type	Data Element
Identifier	DE-16424
OID	1.2.36.1.2001.1001.101.103.16424

Definition

Definition	The sequence number specific to the action being recorded.
Definition Source	NEHTA
Synonymous Names	
Notes	Used to specify the sequence number of the vaccine that has been administered or reported to be administered.
Data Type	Integer

Usage

Examples

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Administered Immunisation (MEDICATION ACTION)	0..1	

12.8 Medication Action DateTime

Identification

Label	Medication Action DateTime
Metadata Type	Data Element
Identifier	DE-16591
OID	1.2.36.1.2001.1001.101.103.16591

Definition

Definition	The point in time at which the Medication Action is completed.
Definition Source	NEHTA
Synonymous Names	
Data Type	DateTime

Usage

Examples	
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Relationships

Parents

Data Type	Name	Occurrences	Condition
	Administered Immunisation (MEDICATION ACTION)	1..1	

13 Exclusion Statement - Medications Data Group

13.1 Purpose

To positively record the absence or exclusion of any medication use within the health record.

13.2 Use

Use to record the positive exclusion or absence of medication use within the health record. This data group avoids the need to use terminology to express negation about any item within the health record. This data group is only to be used to record 'point in time' or event-based information. It is not to be used for a persistent storage of information as the patient should always be questioned about current or past medication use prior to initiation of any treatment or management plan.

13.3 EXCLUSION STATEMENT - MEDICATIONS

Identification

Label	Exclusion Statement - Immunisations
Metadata Type	Data Group
Identifier	DG-16136
OID	1.2.36.1.2001.1001.101.102.16136

Definition

Definition	Statements that positively assert that the patient has not received immunisations.
Definition Source	openEHR Foundation
Synonymous Names	
Scope	To make a positive assertion that the patient is not given certain vaccines.
Scope Source	openEHR Foundation

Usage

Conditions of Use	This is a reuse of the EXCLUSION STATEMENT - MEDICATIONS data group, which is described in Medication Instruction And Action Detailed Clinical Specification [NEHT2011ay] .
Conditions of Use Source	NEHTA

Relationships

Parents

Data Type	Name	Occurrences	Condition
	IMMUNISATIONS	0..1	

Children

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	
	Not Currently Taking	0..0	-
	Not Ever Taken	0..0	-

Data Type	Name	Occurrences	Condition
	INFORMATION PROVIDER	0..0	-
	SUBJECT	0..0	-

13.4 Global Statement

Identification

Label	Global Statement
Metadata Type	Data Element
Identifier	DE-16302
OID	1.2.36.1.2001.1001.101.103.16302

Definition

Definition	The statement about the absence or exclusion of certain medication.
Definition Source	openEHR Foundation
Synonymous Names	
Context	Use to capture any information that is needed to be explicitly recorded as being absent or excluded within the record.
Context Source	openEHR Foundation
Data Type	CodedText
Value Domain	Global Statement Values

Usage

Examples	
-----------------	--

Relationships

Parents

Data Type	Name	Occurrences	Condition
	Exclusion Statement - Immunisations (EXCLUSION STATEMENT - MEDICATIONS)	1..1	

13.5 Global Statement Values

Identification

Label	Global Statement Values
Metadata Type	Value Domain
Identifier	VD-16299
OID	1.2.36.1.2001.1001.101.104.16299

Definition

Definition	The set of values for the statement about the absence or exclusion.
Definition Source	openEHR Foundation

Value Domain

Source	NEHTA	
Permissible Values	<i>Not asked</i>	No information about taking any medication is available because the patient was not asked or not able to be asked
	<i>None known</i>	No information about taking any medication is known
	<i>None supplied</i>	No information about taking any medication is supplied
	Please see Appendix A, Known Issues	

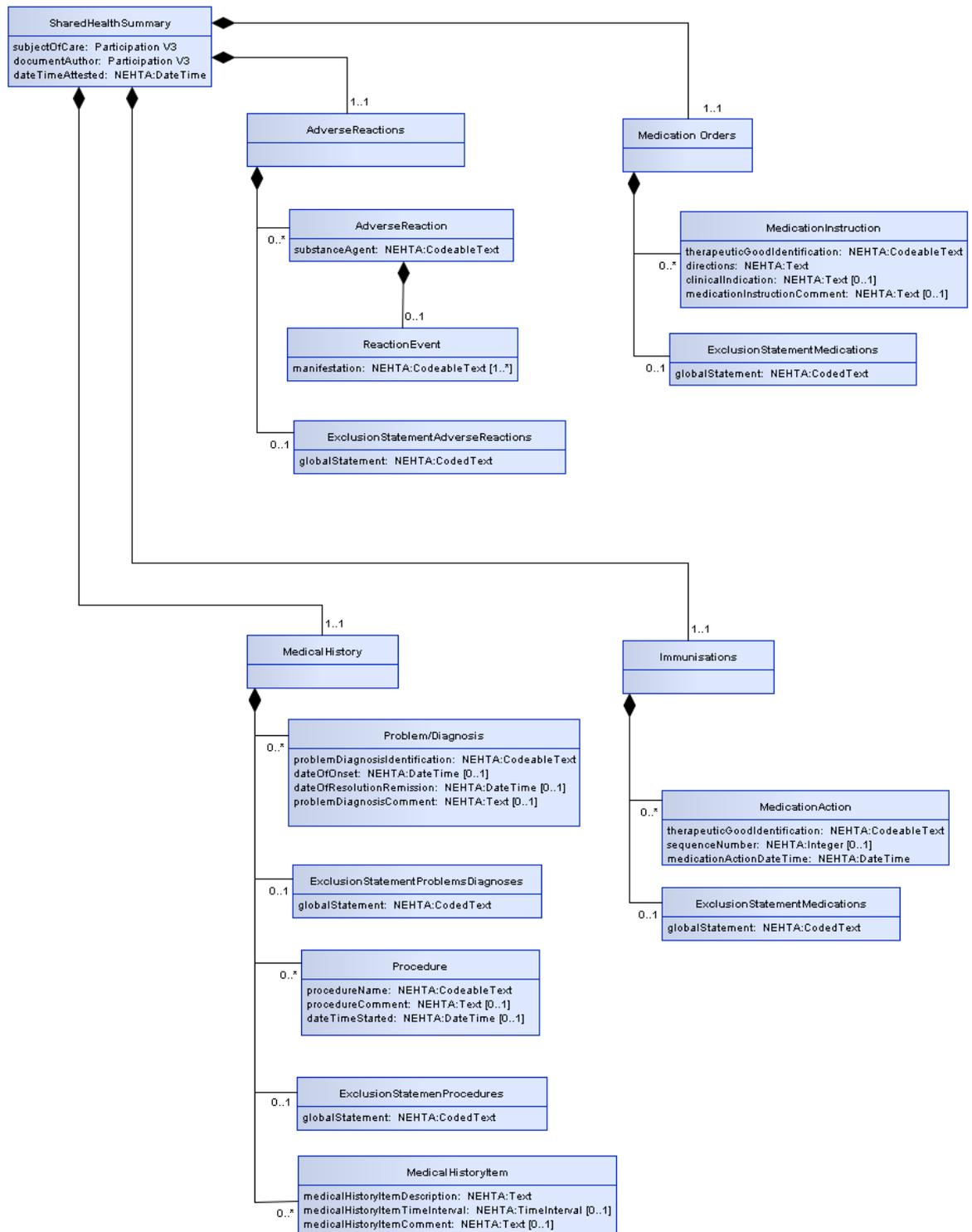
Relationships

Parents

Data Type	Name	Occurrences	Condition
	Global Statement	1..1	

14 UML Class Diagram

The following figure presents 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 names are represented as association role names. Association role names are only displayed if they differ from the associated class name. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.



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Appendix A. Known Issues

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

Reference	Description
Document Status	As a NEHTA Managed Specification, the contents of this document are the result of extensive clinical collaboration and editorial review, and the specification is considered to be "Final". Nonetheless, as software implementations and standards review of this specification progress, normative updates may be required.
"Global Statement Values" value domain	The list of permissible values is a sample set to initiate discussion and collaboration to develop the correct set of values.
Clinical Manifestation Values	The Clinical Manifestation Values value domain has not been defined. Until it is defined use the Clinical finding foundation reference set (SNOMED CT-AU Concept ID: 32570071000036102).
Links to external resources	If a link (usually in references section) spans across several lines, certain PDF readers have problems opening it.
DateTime Started	For a medical history the DateTime Started data element in the PROCEDURE data group should be treated as End DateTime. In the future releases this item will may be mapped as a TimeInterval. This is to facilitate the recording of start date, End date or a Time Interval.
Exclusion Statement	The Exclusion Statement detailed clinical models: <ul style="list-style-type: none"> EXCLUSION STATEMENT - ADVERSE REACTIONS EXCLUSION STATEMENT - MEDICATIONS EXCLUSION STATEMENT - PROBLEMS AND DIAGNOSES EXCLUSION STATEMENT - PROCEDURES EXCLUSION STATEMENT - MEDICATIONS are the subject of on-going development and review and may well change in the future.
Medicines Terminology	The described use of TPUU for administration of therapeutic goods does not work for vaccines where two or more components need to be combined prior to administration.
PROBLEMDIAGNOSS	The requirements for the PROBLEM/DIAGNOSIS data group do not distinguish between a clinical description of the problem/diagnosis and a comment on the problem/diagnosis. An issue has been raised as to whether this SCS should include PROBLEM/DIAGNOSIS.Clinical Description as well as or instead of the Problem/Diagnosis Comment data element.

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 conformance, compliance and accreditation testing of implemented systems. 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 construction of SCSs.

Each SCS specifies the data for a single type of clinical document or information exchange, such as a discharge summary. It is assembled using DCMs which 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 Structured Content Metamodel (see Figure 1) is used to specify the overall structure of a Structured Content Specification.

A DCM can be considered as a Data Group with no parent.

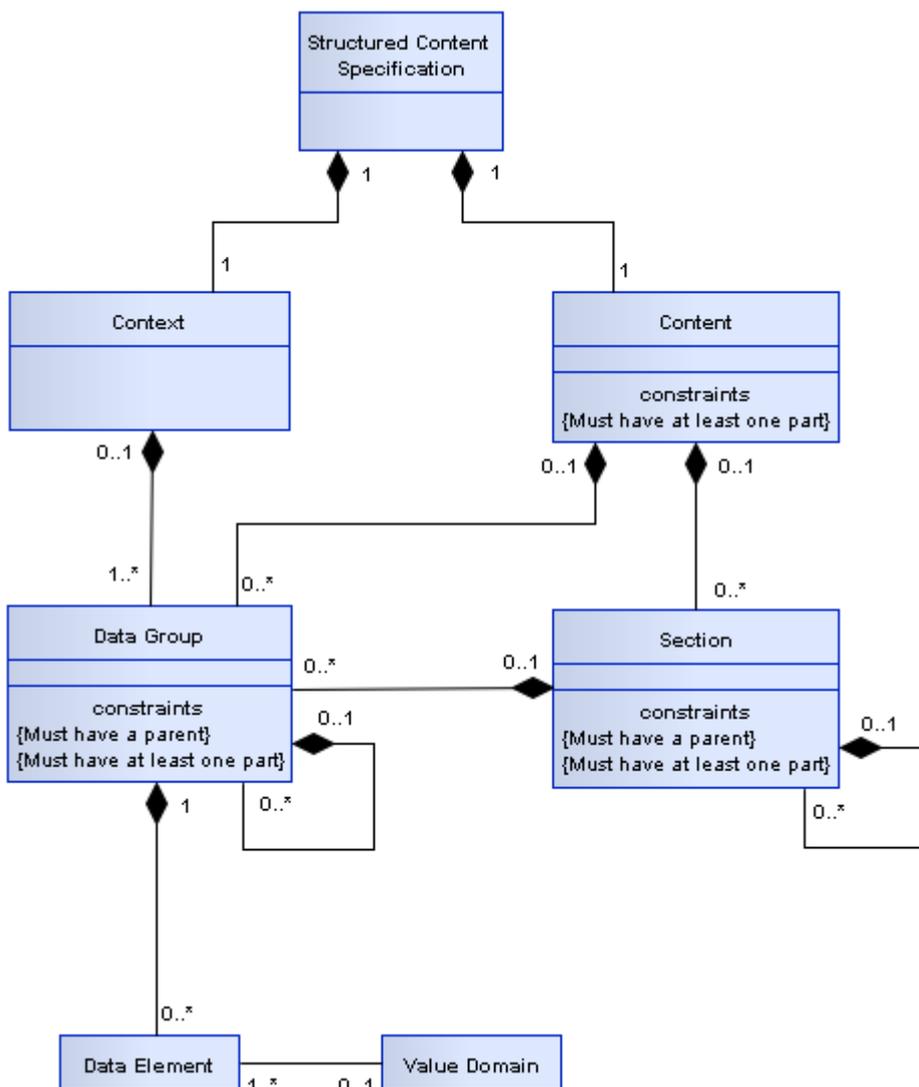


Figure 1: SCS Metamodel

There are two main components used to organise information within a Structured Content Specification (SCS) as follows:

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

These components are described in more detail below.

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

The Content contains a collection of health information pertinent to a subject of care which is derived from the healthcare event described in the document. The detail **MAY** be organised into one or more sections, each of which contains one or more data groups and/or possible data elements.

Section

The contents of the structured document Content **MAY** be subdivided into one or more sections. A section is an organising container that gives a reader a clue as to the expected content. The primary purpose of a section is to organise information in the manner that is suitable for the primary purpose for which it is collected, and that provides a way to navigate through the data components within the document, thereby enabling more efficient querying. It **SHOULD** also support safe re-use 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 and/or data elements. Some data groups are reused across detailed clinical models.

Participation

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

A Participant has been defined to align with the concepts of the NEHTA interoperability framework. 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.

[\[NEHT2011v\]](#) defines the full Participation specification.

Choice

Choice represents a decision to be made at run-time between a disjunctive mandatory set of data groups defined at design-time, i.e. one and only one member of the set **SHALL** be chosen.

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 **SHALL** be done with the choice of either the *Person* data group or 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.

Whilst 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 **MAY** be a subset of values based on a generic data type.

Value domains are reusable components and therefore, the same value domain can be referred to by different data elements in different contexts. Value domains are often specified as a reference set. A reference set (or a subset) is a constrained list of SNOMED CT-AU, AMT or LOINC concepts that are appropriate to a particular context. It **SHOULD** be noted that many of these reference sets have been developed specifically for the context in which they appear. An assessment of fitness for purpose **SHOULD** therefore be undertaken before using any of the reference sets in another context.

Value domains constrain by either specifying a lower and/or upper bound on the range of permissible values or else 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/terminology reference sets. The table below provides some examples of value domains.

Data Element	Data Type	Example of Value Domain										
Sex	CodedText	<p>[SA2006a] and [SA2006b] derive their values from METeOR 270263 which includes values such as:</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td><u>1</u></td> <td>Male</td> </tr> <tr> <td><u>2</u></td> <td>Female</td> </tr> <tr> <td><u>3</u></td> <td>Intersex or Indeterminate</td> </tr> <tr> <td><u>9</u></td> <td>Not Stated/Inadequately Described</td> </tr> </tbody> </table>	Value	Meaning	<u>1</u>	Male	<u>2</u>	Female	<u>3</u>	Intersex or Indeterminate	<u>9</u>	Not Stated/Inadequately Described
Value	Meaning											
<u>1</u>	Male											
<u>2</u>	Female											
<u>3</u>	Intersex or Indeterminate											
<u>9</u>	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)										
<i>To Be Advised</i>	CodeableText	A LOINC subset which references concepts such as ‘Cholesterol [Moles/volume] in Serum or Plasma’ (ID: 14647-2)										

Table 1: Value Domain Examples

B.3 Icon Legend

These legends describe all icons that are used within the various NEHTA information specifications.

Metadata Types Legend

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

Icon	Metadata Types
	Structured Document
	Section
	Data Group
	Participation
	Choice

Table 2: Metadata Types Legend

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 [\[NEHT2010c\]](#).

Icon	Data type	Explanation
	Boolean (ISO 21090: BL)	A primitive data type, sometimes called the logical data type, having one of 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> .
		<p>Usage/Examples</p> <ul style="list-style-type: none"> 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; flexible data type to support various ways of holding text, both free text and coded text. Commonly used to support compliance for early adopters of the Structured Content Specifications. Whilst 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 a recognition that it **MAY** not be possible to define an entire value domain for a complex concept (e.g. *Diagnosis*) or that there **MAY** be competing code sets in existence. Note that within exchange specifications and/or message profiles this data type **MAY** be constrained to mandate compliance with the bound value domain.

Usage/Examples

- AIHW Separation Mode specifies the status at separation of a person from an organisation. An early adopter **MAY** 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 components 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

[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)

Used for specifying a single date and/or time. Has the ability to indicate a level of precision, but not whether the date/time is estimated. String representations of known dates **SHALL** conform to the nonextended format within the **ISO 21090-2011** standard, i.e. YYYYMMDDHHMMSS.UUUU[+]-ZZzz.

Usage/Examples

- Partial dates: 2008, 20081001.
- To indicate 1:20 pm on May the 31st, 1999 for a time zone which is 5 hours behind Coordinated Universal Time (UTC): 19990531132000-0500.

	Duration (ISO 21090: PQ.TIME)	The period of time during which something continues. Consists of a value and a unit which represents the time value, e.g. hours, months. Compound durations are not allowed, e.g. 10 days 3 weeks 5 hours.
		Usage/Examples
		<ul style="list-style-type: none"> • 3 hours • 6 months • 1 year
	Any (ISO 21090: ANY)	Represents a data element where the data type to be used is conditional upon another data component. The values that can be required will vary considerably depending on the context. Note that this is an abstract data type that is the basis for all data types and SHOULD NOT be used in an actual implementation.
	EncapsulatedData (ISO 21090: ED)	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).
		Usage/Examples
		<ul style="list-style-type: none"> • JPEG images • HTML documents • [RFC1521] MIME types
	Integer (ISO 21090: INT)	The mathematical data type comprising the exact integral values (according to [NEHT2010c]).
		Usage/Examples
		<ul style="list-style-type: none"> • 1 • -50 • 125
	Link (ISO 21090: TEL)	This is a general link, reference or pointer to an object, data or application that exists logically or is stored electronically in a computer system.
		Usage/Examples
		<ul style="list-style-type: none"> • 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>’. • An absolute or relative path within a file/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>

	Quantity (ISO 21090: PQ)	Used for recording many real world measurements and observations. Includes the magnitude value and the units.
Usage/Examples		
<ul style="list-style-type: none"> • 100 centimetres • 25.5 grams 		
	QuantityRatio (ISO 21090: RTO)	The relative magnitudes of two <i>Quantity</i> values (usually expressed as a quotient).
Usage/Examples		
<ul style="list-style-type: none"> • 25 mg/500 ml • 200 mmol per litre 		
	QuantityRange (ISO 21090: IVL)	Two <i>Quantity</i> values that define the minimum and maximum values, i.e. lower and upper bounds. This is typically used for defining the valid range of values for a particular measurement or observation. Unbounded quantity ranges can be defined by not including a minimum and/or a maximum quantity value.
Usage/Examples		
<ul style="list-style-type: none"> • -20 to 100 Celsius • 30-50 mg • >10 kg 		
	RealNumber (ISO 21090: REAL)	A computational approximation to the standard mathematical concept of real numbers. These are often called floating point numbers.
Usage/Examples		
<ul style="list-style-type: none"> • 1.075 • -325.1 • 3.14157 		
	Text (ISO 21090: ST)	Character strings (with optional language). Unless otherwise constrained by an implementation, can be any combination of alpha, numeric or symbols from the Unicode character set. Sometimes referred to as free text.
Usage/Examples		
<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: TS)	An interval in time, with (optionally) a start date/time and (optionally) an end date/time and/or a duration/width.
Usage/Examples		
<ul style="list-style-type: none"> • 01/01/2008 – 31/12/2008 • 1:30 a.m. – 6:00 p.m., duration/width = 16.5 hours 		



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

(ISO 21090: II) In using this data type, the attributes of the UniqueIdentifier data type **SHOULD** be populated from the identifiers as defined in AS 4846 (2006) [SA2006a] and AS 5017 (2006) [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 as such.

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 UniqueIdentifier data type:

The *root* attribute **SHALL** be used.

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.

For an entity identifier the *root* attribute **SHALL NOT** be a UUID.

The *extension* attribute **SHALL** be used.

Usage/Examples

IHIs, HPI-Is, HPI-Os and patient hospital medical record numbers are examples of identifiers that **MAY** be carried by this data type.

Table 3: Data Types Legend

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 [RFC2119].

The following table defines these keywords

Keyword	Interpretation
SHALL	This word, or the terms 'required' or 'must', means that the definition is an absolute requirement of the specification.
SHOULD	This word, or the adjective 'recommended', means that there MAY exist valid reasons in particular circumstances to ignore a particular component, but the full implications SHALL be understood and carefully weighed before choosing a different course.

MAY	This word, or the adjective ‘optional’, means that a component is truly optional. One implementer MAY choose to include the component because a particular implementation requires it, or because the implementer determines that it enhances the implementation while another implementer MAY omit the same component. An implementation which does not include a particular option SHALL be prepared to interoperate with another implementation which does include the option, perhaps with reduced functionality. In the same vein, an implementation which does include a particular option SHALL be prepared to interoperate with another implementation which does not include the option (except of course, for the feature the option provides).
SHALL NOT	This phrase, or the phrase ‘must not’ means that the definition is an absolute prohibition of the specification.
SHOULD NOT	This phrase, or the phrase ‘not recommended’ 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.

Table 4: Keywords Legend

Obligation Legend

Obligation in DCMs or SCSs specifies whether or not a data component **SHALL** be populated in the logical record architecture of a message. NEHTA intends that all data components will be implemented.

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

The following table defines the obligations.

Keyword	Interpretation
Essential	<p>Indicates that the data component is considered a mandatory component of information and SHALL be populated.</p> <p>Usage/Examples:</p> <p>The Participant component for a Subject of Care SHALL include an Entity Identifier data component in order to hold the IHI.</p>
Optional	<p>Indicates that the data component is not considered a mandatory component of information and MAY be populated.</p> <p>Usage/Examples:</p> <p>This is only needed when a DCM incorrectly asserts that a data component is Essential. It will be used with a note stating that the DCM needs revision.</p>
Prohibited	<p>Indicates that the data component is considered a forbidden component of information and SHALL NOT be populated.</p> <p>Usage/Examples:</p> <p>Within a Participation data group depicting a Subject of Care, the Participation Healthcare Role SHALL NOT be completed.</p>

Conditional	<p>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.</p> <p>When a condition is met, the data component is considered to be essential and SHALL be populated.</p> <p>When a condition is not met, the data component may be considered as Prohibited, or the data component may be considered Optional.</p> <p>Usage/Examples:</p> <p>Within a Pathology Result Report, the <i>Specimen Detail</i> data group is Essential if the requested test is to be performed on a specimen, otherwise it SHALL NOT be populated.</p>
--------------------	--

Table 5: Obligations Legend

Where Essential child data components are contained within Optional parent data components, the child data components only need to be populated when the parent is populated.

B.4 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 information model specifications and identifies when each part is applicable.

Data Hierarchy

The top-level component contains a data hierarchy. Each row contains information about a single data component. The entries are nested to represent inclusion of one component in another. Each entry contains three occupied cells. One contains an icon to indicate its data type. One contains the label and description of the component (if the label is different from the name, the name is displayed in brackets after the label). One contains the multiplicity range for the data component.

In a SCS a component may be prohibited, that is it occurs in the referenced DCM but it **SHALL** not be included in documents created according to the SCS. This is represented by a multiplicity range of 0..0, the text of the entry is also in a ~~strike-through~~ font and it has a grey background.

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.

Label	A suggested display name for the component. (Source NEHTA.)
--------------	---

Metadata Type	The metadata type of the component, e.g. section, data group or data element. (Source NEHTA.)
Identifier	A NEHTA assigned internal identifier of the concept represented by the component. (Source NEHTA.)
OID	An object identifier that uniquely identifies the concept represented by the data component. (Source NEHTA.)
External Identifier	An identifier of the concept represented by the data component which is assigned by an organisation other than NEHTA. (Source NEHTA.)

Table 6: Identification Section Legend

Definition Section Legend

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

Definition	The meaning, description and/or explanation of the data component. (Source NEHTA.)
	For data groups used in a particular context the definition MAY be a refinement of the generic data group definition.
Definition Source	The authoritative source for the Definition statement.
Synonymous Names	A list of any names the data component MAY also be known as. (Source NEHTA.)
	Implementers MAY prefer to use synonymous names to refer to the component in specific contexts.
Scope	Situations in which the data component may be used, i.e. the extent and capacity within which this data component may be used, including the circumstances under which the collection of specified data are required or recommended.
	For example, Medication Instruction (data group) has a scope which includes all prescribable therapeutic goods, both medicines and non-medicines.
	This attribute is not relevant to data elements or value domains. (Source NEHTA.)
Scope Source	The authoritative source for the Scope statement.
Context	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. (Source NEHTA.)
Assumptions	Suppositions and notions used in defining the data component. (Source NEHTA.)
Assumptions Source	The authoritative source for the Assumptions statement.
Notes	Informative text that further describes the data component, or assists in the understanding of how the data component can be used. (Source NEHTA.)
Notes Source	The authoritative source for the Notes statement.
Data Type	The data type of the data element, e.g. DateTime or Text. (Source NEHTA.)

Value Domain	The Data type is applicable only to data elements.
	The valid data types are specified in the Data Types Legend .
	The name and identifier of the terminologies, code sets and classifications to define the data element value range, or a statement describing what values to use in the absence of a defined value domain for the related data element.
	In the absence of national standard code sets, the code sets used SHALL be registered code sets, i.e. registered through the HL7 code set registration procedure with an appropriate object identifier (OID), and SHALL be publicly available.
	When national standard code sets become available, they SHALL be used and the non-standard code sets SHALL be deprecated. (Source NEHTA.)
The Value Domain is applicable only to CodedText and CodeableText data elements.	

Table 7: Definition Section Legend

Value Domain Section Legend

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

Source	The name of the terminology or vocabulary from which the value domain's permissible values are sourced, e.g. SNOMED CT-AU, LOINC.
Version Number	Version number of the value domain source.
Permissible Values	List of permissible values in the value domain.

Table 8: Value Domain Section Legend

Usage Section Legend

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

Examples	One or more demonstrations of the data that is catered for by the data element. (Source NEHTA.)
	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 an indicative example is provided.
	Implementation guides MAY contain specific examples for how data elements SHALL be populated and how they relate to each other.
	The Value Domain is applicable only to CodedText and CodeableText data elements.
Conditions of Use	Prerequisites, provisos and/or restrictions for use of the component. (Source NEHTA.)

Conditions of Use Source	The authoritative source for the Conditions of Use statement.
Misuse	Incorrect, inappropriate and/or wrong uses of the component. (Source NEHTA.)
Default Value	A common denomination, or at least a usable denomination, from the Value Domain where available and/or applicable, typically assigned at the creation of an instance of the component. (Source NEHTA.)

Table 9: Usage Section Legend

Relationships Section Legend

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

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

Data Type	Name	Occurrences	Condition
Icon illustrating the Metadata type or Data type	Component Name	The maximum and minimum number of instances of this child component that SHALL occur.	The conditions that SHALL be met to include this child data element. Only applicable for elements with a Conditional obligation.

Table 10: Children Legend

The following table illustrates the layout of the Parent relationships table. Note that the relationships described by this table are from the parent to the child component.

Data Type	Name	Occurrences	Condition
Icon illustrating the Metadata or Data type	Component Name	The maximum and minimum number of instances of the component described on this page that SHALL occur.	The conditions that SHALL be met to include the data element. Only applicable for elements with a Conditional obligation.

Table 11: Parent Legend

Appendix C. Mappings from Requirements

This appendix lists data elements from the requirements sections in the [NEHTA Information Requirements Shared Health Summary \(SHS\) \[NEHT2011ah\]](#) document and matches them to their associated data elements in this Structured Content Specification augmented with [NEHTA Participation Data Specification \[NEHT2011v\]](#). Information requirement specifications supporting the Shared Health Summary can be made available on request via the NEHTA Service Desk at NehtaSupport@nehta.gov.au.

Some cells in the mapping table are empty. This is used to indicate that the cell has the same value as the cell immediately above it.

Requirement Section	Data Item	SCS Data Element
Individual	Component	SUBJECT OF CARE
	Person Name	SUBJECT OF CARE.PARTICIPANT.PERSON OR ORGANISATION OR DEVICE.PERSON.PERSON NAME
	Person Identifier	SUBJECT OF CARE.PARTICIPANT.Entity Identifier
	Date of Birth	SUBJECT OF CARE.PARTICIPANT.PERSON OR ORGANISATION OR DEVICE.PERSON.DEMOGRAPHIC DATA.DATE OF BIRTH DETAIL
	Date of Birth Estimated?	SUBJECT OF CARE.PARTICIPANT.PERSON OR ORGANISATION OR DEVICE.PERSON.DEMOGRAPHIC DATA.DATE OF BIRTH DETAIL.DATE OF BIRTH ACCURACY INDICATOR
	Sex	SUBJECT OF CARE.PARTICIPANT.PERSON OR ORGANISATION OR DEVICE.PERSON.DEMOGRAPHIC DATA.Sex
	Address	SUBJECT OF CARE.PARTICIPANT.Address
	Communication Details	SUBJECT OF CARE.PARTICIPANT.ELECTRONIC COMMUNICATION DETAIL
	Indigenous Status	SUBJECT OF CARE.PARTICIPANT.PERSON OR ORGANISATION OR DEVICE.PERSON.DEMOGRAPHIC DATA.Indigenous Status
Source of Shared Health Summary	Component	DOCUMENT AUTHOR
	Person Name	DOCUMENT AUTHOR.PARTICIPANT.PERSON OR ORGANISATION OR DEVICE.PERSON.PERSON NAME
	Person Identifier	DOCUMENT AUTHOR.PARTICIPANT.Entity Identifier
	Healthcare Role	DOCUMENT AUTHOR.Role
	Organisation Name	DOCUMENT AUTHOR.PARTICIPANT.PERSON OR ORGANISATION OR DEVICE.PERSON.EMPLOYMENT DETAIL.EMPLOYER ORGANISATION.PERSON OR ORGANISATION OR DEVICE.ORGANISATION.Organisation Name
	Organisation Identifier	DOCUMENT AUTHOR.PARTICIPANT.PERSON OR ORGANISATION OR DEVICE.PERSON.EMPLOYMENT DETAIL.EMPLOYER ORGANISATION.Entity Identifier

Requirement Section	Data Item	SCS Data Element
	Address	DOCUMENT AUTHOR.PARTICIPANT.ADDRESS
	Communication Details	DOCUMENT AUTHOR.PARTICIPANT.ELECTRONIC COMMUNICATION DETAIL
Allergies and Adverse Reactions	Component	ADVERSE REACTIONS
	Allergies / Adverse Reactions Exclusion Statement	ADVERSE REACTIONS.EXCLUSION STATEMENT - ADVERSE REACTIONS.Global Statement
	Allergies / Adverse Reaction	ADVERSE REACTIONS.ADVERSE REACTION
	Agent Description	ADVERSE REACTIONS.ADVERSE REACTION.Substance/Agent
	Reaction Description	ADVERSE REACTIONS.ADVERSE REACTION.REACTION EVENT.Manifestation
Medicines	Component	Medications (MEDICATION ORDERS)
	Medicines Exclusion Statement	Medications (MEDICATION ORDERS).EXCLUSION STATEMENT - MEDICATIONS.Global Statement
	Medicine	Medications (MEDICATION ORDERS).Known Medication (MEDICATION INSTRUCTION)
	Item Description	Medications (MEDICATION ORDERS).Known Medication (MEDICATION INSTRUCTION).Medicine (Therapeutic Good Identification)
	Dose Instructions	Medications (MEDICATION ORDERS).Known Medication (MEDICATION INSTRUCTION).Directions
	Reason for Medicine	Medications (MEDICATION ORDERS).Known Medication (MEDICATION INSTRUCTION).Clinical Indication
	Additional Comments	Medications (MEDICATION ORDERS).Known Medication (MEDICATION INSTRUCTION).Comment (Medication Instruction Comment)
Current and Past Medical History	Component	Past and Current Medical History (MEDICAL HISTORY)
	Current and Past Medical History Exclusion Statement	Past and Current Medical History (MEDICAL HISTORY).EXCLUSION STATEMENT - PROCEDURES.Global Statement
		Past and Current Medical History (MEDICAL HISTORY).EXCLUSION STATEMENT - PROBLEMS AND DIAGNOSES.Global Statement

Requirement Section	Data Item	SCS Data Element
	Current and Past Medical History	Past and Current Medical History (MEDICAL HISTORY).PROBLEM/DIAGNOSIS
		Past and Current Medical History (MEDICAL HISTORY). Procedure (PROCEDURE)
		Past and Current Medical History (MEDICAL HISTORY).Other Medical History Item (MEDICAL HISTORY ITEM)
	Medical History Description	Past and Current Medical History (MEDICAL HISTORY).PROBLEM/DIAGNOSIS.Problem/Diagnosis (Problem/Diagnosis Identification)
		Past and Current Medical History (MEDICAL HISTORY).Procedure (PROCEDURE).Procedure Name
		Past and Current Medical History (MEDICAL HISTORY).Other Medical History Item (MEDICAL HISTORY ITEM).Medical History Item Description
	Medical History DateTime Range	Past and Current Medical History (MEDICAL HISTORY).PROBLEM/DIAGNOSIS.Date of Onset
		Past and Current Medical History (MEDICAL HISTORY).PROBLEM/DIAGNOSIS.Date of Resolution/Remission
		Past and Current Medical History (MEDICAL HISTORY).Procedure (PROCEDURE).Start Date/Time (DateTime Started)
		Past and Current Medical History (MEDICAL HISTORY).Other Medical History Item (MEDICAL HISTORY ITEM).Medical History Item Timeinterval
	Medical History Comments	Past and Current Medical History (MEDICAL HISTORY).PROBLEM/DIAGNOSIS.Comment (Problem/Diagnosis Comment)
		Past and Current Medical History (MEDICAL HISTORY).Procedure (PROCEDURE).Comment (Procedure Comment)
		Past and Current Medical History (MEDICAL HISTORY).Other Medical History Item (MEDICAL HISTORY ITEM).Medical History Item Comment
Immunisations	Component	IMMUNISATIONS
	Immunisations Exclusion Statement	IMMUNISATIONS.Exclusion Statement - Immunisations (EXCLUSION STATEMENT - MEDICATIONS).Global Statement
	Immunisation	IMMUNISATIONS.Administered Immunisation (Medication Action)
	Vaccine Name	IMMUNISATIONS.Administered Immunisation (Medication Action).Medicine (Therapeutic Good Identification)
	DateTime Administration	IMMUNISATIONS.Administered Immunisation (Medication Action).Medication Action DateTime
	Vaccine Sequence number	IMMUNISATIONS.Administered Immunisation (Medication Action).Vaccine Sequence Number (Sequence Number)

Requirement Section	Data Item	SCS Data Element
Document Control	Component	<i>This is described in the CDA Implementation Guide</i>

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