

nehta

ePrescription

Structured Document Template

Version 2.0 — 16 Jun 2010

Public Release - For Consultation

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Document Information

Document owner

Document Owner

The National Clinical Terminology and Information Service

Change history

Version	Date	Comments
1.0	20 Nov 2009	Initial public release.
2.0	16 Jun 2010	Extensive changes following public review.

Related documents

Name	Version/Release Date
Participation Data Specification	Version 2.0, Issued 30 November 2009
Participation Specialisations Data Specification	Version 1.0, Issued 30 November 2009
Data Types in NEHTA Specifications	Version 1.0, Issued 30 June 2010
Data Specifications and Structured Document Templates - Guide for Use	Version No. 1.1, Issued 7 June 2010
Dispense Record Structured Document Template	Version 2.0, Issued 30 June 2010

Acknowledgements

NEHTA would like to thank the following organisations and individuals for their contribution to these Data Specifications:

- Standards Australia;
- Royal Australian College of General Practitioners;
- Society of Hospital Pharmacists of Australia;
- Members of the Australian DataTypes Project;
- Australian Institute of Health & Welfare; and
- Ocean Informatics.

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1 Introduction

This document is a Structured Document Template (SDT) for an electronic prescription (ePrescription). It specifies the information structure of NEHTA compliant electronic prescriptions in order to support the Electronic Transfer of Prescription (ETP).

For the purposes of this document:

Electronic Prescription means an electronic prescription which is generated in accordance with a process by which a prescription is electronically generated by a prescriber, authenticated (electronically signed), securely transmitted (either directly or indirectly) for dispensing and supply, seamlessly integrated into the pharmacy dispensing software and, in the case of Pharmaceutical Benefits Scheme (PBS) prescriptions, is available to be electronically sent to Medicare Australia for claiming purposes. This definition does not preclude the use of paper-based processes to support ePrescribing activity.

[DHA2010a]

Essential information about structured document templates can be found in [NEHTA Data Specifications and Structured Document Templates - Guide for Use \[NEHT2010d\]](#).

This document is for review and the National Clinical Terminology and Information Service team (NCTIS) values your questions and comments about this document. Please direct your questions or feedback to clinicalinformation@nehta.gov.au.

1.1 Document Purpose

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 prescriptions.

It is part of the foundation for any implementation of a NEHTA compliant electronic prescription system.

It is also a key input to the [NEHTA ePrescription CDA Implementation Guide \[NEHT2010g\]](#), which describes how to implement NEHTA compliant electronic prescriptions using [HL7 Clinical Document Architecture \[HL7CDA\]](#).

1.2 Intended Audience

This document describes the structured document template for an electronic prescription (ePrescription) from a clinical communication perspective. It 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 Overview

The aim of Electronic Transfer of Prescription (ETP) is to improve the flow of information between a Prescriber and one or more Dispensers that occurs for each “prescribing-dispensing process”. For ETP Release 1 this will enable the electronic flow of prescription related information, while

maintaining paper based prescriptions (current process) in parallel. This document specifies the clinical information content of prescriptions in such a system.

Key features of the Electronic Transfer of Prescription (ETP) Release1 are:

- A general practitioner who has an Electronic Prescribing System (EPS) can create an electronic version of a prescription, an ePrescription, containing at least one prescribed item with related dosage and dispensing instructions.
- An electronic prescription used to request pharmaceutical benefits must fulfil the requirements of Regulation 5A of the National Health (Pharmaceutical Benefits) Regulations 1960 and be prepared in accordance with Regulation 19 of the same set of regulations. (For further elaboration refer to the document: [NEHTA ETP Logical Information Model \[NEHT2009k\]](#)).
- The subject of care will be provided with a paper copy of the prescription.
- The ePrescription will be transmitted to, and stored in, a Prescription Exchange Service (PES), which is an online service operated by a PES provider. The PES will be accessible by any Electronic Dispensing System (EDS) in use in a community pharmacy.
- The subject of care will present at a community pharmacy of their choice with the paper prescription, which the dispenser at that pharmacy will use as the basis of identifying and retrieving the related ePrescription from the PES.
- Dispensing takes place, which may entail a number of tasks, including further interaction between the dispenser and the subject of care, between the dispenser and the prescriber or other authorities such as Medicare Australia.
- After the dispensing is completed, one or more electronic dispense records, called PES-DR, containing information pertinent to that event are created and stored in the PES.

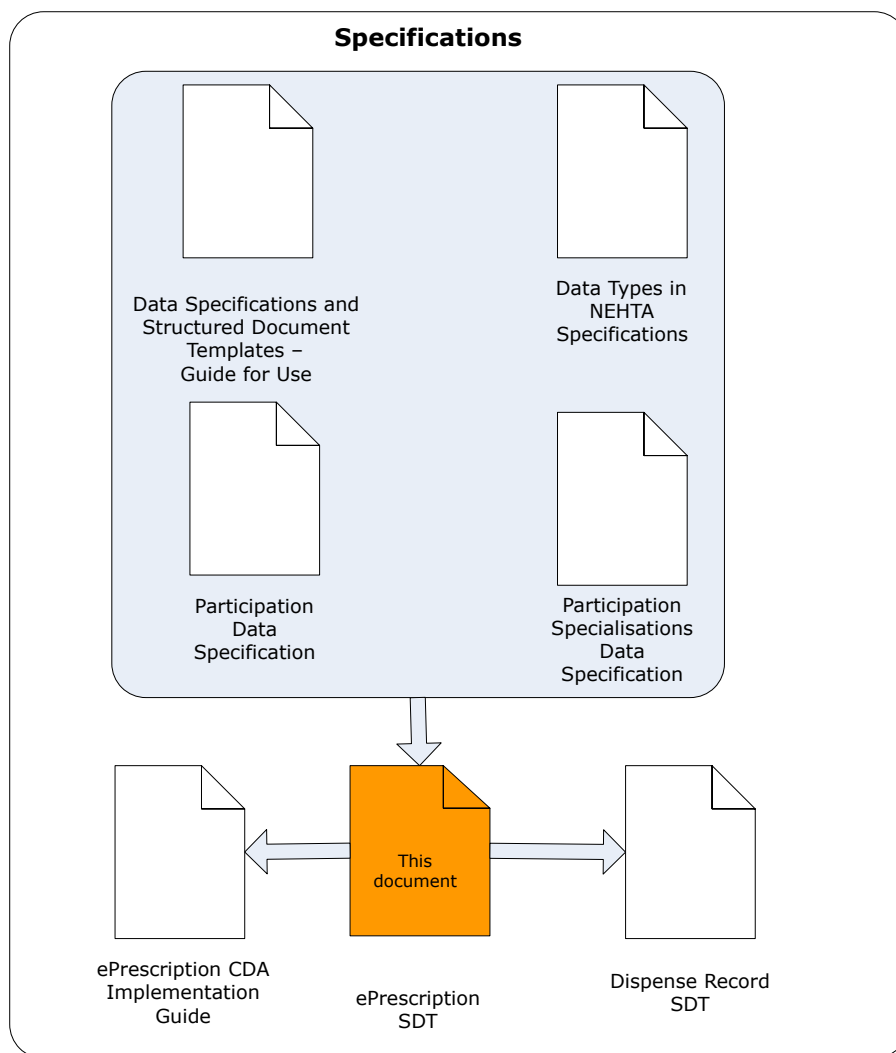
The following is an extract describing the dispense record referenced from the document: [NEHTA ETP Logical Information Model \[NEHT2009k\]](#)

The Dispense Record is the encapsulation of all activity associated with the dispensing of a single ePrescription Item within a single dispensing event. More specifically, a Dispense Record instance may exist for each ePrescription Item. A single Dispense Event may be associated with many Dispense Records, each of which encapsulates the dispensing information associated with a single ePrescription Item.

Further information for the dispense record data groups and data elements is also provided in the following document: [NEHTA Dispense Record Structured Document Template \[NEHT2010f\]](#).

1.4 Document Map

This document is not intended to be used in isolation. Companion documents are listed below:



Document Map

1. [NEHTA Data Specifications and Structured Document Templates - Guide for Use \[NEHT2010d\]](#).
2. [NEHTA Data Types in NEHTA Specifications \[NEHT2010c\]](#).
3. [NEHTA Participation Data Specification \[NEHT2009c\]](#).
4. [NEHTA Participation Specialisations Data Specification \[NEHT2009d\]](#).
5. [NEHTA ePrescription CDA Implementation Guide \[NEHT2010g\]](#).
6. [NEHTA Dispense Record Structured Document Template \[NEHT2010f\]](#).

1.5 Document Scope

This document specifies the essential clinical data groups and elements to be captured in an electronic prescription exchange and the constraints that should be applied. Its scope is aligned to ETP Release 1, which will support prescriptions that are generated by medical practitioners and dispensed by community pharmacists.

The types of prescription are:

- PBS/RPBS prescriptions
- PBS/RPBS authority prescriptions
- Non-PBS prescriptions (private prescriptions)

The content of this document is limited to three main areas:

- Prescription context information – including the subject of care, the prescriber and the prescriber organisation
- Prescription content – including details of the therapeutic good prescribed including dosage instructions
- UML diagram of the classes that underlie a prescription

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

1.6 Known Issues

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

- Medicines and medical devices are the two sub-types of therapeutic good. NEHTA's modelling of medicines is adequate to support community prescribing, however the modelling of medical devices has not been completed. This document assumes that prescriptions are about therapeutic goods and that the differences between medicines and medical devices do not affect the data structures required for electronic prescriptions. Further modelling may suggest a revised structure for the Prescription Item data group.
- Descriptions of extemporaneous preparations and prepackaged medications are currently recorded using the same data element. Further modelling may suggest a revised structure for the Prescription Item data group.
- A recommended value domain is not available for the data element: [State of the Subject of Care](#).
- Australian IHI's are not available for use, though the design in this document assumes that they are.
- The dosage data group in this release of the SDT is designed to support simple dosage instructions. Clinical input is being sought to modify the data group in order to support more complex dosing instructions such as variable and alternate dosing and multi-component medicines. This is an evolving process and will be supported by the development of an implementation guide outlining how the dosage data group is to be implemented.

2 ePrescription Structured Document

2.1 EPRESCRIPTION






Identification










Name	EPRESCRIPTION
Metadata Type	Structured Document
Identifier	SD-16100
OID	1.2.36.1.2001.1001.101.100.16100




Definition

Definition	<p>An ePrescription is an electronic prescription defined as follows:</p> <p>Electronic Prescription means an electronic prescription which is generated in accordance with a process by which a prescription is electronically generated by a prescriber, authenticated (electronically signed), securely transmitted (either directly or indirectly) for dispensing and supply, seamlessly integrated into the pharmacy dispensing software and, in the case of Pharmaceutical Benefits Scheme (PBS) prescriptions, is available to be electronically sent to Medicare Australia for claiming purposes. This definition does not preclude the use of paper-based processes to support ePrescribing activity [DHA2010a].</p>
Definition Source	Department of Health and Ageing
Synonymous Names	
Scope	This is limited to prescriptions made by an authorised medical practitioner for dispensing by a pharmacist in a community pharmacy.
Scope Source	NEHTA

Data Hierarchy

	EPRESCRIPTION	1..1
CONTEXT		
	SUBJECT OF CARE	1..1
	PRESCRIBER	1..1
	PRESCRIBER ORGANISATION	1..1
ID	Prescription Identifier	1..1
	DateTime Prescription Written	1..1

		DateTime Prescription Expires	1..1
CONTENT			
		PRESCRIPTION ITEM	1..*
		Prescription Item Identifier	1..1
		Therapeutic Good Description	1..1
		DOSAGE	0..1
		 Dose Instruction	1..1
		Quantity of Therapeutic Good	1..1
		DISPENSING INFORMATION	1..1
		 Brand Substitute Allowed	1..1
		 Maximum Number of Repeats	1..1
		 Minimum Interval Between Repeats	0..1
		PBS/RPBS Benefit Category Type	1..1
		Concurrent Supply Grounds	0..1
		PBS/RPBS Authority Approval Number	0..1
		State Authority Number	0..1
		Additional Comments	0..1
		BODY WEIGHT	0..1
		Body Weight Value	1..1
		State of the Subject of Care	0..*
		DateTime of Observation	1..1
		BODY HEIGHT	0..1
		Body Height Value	1..1
		State of the Subject of Care	0..*
		DateTime of Observation	1..1

		PRESCRIPTION NOTE DETAIL	0..*
		T Prescription Note	1..1
		 DateTime Prescription Note Created	1..1
		 PRESCRIPTION NOTE AUTHOR	1..1

3 ePrescription Context

3.1 SUBJECT OF CARE

Identification

Name	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	The person the prescription is for. The intended recipient of the prescribed items.
Definition Source	NEHTA
Synonymous Names	Patient Healthcare Individual

Usage

Conditions of Use

These are described in more detail in [A.1: Subject of Care](#).

This is a reuse of the PARTICIPATION BY NON-HEALTHCARE PROVIDER (PERSON) WITH DEMOGRAPHICS data group, which is described in [Participation Specialisations Data Specification \[NEHT2009d\]](#).

The following constraints are additional to those specified in [Participation Specialisations Data Specification \[NEHT2009d\]](#). Constraints are explained in [Data Specifications and Structured Document Templates - Guide for Use \[NEHT2010d\]](#).

Additional obligation and occurrence constraints:

- Healthcare Role is **PROHIBITED**.
- Participation Period is **PROHIBITED**.
- Entity Identifier is **ESSENTIAL**.
- ADDRESS is **ESSENTIAL**.
- ADDRESS is **SINGLE**.
- EMPLOYMENT DETAIL is **PROHIBITED**.
- Date of Death is **PROHIBITED**.
- Source of Death Notification is **PROHIBITED**.
- Mothers Original Family Name is **PROHIBITED**.
- Country of Birth is **PROHIBITED**.
- Identification Notes is **PROHIBITED**.

Other additional constraints:


- Participation Type **MUST** have a fixed value of "Subject of Care".
- There **MUST** be one and only one Entity Identifier with an Australian IHI as its value.
- There **MAY** be additional Entity Identifiers, but they **MUST NOT** have an Australian IHI as a value.
- AUSTRALIAN OR INTERNATIONAL ADDRESS **MUST** be instantiated as an AUSTRALIAN ADDRESS.
- ADDRESS **MUST** have an Address Purpose value of "Residential" or "Temporary Accommodation".
- Relationship to Subject of Care **MUST** have a fixed value of "Self".

Conditions of Use Source

NEHTA

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

3.2 PRESCRIBER

Identification

Name	PRESCRIBER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

Definition

Definition	The healthcare provider who wrote the prescription.
Definition Source	NEHTA
Synonymous Names	

Usage

Conditions of Use

These are described in more detail in [A.2: Prescriber](#).

This is a reuse of the PARTICIPATION BY HEALTHCARE PROVIDER (PERSON) data group, which is described in [Participation Specialisations Data Specification \[NEHT2009d\]](#).

The following constraints are additional to those specified in [Participation Specialisations Data Specification \[NEHT2009d\]](#). Constraints are explained in [Data Specifications and Structured Document Templates - Guide for Use \[NEHT2010d\]](#).

Additional obligation and occurrence constraints:

- Healthcare Role is **PROHIBITED**.
- Participation Period is **PROHIBITED**.
- Entity Identifier is **ESSENTIAL**.
- HEALTHCARE PROVIDER FIELD OF PRACTICE is **PROHIBITED**.
- EMPLOYER ORGANISATION DETAIL is **PROHIBITED**.
- ENTITLEMENT is **ESSENTIAL**.

Other additional constraints:


- Participation Type **MUST** have a fixed value of "Prescriber".
- There **MUST** be one and only one Entity Identifier with an Australian HPI-I as its value.
- There **MAY** be additional Entity Identifiers, but they **MUST NOT** have an Australian HPI-I as a value.
- There **MUST** be one and only one ENTITLEMENT with a Medicare Prescriber Number as its value.
- There **MAY** be additional ENTITLEMENTs, but they **MUST NOT** have a Medicare Prescriber Number as a value.

Conditions of Use Source

NEHTA

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

3.3 PRESCRIBER ORGANISATION

Identification

Name	PRESCRIBER ORGANISATION
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

Definition

Definition	The organisation which the prescriber is working for when they write the prescription.
Definition Source	NEHTA
Synonymous Names	

Usage

Conditions of Use

These are described in more detail in [A.3: Prescriber Organisation](#).

This is a reuse of the PARTICIPATION BY ORGANISATION data group, which is described in [Participation Specialisations Data Specification \[NEHT2009d\]](#).

The following constraints are additional to those specified in [Participation Specialisations Data Specification \[NEHT2009d\]](#). Constraints are explained in [Data Specifications and Structured Document Templates - Guide for Use \[NEHT2010d\]](#).

Additional obligation and occurrence constraints:

- Healthcare Role is **PROHIBITED**.
- Participation Period is **PROHIBITED**.
- Entity Identifier is **ESSENTIAL**.
- ADDRESS is **ESSENTIAL**.
- ADDRESS is **SINGLE**.
- ELECTRONIC COMMUNICATION DETAIL is **ESSENTIAL**.
- ENTITLEMENT is **PROHIBITED**.

Other additional constraints:


- Participation Type **MUST** have a fixed value of “Prescriber Organisation”.
- There **MUST** be one and only one Entity Identifier with an Australian HPI-O as its value.
- There **MAY** be additional Entity Identifiers, but they **MUST NOT** have an Australian HPI-O as a value.
- AUSTRALIAN OR INTERNATIONAL ADDRESS **MUST** be instantiated as an AUSTRALIAN ADDRESS.
- ADDRESS **MUST** have an Address Purpose value of “Business”.
- At least one ELECTRONIC COMMUNICATION DETAIL **MUST** have Electronic Communication Medium with a value of “Telephone” or “Mobile”.

Conditions of Use Source

NEHTA

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

3.4 Prescription Identifier

Identification

Name	Prescription Identifier
Metadata Type	Data Element
Identifier	DE-16092
OID	1.2.36.1.2001.1001.101.103.16092

Definition


Definition	A string generated by an EPS (Electronic Prescribing System) to uniquely identify a prescription.
Definition Source	NEHTA
Synonymous Names	
Data Type	UniquelIdentifier

Usage

Examples	See: NEHTA Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d] .
-----------------	--

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

3.5 DateTime Prescription Written

Identification

Name	DateTime Prescription Written
Metadata Type	Data Element
Identifier	DE-16091
OID	1.2.36.1.2001.1001.101.103.16091

Definition


Definition	The date (and optionally time) of the completion of the writing of the prescription.
Definition Source	NEHTA
Synonymous Names	
Notes	In common practice this is the date the prescription was signed by the prescriber.
Data Type	DateTime

Usage

Examples	See: NEHTA Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d] .
-----------------	--

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

3.6 DateTime Prescription Expires

Identification

Name	DateTime Prescription Expires
Metadata Type	Data Element
Identifier	DE-10104
OID	1.2.36.1.2001.1001.101.103.10104

Definition


Definition	The date (and optionally time) after which the prescription can no longer be dispensed against.
Definition Source	NEHTA
Synonymous Names	
Notes	<p>The prescription expiry date will be dependent on local and national rules and it will be controlled by protocols. As an example, prescriptions issued under the Pharmaceutical Benefits Schedule usually expire after 12 months although local policy may shorten this time frame (e.g. to 6 months for Schedule 8 drugs).</p> <p>The Prescriber may nominate an expiry date that falls within the default expiry period.</p>
Data Type	DateTime

Usage

Examples	See: NEHTA Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d] .
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Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

4 Prescription Item Instruction

4.1 PRESCRIPTION ITEM

Identification

Name	PRESCRIPTION ITEM
Metadata Type	Data Group
Identifier	DG-16211
OID	1.2.36.1.2001.1001.101.102.16211

Definition


Definition	Details of a therapeutic good with its use by a subject of care and related information.
Definition Source	NEHTA
Synonymous Names	Prescribed Item

Usage

Misuse	Recording stock on hand of a therapeutic good.
---------------	--


Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Multiple

Children

Data Type	Name	Obligation	Condition	Occurrence
ID	Prescription Item Identifier	Essential		Single
T₁₀	Therapeutic Good Description	Essential		Single
F	DOSAGE	Optional		Single
T	Quantity of Therapeutic Good	Essential		Single

Data Type	Name	Obligation	Condition	Occurrence
	DISPENSING INFORMATION	Essential		Single
T ₀₁₀	PBS/RPBS Benefit Category Type	Essential		Single
T ₀₁₀	Concurrent Supply Grounds	Optional		Single
T	PBS/RPBS Authority Approval Number	Optional		Single
T	State Authority Number	Optional		Single
T	Additional Comments	Optional		Single

4.2 Prescription Item Identifier

Identification

Name	Prescription Item Identifier
Metadata Type	Data Element
Identifier	DE-10136
OID	1.2.36.1.2001.1001.101.103.10136

Definition


Definition	A string generated by an EPS (Electronic Prescribing System) to uniquely identify information about a therapeutic good that is included within a prescription.
Definition Source	NEHTA
Synonymous Names	
Data Type	UniquelIdentifier

Usage

Examples	See: NEHTA Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d] .
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Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

4.3 Therapeutic Good Description

Identification

Name	Therapeutic Good Description
Metadata Type	Data Element
Identifier	DE-10194
OID	1.2.36.1.2001.1001.101.103.10194

Definition


Definition	<p>Describes 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.
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	The formal definition of a therapeutic good (from the Therapeutic Goods Act 1989) can be found at: [TGA2008a] .
Data Type	CodeableText
Value Domain	Therapeutic Good Description Values

Usage

Conditions of Use	Where the therapeutic good can be identified by an AMT (Australian Medicines Terminology) concept, this must be the AMT ConceptID and Preferred Term. For details see Therapeutic Good Description Values .
Conditions of Use Source	NEHTA
Examples	<p>Some examples of AMT Preferred Term are:</p> <ol style="list-style-type: none"> 1. Paracetamol 500 mg + codeine phosphate 30 mg tablet 2. Paracetamol 500 mg + codeine phosphate 30 mg tablet, 20 3. Panadeine Forte tablet: uncoated, 20 tablets 4. Panadeine Forte (paracetamol 500 mg + codeine phosphate 30 mg) tablet: uncoated, 1 tablet 5. Panadeine Forte tablet: uncoated, 20 tablets, blister pack 6. Bandage compression 10 cm x 3.5 m bandage: high stretch, 1 bandage

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

4.4 Therapeutic Good Description Values

Identification

Name	Therapeutic Good Description Values
Metadata Type	Value Domain
Identifier	VD-16115
OID	1.2.36.1.2001.1001.101.104.16115

Definition


Definition	<p>The set of values is: ConceptIDs and Preferred Terms from AMT (Australian Medicines Terminology) concepts which have one of the following modelled relationships:</p> <ul style="list-style-type: none"> • IS A Medicinal Product Unit of Use (MPUU); • IS A Medicinal Product Pack (MPP); • IS A Trade Product Unit of Use (TPUU); • IS A Trade Product Pack (TPP); • IS A Containered Trade Product Pack (CTPP). <p>Specifically for MPUU: only MPUU concepts that have no children MPUU are to be included. Where an MPUU concept is a parent of another MPUU, the parent MPUU is to be omitted.</p>
Definition Source	NEHTA
Notes	An explanation of AMT concepts can be found in Australian Medicines Terminology Editorial Rules [NEHT2009r] .

Value Domain

Source	Australian Medicines Terminology
---------------	----------------------------------

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	Therapeutic Good Description	Essential		Single

4.5 DOSAGE

Identification

Name	DOSAGE
Metadata Type	Data Group
Identifier	DG-16007
OID	1.2.36.1.2001.1001.101.102.16007

Definition


Definition	The regimen governing the amount (in a single administration, i.e. dose quantity), the frequency, the route, and the number of doses of a therapeutic agent to be administered to a subject of care.
Definition Source	Based on Mosby's Medical Dictionary, 8th Edition [MOSB2008a].
Synonymous Names	
Scope	This data group is used to provide details of dose instructions for medication dispensing and administration.
Scope Source	NEHTA
Notes	<p>The dosage data group in this release of the SDT is designed to support simple dosage instructions. Clinical input is being sought to modify the data group in order to support more complex dosing instructions such as variable and alternate dosing and multi-component medicines. This is an evolving process and will be supported by the development of an implementation guide outlining how the dosage data group is to be implemented.</p> <p>In the meantime, implementers may wish to examine the NHS Dose Syntax Model [NHS2009a]. That model, while different to this data group, provides many similarities.</p>

Usage

Conditions of Use	Required for medications.
Conditions of Use Source	NEHTA
Misuse	Using this data group for non-medication items, such as bandages. Instruction on the use of non-medication items can be recorded as text in the Additional Comments data element.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
T	Dose Instruction	Essential		Single

4.6 Dose Instruction

Identification

Name	Dose Instruction
Metadata Type	Data Element
Identifier	DE-16008
OID	1.2.36.1.2001.1001.101.103.16008

Definition


Definition	A description of the dose quantity, frequency, route instruction and cautionary advice that determines how the prescribed therapeutic substance is administered to, or taken by, the subject of care.
Definition Source	NEHTA
Synonymous Names	Dosage Instruction
Data Type	Text

Usage

Conditions of Use	This should include the dose quantity, frequency, route, administration schedule and any additional instructions required to safely describe the appropriate dosage. If appropriate, this may also include the site of administration.
Conditions of Use Source	NEHTA
Examples	<ol style="list-style-type: none"> 1. One tablet twice a day every 12 hours, before or with the first mouthful of food. 2. Apply thin layer to affected area 3-4 times daily; reassess after 7 days if no response.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	DOSAGE	Essential		Single

4.7 Quantity of Therapeutic Good

Identification

Name	Quantity of Therapeutic Good
Metadata Type	Data Element
Identifier	DE-10145
OID	1.2.36.1.2001.1001.101.103.10145

Definition


Definition	A statement of the total number of units or physical amount of the therapeutic good that is prescribed, dispensed or supplied to the subject of care.
Definition Source	NEHTA
Synonymous Names	Quantity Prescribed Quantity Ordered Unit of Use Quantity Prescribed Quantity Supplied Unit of Use Quantity Supplied Dispensed Unit of Use Quantity
Data Type	Text

Usage

Examples	<ol style="list-style-type: none"> “40 tablets” (In the case of 2 packs of 20 tablets.) “10 vials” (In the case of 1 box of 10 vials of an injection (e.g. Injection 600 micrograms in 10 x 1 mL vials).)
-----------------	---

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

4.8 DISPENSING INFORMATION

Identification


Name	DISPENSING INFORMATION
Metadata Type	Data Group
Identifier	DG-16063
OID	1.2.36.1.2001.1001.101.102.16063

Definition




Definition	Details about the dispensing of the therapeutic good other than the dosage, including instructions to the dispenser.
Definition Source	NEHTA
Synonymous Names	

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
	Brand Substitute Allowed	Essential		Single
	Maximum Number of Repeats	Essential		Single
	Minimum Interval Between Repeats	Optional		Single

4.9 Brand Substitute Allowed

Identification

Name	Brand Substitute Allowed
Metadata Type	Data Element
Identifier	DE-10107
OID	1.2.36.1.2001.1001.101.103.10107

Definition


Definition	Indicates whether or not the substitution of a prescribed medication with a different brand name or generic drug, which has been determined as bioequivalent, is allowed when the medication is dispensed/supplied.
Definition Source	NEHTA
Synonymous Names	Allow substitutions
Notes	<p>PBS prescriptions must not be prepared using a computer prescribing program that contains a default which would result in all prescriptions being indicated as Brand Substitution Not Permitted [DHA2009a].</p> <p>The default value should be to allow substitutions, with the ability for the prescriber to override the default if necessary. Processes may be implemented to disallow substitution when the pharmacodynamic and pharmacokinetic properties of different branded drugs are known to be different (i.e. their bioequivalence and therapeutic equivalence cannot be established), e.g. Coumadin and Marevan in Warfarin prescribing.</p> <p>Brand substitution may be allowed if bioequivalence has been established between different brands of a particular chemical entity. In some cases there is no established bioequivalent.</p>
Data Type	Boolean

Usage

Misuse	Using this data element for therapeutic substitution.
	Using this data element for medical appliances.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	DISPENSING INFORMATION	Essential		Single

4.10 Maximum Number of Repeats

Identification

Name	Maximum Number of Repeats
Metadata Type	Data Element
Identifier	DE-10169
OID	1.2.36.1.2001.1001.101.103.10169

Definition


Definition	The number of times the supply of the prescribed item may be repeated under the terms of the prescription.
Definition Source	NEHTA
Synonymous Names	
Notes	<p>Note that the initial supply under the prescription is not counted as a repeat.</p> <p>PBS and RPBS items specify a maximum number of permitted repeats within the Schedules. This number must not be exceeded on a prescription without the appropriate authorisation.</p> <p>When a prescription for a PBS medicine asks for repeat supplies, the pharmacist shall prepare a Repeat Authorisation Form to be attached to the “Pharmacist/Subject of Care” copy. An exception to this is when the prescription is marked “Regulation 24”, where all repeats are supplied at once with the original prescription. A similar exception is permitted for RPBS prescriptions endorsed with “hardship conditions apply”. The Repeat Authorisation is to be detailed in a separate Structured Document Template.</p>
Data Type	Number

Usage

Conditions of Use	If the value of Concurrent Supply Grounds is “Pursuant to Regulation 24” or “hardship conditions apply”, the value of this data element must be greater than 0.
Conditions of Use Source	NEHTA
Examples	See: NEHTA Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d] .
Default Value	0

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	DISPENSING INFORMATION	Essential		Single

4.11 Minimum Interval Between Repeats

Identification

Name	Minimum Interval Between Repeats
Metadata Type	Data Element
Identifier	DE-10164
OID	1.2.36.1.2001.1001.101.103.10164

Definition


Definition	The minimum time before the therapeutic good can be dispensed again.
Definition Source	NEHTA
Synonymous Names	
Notes	<p>Where the prescription is for a Schedule 8 medicine and the dispensing of the prescription is authorised to be repeated, the minimum intervals at which it may be dispensed must be written on the prescription by the prescriber.</p> <p>The dispensing interval for other scripts is a dispensing issue and is governed by PBS rules. However, there may be other situations where a prescriber may want to limit access – e.g. if there are safety concerns or if the subject of care is taking greater than the prescribed dose.</p>
Data Type	Duration

Usage

Examples	1. 20 days
-----------------	------------

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	DISPENSING INFORMATION	Optional		Single

4.12 PBS/RPBS Benefit Category Type

Identification

Name	PBS/RPBS Benefit Category Type
Metadata Type	Data Element
Identifier	DE-16095
OID	1.2.36.1.2001.1001.101.103.16095

Definition


Definition	Indicates the category of subsidy appropriate to the item being prescribed.
Definition Source	NEHTA
Synonymous Names	
Notes	<p>This indicates whether the item has been prescribed for a use which attracts a PBS subsidy, an RPBS subsidy or no subsidy:</p> <ul style="list-style-type: none"> • PBS: A subsidy under the Pharmaceutical Benefits Scheme applies to this item. • RPBS: A subsidy under the Repatriation Pharmaceutical Benefits Scheme applies to this item. • No benefit: This item is not covered by a PBS or RPBS subsidy. <p>This data element should not to be confused with Concession Type or Safety Net Type.</p>
Data Type	CodedText
Value Domain	PBS/RPBS Benefit Category Type Values

Usage

Examples	
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Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

4.13 PBS/RPBS Benefit Category Type Values

Identification

Name	PBS/RPBS Benefit Category Type Values
Metadata Type	Value Domain
Identifier	VD-16095
OID	1.2.36.1.2001.1001.101.104.16095

Definition

Definition	The set of values of PBS/RPBS Benefit Category Type.
Definition Source	NEHTA

Value Domain

Source	NEHTA	
Permissible Values	1, PBS	A subsidy under the Pharmaceutical Benefits Scheme ¹ applies to this item.
	2, RPBS	A subsidy under the Repatriation Pharmaceutical Benefits Scheme ² applies to this item.
	9, No benefit	This item is not covered by a PBS or RPBS subsidy.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
T₀₁₀	PBS/RPBS Benefit Category Type	Essential		Single

¹ <http://www.medicareaustralia.gov.au/provider/pbs/index.jsp>

² http://www.dva.gov.au/service_providers/doctors/Pages/rpbs.aspx

4.14 Concurrent Supply Grounds

Identification

Name	Concurrent Supply Grounds
Metadata Type	Data Element
Identifier	DE-16139
OID	1.2.36.1.2001.1001.101.103.16139

Definition

Definition	Indicates the grounds which authorise a PBS or RPBS subsidy for the concurrent supply of an item specified in a prescription and all of its repeats.
Definition Source	NEHTA
Synonymous Names	

Notes	<p><i>Concurrent supply</i> means supplying an item from a prescription together with all of its repeats at the one time.</p> <p>There are different rules for the concurrent supply of prescribed items, depending upon whether they are subsidised by the PBS or the RPBS.</p> <p>For PBS prescriptions:</p> <p>Generally, a pharmaceutical benefit may not be supplied to the same person more than once in any four clear days (or 20 clear days for items listed in the Schedule with five repeats or more). Under Regulation 24 of the National Health (Pharmaceutical Benefits) Regulations 1960, a prescriber can direct that the original and all repeats of a PBS medicine ordered on a prescription be supplied at the one time, provided that the prescriber is satisfied that all of the following circumstances apply:</p> <ul style="list-style-type: none"> • The maximum quantity or number of units applicable in relation to the pharmaceutical benefit is insufficient for the treatment of the person for whom the prescription is written. • The person requires the pharmaceutical benefit for the treatment of a chronic illness or is residing in a place remote from the approved pharmacist nearest to that person's place of residence. • The person could not, without great hardship, obtain the required quantity or number of units of the pharmaceutical benefit by means of repeated supplies on separate occasions. <p>A PBS prescription must be endorsed by the prescriber with "Regulation 24" as certification that all the above conditions apply.</p> <p>An example of where a prescription would need to be endorsed as Regulation 24 for each item would be where a subject of care taking antihypertensive medicine plans to travel overseas and requires the dispensing of the original and repeats at one time.</p> <p>For RPBS prescriptions:</p> <p>The original and repeat supplies of an item ordered on a prescription may be supplied at the one time if:</p> <ul style="list-style-type: none"> • the veteran lives a long way from the nearest pharmacy; or • the circumstances of the veteran's condition would impose hardship if separate visits for supply of repeats was required. <p>The words "hardship conditions apply" (or "Regulation 24") written on the prescription will be sufficient authority for a pharmacist to supply the items and repeats at the one time.</p>
Data Type	CodedText
Value Domain	Concurrent Supply Grounds Values

Usage


Conditions of Use	Only applicable to PBS and RPBS prescriptions. Not applicable to private prescriptions.
--------------------------	---

Conditions of
Use Source
Examples

NEHTA

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

4.15 Concurrent Supply Grounds Values

Identification

Name	Concurrent Supply Grounds Values
Metadata Type	Value Domain
Identifier	VD-16085
OID	1.2.36.1.2001.1001.101.104.16085

Definition

Definition	The set of values of Concurrent Supply Grounds.
Definition Source	NEHTA

Value Domain

Source	NEHTA	
Permissible Values	1, Pursuant to Regulation 24	Supply is in accord with Regulation 24 of the National Health (Pharmaceutical Benefits) Regulations 1960.
	2, Hardship conditions apply	Supply is in accord with the “Hardship conditions” provision of RPBS prescribing guidelines.
	9, No grounds	There are no ground for concurrent supply.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
T₀₁₀	Concurrent Supply Grounds	Essential		Single

4.16 PBS/RPBS Authority Approval Number

Identification

Name	PBS/RPBS Authority Approval Number
Metadata Type	Data Element
Identifier	DE-10159
OID	1.2.36.1.2001.1001.101.103.10159

Definition


Definition	An identification number obtained by the prescriber and included in the prescription to show that the prescription meets agreed prescribing requirements and has authority to prescribe the medication and/or the quantity of the medication.
Definition Source	Medicare Australia
Synonymous Names	
Notes	Each authority prescription requires a unique approval number provided by Medicare Australia or the Department of Veterans' Affairs.
Data Type	Text

Usage

Conditions of Use	<p>Only applicable to PBS and RPBS prescriptions. Not applicable to private prescriptions.</p> <p>For PBS prescriptions: Authority prescriptions are required for certain PBS medicines, and where the prescriber feels the patient requires an increased number of repeats or a quantity greater than the maximum listed in the Schedule of Pharmaceutical Benefits.</p> <p>For RPBS prescriptions: an authority required approval can be recorded on a script for private items which results in reduced or no out-of-pocket expenses for the patient.</p> <p>(Medicare Australia)</p> <ol style="list-style-type: none"> This MUST be populated if: <ul style="list-style-type: none"> The PBS/RPBS Benefit Category type is PBS; and The item is listed as “authority required”. This MUST NOT be populated if: <ul style="list-style-type: none"> The PBS/RPBS Benefit Category type is PBS; and The item is not listed as “authority required”. This MUST NOT be populated if: <ul style="list-style-type: none"> The PBS/RPBS Benefit Category type is neither PBS nor RPBS.
Conditions of Use Source	Medicare Australia and NEHTA
Examples	<ol style="list-style-type: none"> Z1234AB (Authority Required) 9876 (Authority Required (Streamlined))

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

4.17 State Authority Number

Identification

Name	State Authority Number
Metadata Type	Data Element
Identifier	DE-16018
OID	1.2.36.1.2001.1001.101.103.16018

Definition


Definition	An identification number issued by an Australian state or territory health authority as proof that the prescriber has obtained written authority to prescribe drugs of dependence for a drug-dependent person, or for the treatment of a person with drug addiction for a period in accordance with State or Territory regulations.
Definition Source	Medicare Australia
Synonymous Names	
Notes	The PBS refers to the requirement to also observe state legislation when prescribing Schedule 8 medicines. Such legislation may require a state issued authority number. These authority numbers may be required in addition to a PBS/RPBS Authority Approval Number .
Data Type	Text

Usage

Conditions of Use	If state authorisation is required to prescribe this item, this information must be provided in the prescription.
Conditions of Use Source	NEHTA
Examples	<ol style="list-style-type: none">1. S18A08122. CNS 1236543. S28c 1324654. 123658-10-20095. CL/245866. RA/34536

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

4.18 Additional Comments

Identification

Name	Additional Comments
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, proper use, or appropriate medication management.
Definition Source	NEHTA
Synonymous Names	
Notes	This can be used for details of the method of use of medical devices.
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 through the fingernail by clipping the device to the index finger.
Misuse	Use for information that could be recorded as structured data.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

5 Body Weight Observation

5.1 BODY WEIGHT

Identification

Name	BODY WEIGHT
Metadata Type	Data Group
Identifier	DG-16124
OID	1.2.36.1.2001.1001.101.102.16124

Definition


Definition	Details pertinent to the physical measurement of the weight (mass) of a Subject of Care's body.
Definition Source	Adapted from AIHW/METeOR definition of "body weight (measured) in Kilograms"
Synonymous Names	
Notes	The weight of a Subject of Care is a key observation used for dosage calculation for paediatric and chemotherapy prescriptions.

Usage



Conditions of Use	For children 12 years old or younger a body weight must be recorded.
Conditions of Use Source	NEHTA


Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Optional		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
	Body Weight Value	Essential		Single
	State of the Subject of Care	Optional		Multiple

Data Type	Name	Obligation	Condition	Occurrence
	DateTime of Observation	Essential		Single

5.2 Body Weight Value

Identification

Name	Body Weight Value
Metadata Type	Data Element
Identifier	DE-16125
OID	1.2.36.1.2001.1001.101.103.16125

Definition


Definition	The weight (body mass) of a person measured in kilograms.
Definition Source	AIHW/METeOR
Synonymous Names	Person Weight
Data Type	Quantity

Usage

Examples	1. 73 kg
	2. 0.89 kg

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	BODY WEIGHT	Essential		Single

5.3 State of the Subject of Care

Identification

Name	State of the Subject of Care
Metadata Type	Data Element
Identifier	DE-16051
OID	1.2.36.1.2001.1001.101.103.16051

Definition


Definition	Description of the physical and/or mental state of the subject of care when an observation is performed.
Definition Source	NEHTA
Synonymous Names	
Data Type	CodeableText
Value Domain	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used must be registered code sets, i.e. registered through HL7 code set registration procedure with an appropriate object identifier (OID), and must be publicly available.
	When national standard code sets become available, they must be used and the non standard code sets must be deprecated.

Usage

Examples	<ol style="list-style-type: none"> 1. Fully clothed. 2. Subject of care agitated and restless. 3. Standing without footwear.
-----------------	---

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	BODY WEIGHT	Optional		Multiple

5.4 DateTime of Observation

Identification

Name	DateTime of Observation
Metadata Type	Data Element
Identifier	DE-15561
OID	1.2.36.1.2001.1001.101.103.15561

Definition


Definition	The date (and optionally time) that an observation value is taken.
Definition Source	NEHTA
Synonymous Names	
Data Type	DateTime

Usage

Conditions of Use	This item must include a date component and may include a time component if it is known and relevant to record.
Conditions of Use Source	NEHTA
Examples	See: NEHTA Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d] .

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	BODY WEIGHT	Essential		Single

6 Body Height Observation

6.1 BODY HEIGHT

Identification


Name	BODY HEIGHT
Metadata Type	Data Group
Identifier	DG-16123
OID	1.2.36.1.2001.1001.101.102.16123

Definition




Definition	Details pertinent to the physical measurement of the height OR length of a Subject of Care's body.
Definition Source	NEHTA
Synonymous Names	Body Length
Notes	The height, together with the weight, of a subject of care enables derivation of Body Mass Index (BMI) which is a key observation that may be used for dosage calculation for certain medication prescription protocols, such as chemotherapy.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Optional		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
	Body Height Value	Essential		Single
	State of the Subject of Care	Optional		Multiple
	DateTime of Observation	Essential		Single

6.2 Body Height Value

Identification

Name	Body Height Value
Metadata Type	Data Element
Identifier	DE-16120
OID	1.2.36.1.2001.1001.101.103.16120

Definition


Definition	The height or length of a person measured in centimetres.
Definition Source	NEHTA
Synonymous Names	
Data Type	Quantity

Usage

Examples	1. 54.3 cm
	2. 172 cm

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	BODY HEIGHT	Essential		Single

6.3 State of the Subject of Care

Identification

Name	State of the Subject of Care
Metadata Type	Data Element
Identifier	DE-16051
OID	1.2.36.1.2001.1001.101.103.16051

Definition


Definition	Description of the physical and/or mental state of the subject of care when an observation is performed.
Definition Source	NEHTA
Synonymous Names	
Data Type	CodeableText
Value Domain	<i>Not specified.</i>
	In the absence of national standard code sets, the code sets used must be registered code sets, i.e. registered through HL7 code set registration procedure with an appropriate object identifier (OID), and must be publicly available.
	When national standard code sets become available, they must be used and the non standard code sets must be deprecated.

Usage

Examples	<ol style="list-style-type: none"> 1. Fully clothed. 2. Subject of care agitated and restless. 3. Standing without footwear.
-----------------	---

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	BODY HEIGHT	Optional		Multiple

6.4 DateTime of Observation

Identification

Name	DateTime of Observation
Metadata Type	Data Element
Identifier	DE-15561
OID	1.2.36.1.2001.1001.101.103.15561

Definition


Definition	The date (and optionally time) that an observation value is taken.
Definition Source	NEHTA
Synonymous Names	
Data Type	DateTime

Usage

Conditions of Use	This item must include a date component and may include a time component if it is known and relevant to record.
Conditions of Use Source	NEHTA
Examples	See: NEHTA Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d] .

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	BODY HEIGHT	Essential		Single

7 Prescription Note Detail Evaluation

7.1 PRESCRIPTION NOTE DETAIL

Identification

Name	PRESCRIPTION NOTE DETAIL
Metadata Type	Data Group
Identifier	DG-16212
OID	1.2.36.1.2001.1001.101.102.16212

Definition


Definition	Details pertinent to additional or supplementary information about the prescription, which is not captured by other information structures contained in the prescription.
Definition Source	NEHTA
Synonymous Names	Clinical Note
Notes	<p>This data group contains details of information/note at the prescription level.</p> <p>It provides for the capture of general prescriber remarks that target the dispenser. A note may contain details for such things as counselling instructions, Adverse Drug Reactions (ADR), and explanations regarding activities such as brand substitution.</p> <p>It is also used to capture the reasons for cancelling a prescription.</p>

Usage



Conditions of Use	This data group is essential for cancelled prescriptions, otherwise it is optional.
Conditions of Use Source	NEHTA
Misuse	Use to provide additional information about any prescribed item. (Such information is to be captured using Additional Comments .)

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Optional		Multiple

Children

Data Type	Name	Obligation	Condition	Occurrence
T	Prescription Note	Essential		Single
	DateTime Prescription Note Created	Essential		Single
	PRESCRIPTION NOTE AUTHOR	Essential		Single

7.2 Prescription Note

Identification

Name	Prescription Note
Metadata Type	Data Element
Identifier	DE-16213
OID	1.2.36.1.2001.1001.101.103.16213

Definition


Definition	Free text comments relevant to the concept.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Examples	1. Subject of care does not speak English, provide appropriate counselling.
-----------------	---

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION NOTE DETAIL	Essential		Single

7.3 DateTime Prescription Note Created

Identification

Name	DateTime Prescription Note Created
Metadata Type	Data Element
Identifier	DE-16089
OID	1.2.36.1.2001.1001.101.103.16089

Definition


Definition	The date (and optionally time) that the note was written.
Definition Source	NEHTA
Synonymous Names	
Data Type	DateTime

Usage

Examples	See: NEHTA Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d] .
-----------------	--

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION NOTE DETAIL	Essential		Single

7.4 PRESCRIPTION NOTE AUTHOR

Identification

Name	PRESCRIPTION NOTE AUTHOR
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296

Definition


Definition	The healthcare provider who wrote the note.
Definition Source	NEHTA
Synonymous Names	

Usage

Conditions of Use	<p>This is a reuse of the PARTICIPATION BY HEALTHCARE PROVIDER (PERSON) data group, which is described in Participation Specialisations Data Specification [NEHT2009d].</p> <p>The following constraints are additional to those specified in Participation Specialisations Data Specification [NEHT2009d]. Constraints are explained in Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d].</p> <p>There are no additional constraints.</p>
Conditions of Use Source	NEHTA

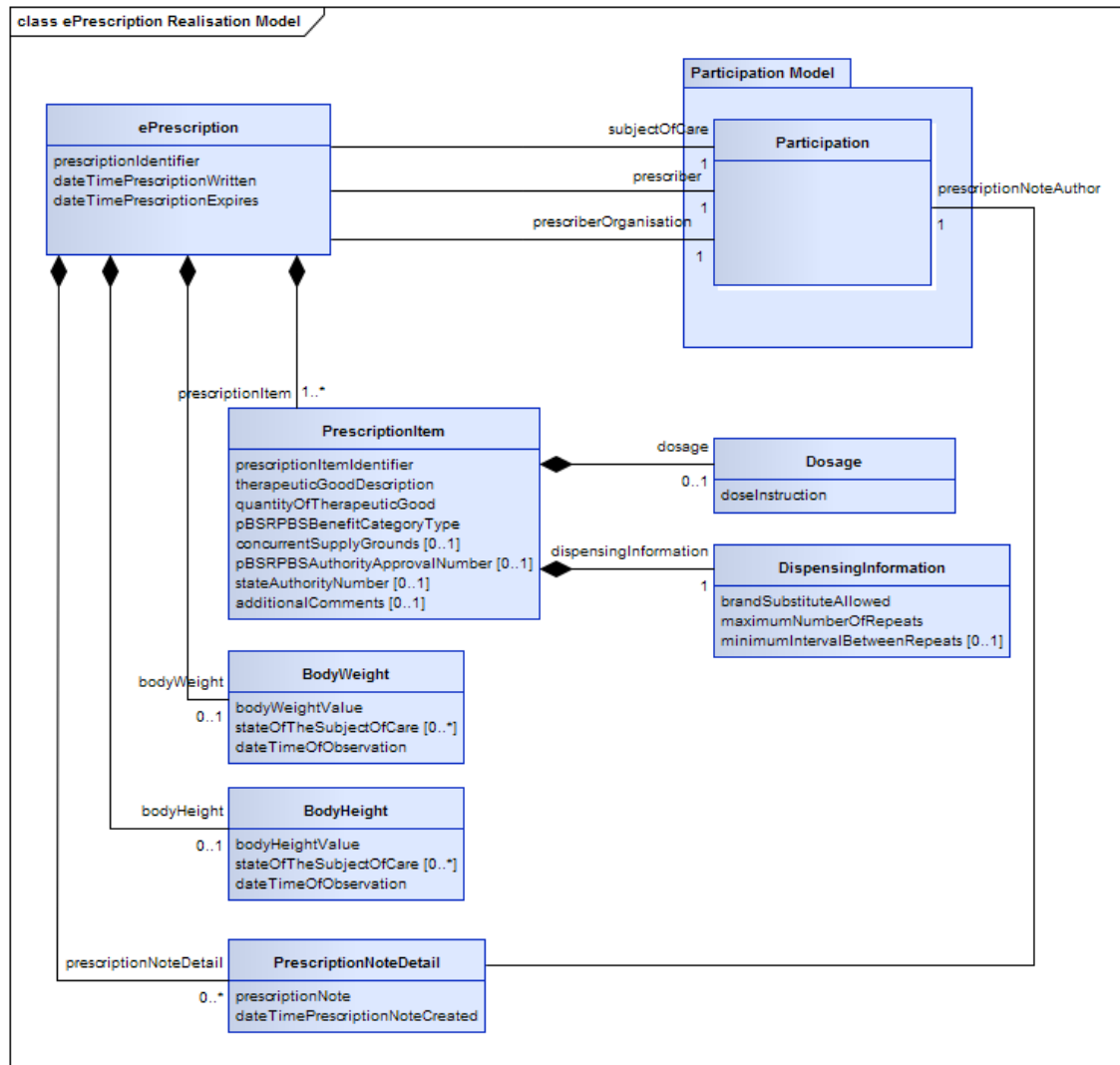
Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION NOTE DETAIL	Essential		Single

8 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 groups are displayed as classes and data elements are displayed as attributes. The diagram shows the data hierarchy excluding the details of participation. The default multiplicity is 1..1.



UML class diagram of the ePrescription data hierarchy.

9 Comparison Between Printed and Electronic Prescriptions

Printed prescriptions and electronic prescriptions have been designed for use in different situations. Printed prescriptions can be used without any supporting computer system. Use of electronic prescriptions requires a supporting computer system. Consequently, the layout of a printed prescription is a poor guide to where data elements are recorded in the associated electronic prescription. This chapter identifies the data elements of a typical printed prescription and describes how they are recorded in the structure of an electronic prescription.

9.1 A Blank Printed Prescription

The image shows a blank printed prescription form with several color-coded regions and labels:

- Prescriber details** (Yellow background): Includes a field for "Prescriber no.:".
- Patient's Medicare no.:** (Green background): Includes a field for "Pharmaceutical benefits entitlement number" and two checkboxes: "Safety Net entitlement card holder (cross relevant box)" and "Concessional or dependent PBS beneficiary or Safety Net concession card holder".
- Subject of care details** (Green background): Includes fields for "Patient's name:" and "Address:".
- Prescription details** (Pink background): Includes a field for "Date PBS" and a checkbox for "brand substitution not permitted".
- Prescribed item details** (Cyan background): A large area for the prescription details, with a vertical barcode on the left side.
- Document retrieval key (barcode)** (White background): A field at the bottom for the document retrieval key.

Annotated blank prescription

This is an annotated image of a typical blank prescription form. The next section of this document describes how the information in each labeled region of a printed prescription is recorded in an electronic prescription.

9.2 Mapping From Printed to Electronic Prescriptions

This section describes how the information in each region of a printed prescription is recorded in an electronic prescription.

Mapping of Printed Prescription Data Items to Electronic Prescription Data Items

These tables describe, for each data item in a typical printed prescription, where an electronic prescription will record the same information.

Prescriber details

Prescription item name	SDT item name
Doctor's Name	Prescriber.Participant.Person.Person Name
Surgery Address	Prescriber Organisation.Participant.Address
Surgery Telephone	Prescriber Organisation.Participant.Electronic Communication Detail
Prescriber no.	Prescriber.Participant.Entity Identifier

Subject of care details

Prescription item name	SDT item name
Patient's Medicare no.	Subject of Care.Participant.Entitlement.Entitlement Number
Pharmaceutical benefits entitlement number	Subject of Care.Participant.Entitlement.Entitlement Number
Safety Net entitlement card holder	Subject of Care.Participant.Entitlement.Entitlement Type
Concessional or dependent RPBS beneficiary or Safety Net concession card holder	Subject of Care.Participant.Entitlement.Entitlement Type
Patient's name	Subject of Care.Participant.Person.Person Name
Patient's Address	Subject of Care.Participant.Address

Prescription details

Prescription item name	SDT item name
Date	DateTime Prescription Written
PBS	Prescription Item.PBS/RPBS Benefit Category Type
RPBS	Prescription Item.PBS/RPBS Benefit Category Type
Brand substitution not permitted	Prescription Item.Dispensing Information.Brand Substitute Allowed
Prescription no.	Prescription Identifier
Number of items	This is derived, it is not carried in an electronic prescription.

Prescribed item details

Prescription item name	SDT item name
Item Description	This is carried in various data items in Prescription Item. The therapeutic good is identified in Therapeutic Good Description. The quantity in Quantity of Therapeutic Good. The number of repeats in Maximum Number of Repeats. The dose instruction in Dose Instruction.
Regulation 24	Prescription Item.Concurrent Supply Grounds
Hardship conditions apply	Prescription Item.Concurrent Supply Grounds

Document retrieval key

Prescription item name	SDT item name
Document Retrieval Key (barcode)	This is carried in the PES (Prescription Exchange Service) header, not in the prescription document. For more details see the NEHTA ETP Technical Architecture [NEHT2009] .

Reference List

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Appendix A. Participations















This appendix details the participation data groups used in the ePrescription SDT. Each participation data group is described with a data hierarchy and a list of value constraints. The data hierarchies have been constrained from the general participation data hierarchies described in [Participation Data Specification \[NEHT2009c\]](#) and [Participation Specialisations Data Specification \[NEHT2009d\]](#). The format of the data hierarchy tables is also explained in [Data Specifications and Structured Document Templates - Guide for Use \[NEHT2010d\]](#). The value constraints have the same form as those in the body of the SDT.

A.1 Subject of Care

This is a reuse of the PARTICIPATION BY NON-HEALTHCARE PROVIDER (PERSON) WITH DEMOGRAPHICS data group, which is described in [Participation Specialisations Data Specification \[NEHT2009d\]](#).

The following data hierarchy is the result of constraining that data group for Subject of Care. Constraints on data values are listed after the data hierarchy.

Data Hierarchy

	PARTICIPATION			
		Participation Type		!
		Healthcare Role		X
		Participation Period		X
		LOCATION OF PARTICIPATION		X
		PARTICIPANT		!
			Entity Identifier	! ↻
			ADDRESS	!
			No Fixed Address Indicator	!
			AUSTRALIAN OR INTERNATIONAL ADDRESS	!
			AUSTRALIAN ADDRESS	!
			 Australian Address Line	0 ↻
			 Australian Suburb/Town/Locality	0
			 Australian State/Territory	0

				T₀₁₀	Australian Postcode	O
				ID	Australian Delivery Point Identifier	O
				INTERNATIONAL ADDRESS		X
				ADDRESS PURPOSE DETAIL		
				T₀₁₀	Address Purpose	!
					Address Purpose Date Range	O
			ELECTRONIC COMMUNICATION DETAIL			0
			T₀₁₀	Electronic Communication Medium		!
			T₀₁₀	Electronic Communication Usage Code		O
			T	Electronic Communication Address		!
		C	PERSON OR ORGANISATION			!
				PERSON		!
				PERSON NAME		
				T₀₁₀	Name Title	0
				T	Family Name	!
				T	Given Name	0
				T₀₁₀	Name Suffix	0
					Preferred Name Indicator	O
				T₀₁₀	Name Conditional Use Flag	0
				NAME USAGE DETAIL		0
				T₀₁₀	Name Usage	!
					Name Usage Date Range	O
			C	HEALTHCARE PROVIDER OR NON HEALTHCARE PROVIDER		!
				HEALTHCARE PROVIDER DETAIL		X

						NON HEALTHCARE PROVIDER DETAIL	!	
							Relationship to Subject of Care	!
							EMPLOYMENT DETAIL	X
							DEMOGRAPHIC DATA	!
							Sex	O
							Date of Birth	O
							Date of Death	X
							Source of Death Notification	X
							Mothers Original Family Name	X
							Country of Birth	X
							Identification Notes	X
						ORGANISATION	X	
						ENTITLEMENT	O	
						Entitlement Number	!	
						Entitlement Type	!	
						Entitlement Validity Duration	O	

Constraints on data values

- Participation Type **MUST** have a fixed value of “Subject of Care”
- There **MUST** be one and only one Entity Identifier with an Australian IHI as its value.
- There **MAY** be additional Entity Identifiers, but they **MUST NOT** have an Australian IHI as a value.
- ADDRESS **MUST** have an Address Purpose value of “Residential” or “Temporary Accommodation”.
- Relationship to Subject of Care **MUST** have a fixed value of “Self”.

Notes





















- The subject of care's medicare card number is recorded in ENTITLEMENT, not Entity Identifier.

A.2 Prescriber













This is a reuse of the PARTICIPATION BY HEALTHCARE PROVIDER (PERSON) data group, which is described in [Participation Specialisations Data Specification \[NEHT2009d\]](#).

The following data hierarchy is the result of constraining that data group for Prescriber. Constraints on data values are listed after the data hierarchy.

Data Hierarchy

	PARTICIPATION				
		Participation Type		!	
		Healthcare Role		X	
		Participation-Period		X	
		LOCATION-OF-PARTICIPATION		X	
		PARTICIPANT		!	
			Entity Identifier	!↻	
			ADDRESS	0↻	
			No Fixed Address Indicator	!	
			AUSTRALIAN OR INTERNATIONAL ADDRESS	!	
				AUSTRALIAN ADDRESS	0
				Australian Address Line	0↻
				Australian Suburb/Town/Locality	0
				Australian State/Territory	0
				Australian Postcode	0
				Australian Delivery Point Identifier	0
				INTERNATIONAL ADDRESS	0
				International Address Line	0↻
				International State/Province	0
				International Postcode	0

				T/T ₁₀	Country	O
			F	ADDRESS PURPOSE DETAIL		!R
				T ₀₁₀	Address Purpose	!
					Address Purpose Date Range	O
			F	ELECTRONIC COMMUNICATION DETAIL		OR
				T ₀₁₀	Electronic Communication Medium	!
				T ₀₁₀	Electronic Communication Usage Code	O
				T	Electronic Communication Address	!
			C	PERSON OR ORGANISATION		!
			F	PERSON		!
				F	PERSON NAME	!R
				T ₀₁₀	Name Title	OR
				T	Family Name	!
				T	Given Name	OR
				T ₀₁₀	Name Suffix	OR
				✓x	Preferred Name Indicator	O
				T ₀₁₀	Name Conditional Use Flag	OR
				F	NAME USAGE DETAIL	OR
				T ₀₁₀	Name Usage	!
					Name Usage Date Range	O
				C	HEALTHCARE PROVIDER OR NON HEALTHCARE PROVIDER	!
				F	HEALTHCARE PROVIDER DETAIL	!
					HEALTHCARE PROVIDER FIELD OF PRACTICE	X
					EMPLOYER ORGANISATION DETAIL	X

				NON HEALTHCARE PROVIDER DETAIL	
				ORGANISATION	
			ENTITLEMENT		
				Entitlement Number	
				Entitlement Type	
				Entitlement Validity Duration	

Constraints on data values





















- Participation Type **MUST** have a fixed value of “Prescriber”
- There **MUST** be one and only one Entity Identifier with an Australian HPI-I as its value.
- There **MAY** be additional Entity Identifiers, but they **MUST NOT** have an Australian HPI-I as a value.
- There **MUST** be one and only one ENTITLEMENT with a Medicare Prescriber Number as its value.
- There **MAY** be additional ENTITLEMENTS, but they **MUST NOT** have a Medicare Prescriber Number as a value.








A.3 Prescriber Organisation

This is a reuse of the PARTICIPATION BY ORGANISATION data group, which is described in [Participation Specialisations Data Specification \[NEHT2009d\]](#).

The following data hierarchy is the result of constraining that data group for Prescriber Organisation. Constraints on data values are listed after the data hierarchy.

Data Hierarchy

	PARTICIPATION				
		Participation Type		!	
		Healthcare Role		X	
		Participation Period		X	
		LOCATION OF PARTICIPATION		X	
		PARTICIPANT			!
			Entity Identifier	! ↻	
			ADDRESS	!	
			No Fixed Address Indicator	!	
			AUSTRALIAN OR INTERNATIONAL ADDRESS	!	
			AUSTRALIAN ADDRESS	!	
				Australian Address Line	0 ↻
				Australian Suburb/Town/Locality	0
				Australian State/Territory	0
				Australian Postcode	0
				Australian Delivery Point Identifier	0
			INTERNATIONAL ADDRESS		X
			ADDRESS PURPOSE DETAIL		! ↻
				Address Purpose	!
				Address Purpose Date Range	0

			ELECTRONIC COMMUNICATION DETAIL		!
			T010	Electronic Communication Medium	!
			T010	Electronic Communication Usage Code	O
			T	Electronic Communication Address	!
		C	PERSON OR ORGANISATION		!
			PERSON		X
			ORGANISATION		!
				ORGANISATION NAME DETAIL	!↻
				T Organisation Name	!
				T Department/Unit	O
				NAME USAGE DETAIL	!↻
				T010 Name Usage	!
				Name Usage Date Range	O
			ENTITLEMENT		X

Constraints on data values





















- Participation Type **MUST** have a fixed value of “Prescriber Organisation”
- There **MUST** be one and only one Entity Identifier with an Australian HPI-O as its value.
- There **MAY** be additional Entity Identifiers, but they **MUST NOT** have an Australian HPI-O as a value.
- ADDRESS **MUST** have an Address Purpose value of “Business”.
- A least one ELECTRONIC COMMUNICATION DETAIL **MUST** have an Electronic Communication Medium value of “Telephone” or “Mobile”

A.4 Prescription Note Author






This is a reuse of the PARTICIPATION BY HEALTHCARE PROVIDER (PERSON) data group, which is described in [Participation Specialisations Data Specification \[NEHT2009d\]](#).

The following data hierarchy is the result of constraining that data group for Prescription Note Author. Constraints on data values are listed after the data hierarchy.

Data Hierarchy

	PARTICIPATION				
		Participation Type		!	
		Healthcare Role		X	
		Participation Period		X	
		LOCATION OF PARTICIPATION		X	
		PARTICIPANT			!
			Entity Identifier	! ↻	
			ADDRESS	0 ↻	
			No Fixed Address Indicator	!	
			AUSTRALIAN OR INTERNATIONAL ADDRESS	!	
				AUSTRALIAN ADDRESS	O
				Australian Address Line	0 ↻
				Australian Suburb/Town/Locality	O
				Australian State/Territory	O
				Australian Postcode	O
				Australian Delivery Point Identifier	O
				INTERNATIONAL ADDRESS	O
				International Address Line	0 ↻
				International State/Province	O
				International Postcode	O

				T/T₁₀	Country	O
			F	ADDRESS PURPOSE DETAIL		!R
				T₀₁₀	Address Purpose	!
					Address Purpose Date Range	O
			F	ELECTRONIC COMMUNICATION DETAIL		OR
				T₀₁₀	Electronic Communication Medium	!
				T₀₁₀	Electronic Communication Usage Code	O
				T	Electronic Communication Address	!
			C	PERSON OR ORGANISATION		!
			F	PERSON		!
				F	PERSON NAME	!R
				T₀₁₀	Name Title	OR
				T	Family Name	!
				T	Given Name	OR
				T₀₁₀	Name Suffix	OR
				✓x	Preferred Name Indicator	O
				T₀₁₀	Name Conditional Use Flag	OR
				F	NAME USAGE DETAIL	OR
				T₀₁₀	Name Usage	!
					Name Usage Date Range	O
				C	HEALTHCARE PROVIDER OR NON HEALTHCARE PROVIDER	!
				F	HEALTHCARE PROVIDER DETAIL	!
				F	HEALTHCARE PROVIDER FIELD OF PRACTICE	X
				F	EMPLOYER ORGANISATION DETAIL	X

				NON HEALTHCARE PROVIDER DETAIL	X
				ORGANISATION	X
			ENTITLEMENT		!↻
			ID	Entitlement Number	!
				Entitlement Type	!
				Entitlement Validity Duration	O

Constraints on data values

- Participation Type **MUST** have a fixed value of “Prescription Note Author”
- There **MUST** be one and only one Entity Identifier with an Australian HPI-I as its value.
- There **MAY** be additional Entity Identifiers, but they **MUST NOT** have an Australian HPI-I as a value.
- There **MUST** be one and only one ENTITLEMENT with a Medicare Prescriber Number as its value.
- There **MAY** be additional ENTITLEMENTS, but they **MUST NOT** have a Medicare Prescriber Number as a value.

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