

nehta

ePrescription Structured Document Template

Version 3.1 — 17 Dec 2010

Final

National E-Health Transition Authority Ltd

Level 25
56 Pitt Street
Sydney NSW 2000
Australia
www.nehta.gov.au

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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	31 Jul 2010	Public Release - For Consultation.
3.0	31 Aug 2010	Use Participation v3. Other minor changes.
3.1	17 Dec 2010	The data group <i>DISPENSING INFORMATION</i> has been removed, but all of its data elements have been retained. The Participation appendices have been aligned with the body of the SDT.

Related documents

Name	Version/Release Date
Data Types in NEHTA Specifications: A Profile of the ISO 21090 Specification	Version 1.0, Issued September 2010
Data Specifications and Structured Document Templates - Guide for Use	Version 1.1, Issued September 2010
Participation Data Specification	Version 3.0, Issued September 2010
Prescription Request Structured Document Template	Version 1.1, Issued November 2010
Dispense Record Structured Document Template	Version 3.1, Issued November 2010
e-Prescription v3.1 CDA Implementation Guide	Version 1.0, Issued November 2010

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- Standards Australia;
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- Australian Institute of Health & Welfare; and
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1 Introduction

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

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

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

1.1 Document Purpose

This document describes the structured document template for an electronic prescription, an *e-Prescription*, from a clinical communication perspective.

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.

— [\[DHA2010a\]](#)

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 ETP system.

It is also a key input to the [NEHTA e-Prescription v3.1 CDA Implementation Guide \[NEHT2010m\]](#), which describes how to implement NEHTA-compliant electronic prescriptions 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 Overview

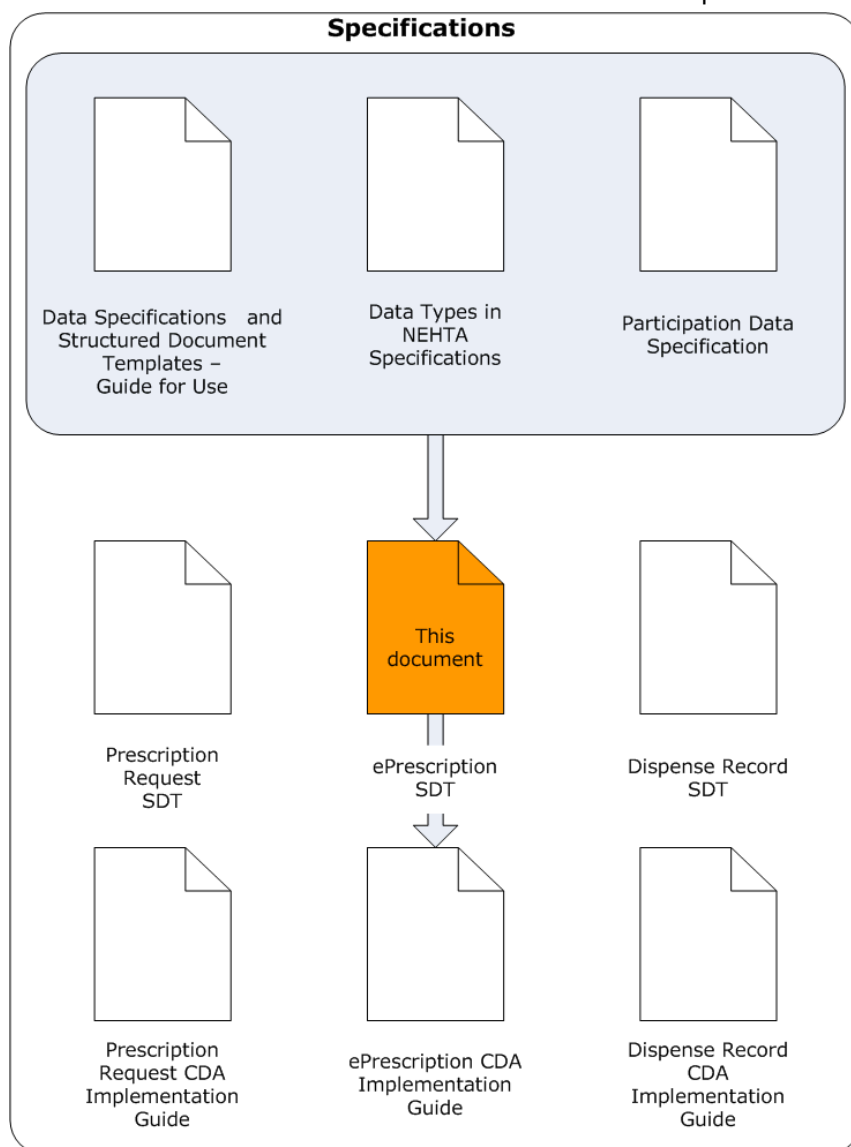
The overall process of prescribing and dispensing is described in [ETP Release 1.1 Concept of Operations \[NEHT2010p\]](#).

The processes behind e-Prescriptions are:

1. A prescriber, using an Electronic Prescribing System (EPS), creates an electronic prescription (e-Prescription) and transmits it to a Prescription Exchange Service (PES). A PES is an online service for the exchange of prescriptions; it is operated by a PES provider and is accessible in any participating pharmacy.
2. The dispenser retrieves the electronic prescription from the PES.
3. 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.
4. After the dispensing is completed, an electronic dispense record, called a PES-DR, containing information pertinent to that event is created and stored in the PES.

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: A Profile of the ISO 21090 Specification \[NEHT2010c\]](#).
3. [NEHTA Participation Data Specification \[NEHT2010i\]](#).
4. [NEHTA Prescription Request Structured Document Template \[NEHT2010s\]](#).
5. [NEHTA Dispense Record Structured Document Template \[NEHT2010t\]](#).
6. [NEHTA Prescription Request v1.1 CDA Implementation Guide \[NEHT2010n\]](#).
7. [NEHTA e-Prescription v3.1 CDA Implementation Guide \[NEHT2010m\]](#).
8. [NEHTA Dispense Record v3.1 CDA Implementation Guide \[NEHT2010o\]](#).

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 1.1, which will support prescriptions that are generated by medical practitioners and dispensed by pharmacists.

The types of prescriptions are:

- PBS/RPBS prescriptions;
- PBS/RPBS authority prescriptions; and
- non-PBS prescriptions (private prescriptions).

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

1.6 Known Issues

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

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.
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

CONTENT			
		PRESCRIPTION ITEM	1..1
		 DateTime Prescription Written	1..1
		 DateTime Prescription Expires	1..1
		ID Prescription Item Identifier	1..1
		T/T_{ent} Therapeutic Good Identification	1..1
		T Formula	0..1
		DOSAGE	0..1
		T Dose Instruction	1..1
		T Instructions for Use	0..1
		T Quantity of Therapeutic Good	1..1
		 Brand Substitute Allowed	1..1
		123 Maximum Number of Repeats	1..1
		 Minimum Interval Between Repeats	0..1
		T₀₁₀ Medical Benefit Category Type	1..1
		T₀₁₀ Grounds for Concurrent Supply	1..1
		T PBS/RPBS Authority Approval Number	0..1
		T State Authority Number	0..1
		T Reason for Therapeutic Good	0..1
		T Additional Comments	0..1
		OBSERVATIONS	0..1
		BODY WEIGHT	0..1
		 Body Weight Value	1..1
		 DateTime of Observation	1..1
		BODY HEIGHT	0..1

			Body Height Value	1..1
			DateTime of Observation	1..1
		PRESCRIPTION NOTE DETAIL		0..1
		T	Note	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 [SA2006b]

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	<p>These are described in more detail in A.1: Subject of Care.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2010i].</p> <p>The following constraints are additional to those specified in Participation Data Specification [NEHT2010i]. Constraints are explained in Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d].</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. • EMPLOYMENT DETAIL is PROHIBITED. • DATE OF DEATH DETAIL is PROHIBITED. • Source of Death Notification is PROHIBITED. • Mother's Original Family Name is PROHIBITED.
--------------------------	--

<p>Conditions of Use Source</p>	<ul style="list-style-type: none"> Country of Birth is PROHIBITED. State/Territory of Birth is PROHIBITED. Indigenous Status is PROHIBITED. Qualifications is PROHIBITED. <p>Other additional constraints:</p> <ul style="list-style-type: none"> Participation Type MUST have an implementation-specific fixed value meaning "Subject". The value of Entity Identifier MUST be an Australian IHI. ADDRESS MUST have an Address Purpose value meaning "Residential" or "Temporary Accommodation". PERSON OR ORGANISATION OR DEVICE MUST be instantiated as a PERSON. Entitlement Type MUST have a value from Subject of Care Entitlement Type Values.
	NEHTA

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

3.2 Subject of Care Entitlement Type Values

Identification

Name	Subject of Care Entitlement Type Values
Metadata Type	Value Domain
Identifier	VD-16047
OID	1.2.36.1.2001.1001.101.104.16047

Definition


Definition	The set of values for the description of the scope of a Subject of Care's entitlement.
Definition Source	NEHTA

Value Domain

Source	NEHTA
Permissible Values	<ol style="list-style-type: none"> 1 Medicare Benefits 2 Pensioner Concession 3 Commonwealth Seniors Health Concession 4 Health Care Concession 5 Repatriation Health Gold Benefits 6 Repatriation Health White Benefits 7 Repatriation Health Orange Benefits 8 Safety Net Concession 9 Safety Net Entitlement

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	SUBJECT OF CARE	Essential		Single

3.3 PRESCRIBER

Identification

Name	PRESCRIBER
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296
External Identifier	AS 4846-2006 [SA2006a]

Definition

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


Usage

Conditions of Use	<p>These are described in more detail in A.2: Prescriber.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2010j].</p> <p>The following constraints are additional to those specified in Participation Data Specification [NEHT2010j]. Constraints are explained in Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d].</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. • Relationship to Subject of Care is PROHIBITED. • EMPLOYER ORGANISATION is PROHIBITED. • Employment Type is PROHIBITED. • Occupation is ESSENTIAL. • Position In Organisation is PROHIBITED. • Date of Birth is Calculated From Age is PROHIBITED. • DATE OF BIRTH ACCURACY INDICATOR is PROHIBITED. • AGE DETAIL is PROHIBITED.
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<p>Conditions of Use Source</p>	<ul style="list-style-type: none"> Birth Plurality is PROHIBITED. Birth Order is PROHIBITED. DATE OF DEATH DETAIL is PROHIBITED. Source of Death Notification is PROHIBITED. Mother's Original Family Name is PROHIBITED. Country of Birth is PROHIBITED. State/Territory of Birth is PROHIBITED. Indigenous Status is PROHIBITED. <p>Other additional constraints:</p> <ul style="list-style-type: none"> Participation Type MUST have an implementation specific fixed value meaning "Prescriber". The value of Entity Identifier MUST be an Australian HPI-I. AUSTRALIAN OR INTERNATIONAL ADDRESS MUST be instantiated as an AUSTRALIAN ADDRESS. PERSON OR ORGANISATION OR DEVICE MUST be instantiated as a PERSON. If the value of Medical Benefit Category Type is "1" (PBS), "2" (RPBS) or "3" (CTG), exactly one ENTITLEMENT MUST have an Entitlement Type with the value "10" (Medicare Prescriber Number).
	NEHTA

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

3.4 PRESCRIBER ORGANISATION

Identification

Name	PRESCRIBER ORGANISATION
Metadata Type	Data Group
Identifier	DG-10296
OID	1.2.36.1.2001.1001.101.102.10296
External Identifier	AS 4846-2006 [SA2006a]

Definition

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

Usage

Conditions of Use	<p>These are described in more detail in A.3: Prescriber Organisation.</p> <p>This is a reuse of the PARTICIPATION data group, which is described in Participation Data Specification [NEHT2010j].</p> <p>The following constraints are additional to those specified in Participation Data Specification [NEHT2010j]. Constraints are explained in Data Specifications and Structured Document Templates - Guide for Use [NEHT2010d].</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. • ADDRESS is SINGLE. • ELECTRONIC COMMUNICATION DETAIL is ESSENTIAL. • ENTITLEMENT is PROHIBITED. • Qualifications is PROHIBITED. <p>Other additional constraints:</p> <ul style="list-style-type: none"> • Participation Type MUST have a fixed value of "Healthcare Facility".
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**Conditions of
Use Source**

- The value of Entity Identifier **MUST** be an Australian HPI-O.
- 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”.
- PERSON OR ORGANISATION OR DEVICE **MUST** be instantiated as an ORGANISATION.

NEHTA

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

3.5 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] .
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Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

4 Prescription Item

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.
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Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Essential		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
	DateTime Prescription Written	Essential		Single
	DateTime Prescription Expires	Essential		Single
ID	Prescription Item Identifier	Essential		Single
	Therapeutic Good Identification	Essential		Single

Data Type	Name	Obligation	Condition	Occurrence
T	Formula	Optional		Single
	DOSAGE	Optional		Single
T	Instructions for Use	Optional		Single
T	Quantity of Therapeutic Good	Essential		Single
	Brand Substitute Allowed	Essential		Single
	Maximum Number of Repeats	Essential		Single
	Minimum Interval Between Repeats	Optional		Single
	Medical Benefit Category Type	Essential		Single
	Grounds for Concurrent Supply	Essential		Single
T	PBS/RPBS Authority Approval Number	Optional		Single
T	State Authority Number	Optional		Single
T	Reason for Therapeutic Good	Optional		Single
T	Additional Comments	Optional		Single

4.2 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
	PRESCRIPTION ITEM	Essential		Single

4.3 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, national rules and controlled by protocols. As an example, the prescriptions issued under the Pharmaceutical Benefits Schedule usually expire after 12 months. 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
	PRESCRIPTION ITEM	Essential		Single

4.4 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 an instruction to use a therapeutic good.
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

4.5 Therapeutic Good Identification

Identification

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

Definition

Definition	<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.
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 Identification Values


Usage

Conditions of Use	<p>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 Identification Values.</p> <p>For items without an AMT code (including some extemporaneous preparations), a text description is suitable. For a medication this MUST include the name of the</p>
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Conditions of Use Source	medication (brand name or generic name equivalent), strength and dose form, where appropriate. NEHTA
Examples	Some examples of AMT ConceptID and their AMT Preferred Term are: <ol style="list-style-type: none"> 1. 293049011000036110, paracetamol 500 mg + codeine phosphate 30 mg tablet 2. 327004011000036118, paracetamol 500 mg + codeine phosphate 30 mg tablet, 20 3. 234184011000036115, Panadeine Forte tablet: uncoated, 20 tablets 4. 192727011000036112, Panadeine Forte (paracetamol 500 mg + codeine phosphate 30 mg) tablet: uncoated, 1 tablet 5. 278453011000036118, Panadeine Forte tablet: uncoated, 20 tablets, blister pack 6. 315236011000036113, bandage compression 10 cm x 3.5 m bandage: high stretch, 1 bandage 7. 186324011000036116, Eloflex (2480) (bandage compression 10 cm x 3.5 m) bandage: high stretch, 1 bandage
Misuse	Detailing the formula of a compounded (extemporaneous) medication.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

4.6 Therapeutic Good Identification Values

Identification

Name	Therapeutic Good Identification 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 consists of 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); <i>or</i> • IS A Containered Trade Product Pack (CTPP). <p>Specifically for MPUU: only MPUU concepts that have no child MPUUs 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	<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
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Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	Therapeutic Good Identification	Essential		Single

4.7 Formula

Identification

Name	Formula
Metadata Type	Data Element
Identifier	DE-16272
OID	1.2.36.1.2001.1001.101.103.16272

Definition


Definition	The recipe for compounding a medicine.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Examples	<p>1. BORIC ACID, OLIVE OIL AND ZINC OXIDE (BOZ) Ointment:</p> <p>Boric Acid 1% in Paraffin Ointment B.P. 25</p> <p>Olive Oil 25</p> <p>Zinc Oxide Ointment to 100</p>
Misuse	Describing off-the-shelf medications.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

4.8 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	If the Therapeutic Good is a medication, this is ESSENTIAL , otherwise it is PROHIBITED .
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 Instructions for Use 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

4.9 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"> One tablet twice a day every 12 hours, before or with the first mouthful of food. 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

4.10 Instructions for Use

Identification

Name	Instructions for Use
Metadata Type	Data Element
Identifier	DE-16276
OID	1.2.36.1.2001.1001.101.103.16276

Definition


Definition	Directions for the use of a therapeutic good other than a medication.
Definition Source	NEHTA
Synonymous Names	
Data Type	Text

Usage

Conditions of Use	If the Therapeutic Good is a medication, this is PROHIBITED , otherwise it is ESSENTIAL .
Conditions of Use Source	NEHTA
Examples	<ol style="list-style-type: none"> 1. For use with Spiriva Capsules containing powder for oral inhalation. (About a Spiriva HandiHaler.) 2. Portable Pulse Oximeter measurement to be taken by clipping the sensor onto the tip of a finger.
Misuse	Using this data group for medication items.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

4.11 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.
Definition Source	NEHTA
Synonymous Names	Quantity Prescribed Quantity Ordered Unit of Use Quantity Prescribed
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

4.12 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 of the same medication, which has been determined as bioequivalent, is allowed when the medication is dispensed/supplied.
Definition Source	NEHTA
Synonymous Names	Allow substitutions
Notes	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].
Data Type	Boolean

Usage

Misuse	Using this data element for therapeutic substitution. Using this data element for medical appliances.
Default Value	"true"

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

4.13 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	Integer

Usage

Conditions of Use	If the value of Grounds for Concurrent Supply 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
	PRESCRIPTION ITEM	Essential		Single

4.14 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
	PRESCRIPTION ITEM	Optional		Single

4.15 Medical Benefit Category Type

Identification

Name	Medical 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	This indicates whether the item has been prescribed for a use which attracts a subsidy. Not to be confused with Claim Category Type.
Data Type	CodedText
Value Domain	Medical Benefit Category Type Values

Usage

Examples

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

4.16 Medical Benefit Category Type Values

Identification

Name	Medical 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 Medical 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.
	3, CTG	A subsidy under the Closing the Gap-PBS Co-Payment Measure ³ applies to this item.
	9, No benefit	This item is not covered by a medical subsidy.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
T ₀₁₀	Medical 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

³ <http://www.medicareaustralia.gov.au/provider/pbs/pharmacists/closing-the-gap.jsp>

4.17 Grounds for Concurrent Supply

Identification

Name	Grounds for Concurrent Supply
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 (Regulation 24):</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 (Hardship conditions apply):</p>

Data Type	CodedText
Value Domain	Grounds for Concurrent Supply Values

The original and repeat supplies of an item ordered on a prescription may be supplied at the one time if:

- 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.


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.

Usage

Conditions of Use	Only applicable to PBS and RPBS prescriptions. Not applicable to private prescriptions.
Conditions of Use Source	NEHTA
Examples	

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Essential		Single

4.18 Grounds for Concurrent Supply Values

Identification

Name	Grounds for Concurrent Supply 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 grounds for concurrent supply.

Relationships

Parents

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

4.19 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 Medical 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 Medical Benefit Category type is PBS; and the item is not listed as “authority required”. This MUST NOT be populated if:
--------------------------	--

Conditions of Use Source	<ul style="list-style-type: none"> the Medical Benefit Category type is neither PBS nor RPBS.
Examples	<p>Medicare Australia and NEHTA</p> <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

4.20 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. S18A0812 2. CNS 123654 3. S28c 132465 4. 123658-10-2009 5. CL/24586 6. RA/34536

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

4.21 Reason for Therapeutic Good

Identification

Name	Reason for Therapeutic Good
Metadata Type	Data Element
Identifier	DE-10141
OID	1.2.36.1.2001.1001.101.103.10141

Definition


Definition	The clinical justification (e.g. specific therapeutic effect intended) for this subject of care's use of the therapeutic good.
Definition Source	NEHTA
Synonymous Names	Reason for prescribing
Data Type	Text

Usage

Examples	1. Long-term maintenance treatment of bronchospasm and dyspnoea.
-----------------	--

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

4.22 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	
Data Type	Text

Usage

Examples	1. Patient requires an administration aid.
Misuse	Use for information that could be recorded as structured data.

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION ITEM	Optional		Single

5 Observations Section

5.1 OBSERVATIONS

Identification


Name	OBSERVATIONS
Metadata Type	Section
Identifier	S-16280
OID	1.2.36.1.2001.1001.101.101.16280

Definition



Definition	A collection of observations of the Subject of Care which are relevant to the prescription.
Definition Source	NEHTA
Synonymous Names	

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Optional		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
	BODY WEIGHT	Optional		Single
	BODY HEIGHT	Optional		Single

5.2 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	Body Weight
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
	OBSERVATIONS	Optional		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
	Body Weight Value	Essential		Single
	DateTime of Observation	Essential		Single

5.3 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.
Definition Source	NEHTA
Synonymous Names	Person Weight
Data Type	Quantity

Usage

Conditions of Use	The unit of measurement MUST be kilograms.
Conditions of Use Source	NEHTA
Examples	1. 73 kg 2. 0.89 kg

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	BODY WEIGHT	Essential		Single

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

5.5 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
	OBSERVATIONS	Optional		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
	Body Height Value	Essential		Single
	DateTime of Observation	Essential		Single

5.6 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.
Definition Source	NEHTA
Synonymous Names	
Data Type	Quantity

Usage

Conditions of Use	The unit of measurement MUST be centimetres.
Conditions of Use Source	NEHTA
Examples	1. 54.3 cm 2. 172 cm

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	BODY HEIGHT	Essential		Single

5.7 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

6 Prescription Note Detail

6.1 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>

Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	EPRESCRIPTION	Optional		Single

Children

Data Type	Name	Obligation	Condition	Occurrence
T	Note	Essential		Single

6.2 Note

Identification

Name	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	<ol style="list-style-type: none"> 1. Subject of care does not speak English, provide appropriate counselling. 2. Please deliver to the subject of care, at home.
-----------------	---

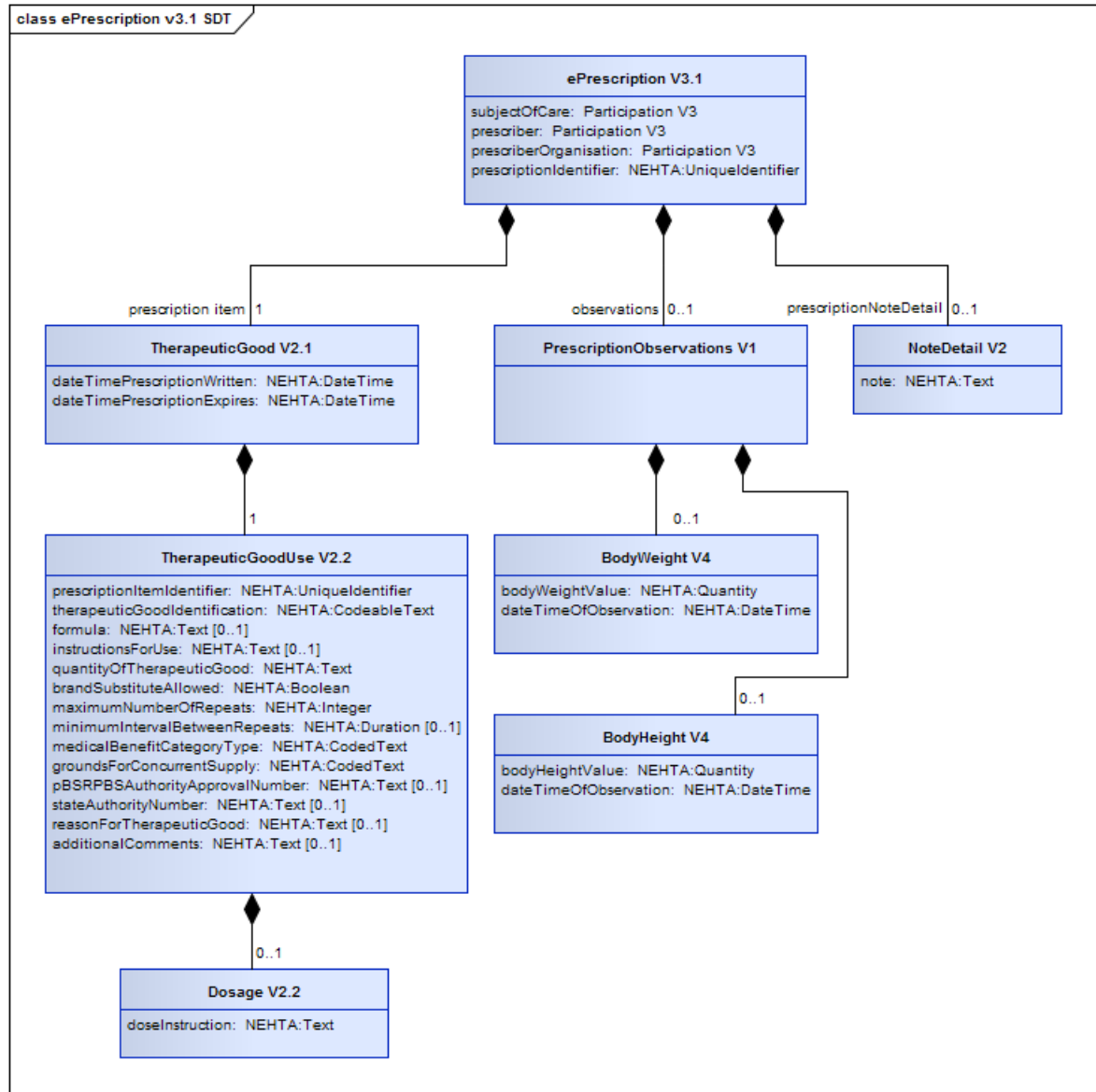
Relationships

Parents

Data Type	Name	Obligation	Condition	Occurrence
	PRESCRIPTION NOTE DETAIL	Essential		Single

7 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 e-Prescription data hierarchy.

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Appendix A. Participations







This appendix details the participation data groups used in the e-Prescription 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 hierarchy, which is described in [Participation Data Specification \[NEHT2010\]](#). Data elements which are prohibited (constrained out from appearing in a particular data hierarchy) have been printed in ~~strikeout~~ font in shaded rows. The 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 data group, which is described in [Participation Data Specification \[NEHT2010\]](#).















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				
	T ₀₁₀	Participation Type		1..1	
	T ₀₁₀	Role		1..1	
		Participation Period		0..0	
	tree icon	LOCATION OF PARTICIPATION		0..0	
		PARTICIPANT		1..1	
		ID	Entity Identifier	1..1	
			ADDRESS	1..1	
			No Fixed Address Indicator	1..1	
		C	AUSTRALIAN OR INTERNATIONAL ADDRESS	1..1	
				INTERNATIONAL ADDRESS	0..1
			T	International Address Line	0..*
			T	International State/Province	0..1
			T	International Postcode	0..1
			T ₀₁₀	Country	0..1

					AUSTRALIAN ADDRESS	0..1
				T	Unstructured Australian Address Line	0..*
					STRUCTURED AUSTRALIAN ADDRESS LINE	0..1
					T010 Australian Unit Type	0..1
				T	Australian Unit Number	0..1
				T	Australian Address Site Name	0..1
					T010 Australian Level Type	0..1
				T	Australian Level Number	0..1
				T	Australian Street Number	0..1
				T	Australian Lot Number	0..1
				T	Australian Street Name	0..1
					T010 Australian Street Type	0..1
					T010 Australian Street Suffix	0..1
					T010 Australian Postal Delivery Type	0..1
				T	Australian Postal Delivery Number	0..1
				T/T010	Australian Suburb/Town/Locality	0..1
					T010 Australian State/Territory	0..1
					T010 Australian Postcode	0..1
				ID	Australian Delivery Point Identifier	0..1
			T010	Address Purpose		1..1
				ELECTRONIC COMMUNICATION DETAIL		0..*
			T010	Electronic Communication Medium		1..1
			T010	Electronic Communication Usage Code		0..1
			T	Electronic Communication Address		1..1

		C	PERSON OR ORGANISATION OR DEVICE		1..1
				DEVICE	0..0
				ORGANISATION	0..0
				PERSON	1..1
				PERSON NAME	1..1
				T₀₁₀ Name Title	0..*
				T Family Name	1..1
				T Given Name	0..*
				T₀₁₀ Name Suffix	0..*
				Preferred Name Indicator	0..1
				T₀₁₀ Person Name Usage	0..1
			T/T₀₁₀	Relationship to Subject of Care	0..0
				EMPLOYMENT DETAIL	0..0
				DEMOGRAPHIC DATA	1..1
				T₀₁₀ Sex	1..1
				DATE OF BIRTH DETAIL	1..1
				Date of Birth	1..1
				Date of Birth is Calculated From Age	0..1
				DATE OF BIRTH ACCURACY INDICATOR	0..1
				Date of Birth Day Accuracy Indicator	1..1
				Date of Birth Month Accuracy Indicator	1..1
				Date of Birth Year Accuracy Indicator	1..1
				AGE DETAIL	0..1
				Age	1..1

						Age Accuracy Indicator	0..1
						Birth Plurality	0..1
						Birth Order	0..1
						DATE OF DEATH DETAIL	0..0
						Source of Death Notification	0..0
						Mothers Original Family Name	0..0
						Country of Birth	0..0
						State/Territory of Birth	0..0
						Indigenous Status	0..0
			ENTITLEMENT				0..*
				Entitlement Number		1..1	
				Entitlement Type		1..1	
				Entitlement Validity Duration		0..1	
			Qualifications				0..0

Constraints on data values

- Participation Type **MUST** have an implementation specific fixed value meaning “Subject”.
- The value of Entity Identifier **MUST** be an Australian IHI.
- ADDRESS **MUST** have an Address Purpose value of “Residential” or “Temporary Accommodation”.
- Entitlement Type **MUST** have a value from [Subject of Care Entitlement Type Values](#).

Notes





















- The value of Participation Type may be explicit, e.g. recordTarget.typeCode = 'RCT' (Record Target) in HL7 CDA R2, but it may also be implicit in the record structure, e.g. PID segment in HL7 V2. For further information, please see the Participation Type definition in [Participation Data Specification \[NEHT2010j\]](#).
- The value of Role will be an implementation specific value with a meaning of “Patient”, “Client” or similar.
- 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 data group, which is described in [Participation Data Specification \[NEHT2010\]](#).




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		1..1	
		Role		1..1	
		Participation Period		0..0	
	LOCATION OF PARTICIPATION			0..0	
	PARTICIPANT			1..1	
			Entity Identifier	1..1	
			ADDRESS	0..1	
			No Fixed Address Indicator	1..1	
			AUSTRALIAN OR INTERNATIONAL ADDRESS	1..1	
			INTERNATIONAL ADDRESS	0..0	
			AUSTRALIAN ADDRESS	1..1	
				Unstructured Australian Address Line	0..*
				STRUCTURED AUSTRALIAN ADDRESS LINE	0..1
				Australian Unit Type	0..1
				Australian Unit Number	0..1
				Australian Address Site Name	0..1
				Australian Level Type	0..1
				Australian Level Number	0..1
				Australian Street Number	0..1

						T	Australian Lot Number	0..1
						T	Australian Street Name	0..1
						T₀₁₀	Australian Street Type	0..1
						T₀₁₀	Australian Street Suffix	0..1
						T₀₁₀	Australian Postal Delivery Type	0..1
						T	Australian Postal Delivery Number	0..1
						T/T₀₁₀	Australian Suburb/Town/Locality	0..1
						T₀₁₀	Australian State/Territory	0..1
						T₀₁₀	Australian Postcode	0..1
						ID	Australian Delivery Point Identifier	0..1
			T₀₁₀	Address Purpose				1..1
		E	ELECTRONIC COMMUNICATION DETAIL					0..*
			T₀₁₀	Electronic Communication Medium				1..1
			T₀₁₀	Electronic Communication Usage Code				0..1
			T	Electronic Communication Address				1..1
		C	PERSON OR ORGANISATION OR DEVICE					1..1
			E	DEVICE				0..0
			E	ORGANISATION				0..0
			E	PERSON				1..1
				E	PERSON NAME			1..1
					T₀₁₀	Name Title		0..*
					T	Family Name		1..1
					T	Given Name		0..*
					T₀₁₀	Name Suffix		0..*

					Preferred Name Indicator	0..1
					Person Name Usage	0..1
					Relationship to Subject of Care	0..0
					EMPLOYMENT DETAIL	0..1
					EMPLOYER ORGANISATION	0..0
					Employment Type	0..0
					Occupation	1..*
					Position in Organisation	0..0
					DEMOGRAPHIC DATA	1..1
					Sex	1..1
					DATE OF BIRTH DETAIL	1..1
					Date of Birth	1..1
					Date of Birth is Calculated From Age	0..0
					DATE OF BIRTH ACCURACY INDICATOR	0..0
					AGE DETAIL	0..0
					Birth-Plurality	0..0
					Birth-Order	0..0
					DATE OF DEATH DETAIL	0..0
					Source of Death Notification	0..0
					Mothers-Original-Family-Name	0..0
					Country of Birth	0..0
					State/Territory of Birth	0..0
					Indigenous-Status	0..0
				ENTITLEMENT		0..*

			 ID	Entitlement Number	1..1
			 T ₁₀	Entitlement Type	1..1
				Entitlement Validity Duration	0..1
		T		Qualifications	0..1

Constraints on data values

- Participation Type **MUST** have an implementation specific fixed value meaning “Prescriber”.
- The value of Entity Identifier **MUST** be an Australian HPI-I.
- If the value of [Medical Benefit Category Type](#) is “1” (PBS), “2” (RPBS) or “3” (CTG), exactly one ENTITLEMENT **MUST** have an Entitlement Type with the value “10” (Medicare Prescriber Number).

Notes





















- The value of Participation Type may be explicit, e.g. author.typeCode = 'AUT' (Author) in HL7 CDA R2, but it may also be implicit in the record structure, e.g. some HL7 V2 segments. For further information, please see the Participation Type definition in [Participation Data Specification \[NEHT2010j\]](#).
- The value of Role will be an implementation specific value with a meaning of “General Practitioner”, “Dermatologist”, “Nurse Practitioner” or a similar occupation.

A.3 Prescriber Organisation

This is a reuse of the PARTICIPATION data group, which is described in [Participation Data Specification \[NEHT2010\]](#).

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		1..1
		Role		1..1
		Participation Period		0..0
	LOCATION OF PARTICIPATION			0..0
	PARTICIPANT			1..1
		Entity Identifier		1..1
		ADDRESS		1..1
		No Fixed Address Indicator		1..1
		AUSTRALIAN OR INTERNATIONAL ADDRESS		1..1
		INTERNATIONAL ADDRESS		0..0
		AUSTRALIAN ADDRESS		1..1
			Unstructured Australian Address Line	0..*
			STRUCTURED AUSTRALIAN ADDRESS LINE	0..1
			Australian Unit Type	0..1
			Australian Unit Number	0..1
			Australian Address Site Name	0..1
			Australian Level Type	0..1
			Australian Level Number	0..1
			Australian Street Number	0..1

						T	Australian Lot Number	0..1
						T	Australian Street Name	0..1
						T₀₁₀	Australian Street Type	0..1
						T₀₁₀	Australian Street Suffix	0..1
						T₀₁₀	Australian Postal Delivery Type	0..1
						T	Australian Postal Delivery Number	0..1
						T/T₀₁₀	Australian Suburb/Town/Locality	0..1
						T₀₁₀	Australian State/Territory	0..1
						T₀₁₀	Australian Postcode	0..1
						ID	Australian Delivery Point Identifier	0..1
			T₀₁₀	Address Purpose				1..1
		E	ELECTRONIC COMMUNICATION DETAIL					1..*
			T₀₁₀	Electronic Communication Medium				1..1
			T₀₁₀	Electronic Communication Usage Code				0..1
			T	Electronic Communication Address				1..1
		C	PERSON OR ORGANISATION OR DEVICE					1..1
			E	DEVICE				0..0
			E	ORGANISATION				1..1
				T	Organisation Name			1..1
				T	Department/Unit			0..1
				T₀₁₀	Organisation Name Usage			0..1
			E	PERSON				0..0
		E	ENTITLEMENT					0..0
		T	Qualifications					0..0

Constraints on data values

- Participation Type **MUST** have an implementation specific fixed value meaning “Healthcare Facility”.
- The value of Entity Identifier **MUST** be an Australian HPI-O.
- 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”.

Notes

- The value of Participation Type may be explicit, e.g. author.typeCode = 'AUT' (Author) in HL7 CDA R2, but it may also be implicit in the record structure, e.g. some HL7 V2 segments. For further information, please see the Participation Type definition in [Participation Data Specification \[NEHT2010j\]](#).
- The value of Role will be an implementation specific value with a meaning of “General Practice Clinic”, “Dental Surgery” or similar.

Appendix B. Log of Changes

These are the main changes since e-Prescription SDT Version 3.0.

Issue ID	Requested Change/Feedback	Location/Change Made
CIM-609	The dispensing information data group is poorly defined.	The data group DISPENSING INFORMATION has been removed, but all of its data elements have been retained.
CIM-613	Add the matrix mapping from the information requirements to the SDT.	The appendix D: Mappings from Requirements has been added.
CIM-617	<ul style="list-style-type: none"> Appendix A2 does not match the body of the SDT. Appendix A3 does not match the body of the SDT. Standardise the presentation of known issues and changes. 	<ul style="list-style-type: none"> The appendix entries for the data elements Role and Qualifications have been altered to match the body of the SDT. A constraint has been added to prohibit the data element Qualifications in the PRESCRIBER ORGANISATION data group. The appendices C: Known Issues and B: Log of Changes have been added.
CIM-619	Add support for closing the gap eligibility.	The data element PBS/RPBS Benefit Category Type was renamed to Medical Benefit Category Type. There were associated changes to its definition and the addition of an extra value.
CIM-620	Invalid data type for data element Maximum Number of Repeats.	The data type of the data element Maximum Number of Repeats has been changed to Integer.
CIM-664	Medicare prescriber number is not required for private prescriptions.	<p>The following constraints on the data group ENTITLEMENT in PRESCRIBER have been dropped:</p> <ul style="list-style-type: none"> "ENTITLEMENT is ESSENTIAL" . There MUST be one ENTITLEMENT with a Medicare Prescriber Number as its value. <p>The following constraint on the data group ENTITLEMENT in PRESCRIBER has been added:</p> <ul style="list-style-type: none"> If the value of Medical Benefit category Type is "1" (PBS), "2" (RPBS) or "3" (CTG), exactly one ENTITLEMENT MUST have an Entitlement Type with the value "10" (Medicare Prescriber Number).
CIM-680	Grounds For Concurrent Supply is both optional and has a value of "no grounds".	The data element Grounds for Concurrent Supply is now ESSENTIAL .
CIM-682	Replace value of Participation Type in PRESCRIBER ORGANISATION.	<p>The constraint on the value of the data element Participation Type in the data group PRESCRIBER ORGANISATION is now:</p> <ul style="list-style-type: none"> Participation Type MUST have an implementation specific fixed value meaning "Healthcare Facility".

Appendix C. 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
DOSAGE	The DOSAGE data group in this release of the SDT does not support the clinical coding of dosage instructions. Clinical input is being sought to develop a clinical coding model for dosing instructions that supports both simple and complex dosing instructions such as variable and alternate dosing and multi-component medicines.
The word MUST in Conditions of Use	In conformance statements this document uses the term MUST in place of NEHTA's preferred term SHALL .
Participation Type and Role	The data elements Participation Type and Role (used in the in the Participation data groups SUBJECT OF CARE, PRESCRIBER and PRESCRIBER ORGANISATION) do not have defined value domains.
Value domains	<p>The following data elements have value domains which have not yet been published:</p> <ul style="list-style-type: none"> • Medical Benefit Category Type, • Grounds for Concurrent Supply, and • Entitlement Type (used in the in the Participation data groups SUBJECT OF CARE and PRESCRIBER). <p>It is expected that the list of values in this document will be released as part of SNOMED CT[®]-AU¹ with no additions or omissions.</p>

¹SNOMED CT[®] is a registered trademark of the International Health Terminology Standards Development Organisation.

Appendix D. Mappings from Requirements

This appendix lists data elements from [Detailed Requirements Definition - ETP Release 1.1 \[NEHT2010u\]](#) and matches them to their associated data elements in this SDT. Some data elements are managed in the messaging layer.

Requirement Package	Requirement	Id	SDT Data Element
Clinical Information Metadata	Clinical Payload Identifier	4390	<i>none - messaging layer</i>
	Receiver Endpoint Identifier - Individual	4391	<i>none - messaging layer</i>
	Receiver Endpoint Identifier - Organisation	4392	<i>none - messaging layer</i>
	Creation Date and Time	4393	<i>none - messaging layer</i>
	Creator Digital Signature	4394	<i>none - messaging layer</i>
	Expiry Date and Time	4397	<i>none - messaging layer</i>
	Information Flow Correlation Identifier	4398	<i>none - messaging layer</i>
	Information Flow Identifier	4399	<i>none - messaging layer</i>
	Sender Endpoint Identifier - Individual	4395	<i>none - messaging layer</i>
	Sender Endpoint Identifier - Organisation	4396	<i>none - messaging layer</i>
	Sender Software	4623	<i>none - messaging layer</i>
Observation	Body Height	4437	BODY HEIGHT
	Body Weight	4436	BODY WEIGHT
Prescriber	Family Name	4420	PR Family Name
	Given Names	4421	PR Given Name
	Healthcare Provider Field of Practice	4425	PR Occupation
	Healthcare Provider Qualification	4426	PR Qualifications
	Prescriber Identifier	4423	PR Entity Identifier
	Prescriber Number	4419	PR ENTITLEMENT
	Title	4422	PR Name Title
Prescriber Organisation	Address	4430	PO AUSTRALIAN ADDRESS
	Prescriber Organisation Contact	4434	PO ELECTRONIC COMMUNICATION DETAIL
	Prescriber Organisation Identifier	4432	PO Entity Identifier

Requirement Package	Requirement	Id	SDT Data Element
Prescription	Authority	4446	PBS/RPBS Authority Approval Number
			State Authority Number
	Brand Substitution	4455	Brand Substitute Allowed
	Deliver to Location	4625	Note
	Dosage	4449	Dosage
			Instructions for Use
	Expiry Date	4441	DateTime Prescription Expires
	Maximum Number of Repeats	4452	Maximum Number of Repeats
	Medication	4448	Therapeutic Good Identification
			Formula
	Minimum Dispensing Interval	4453	Minimum Interval Between Repeats
	Note	4443	Additional Comments
	Packing Instruction	4907	Additional Comments
	PBS Benefit Category	4447	Medical Benefit Category Type
	Prescription Identifier	4442	Prescription Identifier
	Quantity	4451	Quantity of Therapeutic Good
	Reason for Medication	4450	Reason for Therapeutic Good
	Regulation 24	4454	Grounds for Concurrent Supply
	Safety Net Entitlement	4444	SOC ENTITLEMENT
	Start Date	4440	DateTime Prescription Written
	Therapeutic Substitution	4652	Additional Comments
	CTG Eligible	5826	Medical Benefit Category Type
Subject of Care	Age	4416	SOC Age
	Australian Address	4417	SOC AUSTRALIAN OR INTERNATIONAL ADDRESS
	Date of Birth	4415	SOC Date of Birth
	Entitlement Card	4414	SOC ENTITLEMENT
	Family Name	4407	SOC Family Name
	Given Names	4408	SOC Given Name
	Subject of Care Identifier	4406	SOC Entity Identifier
	Title	4409	SOC Name Title
	Sex	5821	SOC Sex

Appendix E. 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.

E.1 A Blank Printed Prescription

The image shows a blank 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** (Light 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 strip on the left side.
- Document retrieval key (barcode)** (White background): A field at the bottom for a 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.

E.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 IHI	Subject of Care.Participant.Entity Identifier
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.Medical Benefit Category Type
RPBS	Prescription Item.Medical 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 the data group PRESCRIPTION ITEM. The therapeutic good is identified in the data element Therapeutic Good Identification. The quantity is in Quantity of Therapeutic Good. The number of repeats is in Maximum Number of Repeats. The dose instruction is 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] .

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