

Casting a Wide Net: Integrating Home Medications into an EHR

eHealth 2016

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Agenda

- Introductions
- Project Overview
- History of PharmaNet in Island Health
- Overview of the Process
- Issues and Challenges
- Auditing and Metrics
- Next Steps
- Questions

Oceanside Health Centre



Macro Geography Boundaries

Macro Geography 1:

- LHA 71 - Courtenay
- LHA 72 - Campbell River
- LHA 84 - Vancouver Island West
- LHA 85 - Vancouver Island North

Macro Geography 2:

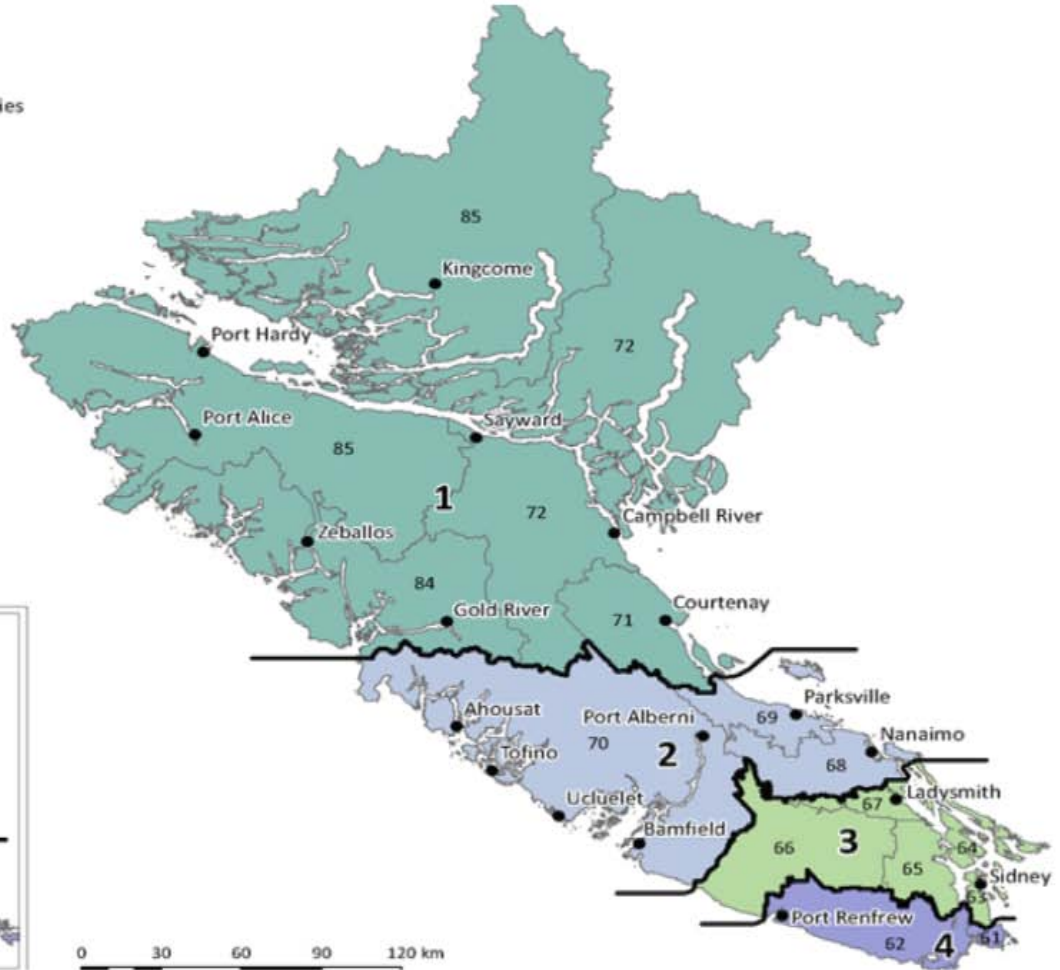
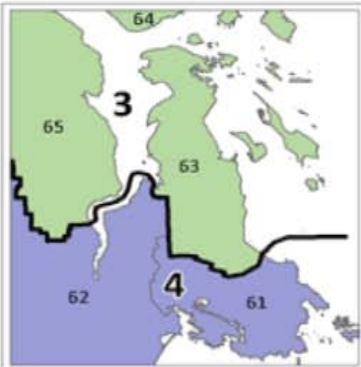
- LHA 68 - Nanaimo
- LHA 69 - Qualicum
- LHA 70 - Alberni

Macro Geography 3:

- LHA 63 - Saanich
- LHA 64 - Gulf Islands
- LHA 65 - Cowichan
- LHA 66 - Lake Cowichan
- LHA 67 - Ladysmith

Macro Geography 4:

- LHA 61 - Greater Victoria
- LHA 62 - Sooke



Important Dates

- September 16, 2013 – Go Live of Oceanside Health Centre with Closed Loop Med Admin, including electronic Home Med Documentation and Prescription Writer
- January 28, 2015 – Go Live of PharmaNet Integration Pilot
- January 12, 2016 – Expansion of Pilot to include Nurse Practitioners
- March 28, 2016 – Expansion of Pilot to NRGH Campus

What is BC PharmaNet?

- Province-wide network BC pharmacies
- Community & hospital pharmacies, emergency departments, medical practices
- Demographic information, allergies & clinical conditions*
- Adjudication system for prescriptions
- Prescription medications
- Non-prescription medications*

<http://www2.gov.bc.ca/gov/content/health/health-drug-coverage/pharmacare-for-bc-residents/pharmanet>

What is BC PharmaNet?

- What medications are not on PharmaNet:
 - Inpatient
 - Chemotherapy
 - HIV/AIDS
 - Transplant
 - Renal Dialysis
 - Samples

<http://www2.gov.bc.ca/gov/content/health/health-drug-coverage/pharmacare-for-bc-residents/pharmanet>

History in Island Health

- PIS in Pharmacy
 - View and transmission
- MediNet in ED and Pharmacy
 - View only
- PharmaNet Viewer
 - View only
- PharmaNet Integration External Rx History
 - Import to BPMH

Read Only Access to PharmaNet

Pathnet, Tanyas Female 59 Y CERNER: Pathnet, Tanyas DOB: 1955-MAY-01 PHN#: 9030146429
 PharmaNet: PATHNET, TANYA DOB: 1955-MAY-01 PHN#: 0009030146429

Patient Demographics

Cerner Patient Information

| | | | | | | | |
|--------|-----------------|-----|------------|---------------------|------------|----------------|--------------------------------------|
| Name | Pathnet, Tanyas | PHN | 9030146429 | Phone Number (Home) | 6045551234 | Address (Home) | 702-1234 MAIN ST Vancouver B8X3X3 |
| Gender | | DOB | | | | | |

Last 15 Dispensed

Medications

| Dispense Date | Quantity | Medication | Manufacturer | Dispense Location |
|---------------|----------|-------------------------------------|--------------|-------------------|
| 2016-JAN-08 | 12.0 | ETHCHLORVYNOL 200 MG CAPSULE | ABBOTT LABS | HEATHCOTE |
| 2015-NOV-08 | 12.0 | ETHCHLORVYNOL 200 MG CAPSULE | ABBOTT LABS | HEATHCOTE |
| 2015-JUN-06 | 100.0 | ETHCHLORVYNOL 200 MG CAPSULE | ABBOTT LABS | ASHMORE |
| 2015-JAN-15 | 900.0 | CASTOR OIL OIL | LAB ATLAS | OBERDECK |
| 2015-JAN-14 | 900.0 | OPIMUM TINCTURE 10 MG/ML TINCTURE | LAB ATLAS | OBERDECK |
| 2015-JAN-13 | 900.0 | ZINC SALICYLATE/CAMPHOR LOTION | LAB ATLAS | OBERDECK |
| 2015-JAN-12 | 900.0 | OPIMUM TINCTURE 10 MG/ML TINCTURE | LAB ATLAS | OBERDECK |
| 2015-JAN-11 | 900.0 | POTASSIUM IODIDE/IODINE 5% SOLUTION | LAB ATLAS | OBERDECK |
| 2015-JAN-10 | 900.0 | SODIUM BICARBONATE 300 MG TABLET | LAB ATLAS | OBERDECK |
| 2015-JAN-09 | 900.0 | CETRIMIDE 0.5% CREAM (G) | AYERST LABS | OBERDECK |

Dispense History (14 months)

Medications (18 found)

| Dispense Date | Quantity | Medication | Manufacturer | Dispense Location |
|---------------|----------|-------------------------------------|--------------|-------------------|
| 2016-JAN-08 | 12.0 | ETHCHLORVYNOL 200 MG CAPSULE | ABBOTT LABS | HEATHCOTE |
| 2015-NOV-08 | 12.0 | ETHCHLORVYNOL 200 MG CAPSULE | ABBOTT LABS | HEATHCOTE |
| 2015-JUN-06 | 100.0 | ETHCHLORVYNOL 200 MG CAPSULE | ABBOTT LABS | ASHMORE |
| 2015-JAN-15 | 900.0 | CASTOR OIL OIL | LAB ATLAS | OBERDECK |
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| 2015-JAN-10 | 900.0 | SODIUM BICARBONATE 300 MG TABLET | LAB ATLAS | OBERDECK |
| 2015-JAN-09 | 900.0 | CETRIMIDE 0.5% CREAM (G) | AYERST LABS | OBERDECK |

Adverse Reactions

| Reaction | Location |
|-----------------------------------|-------------------|
| ETHCHLORVYNOL 200 MG CAPSULE | ABBOTT LABS (19) |
| OPIMUM TINCTURE 10 MG/ML TINCTURE | LAB ATLAS (50830) |

Conditions

| Condition |
|--------------|
| DEPRESSION C |



BPMH integrating SureScripts



Acute

Millennium

Primary Care

ePrescribing Hub

Receive

Validate

Send

200 MILLION PATIENT RECORDS MATCH USING:

- First Name
- Last Name
- DOB
- Gender
- Postal Code

Medication History Sources

Pharmacy

Payers Claims

Request

Request

Request

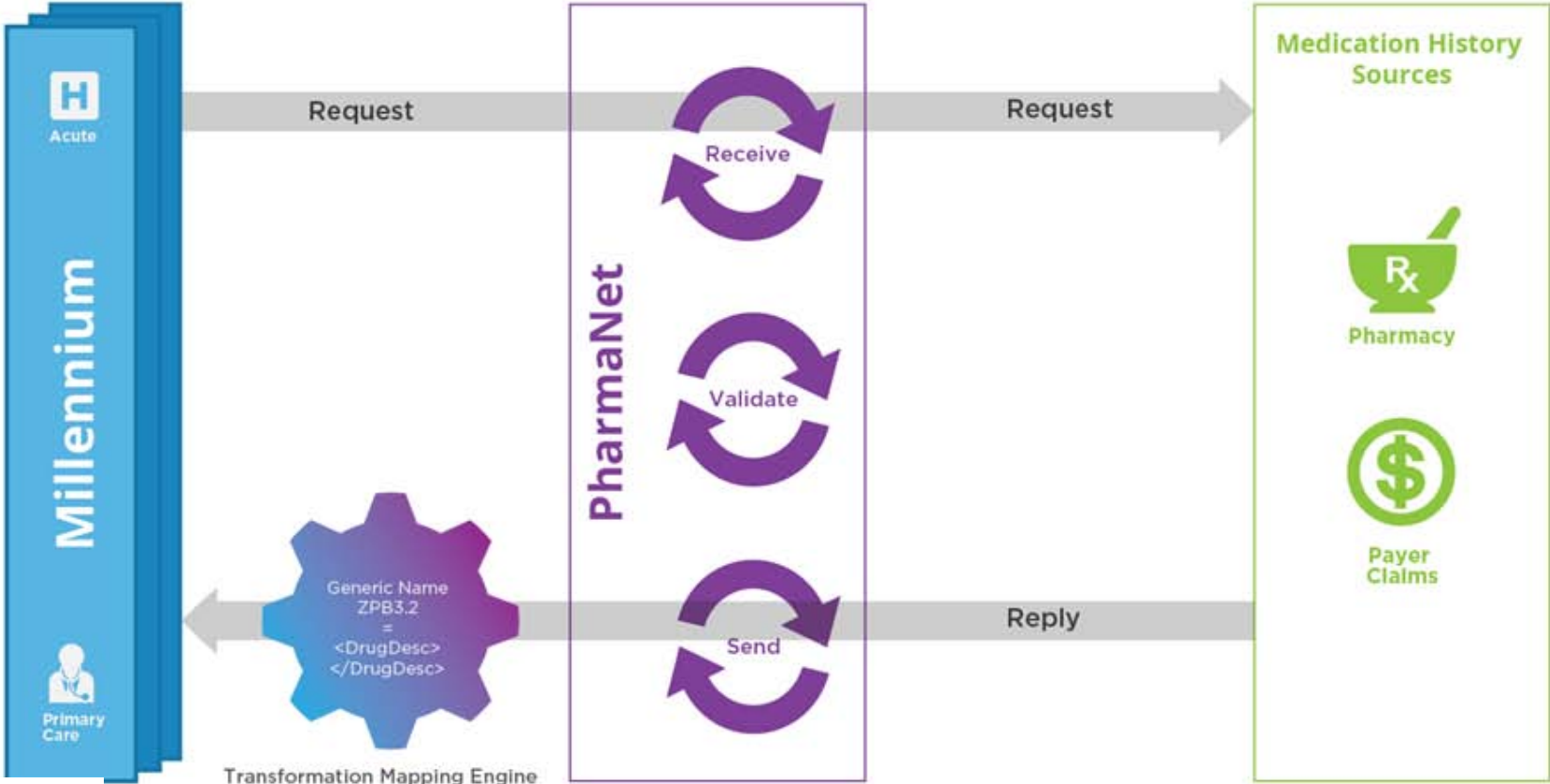
Reply

Reply

Reply

BPMH integrating PharmaNet

Physician Orders Medication History Services Med Hx Sources



PharmaNet - Patient Demographics

Citrix Desktop

External Rx History

You are connected to a non-production environment.(D)

Divoky, AZ Female 77 Y
9147081439 1937-FEB-14

By selecting 'Continue' you agree that accessing the patient's PharmaNet record is to provide patient care.

Confirm PharmaNet Patient Demographics

DIVOKY, A Z
77y F DOB: 1937-Feb-14
PHN: 0009147081439
Phone Number: Home (604) 1234567
Address: 4402 DOMINION GARDENS RD
VANCOUVER, BC V5T2S5
CAN

Local Patient

Divoky, AZ
77y Female DOB: 1937-Feb-14
PHN: 9147081439
Phone Number: (Home) 6041234567
Address: 4402 DOMINION GARDENS RD
Vancouver V5T2S5

Continue Cancel

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PharmaNet - Adverse Reactions and Conditions

Citrix Desktop

External Rx History

You are connected to a non-production environment.(D)

Divoky, AZ Female 77 Y
9147081439 1937-FEB-14

Allergies and Problems documented in PharmaNet will not be imported into the local patient chart.

Review PharmaNet Patient Profile

| Adverse Reactions | | Conditions | |
|--|--------|--|---------|
| ERYTHROMYCIN STEARATE ABBOTT LABS 125 MG/5MLORAL SUSP null | 302 | TEST CLINICAL CONDITION ADD ON A MERGED PHN OPTIONAL COMMENT TESTING 22093, TAKE 4 | Chronic |
| ANILERIDINE HCL UNKNOWN 25 MG TABLET TEST TEST | 10014 | TESTING 22093, TAKE 3 | |
| WARFARIN SODIUM UNKNOWN 5 MG TABLET COMMENTS - IDENTIFIED 020202/LOGGED020402 | 10308 | TESTING 22093, TAKE 2 | |
| PENICILLIN V POTASSIUM NOVOPHARM LTD 300 MG TABLET null | 21202 | TESTING 22093 | |
| HYDROCHLOROTHIAZIDE NOVOPHARM LTD 25 MG TABLET null | 21474 | THIS IS A NEW CLINICAL ADD THIS IS AN OPTIONAL COMMENT | Chronic |
| PENICILLIN G POTASSIUM NOVOPHARM LTD 312.5MG TABLET null | 151432 | TEST NUMBER ... TESTING DOWN 5 COMMENT FOR DOWN 5 DOWN CLINICAL CONDITION 2 COMMENT FOR DOWN CONDITION2 TEST DOWN CONDITION THIS IS A DOWN COMMENT TEST TESTING TEST | |
| SULFAMETHOXAZOLE/TRIMETHOPRIM HOFFMANN-LA RO 400MG-80MGTABLET null | 272469 | LIKES SHOES 2 | |
| DIAZEPAM APOTEX INC 5 MG TABLET null | 362158 | ACHALASIA A DIAB M. INSUL. DEP TYPE II | |
| SULFAMETHOXAZOLE/TRIMETHOPRIM APOTEX INC 400MG-80MGTABLET null | 445274 | | |
| CEFACLOR PHARMEL INC 250 MG CAPSULE null | 465186 | | |
| ACETAMINOPHEN APOTEX INC 325 MG TABLET TEST | 544981 | | |
| ERYTHROMYCIN STEARATE APOTEX INC 250 MG TABLET COMMENT TEXT FOR TPI ADVERSE REACTION ADDITION TEST WHICH IS 80 CHARACTERS LONG. | 545678 | | |
| ISOTRETINOIN HOFFMANN-LA RO 40 MG CAPSULE null | 582352 | | |
| ILTIAZEM HCL MARION MERR DO 60 MG TABLET | 587761 | | |

[Only Medications](#)

Previous Continue Cancel

External Rx History: View

Citrix Desktop

External Rx History

Divokv, AZ
Encounter Number: 92010614790

Gender: Female
MRN: 18701094

Age: 77 years
DOB: 14-Feb-1937

Loc: 3SW-R; S315; A
**** Allergies ****

DISCLAIMER: ⤴
This Rx history contains prescription records provided by community pharmacies and pharmacy benefits managers (PBM's). Such Rx history may be incomplete and prescriber should not rely solely on this Rx history data to make any clinical decisions. It is the responsibility of the prescriber to validate and verify the information directly with the patient or via other appropriate means.

Rx history display: Show individual instances of external Rx medication history.

| \$ | Drug Name | Rx Medication | Date Written | Last Fill | Quantity | SIG |
|--|-------------------------|---|--------------|-------------|--------------------|---------------------------------------|
| Refresh to get latest external medication history. | | | | | | |
| | | ACETAMINOPHEN MCNEIL CONSUME 325 MG TABLET | | 12-Aug-2014 | 1.0 tab | AS DIRECTED |
| | | NAPROXEN AVANSTRA INC. 500 MG TABLET | | 18-Jun-2014 | 30.0 tab | TAKE 1 TABLET 3 TIMES A DAY WITH FOOD |
| | paroxetine | PAROXETINE HCL APOTEX INC 20 MG TABLET | | 29-May-2014 | 5.0 tab | TAKE AS DIRECTED |
| | | METHADONE (MAINTENANCE) 1MG/MLUNKNOWN | | 24-Mar-2014 | 30.0 unknown unit | TAKE AS DIRECTED |
| | acetaminophen | ACETAMINOPHEN MCNEIL CONSUME 500 MG TABLET | | 11-Mar-2014 | 1.0 tab | AS DIRECTED |
| | atorvastatin | ATORVASTATIN CALCIUM PFIZER CANADA 80 MG TABLET | | 11-Mar-2014 | 10.0 tab | AS DIRECTED |
| | | AGRIFLU (RX INJ) UNKNOWN | | | 1.0 unit | AS DIRECTED |
| | furosemide | FUROSEMIDE APOTEX INC 20 MG TABLET | | 20-Feb-2014 | 30.0 tab | AS DIRECTED |
| | enalapril | ENALAPRIL MALEATE APOTEX INC 5 MG TABLET | | 18-Feb-2014 | 17.0 tab | AS DIRECTED |
| | gemfibrozil | GEMFIBROZIL ALTIMED PHARM 600 MG TABLET | | 01-Aug-2013 | 31.0 tab | TAKE 1 TABLET ONCE A DAY |
| | atenolol-chlorthalidone | ATENOLOL/CHLORTHALIDONE APOTEX INC 50 MG-25MGTABLET | | 21-Jun-2013 | 30.0 tab | AS DIRECTED |
| | morphine | MORPHINE ABBOTT LABS 10MG/ML AMPULE | | 28-Jan-2013 | 900.0 unknown unit | PRESCRIPTION NUMBER 392 |

Show More Medications...

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External Rx History: View

Citrix Desktop

External Rx History

Divokv, AZ Gender: Female Age: 77 years Loc: 3SW-R; S315; A
 Encounter Number: 92010614790 MRN: 18701094 DOB: 14-Feb-1937 **** Allergies ****

DISCLAIMER: This Rx history contains prescription records provided by community pharmacies and pharmacy benefits managers (PBM's). Such Rx history may be incomplete and prescriber should not rely solely on this Rx history data to make any clinical decisions. It is the responsibility of the prescriber to validate and verify the information directly with the patient or via other appropriate means.

Rx history display: All Show individual instances of external Rx medication history.

| \$ | Drug Name | Rx Medication | Date Written | Last Fill | Quantity | SIG |
|---|-------------------------|---|--------------|-------------|--------------------|---------------------------------------|
| Refresh to get latest external medication history. | | | | | | |
| | | ACETAMINOPHEN MCNEIL CONSUME 325 MG TABLET | | 12-Aug-2014 | 1.0 tab | AS DIRECTED |
| | | NAPROXEN AVANSTRA INC. 500 MG TABLET | | 18-Jun-2014 | 30.0 tab | TAKE 1 TABLET 3 TIMES A DAY WITH FOOD |
| | paroxetine | PAROXETINE HCL APOTEX INC 20 MG TABLET | | 29-May-2014 | 5.0 tab | TAKE AS DIRECTED |
| | | METHADONE (MAINTENANCE) 1MG/MLUNKNOWN | | 24-Mar-2014 | 30.0 unknown unit | TAKE AS DIRECTED |
| | acetaminophen | ACETAMINOPHEN MCNEIL CONSUME 500 MG TABLET | | 11-Mar-2014 | 1.0 tab | AS DIRECTED |
| | atorvastatin | ATORVASTATIN CALCIUM PFIZER CANADA 80 MG TABLET | | 11-Mar-2014 | 10.0 tab | AS DIRECTED |
| | | AGRIFLU (RX INJ) UNKNOWN | | 26-Feb-2014 | 1.0 unknown unit | AS DIRECTED |
| | furosemide | FUROSEMIDE APOTEX INC 20 MG TABLET | | 20-Feb-2014 | 30.0 tab | AS DIRECTED |
| | enalapril | ENALAPRIL MALEATE APOTEX INC 5 MG TABLET | | 18-Feb-2014 | 17.0 tab | AS DIRECTED |
| | gemfibrozil | GEMFIBROZIL ALTIMED PHARM 600 MG TABLET | | 01-Aug-2013 | 31.0 tab | TAKE 1 TABLET ONCE A DAY |
| | atenolol-chlorthalidone | ATENOLOL/CHLORThALIDONE APOTEX INC 50 MG TABLET | | | 30.0 tab | AS DIRECTED |
| | morphine | MORPHINE ABBOTT LABS 10MG/ML | | | 900.0 unknown unit | PRESCRIPTION NUMBER 392 |

Order Sentences

Order sentences for: furosemide (furosemide 20 mg oral tablet)

- (None)
- Convert Existing SIG
- 1 tab, Tab, oral, DAILY
- 2 tab, Tab, oral, DAILY**
- 3 tab, Tab, oral, DAILY
- 4 tab, Tab, oral, DAILY

Reset OK Cancel

Show More Medications... Orders for Signature

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Enhanced External Rx History: Side by Side (Import)

Document Medication by Hx

Race: CustomError DOB: 9/1/1968 Discharge DT: Gender: Male Provider:

External Rx History | Rx Plans (0): No Benefit Found |
 Medication History |
 No Known Home Medications |
 Unable To Obtain Information |
 Use Last Compliance |
 Reconciliation Status: Meds History | Discharge

External Rx History

Display: Last 12 Months Show Individual Instances Disclaimer:

| Order Name/Details | Last Fill | Add As |
|--|-----------|--------|
| WARFARIN SODIUM 5 MG TABLET BRR TAKE 1 TABLET DAILY ALTERNATING WITH 1/2 TABLET EVERY OT... | 7/4/2013 | |
| VITAMIN D 50,000 UNITS SOFTPLI TAKE 1 CAPSULE WEEKLY AS DIRECTED | 7/4/2013 | |
| VIAGRA 25 MG TABLET PFI TAKE 1 TABLET 3 TIMES A DAY | 7/4/2013 | |
| VIAGRA 25 MG TABLET PFI TAKE 1 TABLET 3 TIMES A DAY | 7/4/2013 | |
| PROTONIX 40 MG TABLET EC WYE TAKE 1 TABLET EVERY DAY | 7/4/2013 | |
| PREDNISONE 5 MG TABLET WAT | | |

| Order Name/Details | Last Dose Date/Time | Information Source | Compliance |
|---|---------------------|--------------------|------------|
| Home Medications | | | |
| captopril (primary) (captopril 25 mg oral tablet) 2 tab(s), PO, BID, 60 tab(s) | | | |
| atorvastatin (Lipitor 40 mg oral tablet) 12/10/13 13:20:31 CST | | | |
| tramadol (tramadol 50 mg oral tablet) | | | |
| Pending Home Medications | | | |
| warfarin (warfarin 5 mg oral tablet) | | | |
| pantoprazole (Protonix 40 mg oral enteric co... | | | |

Details for warfarin (warfarin 5 mg oral tablet)

Details | Order Comments | Compliance

| Dose | Route of Administration | Frequency | Duration | Dispense | Refill |
|------------------|-------------------------|-----------|----------|----------|--------|
| See Instructions | | | | | |

Requested Start Date/Time: CST Special Instructions:

Leave Med History Incomplete - Finish Later

Issues and Challenges

- MOH privacy concerns (temp tables)
- “gaps” in data
- Proxy access
- PharmaNet Quality issues
 - Obsolete Drug Identification Number (DINs)
 - Product Identification Number (PINs)
 - Allergy/ADE data
 - Only a dispensing record, not a Medication History

Issues and Challenges

- Different drug databases
- Product to synonym mappings
- Convert Existing SIG
- Lack of Order Sentence Content
- Product-Level Synonyms and downstream impact to Meds Rec
- End user training and adoption

BPMH Process Metrics

Med Hx Taken Every Time

Meets BPMH Guidelines

Timing aligns with service flow

SOURCES



REVIEW **1 or more** of:

- Pill containers
- Patient's list (+ non-Rx)
- Internal record
- External record

PharmNet Integration

Observation

of sources documented per MH
of MHs utilizing PharmaNet

Report

% of encounters where MH performed

INTERVIEW



VERIFY with patient/family:

- Whether taking now
- How much & when

Observation

% MHs where interview conducted

DOCUMENTATION



RECORD all active meds including:

- Relevant items (but not more)
- For each: name, dose, route, frequency in correct data fields

Pharmacy Report (& Audit)

% of relevant PharmaNet items included
% of entries using "Convert Existing SIG"
% of entries with missing medication details
% of entries citing non-formulary drugs

Time Motion

Avg. time to complete a BPMH
Proxy: Facility flow metrics

Is it a BPMH?

Auditing and Metrics

What we can measure:

- ▢ Number of patient encounters that have had a BPMH electronically documented
- ▢ Number of Home Meds documented
- ▢ “Completeness” of Home Med documentation (Name, Dose, Route, Frequency, PRN Reason)

What we cannot measure:

- ▢ Number/percentage of Home Medications that were imported from PharmaNet
- ▢ Quality improvement in the Home Med documentation

Conclusions

Is BPMH being performed for more patients?

- No, about the same
- No sustained improvement in the number of patient encounters with a BPMH performed in the first 10 months of 2015 vs same period 2014

Are more Home Medications being documented?

- Yes, about 88% more Home Meds are being entered per month (2,200/month vs 1,200/month pre PharmaNet Integration).

Is the Home Medication Documentation more complete?

- About the same. More complete information available likely offset by “Convert Existing SIG” utilization.

Next Steps

- Expanded pilot at NRGH
- Infoway Project
- Further analysis and steps to improve end user adoption, system usability, and benefits evaluation

Thank You



Contact Information

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douglas.arndt@viha.ca

Marcy Hein - Medical Informaticist
marcia.hein@viha.ca

Example Auditing

logging

```
/13 15:56:01.360|Incrementing pending connections count for Socket 172: post-increment count 1.
/13 15:56:01.406|Started thread to handle HL7Xfer connection from IP Address 0.0.0.0 on Socket 172
/13 15:56:01.516|=====
/13 15:56:01.516|Accepting Connection from IP Address 10.193.236.88 on Socket 172
/13 15:56:01.766|Received HL7 Message (MSH segment only) on Socket 172:
/13 15:56:01.766|   MSH|^~\&|CERN-PNVA|BC01300622|PNP|HAP|2015/01/13
1|HPATEL|ZPN|1|T|2.1
/13 15:56:01.766|Received SI Data on Socket 172:
/13 15:56:01.766|   Version: A
/13 15:56:01.766|   Computer Name: VICHAP04
/13 15:56:01.766|   IP Address: 10.193.236.88
/13 15:56:02.938|Decrementing pending connection count for socket 172: pre-decrement count 1.
/13 15:56:02.938|Received HL7 Response on Socket 172:
/13 15:56:02.938|   MSH|^~\&|CERN-PNVA|BC01300622|CERN-PNVA|BC01300622|2015/01/13
1|HPATEL|ZPN|000001|T|2.1|
/13 15:56:02.938|Closing Connection from IP Address 10.193.236.88 on Socket 172
```

net Viewer Audit Logging

```
-15 09:02:25.428|AuditMessage|PnQueryService|P2RN|10.125.33.211|hnclient-query|VICHAP04|CERT|7
it/02897 ptnt:TchaderjianJHN/BC/9029817037 reason:(unavailable)|OK; found 1
-15 09:02:25.428|AuditMessage|DemographicsAction|P2RN|10.125.33.211|demographics-
/ICHAP04|CERT|10324009|OK
-15 09:02:25.428|AuditMessage|DemographicsAction|P2RN|10.125.33.211|launch-by-signed-
iAP04|CERT|null|OK; found 1
-15 09:02:41.209|AuditMessage|ReactionsAndConditionsAction|P2RN|10.125.33.211|declare-access-
VICHAP04|CERT|Provide Patient Care|OK
-15 09:02:41.881|AuditMessage|PnQueryService|P2RN|10.125.33.211|hnclient-query|VICHAP04|CERT|7
it/02897 ptnt:TchaderjianJHN/BC/9029817037 reason:Provide_Patient_Care|OK; found 1
-15 09:02:41.944|AuditMessage|ReactionsAndConditionsAction|P2RN|10.125.33.211|med-history-add-
/ICHAP04|CERT|PENDING|true
-15 09:02:41.944|AuditMessage|ReactionsAndConditionsAction|P2RN|10.125.33.211|reactionsAndCondi
/ICHAP04|CERT|null|OK; found 0 reactions and 0 conditions.
-15 09:02:46.725|AuditMessage|PnQueryService|P2RN|10.125.33.211|hnclient-query|VICHAP04|CERT|7
it/02897 ptnt:TchaderjianJHN/BC/9029817037 reason:Provide_Patient_Care|OK; found 1
-15 09:02:46.772|AuditMessage|MedicationsAction|P2RN|10.125.33.211|med-history-add-
/ICHAP04|CERT|PENDING|
-15 09:02:46.772|AuditMessage|MedicationsAction|P2RN|10.125.33.211|medications-
/ICHAP04|CERT|null|OK; found 523 prescriptions.
```

net Viewer Error Logging

```
5 8:48:12:151 PST| 00000d7 Parser | ca.uhn.log.HapiLogImpl info Instantiating msg of class
i7v2.model.v23.message.ZZZ_ZPN
5 8:48:12:323 PST| 00000d7 ServletWrapper | SRVE0242|: [pnva-viewer-ear] [/pnva]
page/demographics.jsp): Initialization successful.
5 8:48:14:573 PST| 00000d7 SystemOut | O demographics.jsp - top
5 8:48:15:652 PST| 00000d7 ServletWrapper | SRVE0242|: [pnva-viewer-ear] [/pnva] [/scripts/mainscripts.]
tion successful.
```

- * HNClient built-in logging
- * PharmaNet Viewer audit logging
- * PharmaNet Viewer error logging
- * Si_manager logs
- * FSI/Orders logs
- * Med History Audit Service