

## Using PharmaNet Integration to Document Best Possible Medication History

**Objective** – Complete the Best Possible Medication History (BPMH) using the **PharmaNet** medication profile.

The BPMH must be completed **before** proceeding with the admission medication reconciliation in the Clinical Information System (CIS). The BPMH is generally documented by a pharmacy technician. When a pharmacy technician is not available, it can be completed by a nurse, medical student, pharmacist, resident, or physician.

The CIS will provide a list of any previously documented home medications (if any) from any previous patient encounters. For the current admission, BPMH must be updated based on: the patient's **PharmaNet** profile, information obtained by interviewing the patient and/or family, and reviewing other reliable sources of information.



**NOTE:** Other sources of information provide collateral information to **PharmaNet**, and are especially necessary if:

- The patient is from out of province and does not have a current **PharmaNet** profile.
- The patient is transferred from a hospital or long term care facility where medication information may not be captured on **PharmaNet**.
- **PharmaNet** is offline, or
- There is any reason to believe **PharmaNet** is not accurate.

Medications that need to be included in BPMH:

1. All medication actively being taken, including:
  - a. Active treatment protocols, such as cancer treatment in progress.
  - b. Intermittent medication (refers to medications that are prescribed on defined cycle [e.g. every three weeks] for one or more doses [e.g. depot injections, chemotherapy]).
2. The following “No Longer Taking” medications:
  - a. Medications that are temporarily on hold (e.g. held prior to surgery).
  - b. Medications that the patient has stopped taking on their own without Provider direction.

This document will discuss the following:

1. Accessing **PharmaNet** for a Patient's Medication Profile
2. Adding Home Medications
3. Reviewing Previously Documented Medication History
4. Reviewing Medication History Snapshot

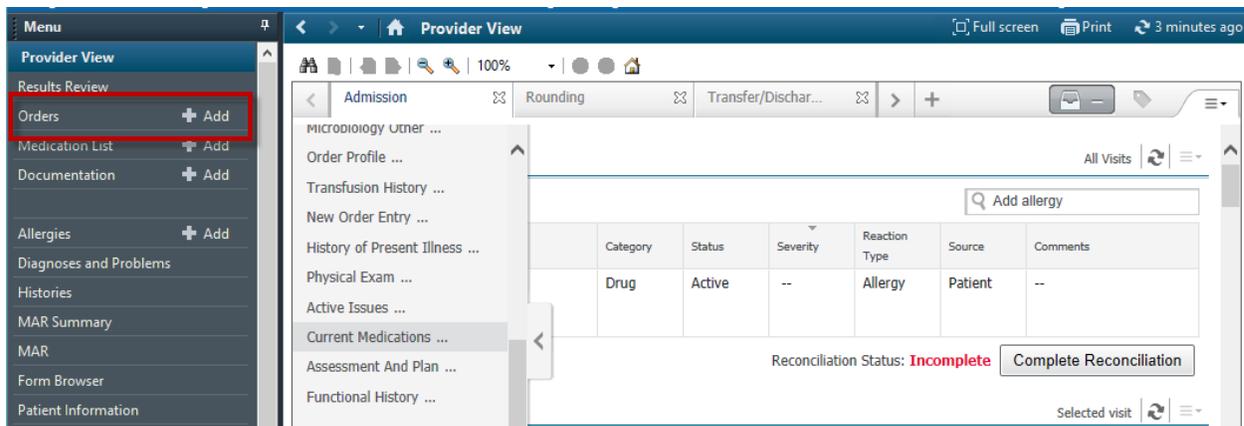
## Accessing PharmaNet for a Patient's Medication Profile

PharmaNet is one of many resources used to capture BPMH. Other collaterals can be used when completing BPMH (e.g. Facility MAR, community pharmacy local records, or directly from the patient and the family members).

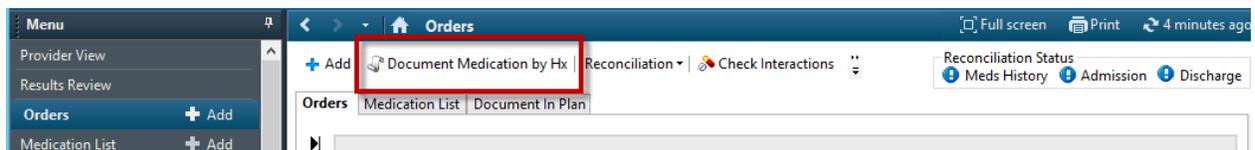
**NOTE: PharmaNet does not** record all prescription medications that a patient receives

- while in a hospital, designated mental health centre, or some long term care facilities (though emergency department physicians may update your record with information about drugs they provided, allergies, or adverse drug reactions)
- through the BC Cancer Agency (i.e. oncology medications such as chemotherapy drugs)
- through the BC Centre for Excellence in HIV/AIDS
- through the BC Transplant Society (i.e. transplant-related drugs)

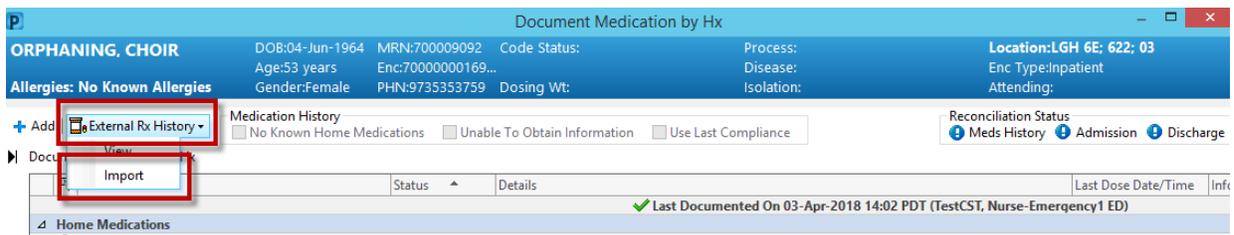
1. In PowerChart, click **Orders** from the tab on the left hand side.



2. Click **Document Medication by Hx**



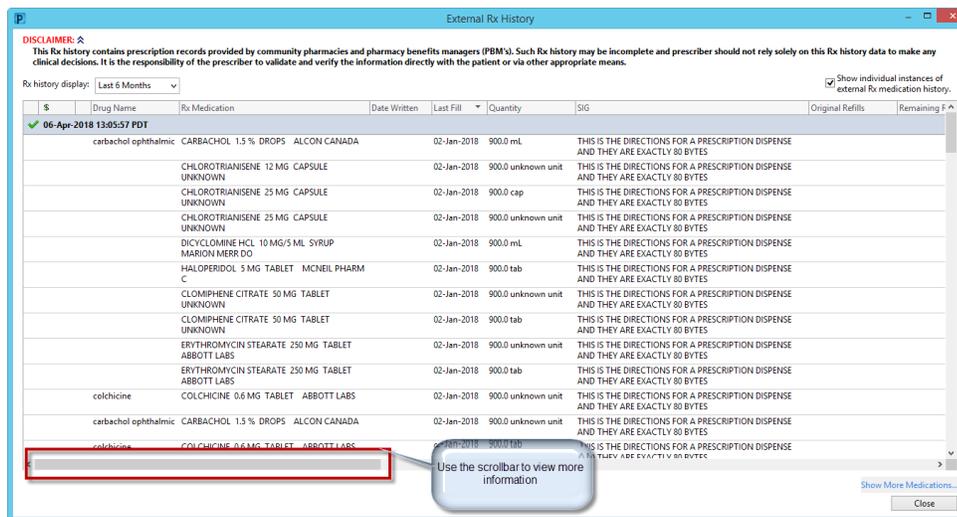
3. Click the **External Rx History** button and select **Import**.



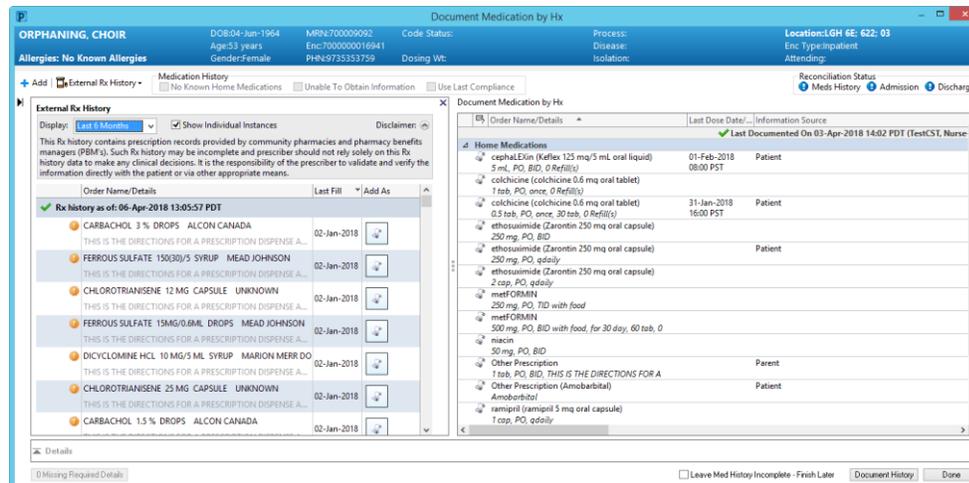
## REFERENCE: There are 3 methods to view the PharmaNet profile

- View
- Import
- View-Only Medications

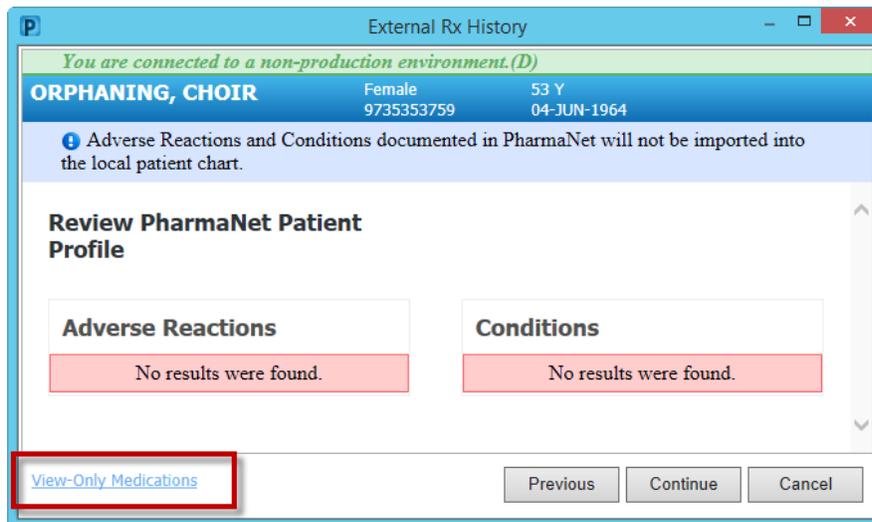
a. **View:** Used to view PharmaNet profile quickly.



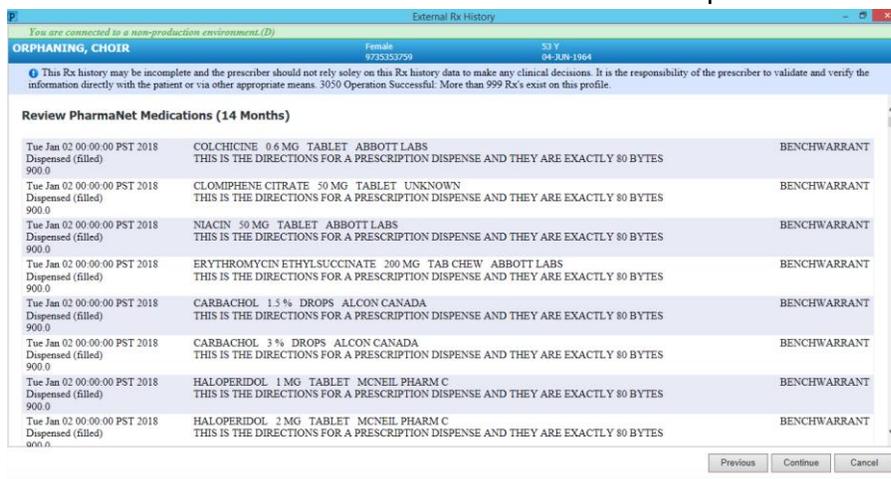
b. **Import:** Preferred method for documenting BPMH.  
This will show the “side-by-side” window for documenting BPMH.



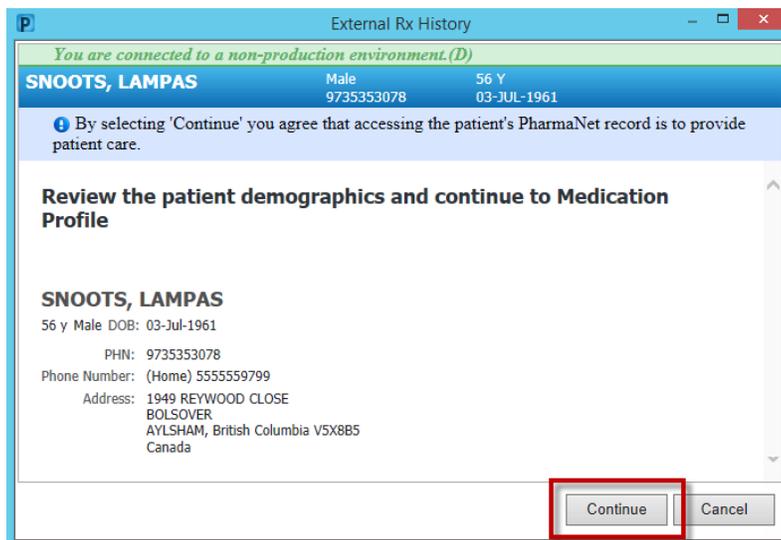
- c. **View-Only Medications:** Accessible from the Adverse Reactions and Medical Conditions page. This screen is available from either the View or Import option.



This will show information directly from **PharmaNet** and alert the user when there are more than 999 medications that exist on the profile.



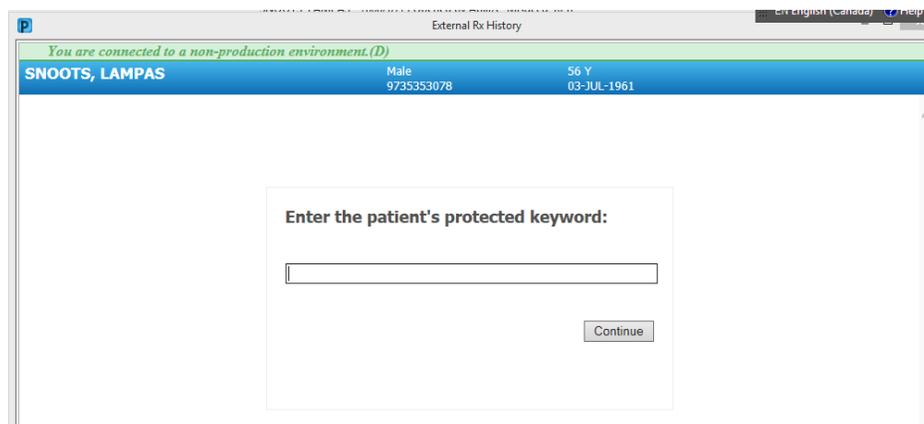
4. Confirm patient's demographics from PharmaNet to ensure the right patient is being accessed. Click Continue button.



5. Screen to enter patient's protected keyword may appear.

## EXAMPLE OF PROTECTED KEYWORD

- a. In some cases the patient will have a "Keyword" associated with their medication profile as a privacy measure. If this happens there will be a prompt asking for the "Keyword", and we will need to ask the patient for it before we have access to their **PharmaNet** profile.

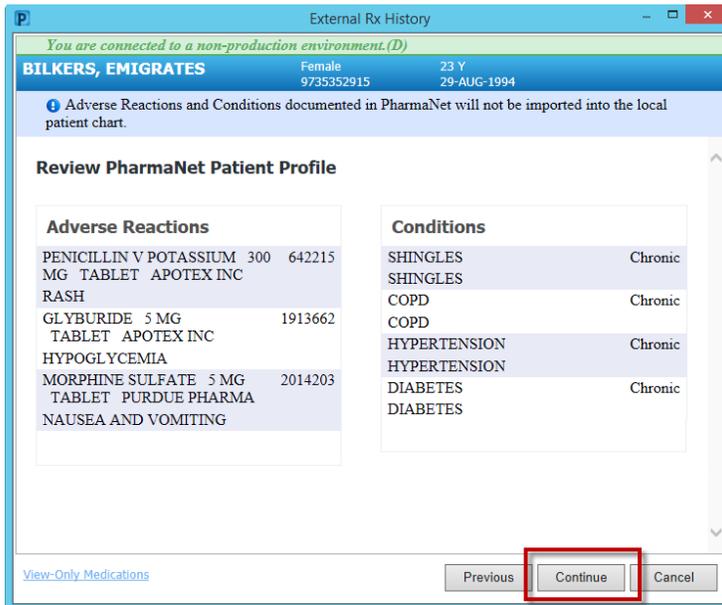


In the event the Keyword cannot be obtained (e.g. patient is unconscious), contact the **PharmaNet** Help Desk (1-800-554-0225) to remove the Keyword. Afterwards the patient must be informed in writing by hospital staff (signed by the doctor who authorized the removal) that their Keyword was removed, and the patient will need to re-establish it through a community pharmacy if they wish to do so.

6. Confirm Adverse Reactions and Medical Conditions in **PharmaNet**.

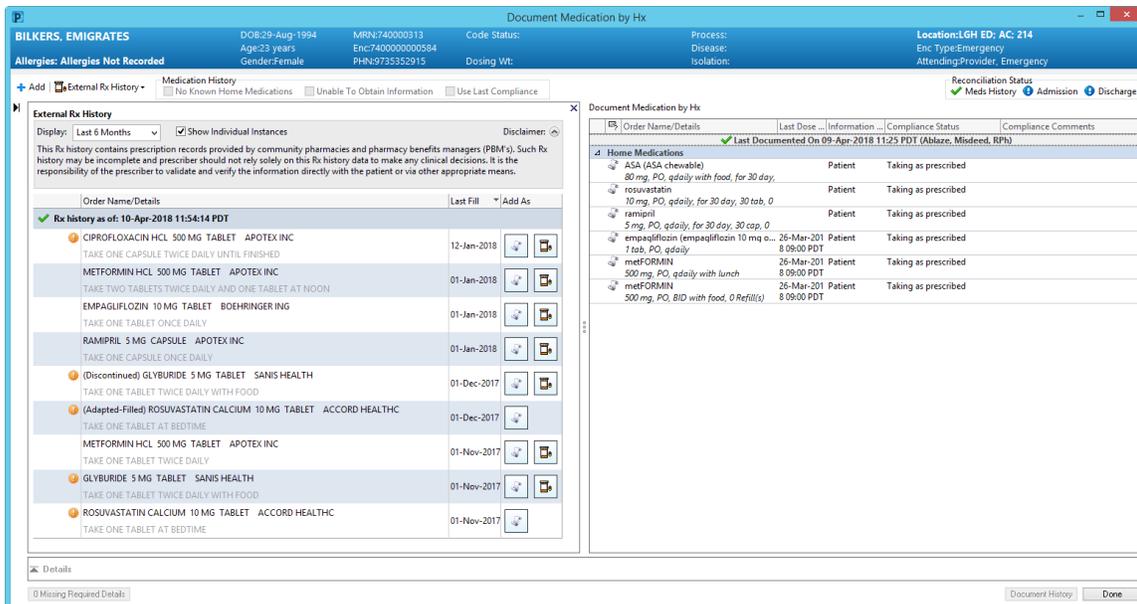
- Adverse Reactions and Conditions are not imported into the CIS and so they must be reconciled and added to the patient’s chart in the CIS as needed.

Example of screen with Adverse Reactions and Medical Conditions:

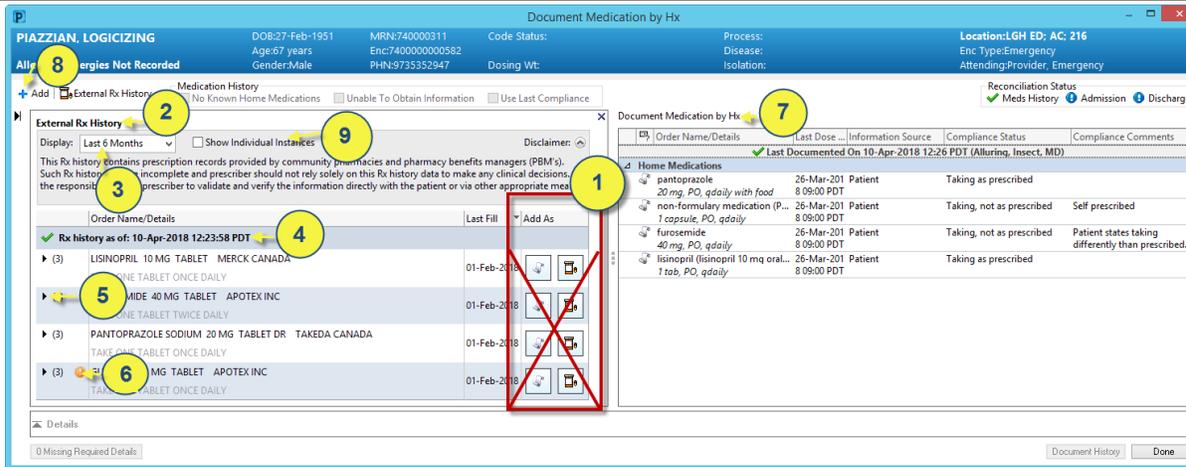


7. Click **Continue**.

8. The Document Medication by Hx screen will appear.



**REFERENCE: Side-by-side Import screen**



**WARNING – DO NOT USE** the buttons displayed under the Add As column. Clicking these buttons may lead to erroneous and/or failed product conversion issues downstream in medication reconciliation. This functionality is a work in progress and not yet ready for use. Use the **+ Add** button to document medications. See Disc 8.

- 2 External Rx History – This is where the **PharmaNet** profile appears.
- 3 Display time frame filter – The recommended time frame display is 6 months as this is our standard for BPMH. Changes to the time frame filter will be retained for future logins. There are other time frames available in the CIS; however, the Ministry of Health only displays a maximum 14 months in **PharmaNet**.
- 4 Rx History Date/Time Stamp – This displays the last time the view was refreshed from **PharmaNet**. If there is no green checkmark  click the refresh icon  to update the view.
- 5 Medication Fill indicator – This is an indicator that groups medications by name only. It is recommended to expand grouped medications by clicking the black arrow  (2) to view separate dispenses. You may see separate fills on different dates for the same medication. **NOTE:** The same medication name with different forms, strengths, refills or instructions will be grouped.
- 6 Starburst icon  precedes any medication name when the medication is not yet in the patient's profile in the CIS on the **Document Medication by Hx** side.
- 7 Documented Medication by Hx – Medications that were documented in a previous admission will display here. If this is a first admission, this screen will be blank.
- 8 **+ Add** button – Activates the Add Order Scratchpad. **NOTE:** At this time, this is the only approved way of adding documented home medication to the BPMH. Also see Disc 1.
- 9 Show individual instances – This checkbox is used to view each dispense of grouped medications.

9. Continue to the Adding Home Medications section below.

## Adding Home Medications:

In the following example, 2 medications will be added.

Medication Name	Patient response during Interview
Ramipril 5 mg, PO, qdaily - Found on <b>PharmaNet</b> profile	Currently taking as prescribed
Zuclopenthixol 100 mg, IM, q2 weeks - Not found on the <b>PharmaNet</b> profile	Currently taking as prescribed

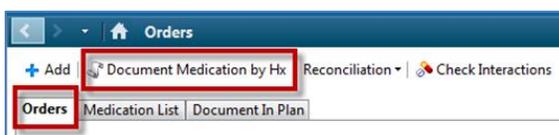
1. Before adding any home medications, view the Reconciliation Status of the medications.



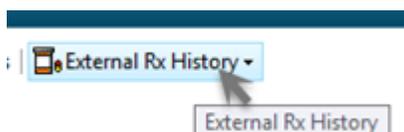
**NOTE:** Updating BPMH through Documented Medication by Hx can be done at any time even if the Reconciliation Status for Meds History has a green checkmark. If BPMH is not complete, this checkmark can be reset by right-clicking.

Reconciliation Status  
✔ Meds History ! Admission ! Discharge

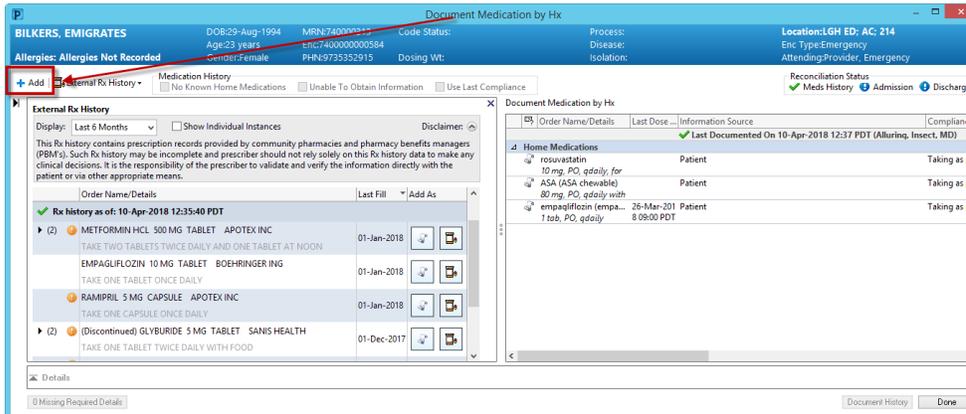
2. Click the Document Medication by Hx button.



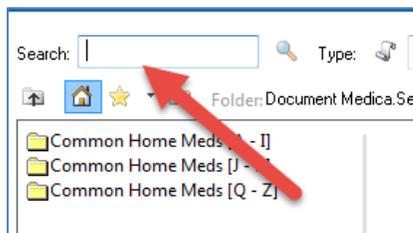
3. View documented medications (if present) and click External Rx History and select Import.



- Once landing on the side-by-side view, click the **+ Add** button.



- In the **Search** field, search for the appropriate medication and select the correct medication from the search or click the magnifying glass for all possible medications. **NOTE:** The Add Order scratchpad can be moved on the screen to allow you to still see **PharmaNet** entries.





**IMPORTANT:** You will record how the patient is taking a medication versus what is shown on the **PharmaNet** profile. During the patient interview if the patient is not adhering to the instructions on the **PharmaNet** profile, document the original instructions in the Compliance tab.

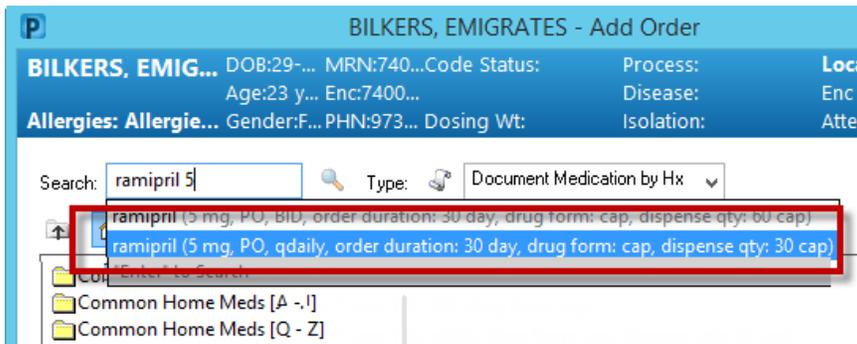
## Ramipril 5 mg, PO, qdaily

Adding the medication **Ramipril 5 mg** found on the PharmaNet profile and confirmed with patient as they are currently taking.

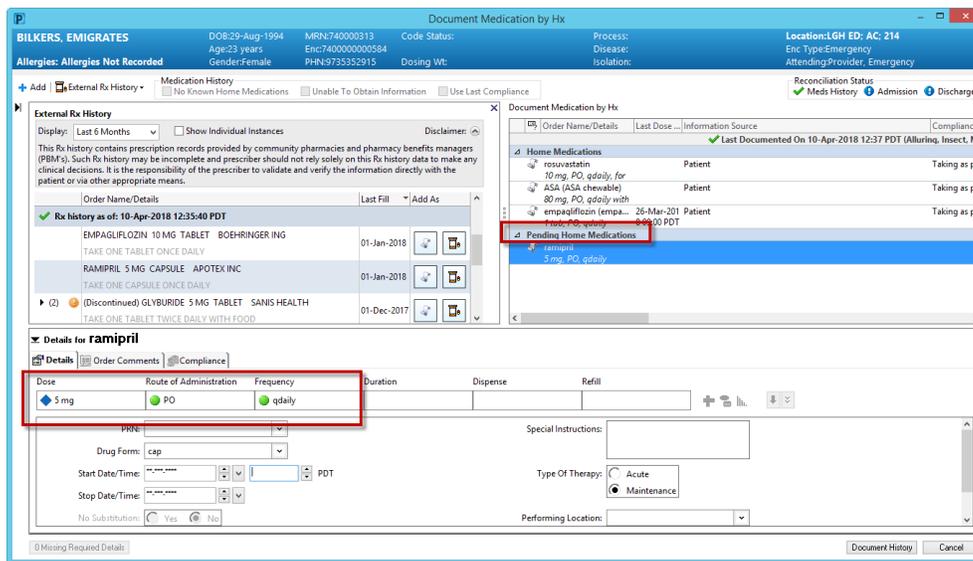
- We will add ramipril 5 mg, PO, qdaily by typing ramipril 5.



**NOTE:** As you type the name and dose of the medication, a truncated list of medication orders will appear.



6. Select the most appropriate medication and order sentence.
7. Once you select your medication, it will be populated in the Document Medication by Hx screen behind the Add Order Screen.
8. Click the **Done** button to close the Add Order screen to see the Pending Home Medications list. The Add Order screen can also be moved to view Pending Home Medications.
9. Under the Pending Home Medications header, confirm all the details of the medication:
  - a. Dose
  - b. Route of Administration
  - c. Frequency



10. Remove all extraneous information that you cannot verify with the patient.
  - a. Duration
  - b. Dispense
  - c. Refill
  - d. Start Date/Time

Details for Ramipril

Details | Order Comments | Compliance

Dose: 5 mg | Route of Administration: PO | Frequency: qdaily

Duration: | Dispense: | Refill:

PRN: | Special Instructions: | Type Of Therapy: Acute Maintenance | Performing Location:

Start Date/Time: | Stop Date/Time: | PD

No Substitution: Yes No



**NOTE:** Both Document Medication by Hx and Prescriptions are from the same set of medications. Hence, the fields Duration, Dispense, Refill and Start Date/Time exist for prescription sentences and are pre-populated values. If they cannot be confirmed, they should be removed.

11. Click on the **Compliance** tab and fill out the appropriate information, including the Status (i.e. Taking as prescribed), Information Source and Last dose date/time.



**NOTE:** Compliance only fills in when the Compliance tab is selected. The default Status pre-populates to Taking as prescribed.

Details | Order Comments | Compliance

Status: Taking as prescribed | Information source: Patient | Last dose date/time:

## Zuclopenthixol 100 mg, IM, q2weeks

**Adding a medication zuclopenthixol 100 mg IM not found on the PharmaNet profile and confirmed with patient they are currently taking every 2 weeks.**

1. Click the **+ Add** button
2. Search for the medication by typing zuclopenthixol 100

Search: zuclopenthixol 100 | Type: Document Medication by Hx

zuclopenthixol decanoate (100 mg, IM, q2week, order duration: 28 day, drug form: inj, dispense qty: 2 ampoule)

Common Home Meds [A - I]  
Common Home Meds [J - P]  
Common Home Meds [Q - Z]

BILKERS, EMIGRATES - 740000313 | Done

3. Select the most appropriate medication and order sentence.

4. Once you select your medication, it will be populated in the Document Medication by Hx screen behind the Add Order Screen.
5. Click the **Done** button to close the Add Order screen to see the pending Home Medications list.
6. Under the Pending Home Medications header, confirm all the details of the medication:
  - a. Dose
  - b. Route of Administration
  - c. Frequency
7. Remove all extraneous information that you cannot verify with the patient.
  - a. Duration
  - b. Dispense
  - c. Refill
  - d. Start Date/Time

The screenshot displays the medication management interface. At the top, there is a list of medications including METFORMIN HCL, EMPAGLIFLOZIN, RAMIPRIL, and (Discontinued) GLYBURIDE. Below this is a 'Pending Home Medications' section with a search bar and a list of medications. The 'Details' section for 'zuclopenthixol (zuclopenthixol decanoate)' is open, showing various fields for configuration. Red boxes highlight the following fields: Dose (100 mg), Route of Administration (IM), Frequency (q2week), Duration, Dispense, Refill, and Start Date/Time.

8. Click on the **Compliance** tab and fill out the appropriate information, including the Status (i.e. Taking as prescribed), Information Source and Last dose date/time.

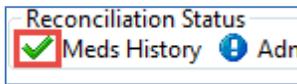
REFERENCE: Compliance Statuses	
Taking as prescribed	Patient currently taking the medication as prescribed by their prescriber. It also includes medication that the patient actively takes without requiring a prescription (e.g. Over-the-counter medications, herbal supplements, etc.)
Taking, not as prescribed	Patient currently taking the medication prescribed by their prescriber but takes it differently than originally prescribed (Document how it was originally prescribed in the Compliance comments)
Unable to obtain information	Information on the compliance for this medication is not able to be determined from information sources at this time (Cannot be validated with patient, family, or other provider)
Investigating compliance	Compliance information for this medication is under investigation and cannot be determined at this time (Needs to be validated with other providers or family)
On Hold	Patient <b>temporarily</b> stopped taking the medication as directed by their prescriber due to various reasons (Document reason for hold in Compliance comments)
No longer taking	Patient stopped taking the medication on their own without prescriber direction. Also other medications that the patient is currently not taking but deemed to be clinically relevant as per clinical judgement (Must document the reason for stopping the medication in the Compliance comments)

9. Continue to add other medications or repeat steps to add more medications for BPMH.

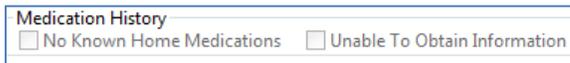
10. When complete, click on the **Document History** button



11. The Medication History Reconciliation Status will change to complete, indicated by a green checkmark.



 **NOTE:** If your patient is not taking any medications at home or if you are unable to obtain the medication history from the patient, select the appropriate check box:



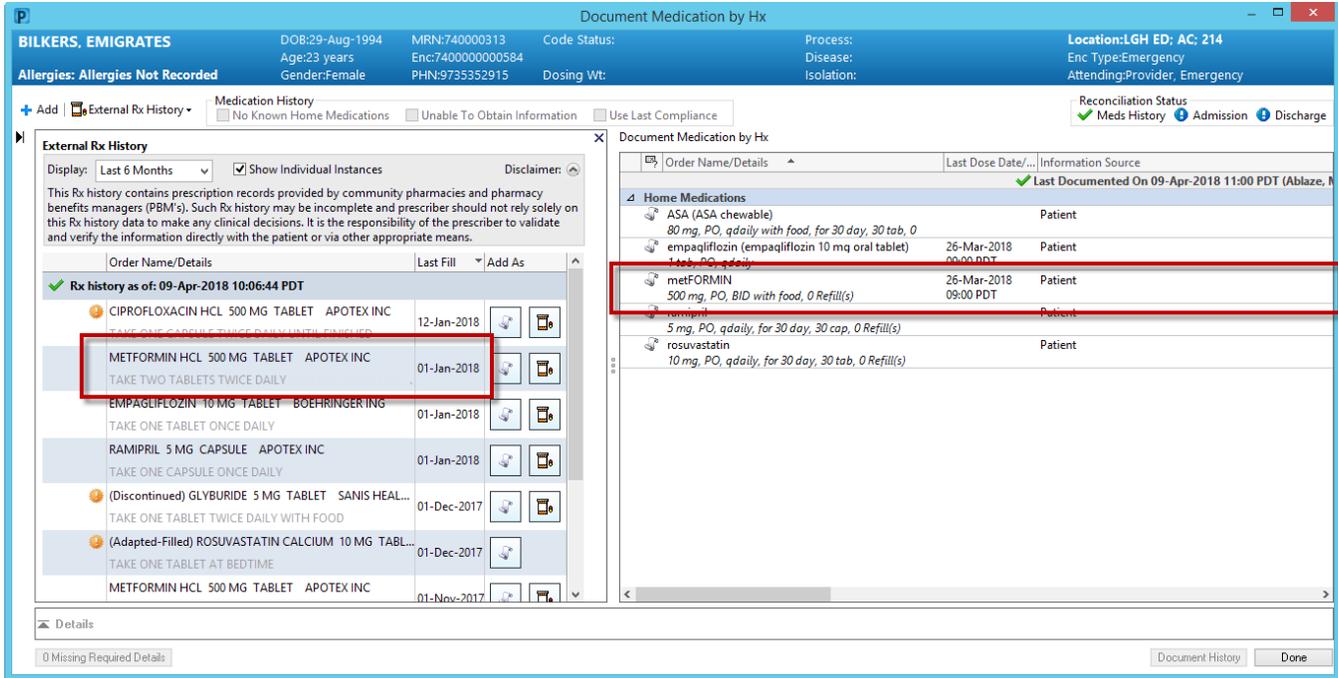
12. Confirm **PharmaNet** profile matches patient's medication history.

 **NOTE:** **PharmaNet** does not record all prescription medications that a patient is taking.

## Modifying Medications found in the CIS

In the example below, for metformin 500 mg, you see the directions from **PharmaNet** are different from the directions previously documented in the CIS.

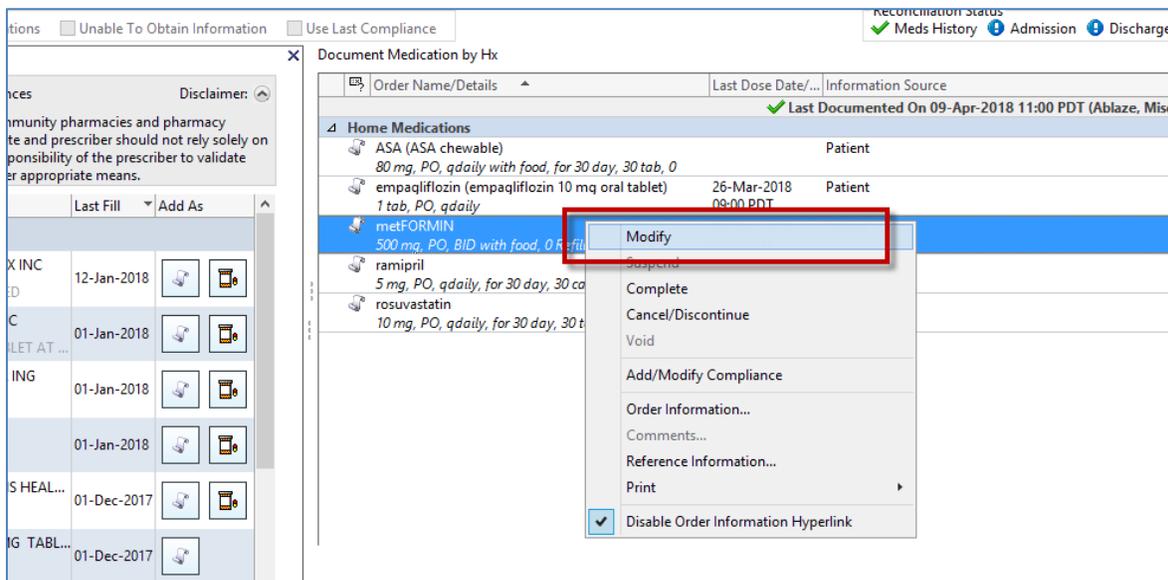
In the patient interview, you confirm they are following the updated **PharmaNet** directions (metformin 500mg, 2 tablets BID).



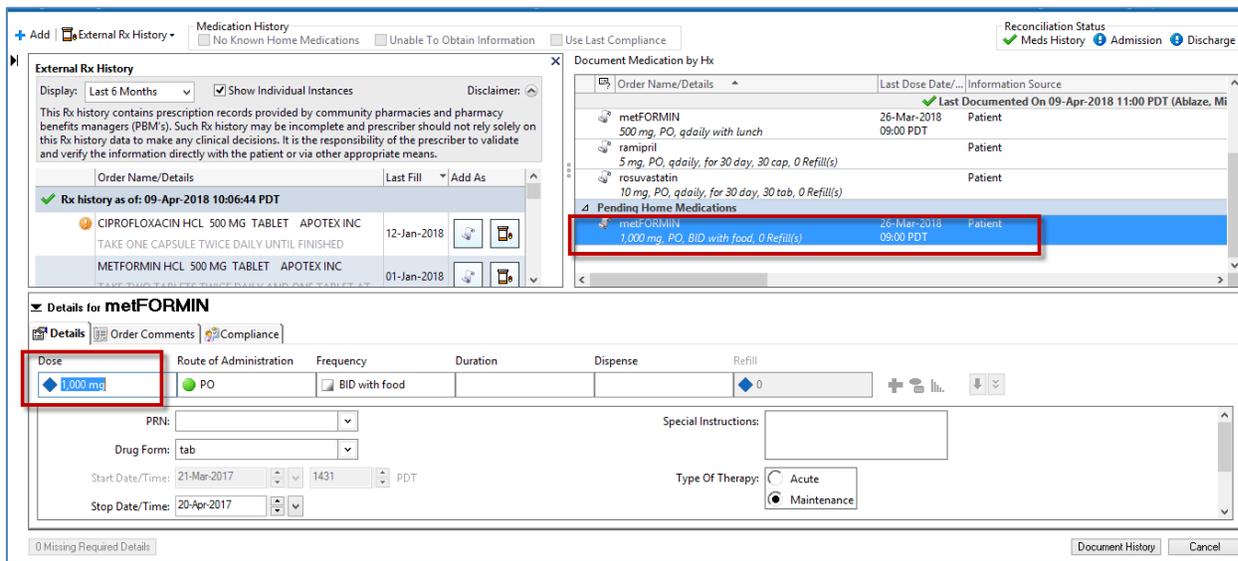
The screenshot shows a 'Document Medication by Hx' window for patient BILKERS, EMIGRATES. It includes fields for DOB, MRN, Code Status, Process, Disease, Isolation, Location, and Emergency Type. Below these are checkboxes for 'External Rx History' and 'Medication History'. The 'External Rx History' window is open, showing a list of medications with columns for 'Order Name/Details', 'Last Fill', and 'Add As'. A red box highlights the entry for 'METFORMIN HCL 500 MG TABLET APOTEX INC' with instructions 'TAKE TWO TABLETS TWICE DAILY'. The 'Home Medications' list on the right shows a red box around the entry for 'metFORMIN 500 mg, PO, BID with food, 0 Refill(s)'.

### Metformin 500 mg, PO, BID

1. Right-click on the metformin 500 mg, PO, BID with food and select **Modify**



- The medication appears under the Pending Home Medications header and the **Details** tab will appear at the bottom half of the screen.
- In the Details tab, change the dose from 500 mg to 1,000 mg.



**IMPORTANT:** When modifying a documented home medication, only **Dose** and/or **Frequency** should be modified.

- Document compliance and complete Last dose date/time.
- Click Document History when complete.

## Completing Medications found in the CIS

In this example, the External Rx History on the left hand side of the screen displays Glyburide 5mg tablet take one tablet twice daily with food is preceded with the status indicator (Discontinued). After confirming during the patient interview that the patient no longer takes the medication, you will mark this existing medication in the CIS as **Complete** to remove it from the Documented Medication by History.

The screenshot shows the 'Document Medication by Hx' interface for patient BILKERS, EMIGRATES. The 'External Rx History' panel on the left lists several medications, including '(Discontinued) GLYBURIDE 5 MG TABLET SANIS HEAL...'. The 'Document Medication by Hx' panel on the right shows the 'Home Medications' list, where the Glyburide 5 mg medication is highlighted. A context menu is open over this medication, and the 'Complete' option is selected and highlighted with a red box.

### Glyburide 5 mg, PO, BID

1. Right-click the Glyburide 5 mg medication under the Home Medications header and select Complete.



**IMPORTANT: DO NOT USE** the Cancel/Discontinue action. This has implications on how the information will display in the patient's discharge summary.

2. Glyburide 5 mg PO BID now appears with a strikethrough line under the Pending Medications header.

The screenshot shows the 'Document Medication by Hx' interface after the completion action. The 'External Rx History' panel remains the same. In the 'Document Medication by Hx' panel, the 'Pending Home Medications' section is highlighted, and the Glyburide 5 mg medication is listed with a strikethrough line through its name. A red box highlights this entry.

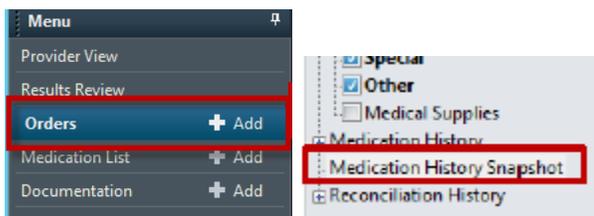
3. Click Document History to save the changes.
4. The medication will be removed from the BPMH.

## Reviewing Medication History Snapshot

The Medication History Snapshot is recorded each time there is a change documented in the medication history. This allows previously documented medication history to be viewed at any time. Inpatient and ambulatory in-office medications are not included in the snapshot.

For example, one month ago, your patient was seen in the Pre-Admission Clinic and BPMH was documented. Today, your patient is in the pre-operative area and you need to review their medications.

1. Navigate to the **Orders** page from the Menu and the **Medication List** tab to view.



The Medication History Snapshot will provide you with a view of all medications across all your patient's encounters. You can filter the timeframe by clicking the buttons: This Visit, 6 Months, 1 Year and All Visits. The default timeframe is for This Visit.



The medications are arranged by encounter date. The snapshots are sorted in reverse chronological in each timeframe. Individual medications within the snapshots are sorted alphabetically. The 3 most recent snapshots will default expanded for each view.



**NOTE:** Use the black arrow  to expand or white arrow  to collapse your view.



This view includes all the medication names, when they were last updated, Compliance Status and Status. You can select a medication from an expanded snapshot and all other instances of the selected medication will be highlighted in other expanded snapshots.

Orders

Full screen Print 1 minutes ago

Reconciliation Status  
 Meds History  Admission  Outpatient

Orders Medication List Document In Plan

View

- Orders for Signature
- ONC BR BRAVGEMP (Started)
- ONC BR BRAVGEMP (Started)
- Plans
- Document In Plan
- Suggested Plans (0)
- Orders
- Medication History
- Medication History Snapshot**
- Reconciliation History

Expand All Collapse All

This Visit 6 Months 1 Year All Visits

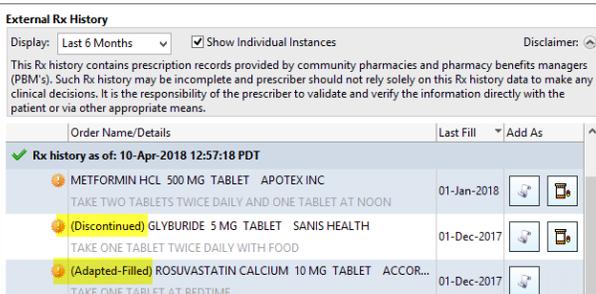
Medication History Snapshot

Order Name/Details	Last Updated	Compliance Status	Status
06-Apr-2018 16:29 PDT - Ablaze, Misdeed, RPh			✓ Meds History
ALPRAZolam (Xanax 1 mg oral tablet) 2 tab, PO, TID, 30 tab, 0 Refill(s)	20-Jul-2017 14:46 PDT		Prescribed
atenolol 25 mg, PO, BID, for 30 day, 60 tab, 0 Refill(s)	20-Jul-2017 14:46 PDT		Prescribed
furosemide 40 mg, PO, qdaily, for 30 day, 60 tab, 0 Refill(s)	30-Nov-2017 17:16 PST		Documented
ledipasvir-sofosbuvir (ledipasvir-sofosbuvir 90 mg-400 mg tab) 1 tab, P...	15-Nov-2017 14:43 PST		Documented
lithium (lithium 600 mg oral capsule) 1 cap, PO, qAM, 0 Refill(s)	05-Jul-2017 13:19 PDT		Documented
lithium (lithium 600 mg oral capsule) 1 cap, PO, qHS, 0 Refill(s)	05-Jul-2017 13:19 PDT		Documented
metFORMIN 250 mg, PO, TID with food	06-Apr-2018 16:29 PDT	Taking as prescribed	Documented
metoprolol (Apo Metoprolol (Type L) 50 mg oral tablet) 1 tab, PO, BID, 1...	30-Nov-2017 11:24 PST		Prescribed
30-Nov-2017 11:24 PST - TestMM, GeneralMedicine-Physician10, MD			📌 Meds History
non-formulary medication (ginseng) 100 mg, PO, qdaily, 200 cap, 0 Refi...	31-Oct-2017 15:45 PDT		Prescribed
Other Prescription (crutches) See Instructions, nwb injured leg, 1 packag...	20-Jul-2017 13:35 PDT		Prescribed
QUETiapine (SEROquel 100 mg oral tablet) 1 tab, PO, TID, 0 Refill(s)	23-Nov-2017 15:34 PST		Documented
QUETiapine (SEROquel 200 mg oral tablet) 1 tab, PO, BID, 0 Refill(s)	23-Nov-2017 15:33 PST		Documented
ramipril (ramipril 2.5 mg oral capsule) 1 cap, PO, qdaily, 30 cap, 0 Refill(s)	12-Apr-2017 13:53 PDT		Prescribed
05-Mar-2018 12:52 PST - TestMM, Emergency-Physician6, MD			
05-Mar-2018 12:48 PST - TestMM, Emergency-Physician6, MD			
30-Nov-2017 17:16 PST - TestMM, Pharmacist-PharmNet10, RPh			
30-Nov-2017 12:04 PST - TestMM, Pharmacist-PharmNet10, RPh			
30-Nov-2017 11:56 PST - TestMM, Pharmacist-PharmNet10, RPh			
30-Nov-2017 11:24 PST - TestMM, GeneralMedicine-Physician10, MD			
23-Nov-2017 15:34 PST - TestUser, PharmacistSupervisor-PharmNet, RPh			
23-Nov-2017 15:33 PST - TestUser, PharmacistSupervisor-PharmNet, RPh			
23-Nov-2017 14:59 PST - TestUser, PharmacistSupervisor-PharmNet, RPh			
23-Nov-2017 14:31 PST - TestUser, PharmacistSupervisor-PharmNet, RPh			
15-Nov-2017 14:43 PST - TestMM, PharmacyTechnician-PharmNet10			
10-Nov-2017 09:29 PST - TestMM, Pharmacist-PharmNet10, RPh			
31-Oct-2017 15:45 PDT - Wang, John			
27-Oct-2017 13:47 PDT - TestMM, Nurse10			

## Key Points to Remember

	<p><b>DO NOT USE</b> the buttons under the Add As column in the <b>PharmaNet</b> profile.</p>
	<p><b>DO NOT USE</b> the Cancel/Discontinue action on the medications in the Document Medication by Hx list (BPMH list).</p>
	<p>During the interview, confirm and document the medications <b>as the patient states they are taking them.</b></p>

## Appendix

<h3>List of Medication Statuses available on PharmaNet Profile</h3>	
	
<p>Filled</p>	<p>The prescription has been filled; medication was dispensed. This will not display in the CIS.</p>
<p>Not Filled</p>	<p>The prescription has not been filled due to a refusal to fill; medication was not dispensed</p>
<p>Discontinued</p>	<p>The prescription has been discontinued; medication was previously dispensed, but the patient should no longer be taking the medication</p>
<p>Reversed</p>	<p>The prescription has been reversed with an intervention code other than “Data Entry Error” (RE); Medication was not dispensed</p>
<p>Adapted Rx and Filled</p>	<p>The prescription has been adapted by a pharmacist then filled; medication was dispensed</p>
<p>Adapted Rx and Not Filled</p>	<p>The prescription has been adapted by a pharmacist and not filled due to a refusal to fill; medication was not dispensed.</p>

## Related Topics

- Medication History
- Medication Reconciliation
- PharmaNet Integration

## Related Positions

- Providers
- Pharmacists
- Nurses
- Pharmacy Technicians
- Residents
- Medical Students

## Key Words

- BPMH
- PharmaNet
- Medication History
- Home Medications