



**PCEHR Prescription and Dispense View
Presentation Guide v1.0**

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Approved for Release

National E-Health Transition Authority Ltd

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

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Key Information

Owner: Head of Product Delivery
Review date: 5 January 2014
Contact for enquiries: NEHTA Service Desk
t: 1300 901 001
e: help@nehta.gov.au

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1 Introduction

1.1 Purpose

This document is a presentation guide for the Personally Controlled Electronic Health Record (PCEHR) Prescription and Dispense View, frequently referred to as 'The PD View' within this document.

This guide provides the detail for presenting The PD View in the PCEHR portals and vendor Clinical Information Systems (CISs). The design has been carefully researched to deliver maximum ease of use, with at-a-glance delivery of clinical information.

1.2 Intended Audience

This document is intended for all interested stakeholders including:

- Clinical peak bodies, representative groups and subject experts in the area of pharmacy and general practice.
- Hospitals and health departments planning, implementing or upgrading eHealth systems.
- Software vendors, software developers and designers developing eHealth system products.
- General practitioner desktop software vendors.
- Community pharmacy desktop software vendors.
- Jurisdictions, health service providers and health software representative groups.
- Senior managers and policy makers, clinical experts, health information managers and system integrators.
- Stakeholders associated with the development and use of upcoming eHealth initiatives relating to Medications Management.
- Consumers and consumer representatives.

1.3 Scope

This document covers:

- Presentation guidance for The PD View.
- Illustrations of guidance points.
- Visual design of The PD View.
- Rationale for design choices.
- Unmitigated risks with design choices.
- General risks.
- Next steps for The PD View.

This document does not cover:

- Other views and requirements for the PCEHR.
- Technical specification for rendering The PD View.
- Conformance Compliance and Accreditation (CCA) requirements.

- Interoperability between the systems generating The PD View and those rendering it.
- Presentation of the underlying PCEHR Prescription Record and PCEHR Dispense Record clinical documents.

1.4 Overview

The Prescription and Dispense View is intended to be an electronic summary of the prescription and dispense record information contained in a consumer's PCEHR.

For providers, the Prescription and Dispense View gives an overview of the consumer's prescriptions and their associated dispense events.

For consumers, the Prescription and Dispense View can help inform them about their own medicines usage, and help them assess whether the data recorded in their PCEHR matches with their own understanding of the prescriptions they have received and the supply of their medicines.

This presentation guide will:

- Provide the guidance on how the information should be formatted for display.
- Outline the method for constructing the combined Prescription and Dispense Views in the PCEHR in both the portals, and clinical information systems.

It is anticipated that the PCEHR will generate The PD View and also present The PD View in the National Provider and Consumer Portals. This guide will support other clinical information system vendors, developers and implementers who want to interact with the PCEHR and by retrieving and displaying The PD View within their propriety software solutions.

This guide allows multiple designers and developers to implement The PD View in a consistent manner and to take advantage of the safety assessment that has been carried out in this guide's development.

As a guideline, it includes multiple illustrations of the design and detailed rationale for the design decisions and choices. It specifies both mandatory and recommended guidance. All mandatory guidance points are compulsory for reasons of clinical utility and will form the basis of compliance audits of the implementation in vendor software.

The working assumption for this guideline is that the screen space for The PD View is known for the version of the PCEHR Consumer and Provider Portals created by the National Infrastructure Operator (NIO), but not known in other vendors' PCEHR conformant systems.

No branding or colour themes have been specified, and the rendering of these are left to the vendor's discretion to allow them to blend The PD View into their product's branding. NEHTA does however recommend that vendors select a colour palette with a colour contrast with reference to accessibility standards such as WCAG 2.0¹ and specific jurisdictional and local site recommendations for accessibility. For further information, please see **View-PD51** in Table 8 on p.20.

¹ <http://www.w3.org/TR/WCAG20/>.

1.5 Points to Note

1.5.1 Supporting Documents

This *Presentation Guide* is supported by the following technical documents that describe the data and the structure of the data for The PD View:

- *PCEHR Prescription and Dispense View CDA Implementation Guide v1.0*
- *PCEHR Prescription and Dispense View Structured Content Specification v1.0*
- *PCEHR Dispense Record Structured Content Specification v1.0*
- *PCEHR Prescription Record Structured Content Specification v1.0*
- *PCEHR B2B Gateway Service View Service Logical Service Specification v1.3*
- *PCEHR B2B Gateway Service View Service Technical Service Specification v1.5*

Full references for these documents are provided in the References section.

1.5.2 Structure of the Presentation Guide

The design of The PD View is broken down into a number of sections within this document. For each section there are:

- Example illustrations of the guidance points
- Guidance points listed with status, and rationale for use.

1.5.3 Illustrations

The images used in this guideline illustrate the guidance; they are not the guidance itself. As such, anything not explicitly mentioned in the guidance points does not form part of the guide, e.g. wording, colours, fonts, font size, exact spacing, etc.

1.5.4 Compliance Process

All implementers who want their clinical information system (CIS) to interact with the scope of this guideline must assess the conformance of their software to the relevant requirements via NEHTA's CCA Assessment Process.

1.5.5 Accessibility Assurance

PCEHR accessibility assurance is the responsibility of implementing vendors to address accessibility standards such as WCAG 2.0 in the development of their software solutions.

1.5.6 Consumer and Provider Views

Unless otherwise specified, the guidance in this document applies to The PD View when viewed by providers and consumers.

Consumer and providers were represented at Tiger Team and NPDR engagement workshops. Consideration of both consumer and provider specific guidance points are included in the guideline.

1.6 Assumptions

- The PD View is displayed on a minimum resolution of 1024x768 for the purpose of the screen design and layout described in these guidelines – though there is a point in the 'View Layout' section handling exceptions to this assumption.
- The implementer has followed all other applicable PCEHR detailed requirements. This guide does not offer relief from any of those requirements.
- The framework in which The PD View is presented handles the authentication of the user, and the accurate selection of a consumer's PCEHR.
- The implementer **shall not** be limited by the scope of these guidelines. An implementer **shall** be free to add further functionality to the Prescription and Dispense View into their CIS system.

2 NPDR Presentation Guide

This *Presentation Guide* is concerned with the display of prescription and dispense information; that is, to show how a system retrieves and renders prescription and dispense information via a view in a graphical user interface. This guide breaks these views down into components to provide easier understanding on how these components are to be represented in The PD View.

This section of the guideline contains examples of The PD View outside of a CIS framework (menu bar, navigation pane, header, footer, task bar, etc.) and displays the content elements of the screen.

2.1 Prescription and Dispense View Content

The following examples of The PD View depict what is displayed by the system (CIS or PCEHR portals) on successful connection to the PCEHR.

2.1.1 Information is available

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2
unavailable	salbutamol sulphate	07-Jul-2012	10-Jul-2012	2 of 2
22-Jun-2012	doxycycline	23-Jun-2012	29-Jun-2012	2 of 2
18-Jun-2012	amphetamine + dextroamphetamine	18-Jun-2012	21-Jun-2012	2 of 2
17-Jun-2012	metolazone	18-Jun-2012	25-Jun-2012	2 of 2
05-May-2012	morphine hydrochloride	05-May-2012	05-May-2012	1 of 2
28-Apr-2012	amantadine hydrochloride	unavailable	unavailable	unavailable

Figure 1: Information is available (sample illustration)

2.1.2 No information is available

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
<div style="display: flex; justify-content: space-between; align-items: center;"> From <input type="text"/> To <input type="text"/> <input type="button" value="Filter"/> Group by <input type="text"/> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> i No information is available </div>				

Figure 2: No information is available (sample illustration)

Table 1: 'No information is available' conformance

ID	Conformance Points	Status
View-PD1	The PD View should have a prominent title.	Recommended
View-PD2	The PD View shall display the title 'Prescription and Dispense View'.	Mandatory
View-PD3	<p>The PD View should have a Print button integrated into the Header.</p> <p>The print function should also be supported by the browser/system's print function.</p> <p>Following selection of the print function, the printed document should contain all of the information rendered in The PD View.</p>	Recommended
View-PD4	<p>Where Prescription (refers to PCEHR Prescription Record) and Dispense (refers to PCEHR Dispense Record) have been uploaded to the NPDR:</p> <ul style="list-style-type: none"> • The PD View shall display the following message for providers: 'This view is not a complete record of the individual's medicines information.' • And for consumers The PD View should display the following message: 'This view is not a complete record of your medicines information.' • Where there are no Prescription and Dispense Records available, The PD View shall display the following message: 'No information is available'. 	Mandatory
View-PD5	Where there are no Prescription Records uploaded but a Dispense Record exists, The PD View shall display 'unavailable' in the Prescribed column.	Mandatory
View-PD6	Where there is no Dispense Record uploaded, but a Prescription record exists, The PD View shall display 'unavailable' in the First Dispense and Last Dispense columns.	Mandatory
View-PD7	<p>The PD View shall contain the following components as default labels:</p> <ul style="list-style-type: none"> • Prescribed • Medicine Details • First Dispense • Last Dispense • Dispensed (Please refer to View-PD46 in Table 7 for guidance on displaying data in the Dispensed column.) 	Mandatory
View-PD64	<p>The PD View shall contain the following components:</p> <ul style="list-style-type: none"> • Filter by Date Range 	Mandatory
View-PD65	<p>The PD View shall contain the following components:</p> <ul style="list-style-type: none"> • Group by filter: <ul style="list-style-type: none"> ◦ Prescription ◦ Generic Name ◦ PBS Item Code ◦ Brand Name 	Mandatory
View-PD70	The PD View should display the following labels when Group by 'Prescription'. (Please refer to View-PD7 in this table for the list of default labels.)	Recommended

2.2 Date Filter

The date filter allows the user to specify a date range and restrict the display to only those prescription and dispense items created events which occurred within the period specified. Note, the PCEHR View Service Technical Service Specifications details the B2B Gateway Interface functionality to retrieve the prescription and dispense view CDA documents containing the events in the date range specified.

A screenshot of a date filter interface. It features a 'From' field with the date '17-Jun-2012', a 'To' field with the date '25-Jul-2012', and a 'Filter' button to the right. There are also small calendar icons next to the date fields.

Figure 3: Date Filter (sample illustration)

2.2.1 Date Range Search

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

A screenshot of a 'Prescription and Dispense View' interface. At the top, there is a date range filter set from '28-Apr-2012' to '25-Jul-2012' with a 'Filter' button and a 'Group by' dropdown menu. Below this is a table with columns: Prescribed, Medicine Details, First Dispense, Last Dispense, and Dispensed. The table contains several rows of medication data, with the row for 'salbutamol sulphate' highlighted in yellow. A mouse cursor is pointing at the 'salbutamol sulphate' row.

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2
unavailable	salbutamol sulphate	07-Jul-2012	10-Jul-2012	2 of 2
22-Jun-2012	doxycycline	23-Jun-2012	29-Jun-2012	2 of 2
18-Jun-2012	amphetamine + dextroamphetamine	18-Jun-2012	21-Jun-2012	2 of 2
17-Jun-2012	metolazone	18-Jun-2012	25-Jun-2012	2 of 2
05-May-2012	morphine hydrochloride	05-May-2012	05-May-2012	1 of 2
28-Apr-2012	amantadine hydrochloride	unavailable	unavailable	unavailable

Figure 4: Date Range Search (sample illustration)

Table 2: 'Date Range Search' conformance

ID	Conformance Points	Status
View-PD8	<p>All fully specified dates should be displayed in the format DD-Mmm-YYYY e.g. 14-Aug-2011.</p> <p>Date fields include the From date and To date of the date filter, and the date fields the filter is based on for DateTime Prescription Written and DateTime Dispense Event.</p> <p><i>Rationale</i></p> <p>Follows the Microsoft/NHS Common User Interface dates display guidance, providing an unambiguous date display. Australia uses the same date format as the UK where this guidance was developed. It is now a UK standard: see http://www.isb.nhs.uk/library/standard/133.</p> <p>Explicit separators are used to link the elements of the date.</p>	Recommended
View-PD73	<p>The 'From' and 'To' dates entered in the request shall be displayed together with the records returned and rendered to indicate the date range applied in the retrieval request.</p>	Mandatory

ID	Conformance Points	Status
View-PD9	Unless specifically stated, times and time zones should not be displayed in The PD View.	Recommended
View-PD10	Unless specifically stated, dates displayed in a column should be right aligned. <i>Rationale</i> This provides a tidy list of dates in this format, if displayed using a non-monospaced font.	Recommended
View-PD11	Where items are sorted by date, the sorting should be done using dates in a common time zone e.g. UTC. <i>Rationale</i> All the date sorting specified in this guide uses time zone aware dates.	Recommended
View-PD12	The Date filter shall retrieve and display search items. The items shall be ordered in reverse DateTime order by Prescription. If no prescription item exists, then first dispense created DateTime shall be used to order the search results.	Mandatory

2.3 Group By

The Group By function provides the user with sort options for documents available on The PD View list.

2.3.1 Group By List

The following Group By options **shall** be displayed:

- Prescription (default)
- Generic Name
- PBS Item Code
- Brand Name

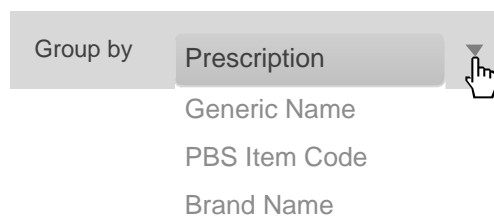


Figure 5: Group By List (sample illustration)

2.3.2 Prescription (Default)

The grouping by Prescription is the default grouping of The PD View. It displays a list of prescription CDA documents returned from the PCEHR and is based on the Prescription Item Identifier.

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2
unavailable	salbutamol sulphate	07-Jul-2012	10-Jul-2012	2 of 2
22-Jun-2012	doxycycline	23-Jun-2012	29-Jun-2012	2 of 2
18-Jun-2012	amphetamine + dextroamphetamine	18-Jun-2012	21-Jun-2012	2 of 2
17-Jun-2012	metolazone	18-Jun-2012	25-Jun-2012	2 of 2
05-May-2012	morphine hydrochloride	05-May-2012	05-May-2012	1 of 2
28-Apr-2012	amantadine hydrochloride	unavailable	unavailable	unavailable

Figure 6: Prescription (Default) (sample illustration)

Table 3: 'Prescription (Default)' conformance

ID	Conformance Points	Status
View-PD13	The summary line items displayed in The PD View shall be listed in reverse DateTime order (most recent documents will be at the top of the list).	Mandatory
View-PD14	The PD View shall display the following labels (from left to right): <ul style="list-style-type: none"> • Prescribed • Medicine Details • First Dispense • Last Dispense • Dispensed (Please refer to View-PD46 in Table 7 for guidance on displaying data in the Dispensed column.) 	Mandatory
View-PD15	Under the 'Prescribed' label, the summary line shall display (if available) the date a prescription was written. If no prescription item is available but contains a dispense item, then date under the 'Prescribed' label in the summary line shall be displayed as 'unavailable'.	Mandatory
View-PD16	Under the 'Medicine Details' label, the summary line shall display the Therapeutic Good Identification for the group.	Mandatory
View-PD17	Under the 'First Dispensed' label, the summary line shall display (if available) the date of the first known dispense event related to this prescription. If no dispense items have been created, then the summary line shall display the message 'unavailable'.	Mandatory
View-PD18	Under the 'Last Dispense' label, the summary line shall display (if available) the date of the most recent known dispense event related to this prescription. If only one dispense item exists then the First Dispense and Last Dispense value in the summary line shall be equal. If no dispense items have been created, then the summary line shall display the message 'unavailable'.	Mandatory

2.3.3 Generic Name

The grouping by Generic Name is based on the Therapeutic Good Generic Name fields within the Medication Entry section, including Prescription Item (Medication Instruction) and Dispense Item (Medication Action), where it exists.

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

The screenshot shows a web interface for viewing medication information. At the top, there is a date range filter with 'From' and 'To' input fields, a 'Filter' button, and a 'Group by' dropdown menu currently set to 'Generic Name'. Below this, a list of generic names is displayed under the heading 'Generic Name'. The names listed are: amantadine hydrochloride, amphetamine + dextroamphetamine (highlighted in yellow), doxycycline, metolazone, morphine hydrochloride, salbutamol sulphate, tramadol hydrochloride, and Generic Name unavailable.

Figure 7: Generic Name (sample illustration)

Table 4: 'Generic Name' conformance

ID	Conformance Points	Status
View-PD20	The generic name summary line items displayed in The PD View shall be listed in alphabetical order and sorted A to Z.	Mandatory
View-PD21	The PD View shall display a label Generic Name. The Group By menu shall display 'Generic Name' to signify group by type has been applied.	Mandatory
View-PD22	Under the label Generic Name, the generic name of the prescription items and/or dispense items should be displayed.	Recommended
View-PD23	If no Generic Name is available (as it is an optional field), The PD View should display Generic Name Title as 'Generic Name unavailable'.	Recommended

2.3.4 PBS Item Code

The grouping by PBS Item Code is based on the Therapeutic Good Identification code and code system fields when this field has a value that is a PBS Item Code within the Medication Entry section, including Prescription Item (Medication Instruction) and Dispense Item (Medication Action).

The PBS item display name text (shown beside each PBS item code below) is recommended to be shown where the display name text for the same PBS Item Code in each Medication Entry is the same.

Where the display name text for each Medication Entry is different, the display name text **should** be sourced from the PBS Schedule, otherwise the display name text **should** be blank.

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

The screenshot shows a web interface for viewing medication information. At the top, there is a date range filter set from '20-Jun-2012' to '30-Jul-2012' with a 'Filter' button. To the right, a 'Group by' dropdown menu is set to 'PBS Item Code'. Below this is a table of medication entries. The table has two columns: 'PBS Item Code' and the medication name. The entries are: 2001H salbutamol sulfate, 2702F doxycycline (highlighted with a mouse cursor), 3495Y salbutamol sulfate, 8611F tramadol hydrochloride, and 9202H. At the bottom of the table, it says 'PBS Item Code unavailable'.

Figure 8: PBS Item Code (sample illustration)

Table 5: 'PBS Item Code' conformance

ID	Conformance Points	Status
View-PD24	The PBS Item Codes summary line items displayed in The PD View shall be listed in ascending alphanumeric order.	Mandatory
View-PD25	The PD View shall display a label PBS Item Code. The Group By menu shall display 'PBS Item Code' to signify Group By Type has been applied.	Mandatory
View-PD26	The PBS Item Code of the Prescription Items or Dispense Items shall be displayed under the label 'PBS Item Code'.	Mandatory
View-PD27	If no PBS Item Code is available as the Therapeutic Good Identification may potentially not contain a PBS Item Code, The PD View should display PBS Item Code Title as 'PBS Item Code unavailable'.	Recommended

2.3.5 Brand Name

The grouping by Brand Name is based on the Therapeutic Good Identification data element, within the Summary of Medication Entry data group in the *PCEHR Prescription and Dispense View Structured Content Specification* [1].

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

From

To

Group by

Brand Name ▼

The Brand Name of medicine will usually be displayed. The Generic Name will be shown if available.

Brand Name

doxsig (doxycycline (as hydrochloride) 100mg) tablet: film-coated, 7 tablets (trade product pack)

tramal (tramadol hydrochloride 50 mg) capsule: hard, 20 capsules (trade product pack)

ventolin inhaler CFC-Free (salbutamol (as sulfate) 100 mcg/ 1 actuation) inhalation: pressurised (trade product unit of use)

zydol (tramadol hydrochloride 50 mg) capsule: hard, 20 capsules (trade product pack)

Figure 9: Brand Name (sample illustration)

Table 6: 'Brand Name' conformance

ID	Conformance Points	Status
View-PD28	The Brand Name summary line items displayed in The PD View shall be listed in alphabetical order and sorted A to Z.	Mandatory
View-PD29	The PD View shall display the label 'Brand Name'. The Group By menu shall display 'Brand Name' to signify Group By Type has been applied.	Mandatory
View-PD30	Under the label Brand Name, the Brand Name of the Prescription Items should be displayed. <i>Note:</i> Brand Name may potentially be a Generic Name for Prescriptions.	Recommended
View-PD31	If the therapeutic good identification is a generic name (i.e. where the therapeutic good identification is the same as therapeutic good generic name) then The PD View should display Brand Name summary line item as 'unavailable'.	Recommended
View-PD72	The PD View should display an additional message: 'The Brand Name of medicine will usually be displayed. The Generic Name will be shown if available.'	Recommended

2.4 Prescription and Dispense View Items

When opened, The PD View displays prescription and dispense items in a collapsed summary format. Users will be able to select a summary line item to display details of the prescription and associated dispense events for each summary line item. This section outlines the collapsed and expanded components for The PD View.

2.4.1 Collapsed View

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2
unavailable	salbutamol sulphate	07-Jul-2012	10-Jul-2012	2 of 2
22-Jun-2012	doxycycline	23-Jun-2012	29-Jun-2012	2 of 2
18-Jun-2012	amphetamine + dextroamphetamine	18-Jun-2012	21-Jun-2012	2 of 2
17-Jun-2012	metolazone	18-Jun-2012	25-Jun-2012	2 of 2
05-May-2012	morphine hydrochloride	05-May-2012	05-May-2012	1 of 2
28-Apr-2012	amantadine hydrochloride	unavailable	unavailable	unavailable

Figure 10: Collapsed View (sample illustration)

Table 7: 'Collapsed View' conformance

ID	Conformance Points	Status
View-PD32	<p>The whole view should scroll vertically.</p> <p><i>Rationale</i></p> <p>Given a fixed screen size, and potential for the amount of available information to grow over time, it may not be possible to display all the available information in The PD Viewing area of the screen. Solutions might be to scroll the page, paginate, make the data smaller, scroll each component, only display some data from each component, etc.</p> <p>Scrolling the whole view has been chosen because:</p> <ul style="list-style-type: none"> • It is a well-known convention for user interface design principles. • The user only has to perform one action to view more of the document. • Users can quickly move forwards and backwards through the information, with continuous feedback of where they are in The PD View (unlike with pagination). • Potential risks can be mitigated, for example: <ul style="list-style-type: none"> ◦ It makes it relatively easy for a user to be confident that they have seen all the data that is available to be displayed. ◦ It allows data from different components to be more easily compared. 	Recommended
View-PD33	<p>The PD View should vertically scroll independently of the Framework (e.g. CIS system header, navigation pane, menu bar, ribbons and footer).</p> <p><i>Rationale</i></p> <p>This allows the consumer identifiers and remainder of the framework navigation to be continually displayed while using The PD View.</p>	Recommended

ID	Conformance Points	Status
View-PD34	<p>The PD View shall not horizontally scroll in the Framework (e.g. CIS system header, navigation pane, menu bar, ribbons and footer).</p> <p><i>Rationale</i></p> <ul style="list-style-type: none"> • A combination of vertical and horizontal scrolling makes it difficult for users to view all the data in The PD View quickly. • As horizontal scrolling is fairly unconventional on web pages, users may not expect it and therefore miss information. • Horizontal scrolling is often not supported by scroll wheels on mice. 	Mandatory
View-PD35	<p>The prescription components in The PD View area shall be displayed as collapsed rows as default.</p> <p><i>Rationale</i></p> <p>Multiple prescriptions in The PD View allow the user to more easily search the medicines prescribed.</p>	Mandatory
View-PD67	<p>The Generic Name components in The PD View area shall be displayed as collapsed rows as default.</p>	Mandatory
View-PD68	<p>The PBS item code components in The PD View area shall be displayed as collapsed rows as default.</p>	Mandatory
View-PD69	<p>The Brand Name components in The PD View area shall be displayed as collapsed rows as default.</p>	Mandatory
View-PD36	<p>When the mouse cursor is held over the summary line, then the summary line shall be displayed in red text or a text colour that provides colour differentiation according to the implementer's accessibility standards.</p> <p><i>Note:</i> this conformance point applies to the summary line for each of the Group by options.</p>	Mandatory
View-PD74	<p>When the mouse cursor is held over the summary line, then the background of the summary line should be highlighted.</p> <p><i>Note:</i> this conformance point applies to the summary line for each of the Group by options.</p>	Recommended
View-PD37	<p>Each prescription and dispense record summary line shall be visually separated using either alternate shading or a line to separate each record.</p>	Mandatory
View-PD38	<p>Each summary line displayed in The PD View shall be constructed from the Summary of Medication data group in the <i>PCEHR Prescription and Dispense View Structured Content Specification</i> [1].</p>	Mandatory
View-PD39	<p>The whole document line item shall act as a link to the source CDA document.</p> <p><i>Rationale</i></p> <p>Having a whole document line item as a link is a common convention in many systems, and provides a larger 'hit' area for users to select.</p>	Mandatory
View-PD40	<p>The whole document line item should have a 'roll-over' state, indicating that is it clickable.</p>	Recommended
View-PD41	<p>Dates should be displayed right-aligned in a column on the left of the component.</p>	Recommended

ID	Conformance Points	Status
View-PD42	Prescription events shall be listed in reverse DateTime order (newest first). When displaying Prescription items in the collapsed summary format, the prescription items shall be listed in reverse DateTime order.	Mandatory
View-PD45	The Last Dispense column shall present the most recent date when the therapeutic good was dispensed for the related prescription.	Mandatory
View-PD46	The Dispensed column in the summary line shall present the Total Number of Known Supplies of the Maximum Number of Permitted Supplies. For example, '1 of 3' or '0 of 4' If the Maximum Number of Permitted Supplies is absent and/or Total Number of Known Supplies is absent, The PD View shall display 'unavailable'.	Mandatory

2.4.2 Expanded (Single) Prescription

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2
unavailable	salbutamol sulphate	07-Jul-2012	10-Jul-2012	2 of 2
10-Jul-2012	Dispensed salbutamol sulphate – VENTOLIN – 100mcg/dose – 2 puffs every 4 hours prn for exacerbations of asthma – Inhaler – Supply 2 – Repeat 1			
07-Jul-2012	Dispensed salbutamol sulphate – VENTOLIN – 100mcg/dose – 2 puffs every 4 hours prn for exacerbations of asthma – Inhaler – Supply 2 – Original dispense			
22-Jun-2012	doxycycline	23-Jun-2012	29-Jun-2012	2 of 2
18-Jun-2012	amphetamine + dextroamphetamine	18-Jun-2012	21-Jun-2012	2 of 2
17-Jun-2012	metolazone	18-Jun-2012	25-Jun-2012	2 of 2
05-May-2012	morphine hydrochloride	05-May-2012	05-May-2012	1 of 2
28-Apr-2012	amantadine hydrochloride	unavailable	unavailable	1 of 1

Figure 11: Expanded (Single) Prescription (sample illustration)

Table 8: 'Expanded (Single) Prescription' conformance

ID	Conformance Points	Status
View-PD47	When the prescription summary line is selected, The PD View should display all available prescription and dispense document lines associated with the prescription in the summary line.	Recommended

ID	Conformance Points	Status
View-PD48	<p>The components of the expanded summary line item should be presented when the user clicks on the collapsed prescription summary line.</p> <p>The resulting view should display the dispensed items first, followed by prescribed record information in reverse DateTime order.</p> <p>If no dispense records have been published, then only the prescription record should be displayed.</p>	Recommended
View-PD49	<p>The expanded Dispense document line item shall display:</p> <ul style="list-style-type: none"> • DateTime of Dispense Event • Transaction Type = Dispensed • Generic Name • Brand Name • Strength • Label Instruction • Medicine Form • Quantity = <i>Supply</i> (label in italics) <Quantity>, e.g. '<i>Supply 2</i>'. • Dispensed = Number of this dispense. <p>If the number of this dispense = 1, then The PD View shall display 'Original Dispense' in the Dispense Document Line. If the number of this dispense is >1, then The PD View shall display 'Repeat value' as number of this dispense -1 in the Dispense Document Line e.g. 'Repeat 1'.</p> <p>Where there is no data provided for a data element (listed above), then the data element shall be excluded from the document line.</p>	Mandatory
View-PD50	<p>The expanded Prescription document line item shall display:</p> <ul style="list-style-type: none"> • DateTime Prescription Written • Transaction Type = Prescribed • Generic Name • Brand Name • Strength • Direction • Medicine Form • Quantity = <i>Supply</i> (label in italics) <Quantity>, e.g. '<i>Supply 2</i>'. • Dispensed = The PD View shall display 'Dispense original' followed by <Maximum number of repeats> in the Prescription Document Line, e.g. 'Dispense original and 1 repeats'. <p>Where there is no data provided for a data element (listed above), then the data element shall be excluded from the document line.</p>	Mandatory
View-PD51	<p>The PD View should render and display the Summary and Document Line items using a colour palette with a colour contrast that meets accessibility standards such as WCAG 2.0: Guideline 1.4 (http://www.w3.org/TR/WCAG20/).</p>	Recommended

2.4.3 Expanded (Multiple) Prescriptions

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2
25-Jul-2012	Dispensed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1			
21-Jul-2012	Dispensed tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense			
20-Jul-2012	Prescribed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats			
unavailable	salbutamol sulphate	07-Jul-2012	10-Jul-2012	2 of 2
10-Jul-2012	Dispensed salbutamol sulphate – VENTOLIN – 100mcg/dose – 2 puffs every 4 hours prn for exacerbations of asthma – Inhaler – Supply 2 – Repeat 1			
07-Jul-2012	Dispensed salbutamol sulphate – VENTOLIN – 100mcg/dose – 2 puffs every 4 hours prn for exacerbations of asthma – Inhaler – Supply 2 – Original dispense			
22-Jun-2012	doxycycline	23-Jun-2012	29-Jun-2012	2 of 2
18-Jun-2012	amphetamine + dextroamphetamine	18-Jun-2012	21-Jun-2012	2 of 2
17-Jun-2012	metolazone	18-Jun-2012	25-Jun-2012	2 of 2
05-May-2012	morphine hydrochloride	05-May-2012	05-May-2012	1 of 1
05-May-2012	Dispensed morphine hydrochloride – ORDINE – 2mg/mL – take 10mLs as directed – Oral solution – Supply 500mLs – Original dispense			
05-May-2012	Prescribed morphine hydrochloride – ORDINE – 2mg/mL – take 10mLs as directed – Oral solution – Supply 500mLs – Dispense original and 0 repeats			
unavailable	amantadine hydrochloride	28-Apr-2012	28-Apr-2012	unavailable
28-Apr-2012	Dispensed amantadine hydrochloride – SYMMETREL – 50mg/5ml Syrup – 1 teaspoon three times daily – Supply 250ml bottle – Original dispense			

Figure 12: Expanded (Multiple) Prescriptions (sample illustration)

Table 9: 'Expanded (Multiple) Prescriptions' conformance

ID	Conformance Points	Status
View-PD52	The user should be able to expand multiple prescription components by clicking the mouse button. The expanded summary blocks will be displayed in The PD View.	Recommended

2.4.4 Expanded Group By Generic Name

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

From To Filter Group by **Generic Name**

Generic Name

amantadine hydrochloride
28-Apr-2012 Prescribed amantadine hydrochloride – SYMMETREL – 50mg/5ml Syrup – 1 teaspoon three times daily – Supply 250ml bottle – Dispense original and 0 repeats
amphetamine + dextroamphetamine
doxycycline
metolazone
morphine hydrochloride
05-May-2012 Dispensed morphine hydrochloride – ORDINE – 2mg/mL – take 10mLs as directed – Oral solution – Supply 500mLs – Original dispense
05-May-2012 Prescribed morphine hydrochloride – ORDINE – 2mg/mL – take 10mLs as directed – Oral solution – Supply 500mLs – Dispense original and 0 repeats
salbutamol sulphate
10-Jul-2012 Dispensed salbutamol sulphate – VENTOLIN – 100mcg/dose – 2 puffs every 4 hours prn for exacerbations of asthma – Inhaler – Supply 2 – Repeat 1
07-Jul-2012 Dispensed salbutamol sulphate – VENTOLIN – 100mcg/dose – 2 puffs every 4 hours prn for exacerbations of asthma – Inhaler – Supply 2 – Original dispense
tramadol hydrochloride
25-Jul-2012 Dispensed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1
21-Jul-2012 Dispensed tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense
20-Jul-2012 Prescribed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats
unavailable
20-Jul-2012 Prescribed boric acid, olive oil and zinc oxide (boz) ointment, 100g – Apply thin layer to affected area 3-4 times daily; reassess after 7 days if no response – Supply 1 – Dispense original and 0 repeats

Figure 13: Expanded Group By Generic Name (sample illustration)

Table 10: 'Expanded Group By Generic Name' conformance

ID	Conformance Points	Status
View-PD53	<p>The expanded Prescription document line item shall display:</p> <ul style="list-style-type: none"> • DateTime Prescription Written • Transaction Type = Prescribed • Generic Name • Brand Name • Strength • Direction • Medicine Form • Quantity = <i>Supply</i> (label in italics) <Quantity>, e.g. '<i>Supply 2</i>'. • Dispensed = The PD View shall display 'Dispense original' followed by <Maximum number of repeats> in the Prescription Document Line, e.g. 'Dispense original and 1 repeats'. <p>Where there is no data provided for a data element (listed above), then the data element shall be excluded from the document line.</p>	Mandatory
View-PD54	<p>The expanded Dispense document line item shall display:</p> <ul style="list-style-type: none"> • DateTime of Dispense Event • Transaction Type = Dispensed • Generic Name • Brand Name • Strength • Label Instruction • Medicine Form • Quantity = <i>Supply</i> (label in italics) <Quantity>, e.g. '<i>Supply 2</i>'. • Dispensed = Number of this dispense <p>If the number of this dispense = 1, then The PD View shall display 'Original Dispense' in the Dispense Document Line. If the number of this dispense is >1, then The PD View shall display 'Repeat value' as the number of this dispense -1 in the Dispense Document Line e.g. 'Repeat 1'.</p> <p>Where there is no data provided for a data element (listed above), then the data element shall be excluded from the document line.</p>	Mandatory
View-PD55	<p>The PD View should render and display the Summary and Document Line items using a colour palette with a colour contrast that meets accessibility standards such as WCAG 2.0: Guideline 1.4 (http://www.w3.org/TR/WCAG20/).</p>	Recommended

2.4.5 Expanded Group By PBS Item Code

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

From
To
Filter

Group by PBS Item Code

PBS Item Code

2001H	salbutamol sulfate
2702F	doxycycline ☞
3495Y	salbutamol sulfate

8611F tramadol hydrochloride

25-Jul-2012	Dispensed	tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1
21-Jul-2012	Dispensed	tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense
20-Jul-2012	Prescribed	tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats

9202H

unavailable

20-Jul-2012	Prescribed	boric acid, olive oil and zinc oxide (boz) ointment, 100g – Apply thin layer to affected area 3-4 times daily; reassess after 7 days if no response – Supply 1 – Dispense original and 0 repeats
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Figure 14: Expanded Group By PBS Item Code (sample illustration)

Table 11: 'Expanded Group By PBS Item Code' conformance

ID	Conformance Points	Status
View-PD56	<p>The expanded Prescription document line item shall display:</p> <ul style="list-style-type: none"> • DateTime Prescription Written • Transaction Type = Prescribed • Generic Name • Brand Name • Strength • Direction • Medicine Form • Quantity = <i>Supply</i> (label in italics) <Quantity>, e.g. '<i>Supply 2</i>'. • Dispensed = The PD View shall display 'Dispense original' followed by <Maximum number of repeats> in the Prescription Document Line, e.g. 'Dispense original and 1 repeats'. <p>Where there is no data provided for a data element (listed above), then the data element shall be excluded from the document line.</p>	Mandatory

ID	Conformance Points	Status
View-PD57	<p>The expanded Dispense document line item shall display:</p> <ul style="list-style-type: none"> • DateTime of Dispense Event • Transaction Type = Dispensed • Generic Name • Brand Name • Strength • Label Instruction • Medicine Form • Quantity = Supply (label in italics) <Quantity>, e.g. 'Supply 2'. • Dispensed = Number of this dispense. <p>If the number of this dispense = 1, then The PD View shall display 'Original Dispense' in the Dispense Document Line. If the number of this dispense is >1, then The PD View shall display 'Repeat <value>' as number of this dispense -1 in the Dispense Document Line, e.g. 'Repeat 1'.</p> <p>Where there is no data provided for a data element (listed above), then the data element shall be excluded from the document line.</p>	Mandatory
View-PD58	<p>The PD View should render and display the Summary and Document Line items using a colour palette with a colour contrast that meets accessibility standards such as WCAG 2.0: Guideline 1.4 (http://www.w3.org/TR/WCAG20/).</p>	Recommended

2.4.6 Expanded Group By Brand Name

Prescription and Dispense View

This view is not a complete record of the individual's medicines information.

From To Group by

The Brand Name of medicine will usually be displayed. The Generic Name will be shown if available.

Brand Name

doxsig (doxycycline (as hydrochloride) 100mg) tablet: film-coated, 7 tables (trade product pack)

tramal (tramadol hydrochloride 50 mg) capsule: hard, 20 capsules (trade product pack)

25-Jul-2012 Dispensed **tramadol hydrochloride** – TRAMAL (TRAMADOL HYDROCHLORIDE 50 mg) CAPSULE: HARD, 20 CAPSULES (TRADE PRODUCT PACK) – 50mg – take one capsule daily – Capsule – *Supply 14* – Original dispense

20-Jul-2012 Prescribed **tramadol hydrochloride** – TRAMAL (TRAMADOL HYDROCHLORIDE 50 mg) CAPSULE: HARD, 20 CAPSULES (TRADE PRODUCT PACK) – 50mg – take one capsule daily – Capsule – *Supply 14* – Dispense original and 0 repeats

ventolin inhaler CFC-Free (salbutamol (as sulfate) 100 mcg/ 1 actuation) inhalation: pressurised (trade product unit of use)

zydol

21-Jul-2012 Dispensed **tramadol hydrochloride** – ZYDOL – 50mg – take one capsule daily – Capsule – *Supply 14* – Original dispense

Figure 15: Expanded Group By Brand Name (sample illustration)

Table 12: 'Expanded Group By Brand Name' conformance

ID	Conformance Points	Status
View-PD59	<p>The expanded Prescription document line item shall display:</p> <ul style="list-style-type: none"> • DateTime Prescription Written • Transaction Type = Prescribed • Generic Name • Brand Name • Strength • Direction • Medicine Form • Quantity = <i>Supply</i> (label in italics) <Quantity>, e.g. '<i>Supply 2</i>'. • Dispensed = The PD View shall display 'Dispense original' followed by <Maximum number of repeats> in the Prescription Document Line, e.g. 'Dispense original and 1 repeats'. <p>Where there is no data provided for a data element (listed above), then the data element shall be excluded from the document line.</p>	Mandatory
View-PD60	<p>The expanded Dispense document line item shall display:</p> <ul style="list-style-type: none"> • DateTime of Dispense Event • Transaction Type = Dispensed • Generic Name • Brand Name • Strength • Label Instruction • Medicine Form • Quantity = <i>Supply</i> (label in italics) <Quantity>, e.g. '<i>Supply 2</i>'. • Dispensed = Number of this dispense. <p>If the number of this dispense = 1, then The PD View shall display 'Original Dispense' in the Dispense Document Line. If the number of this dispense is >1, then The PD View shall display 'Repeat value' as the number of this dispense -1 in the Dispense Document Line e.g. 'Repeat 1'.</p> <p>Where there is no data provided for a data element (listed above), then the data element shall be excluded from the document line.</p>	Mandatory
View-PD61	<p>The PD View should render and display the Summary and Document Line items using a colour palette with a colour contrast that meets accessibility standards such as WCAG 2.0: Guideline 1.4 (http://www.w3.org/TR/WCAG20/).</p>	Recommended

2.5 Individual Clinical Documents

2.5.1 Prescribed Items

05-May-2012 Prescribed **morphine hydrochloride** – ORDINE – 2mg/mL – take 10mLs as directed – Oral solution – *Supply* 500mLs – Dispense original and 0 repeats

Figure 16: Prescribed Items (sample illustration)

Table 13: 'Prescribed Items' conformance

ID	Conformance Points	Status
View-PD62	When a user clicks a Prescription document line item, the Prescription CDA document shall be retrieved from the PCEHR system, rendered, and displayed in The PD View.	Mandatory

2.5.2 Dispensed Items

05-May-2012 Dispensed **morphine hydrochloride** – ORDINE – 2mg/mL – take 10mLs as directed – Oral solution – Supply 500mLs – Original dispense

Figure 17: Dispensed Items (sample illustration)

Table 14: 'Dispensed Items' conformance

ID	Conformance Points	Status
View-PD63	When a user clicks a Dispense document line item, the Dispense CDA document shall be retrieved from the PCEHR system, rendered, and displayed in The PD View.	Mandatory

2.6 SCS Mapping – Group by: Prescription (1)

PCEHR PRESCRIPTION AND DISPENSE VIEW	
CONTEXT	
	SUBJECT OF CARE
	DOCUMENT AUTHOR
	DateTime Authored
	Earliest Date for Filtering (DateTime Health Event Started)
	Latest Date for Filtering (DateTime Health Event Ended)
	PCEHR Prescription and Dispense View Instance Identifier
	Structured Document Identifier
CONTENT	
	EXCLUSION STATEMENT
	General Statement
	Prescribing and Dispensing Reports (SUMMARIES OF MEDICATION ENTRIES)
	MEDICATION ENTRIES WITH SUMMARY
	SUMMARY OF MEDICATION ENTRIES
	Therapeutic Good Identification
	DateTime Prescription Written (DateTime Earliest Prescription Written)
	DateTime of Earliest Dispense Event
	DateTime of Latest Dispense Event
	Total Number of Known Supplies
	Maximum Number of Permitted Supplies
	MEDICATION ENTRY

Prescribed	Medicine Dispensed	First Dispense	Last Dispense	Dispensed	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2	
25-Jul-2012	Dispensed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1				
21-Jul-2012	Dispensed tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense				
20-Jul-2012	Prescribed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats				

Figure 18: SCS Mapping – Group by: Prescription



























2.7 SCS Mapping – Group by: Prescription (2)

1				Dispense Item (MEDICATION ACTION)
2				Therapeutic Good Identification
3				Therapeutic Good Strength (Additional Therapeutic Good Detail)
4				Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
				Additional Dispensed Item Description (Additional Therapeutic Good Detail)
5				Label Instruction (Medication Action Instructions)
				Formula
				Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)
6				Form
				Quantity Dispensed (AMOUNT OF MEDICATION)
7				Quantity Description
				Comment (Medication Action Comment)
				Brand Substitution Occurred
8				Number of this Dispense
				Maximum Number of Repeats
				PBS Manufacturer Code (Administrative Manufacturer Code)
				Unique Pharmacy Prescription Number (Administrative System Identifier)
9				DateTime of Dispense Event (Medication Action DateTime)
				Dispense Item Identifier (Medication Action Instance Identifier)
				Dispense Record Link (LINK)
				Link Nature
				Link Role
				Link Target
				Prescription Item Link (LINK)
				Link Nature
				Link Role
				Link Target

Prescription	Medication Details	Quantity	Dispense	Dispense
20-Jul-2012	tramadol hydrochloride	14	21-Jul-2012	21-Jul-2012
25-Jul-2012	Dispersed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1			
21-Jul-2012	Dispersed tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense			
20-Jul-2012	Prescribed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats			

Figure 19: SCS Mapping – Group by: Prescription

2.8 SCS Mapping – Group by: Prescription (3)

1				Prescription Item (MEDICATION INSTRUCTION)
2				Therapeutic Good Identification
3				Therapeutic Good Strength (Additional Therapeutic Good Detail)
4				Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
5				Directions
				Formula
				Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)
6				Form
				Clinical Indication
				Administration Details (MEDICATION ADMINISTRATION)
				Route
				Comment (Medication Instruction Comment)
				DISPENSING
				Quantity to Dispense (AMOUNT OF MEDICATION)
7				Quantity Description
8				Maximum Number of Repeats (Number of Repeats)
				Minimum Interval Between Repeats
				Brand Substitution Permitted
9				Date/Time Prescription Written (Date/Time Medication Instruction Written)
				PBS Manufacturer Code (Administrative Manufacturer Code)
				Date/Time Prescription Expires (Date/Time Medication Instruction Expires)
				Prescription Item Identifier (Medication Instruction Instance Identifier)
				Prescription Record Link (LINK)
				Link Nature
				Link Role
				Link Target

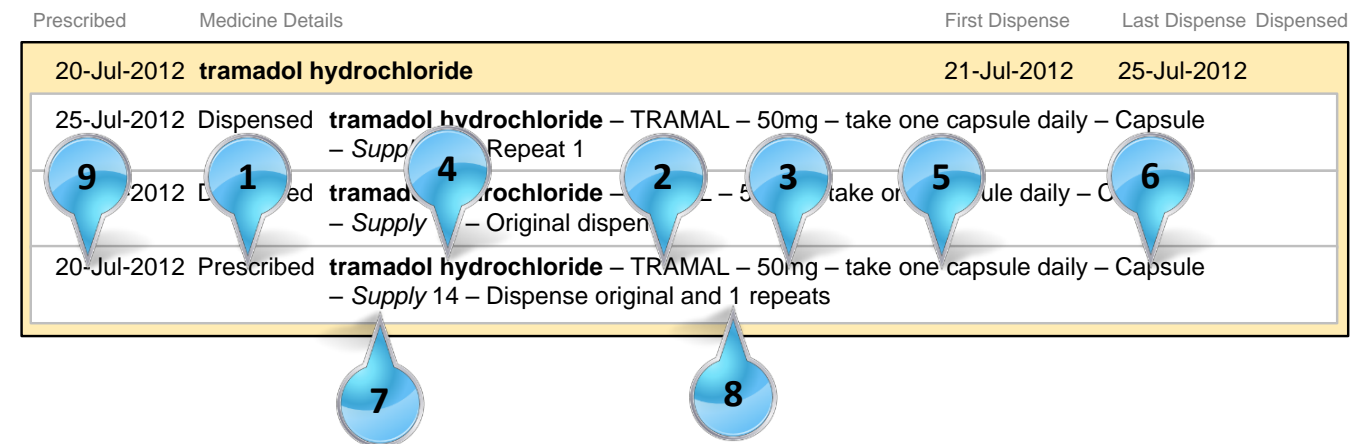






















Figure 20: SCS Mapping – Group by: Prescription

2.9 SCS Mapping – Group by: Brand Name (1)

 PCEHR PRESCRIPTION AND DISPENSE VIEW	
CONTEXT	
	SUBJECT OF CARE
	DOCUMENT AUTHOR
	DateTime Authored
	Earliest Date for Filtering (DateTime Health Event Started)
	Latest Date for Filtering (DateTime Health Event Ended)
	PCEHR Prescription and Dispense View Instance Identifier
	Structured Document Identifier
CONTENT	
	EXCLUSION STATEMENT
	General Statement
	Prescribing and Dispensing Reports (SUMMARIES OF MEDICATION ENTRIES)
	MEDICATION ENTRIES WITH SUMMARY
	SUMMARY OF MEDICATION ENTRIES
	Therapeutic Good Identification
	DateTime Prescription Written (DateTime Earliest Prescription Written)
	DateTime of Earliest Dispense Event
	DateTime of Latest Dispense Event
	Total Number of Known Supplies
	Maximum Number of Permitted Supplies
	MEDICATION ENTRY

tramal (tramadol hydrochloride 50 mg) capsule: hard, 20 capsules (trade product pack)	
25-Jul-2012 Dispensed	tramadol hydrochloride – TRAMAL (TRAMADOL HYDROCHLORIDE 50 mg) CAPSULE: HARD, 20 CAPSULES (TRADE PRODUCT PACK) – 50mg – take one capsule daily – Capsule – <i>Supply 14</i> – Original dispense
20-Jul-2012 Prescribed	tramadol hydrochloride – TRAMAL (TRAMADOL HYDROCHLORIDE 50 mg) CAPSULE: HARD, 20 CAPSULES (TRADE PRODUCT PACK) – 50mg – take one capsule daily – Capsule – <i>Supply 14</i> – Dispense original and 0 repeats

Note: there are no Summary of Medication entries at this point in the data hierarchy

Figure 21: SCS Mapping – Group by: Brand Name

2.10 SCS Mapping – Group by: Brand Name (2)

1				Dispense Item (MEDICATION ACTION)
2				Therapeutic Good Identification
3				Therapeutic Good Strength (Additional Therapeutic Good Detail)
4				Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
				Additional Dispensed Item Description (Additional Therapeutic Good Detail)
5				Label Instruction (Medication Action Instructions)
				Formula
				Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)
6				Form
				Quantity Dispensed (AMOUNT OF MEDICATION)
7				Quantity Description
				Comment (Medication Action Comment)
				Brand Substitution Occurred
8				Number of this Dispense
				Maximum Number of Repeats
				PBS Manufacturer Code (Administrative Manufacturer Code)
				Unique Pharmacy Prescription Number (Administrative System Identifier)
9				DateTime of Dispense Event (Medication Action DateTime)
				Dispense Item Identifier (Medication Action Instance Identifier)
				Dispense Record Link (LINK)
				Link Nature
				Link Role
				Link Target
				Prescription Item Link (LINK)
				Link Nature
				Link Role
				Link Target

Diagram illustrating SCS mapping for a prescription. The prescription text is shown with callouts 1 through 9 pointing to specific fields:

- 1: Prescription Item Link (LINK)
- 2: Therapeutic Good Identification
- 3: Therapeutic Good Strength (Additional Therapeutic Good Detail)
- 4: Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
- 5: Label Instruction (Medication Action Instructions)
- 6: Form
- 7: Quantity Description
- 8: Comment (Medication Action Comment)
- 9: DateTime of Dispense Event (Medication Action DateTime)

Example Prescription Text:

25-Jul-2012 Dispensed **tramadol hydrochloride 50 mg) capsule: hard, 20 capsules (trade product pack)** – TRAMAL (TRAMADOL HYDROCHLORIDE 50 mg) CAPSULE: HARD, 20 CAPSULES (TRADE PRODUCT PACK) – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense

20-Jul-2012 Dispensed **tramadol hydrochloride 50 mg) capsule: hard, 20 capsules (trade product pack)** – TRAMAL (TRAMADOL HYDROCHLORIDE 50 mg) CAPSULE: HARD, 20 CAPSULES (TRADE PRODUCT PACK) – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense

Figure 22: SCS Mapping – Group by: Brand Name

2.11 SCS Mapping – Group by: Brand Name (3)

1				Prescription Item (MEDICATION INSTRUCTION)
2				Therapeutic Good Identification
3				Therapeutic Good Strength (Additional Therapeutic Good Detail)
4				Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
5				Directions
				Formula
				Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)
6				Form
				Clinical Indication
				Administration Details (MEDICATION ADMINISTRATION)
				Route
				Comment (Medication Instruction Comment)
				DISPENSING
				Quantity to Dispense (AMOUNT OF MEDICATION)
7				Quantity Description
8				Maximum Number of Repeats (Number of Repeats)
				Minimum Interval Between Repeats
				Brand Substitution Permitted
9				Date Time Prescription Written (Date Time Medication Instruction Written)
				PBS Manufacturer Code (Administrative Manufacturer Code)
				Date Time Prescription Expires (Date Time Medication Instruction Expires)
				Prescription Item Identifier (Medication Instruction Instance Identifier)
				Prescription Record Link (LINK)
				Link Nature
				Link Role
				Link Target





















tramal (tramadol hydrochloride 50 mg) capsule: hard, 20 capsules (trade product pack)

20-Jul-2012 Prescribed **tramadol hydrochloride** – TRAMAL (TRAMADOL HYDROCHLORIDE 50 mg) CAPSULE: HARD, 20 CAPSULES (TRADE PRODUCT PACK) – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 0 repeats

20-Jul-2012 Prescribed **tramadol hydrochloride** – TRAMAL (TRAMADOL HYDROCHLORIDE 50 mg) CAPSULE: HARD, 20 CAPSULES (TRADE PRODUCT PACK) – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense

Figure 23: SCS Mapping – Group by: Brand Name

2.12 SCS Mapping – Group by: Generic Name (1)




















 PCEHR PRESCRIPTION AND DISPENSE VIEW	
CONTEXT	
	SUBJECT OF CARE
	DOCUMENT AUTHOR
	DateTime Authored
	Earliest Date for Filtering (DateTime Health Event Started)
	Latest Date for Filtering (DateTime Health Event Ended)
	PCEHR Prescription and Dispense View Instance Identifier
	Structured Document Identifier
CONTENT	
	EXCLUSION STATEMENT
	General Statement
	Prescribing and Dispensing Reports (SUMMARIES OF MEDICATION ENTRIES)
	MEDICATION ENTRIES WITH SUMMARY
	SUMMARY OF MEDICATION ENTRIES
	Therapeutic Good Identification
	DateTime Prescription Written (DateTime Earliest Prescription Written)
	DateTime of Earliest Dispense Event
	DateTime of Latest Dispense Event
	Total Number of Known Supplies
	Maximum Number of Permitted Supplies
	MEDICATION ENTRY

tramadol hydrochloride	
25-Jul-2012 Dispensed	tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1
21-Jul-2012 Dispensed	tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense
20-Jul-2012 Prescribed	tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats

Note: there are no Summary of Medication entries at this point in the data hierarchy

Figure 24: SCS Mapping – Group by: Generic Name

2.13 SCS Mapping – Group by: Generic Name (2)

1				Dispense Item (MEDICATION ACTION)
2				Therapeutic Good Identification
3				Therapeutic Good Strength (Additional Therapeutic Good Detail)
4				Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
				Additional Dispensed Item Description (Additional Therapeutic Good Detail)
5				Label Instruction (Medication Action Instructions)
				Formula
				Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)
6				Form
				Quantity Dispensed (AMOUNT OF MEDICATION)
7				Quantity Description
				Comment (Medication Action Comment)
				Brand Substitution Occurred
8				Number of this Dispense
				Maximum Number of Repeats
				PBS Manufacturer Code (Administrative Manufacturer Code)
				Unique Pharmacy Prescription Number (Administrative System Identifier)
9				DateTime of Dispense Event (Medication Action DateTime)
				Dispense Item Identifier (Medication Action Instance Identifier)
				Dispense Record Link (LINK)
				Link Nature
				Link Role
				Link Target
				Prescription Item Link (LINK)
				Link Nature
				Link Role
				Link Target

tramadol hydrochloride	
25-Jul-2012	Dispensed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1
20-Jul-2012	Dispensed tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense
20-Jul-2012	Prescribed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats

Figure 25: SCS Mapping – Group by: Generic Name

2.14 SCS Mapping – Group by: Generic Name (3)

1				Prescription Item (MEDICATION INSTRUCTION)
2				Therapeutic Good Identification
3				Therapeutic Good Strength (Additional Therapeutic Good Detail)
4				Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
5				Directions
				Formula
				Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)
6				Form
				Clinical Indication
				Administration Details (MEDICATION ADMINISTRATION)
				Route
				Comment (Medication Instruction Comment)
				DISPENSING
				Quantity to Dispense (AMOUNT OF MEDICATION)
7				Quantity Description
8				Maximum Number of Repeats (Number of Repeats)
				Minimum Interval Between Repeats
				Brand Substitution Permitted
9				DateTime Prescription Written (DateTime Medication Instruction Written)
				PBS Manufacturer Code (Administrative Manufacturer Code)
				DateTime Prescription Expires (DateTime Medication Instruction Expires)
				Prescription Item Identifier (Medication Instruction Instance Identifier)
				Prescription Record Link (LINK)
				Link Nature
				Link Role
				Link Target

tramadol hydrochloride




















25-Jul-2012 Dispensed **tramadol hydrochloride** – TRAMAL – 50mg – take one capsule daily – Capsule
 – Supply 14 – Dispense original and 1 repeats

21-Jul-2012 Dispensed **tramadol hydrochloride** – TRAMAL – 50mg – take one capsule daily – Capsule
 – Supply 14 – Dispense original and 1 repeats

20-Jul-2012 Prescribed **tramadol hydrochloride** – TRAMAL – 50mg – take one capsule daily – Capsule
 – Supply 14 – Dispense original and 1 repeats

Figure 26: SCS Mapping – Group by: Generic Name

2.15 SCS Mapping – Group by: PBS Item Code (1)




























PCEHR PRESCRIPTION AND DISPENSE VIEW	
CONTEXT	
	SUBJECT OF CARE
	DOCUMENT AUTHOR
	DateTime Authored
	Earliest Date for Filtering (DateTime Health Event Started)
	Latest Date for Filtering (DateTime Health Event Ended)
	PCEHR Prescription and Dispense View Instance Identifier
	Structured Document Identifier
CONTENT	
	EXCLUSION STATEMENT
	General Statement
	Prescribing and Dispensing Reports (SUMMARIES OF MEDICATION ENTRIES)
	MEDICATION ENTRIES WITH SUMMARY
	SUMMARY OF MEDICATION ENTRIES
	Therapeutic Good Identification
	DateTime Prescription Written (DateTime Earliest Prescription Written)
	DateTime of Earliest Dispense Event
	DateTime of Latest Dispense Event
	Total Number of Known Supplies
	Maximum Number of Permitted Supplies
	MEDICATION ENTRY

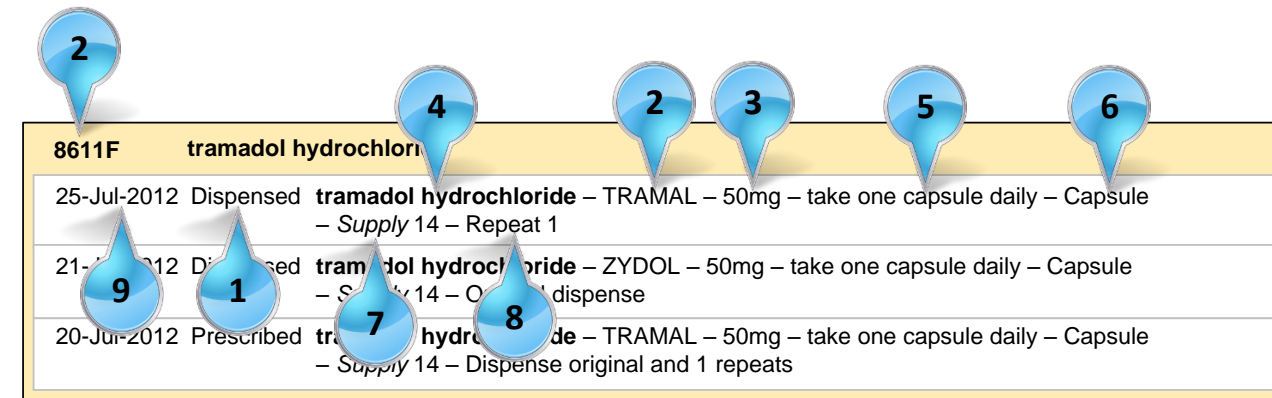
8611F	tramadol hydrochloride
25-Jul-2012	Dispensed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1
21-Jul-2012	Dispensed tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense
20-Jul-2012	Prescribed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats

Note: there are no Summary of Medication entries at this point in the data hierarchy

Figure 27: SCS Mapping – Group by: PBS Item Code

2.16 SCS Mapping – Group by: PBS Item Code (2)

1				Dispense Item (MEDICATION ACTION)
2				Therapeutic Good Identification
3				Therapeutic Good Strength (Additional Therapeutic Good Detail)
4				Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
				Additional Dispensed Item Description (Additional Therapeutic Good Detail)
5				Label Instruction (Medication Action Instructions)
				Formula
				Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)
6				Form
				Quantity Dispensed (AMOUNT OF MEDICATION)
7				Quantity Description
				Comment (Medication Action Comment)
				Brand Substitution Occurred
8				Number of this Dispense
				Maximum Number of Repeats
				PBS Manufacturer Code (Administrative Manufacturer Code)
				Unique Pharmacy Prescription Number (Administrative System Identifier)
9				DateTime of Dispense Event (Medication Action DateTime)
				Dispense Item Identifier (Medication Action Instance Identifier)
				Dispense Record Link (LINK)
				Link Nature
				Link Role
				Link Target
				Prescription Item Link (LINK)
				Link Nature
				Link Role
				Link Target



The screenshot shows a medication record for **8611F tramadol hydrochloride**. The record contains three entries:

- 25-Jul-2012** Dispensed **tramadol hydrochloride** – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1. Callouts 2, 3, 4, 5, and 6 point to this entry.
- 21-Jul-2012** Dispensed **tramadol hydrochloride** – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense. Callouts 7 and 8 point to this entry.
- 20-Jul-2012** Prescribed **tramadol hydrochloride** – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats. Callouts 1 and 9 point to this entry.

Figure 28: SCS Mapping – Group by: PBS Item Code

2.17 SCS Mapping – Group by: PBS Item Code (3)

1				Prescription Item (MEDICATION INSTRUCTION)
2				Therapeutic Good Identification
3				Therapeutic Good Strength (Additional Therapeutic Good Detail)
4				Therapeutic Good Generic Name (Additional Therapeutic Good Detail)
5				Directions
				Formula
				Ingredients and Form (CHEMICAL DESCRIPTION OF MEDICATION)
6				Form
				Clinical Indication
				Administration Details (MEDICATION ADMINISTRATION)
				Route
				Comment (Medication Instruction Comment)
				DISPENSING
				Quantity to Dispense (AMOUNT OF MEDICATION)
7				Quantity Description
8				Maximum Number of Repeats (Number of Repeats)
				Minimum Interval Between Repeats
				Brand Substitution Permitted
9				DateTime Prescription Written (DateTime Medication Instruction Written)
				PBS Manufacturer Code (Administrative Manufacturer Code)
				DateTime Prescription Expires (DateTime Medication Instruction Expires)
				Prescription Item Identifier (Medication Instruction Instance Identifier)
				Prescription Record Link (LINK)
				Link Nature
				Link Role
				Link Target

8611F tramadol hydrochloride

25-Jul-2012 Dispensed **tramadol hydrochloride** – TRAMAL – 50mg – take one capsule daily – Capsule
 – Supply 14 – Repeat 1

21-Jul-2012 Dispensed **tramadol hydrochloride** – TRAMAL – 50mg – take one capsule daily – Capsule
 – Supply 14 – Dispense original and 1 repeats

20-Jul-2012 Prescribed **tramadol hydrochloride** – TRAMAL – 50mg – take one capsule daily – Capsule
 – Supply 14 – Dispense original and 1 repeats

Figure 29: SCS Mapping – Group by: PBS Item Code

Appendix A PCEHR Framework

A.1 PCEHR Consumer Portal

The screenshot displays the PCEHR Consumer Portal interface. At the top, there are logos for the Australian Government, Department of Health and Ageing, eHealth, and The National eHealth Record System. A user header shows 'Welcome ALBERT DESMOMD' and a 'Log out' link. A 'National Health Reform' banner is also present.

The main content area is titled 'Prescription and Dispense View' and includes a warning: 'This view is not a complete record of the individual's medicines information.' Below this is a search and filter section with 'From' and 'To' date pickers, a 'Filter' button, and a 'Group by' dropdown.

The central table lists medication records:

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2
unavailable	salbutamol sulphate	07-Jul-2012	10-Jul-2012	2 of 2
22-Jun-2012	doxycycline	23-Jun-2012	29-Jun-2012	2 of 2
18-Jun-2012	amphetamine + dextroamphetamine	18-Jun-2012	21-Jun-2012	2 of 2
17-Jun-2012	metolazone	18-Jun-2012	25-Jun-2012	2 of 2
05-May-2012	morphine hydrochloride	05-May-2012	05-May-2012	1 of 2
28-Apr-2012	amantadine hydrochloride	unavailable	unavailable	unavailable

The left-hand navigation menu includes sections for 'Health Record Overview', 'Clinical Documents', 'Medicines Records' (with 'Prescription and Dispense View' selected), 'Personal', 'Medicare Records', and 'Restricted Settings'.

Figure 30: PCEHR Consumer Portal

A.2 PCEHR Provider Portal

The screenshot displays the PCEHR Provider Portal interface. At the top, it shows the Australian Government Department of Health and Ageing logo and the National eHealth Record System: Healthcare Provider Portal. The patient information bar identifies the patient as DESMOMD, ALBERT, born 20-Sep-1945 (67 yrs), male. The main content area is titled 'Prescription and Dispense View' and contains a table of medication records. The table has columns for 'Prescribed', 'Medicine Details', 'First Dispense', 'Last Dispense', and 'Dispensed'. The records include tramadol hydrochloride, salbutamol sulphate, doxycycline, amphetamine + dextroamphetamine, metolazone, morphine hydrochloride, and amantadine.

Prescribed	Medicine Details	First Dispense	Last Dispense	Dispensed
20-Jul-2012	tramadol hydrochloride	21-Jul-2012	25-Jul-2012	2 of 2
25-Jul-2012	Dispensed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Repeat 1			
21-Jul-2012	Dispensed tramadol hydrochloride – ZYDOL – 50mg – take one capsule daily – Capsule – Supply 14 – Original dispense			
20-Jul-2012	Prescribed tramadol hydrochloride – TRAMAL – 50mg – take one capsule daily – Capsule – Supply 14 – Dispense original and 1 repeats			
unavailable	salbutamol sulphate	07-Jul-2012	10-Jul-2012	2 of 2
10-Jul-2012	Dispensed salbutamol sulphate – VENTOLIN – 100mcg/dose – 2 puffs every 4 hours prn for exacerbations of asthma – Inhaler – Supply 2 – Repeat 1			
07-Jul-2012	Dispensed salbutamol sulphate – VENTOLIN – 100mcg/dose – 2 puffs every 4 hours prn for exacerbations of asthma – Inhaler – Supply 2 – Original dispense			
22-Jun-2012	doxycycline	23-Jun-2012	29-Jun-2012	2 of 2
18-Jun-2012	amphetamine + dextroamphetamine	18-Jun-2012	21-Jun-2012	2 of 2
17-Jun-2012	metolazone	18-Jun-2012	25-Jun-2012	2 of 2
05-May-2012	morphine hydrochloride	05-May-2012	05-May-2012	1 of 2
05-May-2012	Dispensed morphine hydrochloride – ORADINE – 2mg/mL – take 10mLs as directed – Oral solution – Supply 500mLs – Original dispense			
05-May-2012	Prescribed morphine hydrochloride – ORADINE – 2mg/mL – take 10mLs as directed – Oral solution – Supply 500mLs – Dispense original and 0 repeats			
28-Apr-2012	amantadine	unavailable	unavailable	1 of 1
28-Apr-2012	Prescribed amantadine – SYMMETREL – 50mg/5ml Syrup – 1 teaspoon three times daily – Supply 250ml bottle – Dispense original and 0 repeats			

Figure 31: PCEHR Provider Portal

Acronyms

Acronym	Description
CCA	Conformance Compliance & Accreditation
NIO	National Infrastructure Operator
NPDR	National Prescription and Dispense Repository
PCEHR	Personally Controlled Electronic Health Record

References

The documents below are all available from: <https://vendors.nehta.gov.au>. Access to this site requires registration, which is free of charge.

Some documents also available on nehta.gov.au, as noted below.

1. NEHTA. *PCEHR Dispense Record Structured Content Specification*. Sydney: NEHTA; 2013. v1.0. Available from: <https://www.nehta.gov.au/implementation-resources/clinical-documents/EP-1323-2013/NEHTA-0928-2013>
2. NEHTA. *PCEHR Prescription Record Structured Content Specification*. Sydney: NEHTA; 2013. v1.0. Available from: <https://www.nehta.gov.au/implementation-resources/clinical-documents/EP-1321-2013/NEHTA-0929-2012>
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4. NEHTA. *PCEHR Prescription and Dispense View CDA Implementation Guide*. Sydney: NEHTA; 2013. v1.0. Available from: <https://www.nehta.gov.au/implementation-resources/clinical-documents/EP-1322-2013/NEHTA-1127-2013>
5. NEHTA. *PCEHR View Service Logical Service Specification*. Sydney: NEHTA; 2013. v1.3. Described as the *PCEHR B2B Gateway Service View Service Logical Service Specification* on the PCEHR the Software Developers Resource Centre site.
6. NEHTA. *PCEHR View Service Technical Service Specification*. Sydney: NEHTA; 2013. v1.5. Described as the *PCEHR B2B Gateway Service View Service Technical Service Specification* on the PCEHR the Software Developers Resource Centre site.