



OUTPATIENT PHARMACY

TECHNICIAN'S USER MANUAL

Version 7.0
December 1997

(Revised April 2011)

Revision History

Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. If the Revised Pages column lists “All,” replace the existing manual with the reissued manual. If the Revised Pages column lists individual entries (e.g., 25, 32), either update the existing manual with the Change Pages Document or print the entire new manual.

Date	Revised Pages	Patch Number	Description
04/2011	i v, vi 4 5 8 21 22 24 25-26r 27 28-28b 29-29ff 50 54 75 77-78 79-84 85	PSO*7*251	The following changes are included in this patch: -Updated Revision History -Updated Table of Contents -Outpatient List Manager Screen Views -Added HP and H to Hold Status, and Added DF,DE,DP,DD and DA -Added Intervention menu hidden action information -Added DF,DE,DP,DD and DA, and Added HP and H to Hold Status -Replaced Medication Short Profile -Added Intervention menu hidden action information -Inserted enhanced Order checks, Outpatient Pharmacy generated order checks -Added IN to Screen Scrape -Modified New Order Screen Scrape -Updated Entering a New Order,Added Allergy/ADR, Therapeutic Duplication,and CPRS Order Checks -Duplicate Drug examples -Duplicate Drug examples -CPRS Order Checks – How They Work -Error Messages -Added API, DATUP, DIF, DoD, ETC, FDB, HDR-Hx, and HDR-IMS to the Glossary, and updated page numbering -Updated Index to include Enhanced Drug-Drug Interactions, Duplicate Drug Order Check, Allergy/ADR Order Check Display, Therapeutic Duplication, and CPRS Order Checks, and updated page numbering (H. Whitney, Developer, S. Heiress, Tech Writer)
10/09	v, 11, 21-23, 61, 81	PSO*7*326	The Social Security Number was removed from print outs given to patients. The patient lookup has been expanded to include the ability to look up by prescription number or wand a barcode with the prescription from many options. (E. Wright, PM; S. B. Gilbert, Tech Writer)

Date	Revised Pages	Patch Number	Description
08/09	All	PSO*7*320	<p>The following changes are included in this patch.</p> <ul style="list-style-type: none"> • Remote Data prompt, notification, and screen have been added. • A hidden action, DR [Display Remote], has been added. • "THIS PATIENT HAS PRESCRIPTIONS AT OTHER FACILITIES" prints at the end of the Pull Early from Suspense report. <p>(G. Tucker, PM; S. B. Scudder, Tech Writer)</p>

Preface

This user manual describes the functional characteristics of Outpatient Pharmacy V. 7.0. It is intended for pharmacists and technicians who are familiar with the functioning of Outpatient Pharmacy in a VA Medical Center.

(This page included for two-sided copying.)

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Chapter 2: List Manager

The screen displayed when processing an order has changed dramatically from the previous version of Outpatient Pharmacy (e.g., v. 6.0). The new screen was designed using List Manager.

This new screen gives more information and easier accessibility to vital reports and areas of a patient's chart.

Please take the time to read over the explanation of the screen and the actions that can now be executed at the touch of a key. This type of preparation before attempting to use List Manager will reduce the time and effort needed to become skilled in order processing with this new version of List Manager.

Outpatient List Manager

Allergy Indicator

The screenshot shows a terminal-style interface with the following sections:

- Screen Title:** Patient Information Feb 09, 2006 16:31:03 Page: 1 of 2
- Header Area:**
 - OPPATIENT17, ONE
 - PID: 000-12-3456 Ht (cm): 175.26 (08/06/2000)
 - DOB: AUG 30,1948 (57) Wt (kg): 108.18 (01/14/2006)
 - SEX: MALE
 - +
- List Area (Scrolling region):**
 - Eligibility: SERVICE CONNECTED 50% to 100% SC%: 70
 - RX PATIENT STATUS: SC LESS THAN 50%
 - Disabilities:
 - 1313 TWIN OAKS LANE
 - ANYVILLE HOME PHONE: 555-555-8361
 - ALABAMA 12345 CELL PHONE:
 - Prescription Mail Delivery: Regular Mail WORK PHONE:
- Message Window:** (This label encompasses the scrolling region content)
- Action Area:**
 - Allergies
 - Verified: PEANUTS,
 - + Enter ?? for more actions
 - EA Enter/Edit Allergy/ADR Data PU Patient Record Update
 - DD Detailed Allergy/ADR List EX Exit Patient List
 - Select Action: Quit//

Screen title: The screen title changes according to what type of information List Manager is displaying (e.g., Patient Information, Medication Profile, New OP Order (ROUTINE), etc.).

Allergy indicator: This indicator displays when there has been information entered into the ALLERGY field for the patient. The indicator displays “NO ALLERGY ASSESSMENT” if there is no allergy assessment for the patient.

Header area: The header area is a "fixed" (non-scrollable) area that displays patient information.

List area: (scrolling region) This area scrolls (like the previous version) and displays the information on which action can be taken.

Message window: This section displays a plus (+) sign, minus (-) sign, or informational text (i.e., Enter ?? for more actions). If a plus sign is entered at the action prompt, List Manager will "jump" forward a page. If a minus sign is displayed and entered at the action prompt, List Manager will "jump" back a screen. The plus and minus signs are only valid actions if they are displayed in the message window.

Action area: A list of actions display in this area of the screen. If a double question mark (??) is entered at the "Select Item(s)" prompt, a "hidden" list of additional actions that are available will be displayed. Outpatient Pharmacy hidden actions are displayed with the letters (OP) next to the action.

Example: Showing more Indicators and Definitions

Order Status and CMOP Indicators

Allergy Indicator

Medication Profile May 22, 2006 10:44:56 Page: 1 of 1
 OPPATIENT16, ONE <A>
 PID: 000-24-6802 Ht (cm): 177.80 (02/08/2004)
 DOB: APR 3,1941 (65) Wt (kg): 90.45 (02/08/2004)
 SEX: MALE
 Non-VA Meds on File
 Last entry on 01/13/01

#	RX #	DRUG	QTY	ST	ISSUE DATE	LAST FILL	REF REM	DAY SUP	
-----ACTIVE-----									
1	503902	ACETAMINOPHEN 500MG TAB	60	AT	05-22	05-22	3	30	
2	503886\$	DIGOXIN (LANOXIN) 0.2MG CAP	60	A>	05-07	05-07	5	30	
3	503871\$	HISTOPLASMIN 1ML	1	A	03-14	03-14R	5	30	
4	100002042\$e	NALBUPHINE HCL INJ 10MG/ML	1	A	03-14	03-14	5	30	
5	100002040\$▲	SALICYLIC ACID 40% OINT (OZ)	1	S	03-14	03-17	5	30	
-----DISCONTINUED-----									
6	503881	BACLOFEN 10MG TABS	30	DC	04-07	05-01	2	30	
7	100002020A\$	TIMOLOL 0.25% OPTH SOL 10ML	1	DE	02-03	02-03	5	30	
8	10000205	HALOPERIDOL 20MG TAB	1	DF	02-03	02-03	5	30	
9	8201954	BILAFUMIN .05 MG CAP	1	DP	01-03	03-03	5	30	
10	6041972	RONINPENSATE 15MG SA TAB	1	DD	03-03	04-03	5	30	
11	3012001	PRESTANUS 1% SOL	1	DA	02-03	02-03	5	30	
-----HOLD-----									
12	8251996	VONITRATE CAL 325MG EC TAB	1	HP	02-03	02-03	5	30	
13	100001942	ABDOMINAL PAD 7 1/2 X 8 STERILE	1	H	09-28	09-28	5	30	
-----NON-VERIFIED-----									
14	100002039\$	BACLOFEN 10MG TABS	30	N	03-14	03-14	5	30	
-----PENDING-----									
15	AMPICILLIN 250MG CAP		QTY: 40		ISDT: 05-29		REF: 0		
16	SIMETHICONE 40MG TAB		QTY: 30		ISDT: 05-30		REF: 3		
-----NON-VA MEDS (Not dispensed by VA)-----									
GINKO EXT 1 TAB ONCE A DAY BY MOUTH					Date Documented: 01/13/01				
IBUPROFEN 50MG TAB					Date Documented: 12/10/00				

Enter ?? for more actions

PU Patient Record Update	NO New Order
PI Patient Information	SO Select Order

Select Action: Quit//

All orders are sub-grouped by like statuses and then listed alphabetically within the sub-group.

Order Status: The current status of the order. These statuses include:

- A Active
- S Suspended
- N Non-Verified or Drug Interactions
- HP Placed on hold by provider through CPRS
- H Placed on hold via backdoor Pharmacy
- E Expired
- DA Auto discontinued due to admission
- DP Discontinued by provider through CPRS

The Status column may also reflect the type of Discontinue action performed on the order:

- DF Discontinued due to edit by a provider through CPRS
- DE Discontinued due to edit via backdoor Pharmacy
- DC Discontinued via backdoor Pharmacy
- DD Discontinued due to death



A “B” will be appended to the above statuses if the Bad Address Indicator was set and there was no active temporary address at the time of the last label activity.

CMOP Indicators: There are two separate indicators when the drug in an order is marked for Consolidated Mail Outpatient Pharmacy (CMOP) processing. This indicator is displayed after the Order Status if applicable.

- > Drug for the prescription is marked for CMOP
- T Displayed when the last fill is either in a Transmitted or Retransmitted CMOP state. (This indicator can overwrite the “>” indicator.

Copay Indicator: A “\$” displayed to the right of the prescription number indicates the prescription is copay eligible.

ePharmacy Indicator An ‘e’ displayed to the right of the prescription number indicates that the prescription is electronic third-party billable.

Return to Stock Indicator: An “R” displayed to the right of the Last Fill Date indicates the last fill was returned to stock.

Pending Orders: Any orders entered through Computerized Patient Records System (CPRS), or another outside source, that have not been finished by Outpatient Pharmacy.

Non-VA Meds Orders: Any over the counter (OTC) medications, herbal supplements, medications prescribed by providers outside the VA, and medications prescribed by the VA, but purchased by the patient at an outside pharmacy are displayed here. Non-VA Meds orders cannot be placed or updated in Outpatient Pharmacy. The user can input information about a patient’s use of Non-VA Meds only through CPRS. However, the user can use either CPRS or Outpatient Pharmacy menu options to view Non-VA Meds data in a patient’s medical records.

Third Party Rejects Any prescriptions that are rejected by third-party payers because of Refill Too Soon (code 79) or Drug Utilization Review (DUR - code 88) are displayed in this section.

Example: Showing Rejected Prescriptions

Medication Profile		August 12, 2006@12:35:04		Page: 1 of 1			
OPPATIENT16, ONE				<A>			
PID: 000-24-6802		Ht (cm): 177.80		(02/08/2005)			
DOB: APR 3, 1941 (65)		Wt (kg): 90.45		(02/08/2005)			
SEX: MALE							
#	RX #	DRUG	ISSUE QTY ST	LAST DATE	REF FILL	DAY REM	SUP
-----REFILL TOO SOON/DUR REJECTS (Third Party)-----							
1	51368009\$e	DIGOXIN (LANOXIN) 0.05MG CAP	90 A>	02-16	02-16	3	90
2	51360563e	OXYBUTYNIN CHLORIDE 15MG SA TAB	180 S>	02-15	05-06	0	90
-----ACTIVE-----							
3	100003470e	ABSORBABLE GELATIN FILM	1 A	11-04	11-04	5	31
4	100003461	ACETAMINOPHEN 650MG SUPPOS.	10 A>	11-04	11-04	1	10
5	100003185e	ALBUMIN 25% 50ML	2 A	08-01	08-01	5	5
-----DISCONTINUED-----							
6	100003530	ANALGESIC BALM 1 POUND	1 A	01-08	01-08	3	90
7	100003400	APPLICATORS, COTTON TIP STERILE	10 A	09-23	09-23	5	31
+ Enter ?? for more actions							
PU Patient Record Update		NO New Order					
PI Patient Information		SO Select Order					
Select Action: Next Screen//							

Using List Manager with Outpatient Pharmacy

List Manager is a tool designed so that a list of items can be presented to the user for an action.

For Outpatient Pharmacy, the List Manager does the following:

- Allows the pharmacist or technician to browse through a list of actions
- Allows the pharmacist or technician to take action against those items
- Allows the user to select an action that displays an action or informational profile
- Allows the user to select a different action without leaving an option.



Not all functionality displayed in this section (i.e., hidden and speed actions) is available to pharmacy technicians.

Entering Actions

Actions are entered by typing the name(s), or synonym(s) at the “Select Item(s)” prompt. In addition to the various actions that may be available specific to a particular option, List Manager provides generic actions applicable to any List Manager screen. A double question mark (??) may be entered at the “Select Action” prompt for a list of all actions available. The following is a list of generic List Manager actions with a brief description. The synonym for each action is shown in brackets following the action name. Entering the synonym is the quickest way to select an action. Outpatient Pharmacy hidden actions are displayed with the letters (OP) next to the action.

Action	Description
Next Screen [+]	Move to the next screen (may be shown as a default).
Previous Screen [-]	Move to the previous screen.
Up a Line [UP]	Move up one line.
Down a Line [DN]	Move down one line.
Shift View to Right [>]	Move the screen to the right if the screen width is more than 80 characters.
Shift View to Left [<]	Move the screen to the left if the screen width is more than 80 characters.
First Screen [FS]	Move to the first screen.
Last Screen [LS]	Move to the last screen.

Action	Description
Go to Page [GO]	Move to any selected page in the list.
Re Display Screen [RD]	Redisplay the current.
Print Screen [PS]	Prints the header and the portion of the list currently displayed.
Print List [PL]	Prints the list of entries currently displayed.
Search List [SL]	Finds selected text in list of entries.
Auto Display (On/Off) [ADPL]	Toggles the menu of actions to be displayed/not displayed automatically.
Quit [QU]	Exits the screen (may be shown as a default).

Outpatient Pharmacy Hidden Actions

The Outpatient Pharmacy hidden actions will display with the previous hidden actions once a completed or finished order is selected and a double question mark (??) is entered at the “Select Action” prompt.

The following hidden actions appear on the prescription profile screen and can only be applied to one order at a time.

Action	Description
Activity Logs [AL]	Displays the Activity Logs.
Copy [CO]	Allows the user to copy and edit an order.
DIN	Displays available drug restriction/guideline information for the Dispense Drug and Orderable Item associated with the selected medication order.
Intervention Menu (IN)	Allows a user to enter a new intervention or delete, edit, print and view an existing intervention.
Hold [HD]	Places an order on a hold status.
Other OP Actions [OTH]	Allows the user to choose from the following sub-actions: Progress Note [PN], Action Profile [AP], Print Medication Instructions [MI], Display Orders' Statuses [DO], or Non-VA Meds Report [NV].

Chapter 7: Using the Medication Profile

This chapter describes the Medication Profile, its different formats, and how it can be used in patient care.

Medication Profile

[PSO P]

The Medication Profile displays a profile of all prescriptions on file for a particular patient. The prescription display includes all Non-VA Med orders also. The user may view this information directly on the screen or request it to be printed. The medication profile is available in two formats: short or long.

Medication Profile: Short Format

The short format displays the following information:

- patient name
- last four digits of the patient's SSN
- eligibility
- reactions
- prescription number
- Sig
- quantity
- last fill date
- address
- DOB
- narrative
- prescriptions
- drug name
- status
- issue date
- refills remaining.

The short report format of the fields for Non-VA Med orders include the drug name or orderable item name, dosage, schedule and date documented.

The short format displays the status and or action in an abbreviated form. The following is an explanation of the codes:

Code	Status/Description
A	Active
B	Bad Address Indicated
DF	Discontinued due to edit by a provider through CPRS
DE	Discontinued due to edit via backdoor Pharmacy
DP	Discontinued by provider through CPRS
DC	Discontinued via backdoor Pharmacy
DD	Discontinued due to death
DA	Auto discontinued due to admission
E	Expired
HP	Placed on hold by provider through CPRS
H	Placed on hold via backdoor Pharmacy

Medication Profile: Long Format

The long format displays all information contained on the short format as well as the following additional fields:

- physician's name
- fill date
- dates of refills/partial fills
- whether the prescription was filled at the pharmacy window or by mail
- clerk code
- total allowable refills
- which division filled it

The long report format of the fields for Non-VA Med orders include the start date, CPRS order #, status, documented by, order check(s), override reason, override provider, and statement of explanation.

Example: Medication Profile – Long Format

```
Select PATIENT NAME:   OPPATIENT,ONE      8-5-19      666000777      NO      NSC
VETERAN      OPPATIENT,ONE
WARNING : ** This patient has been flagged with a Bad Address Indicator.
LONG or SHORT: SHORT// LONG
Sort by DATE, CLASS or MEDICATION: DATE// <Enter>

All Medications or Selection (A/S): All// <Enter>
DEVICE: HOME// [Select Print Device]  GENERIC INCOMING TELNET

OPPATIENT,ONE      ID#:      0777
      (TEMP ADDRESS from AUG 28,2006 till (no end date))
LINE1      DOB:      AUG 5,1919
ANYTOWN      PHONE: 555-1212
TEXAS 77379      ELIG:   NSC
CANNOT USE SAFETY CAPS.

WEIGHT(Kg):      HEIGHT(cm):
DISABILITIES:

ALLERGIES:_____

ADVERSE REACTIONS:_____

Enter RETURN to continue or '^' to exit: <Enter>

Outpatient prescriptions are discontinued 72 hours after admission
```

Medication Profile Sorted by ISSUE DATE

```
Rx #: 100001968Ae      Drug: LOPERAMIDE 2MG CAP
SIG: TAKE TWO CAPSULES BY MOUTH EVERY DAY
QTY: 60      # of Refills: 5      Issue/Expr: 12-15-05/06-16-06
Prov: OPPROVIDER16,TWO      Entry By: 10000000013 Filled: 01-14-06 (M)
Last Released:      Original Release:
Refilled: 02-19-04 (M)      Released:
Remarks:
Division: ALBANY (500)      Active      4 Refills Left
```

-----example continues-----

Example: Medication Profile – Long Format (continued)

```
-----  
Non-VA MEDS (Not Dispensed by VA)  
GINKO BILLOBA TAB  
Dosage: 1 TABLET  
Schedule: ONCE A DAY  
Route: MOUTH  
Status: Discontinued (10/08/03)  
Start Date: 09/03/03      CPRS Order #: 12232  
Documented By: OPCLERK21,FOUR on 09/03/03  
Statement of Explanation: Non-VA medication not recommended by VA provider.
```

Example: Medication Profile – Long Format (continued)

```
ACETAMINPHEN 325MG CT  
Dosage: 325MG  
Schedule:  
Route:  
Status: Active  
Start Date: 09/03/03      CPRS Order #: 12234  
Documented By: OPCLERK21,FOUR on 09/03/03  
Statement of Explanation: Non-VA medication recommended by VA provider  
Patient wants to buy from Non-VA pharmacy
```

The Intervention menu hidden action has been included in the Patient Information, the Medication Profile and Detailed Order ListMan screens when utilizing the following options:

- Patient Prescription Processing [PSO LM BACKDOOR ORDERS]
- Complete Orders from OERR [PSO LMOE FINISH]
- Edit Prescriptions [PSO RXEDIT]

See “Using the Pharmacy Intervention Menu” for more details.

Chapter 8: Processing a Prescription

This chapter describes the option and processes used in processing prescriptions.

Patient Prescription Processing

[PSO LM BACKDOOR ORDERS]

The *Patient Prescription Processing* option is used to process outpatient medication orders from OERR V. 3.0. This option uses List Manager features that allow the pharmacy technician to perform the following actions on a prescription without leaving this option.

- Enter a new Rx
- Refill
- Copy (new)
- Renew
- Reprint
- Release
- Order a partial
- Pull early from suspense
- Show a profile
- View activity log (new)

When a new drug order is processed (new, renewal, finish, verify, copy, or an edit that creates a new order), order checks are performed. These include checking for duplicate drug, duplicate drug therapy, drug-drug interaction, and drug-drug allergy.

With the introduction of Enhanced Order Checks (PSO*7*251), Outpatient Pharmacy generated order checks are displayed in this sequence:

- System Errors
- Duplicate Drug
- Clozapine
- Allergy/ADR (local & remote) or Non-Assessment
- CPRS checks generated backdoor (3 new checks)
- Drug Level Errors
- Local & Remote Critical Drug Interactions
- Local & Remote Significant Drug Interactions
- Local & Remote Duplicate Therapy

Additionally, the order check display sequence is applied to the following processes:

- Backdoor new order entry
- Finishing a pending order
- Renewing an outpatient medication order
- Creating a new order when editing an outpatient medication order
- Verifying an outpatient medication order.
- Copying an outpatient medication order
- Reinstating a discontinued outpatient medication order.

There are two levels of error messages associated with Enhanced Order Checking (Drug Interactions and Duplicate Therapy):

1. System - When a system level error occurs, no Drug Interaction or Duplicate Therapy order checks that utilize the COTS database (FDB) will be performed. Other order checks, such as Allergy/ADRs, Duplicate Drug (for outpatient only), and the new CPRS order checks, etc. that are performed entirely within VISTA will continue to be executed.
2. Drug - When a drug level error occurs, no Drug Interaction or Duplicate Therapy order checks will be performed for a specific drug. Drug level errors can occur for the prospective drug (drug being processed) or the profile drug. If a drug level error occurs on the prospective drug, no profile drug errors will be displayed. The only exception to this is when you are processing an IV order with multiple prospective drugs (i.e. multiple IV Additives). Profile drug level errors will only be shown once per patient session.

There are two reasons that a drug level error is generated; the drug is not matched to NDF or the drug is matched to NDF, but the VA Product to which it is matched does not have a GCNSEQNO assigned or the GCNSEQNO assigned does not match up to the GCNSEQNO in the COTS database. The latter (GCNSEQNO mismatch) is rare.

See table below for an explanation of the errors:

Error Level	Error Message	Reason	Why message is being displayed.
System	No Enhanced Order Checks can be performed.	Vendor Database cannot be reached.	The connectivity to the vendor database has gone down. A MailMan message is sent to the G. PSS ORDER CHECKS mail group when the link goes down and when it comes back up.
System	No Enhanced Order Checks can be performed.	The connection to the vendor database has been disabled.	A user has executed the Enable/Disable Vendor Database Link [PSS ENABLE/DISABLE DB LINK] option and disabled the interface.
System	No Enhanced Order Checks can be performed	Vendor database updates are being processed	The vendor database (custom and standard data) is being updated using the DATUP (Data Update) process.
Drug	Enhanced Order Checks cannot be performed for Local or Local Outpatient Drug: <DRUG NAME>	Drug not matched to NDF	The local drug being ordered/ or on profile has not been matched to NDF. Matching the drug to a VA Product will eliminate this message.
Drug	Order Checks could not be done for RemoteDrug: <DRUG NAME>, please complete a manual check for Drug Interactions and Duplicate Therapy.		If this error message is displayed, it means that the VA product that the local or remote drug being ordered/or on local or remote profile does not have a GCNSEQNO or in rare cases, the GCNSEQNO assigned to the VA Product does not match up with a GCNSEQNO in the vendor database.

Error Level	Error Message	Reason	Why message is being displayed.
Drug	Enhanced Order Checks cannot be performed for Orderable Item: <OI NAME>	No active Dispense Drug found	Highly unlikely that this error would be seen. At the time the order check was being performed the orderable item did not have an active dispense drug associated.
Drug	Enhanced Order Checks cannot be performed for Orderable Item: <OI NAME>	No active, marked for IV Fluid Order Entry IV Additive/Solution found	The orderable item associate with an IV Fluid order did not have an active IV Additive/IV Solution marked for IV fluid order entry use at the time the order check was executed. This is another error the user will probably not see.

See examples below to illustrate error sequences.

New Order Entry – System Level Error

```
Select Action: Quit// NO   New Order

Eligibility: SC LESS THAN 50%      SC%: 40
RX PATIENT STATUS: SC LESS THAN 50%//
DRUG: AMLOD
  Lookup: GENERIC NAME
        1  AMLODIPINE 10MG/BENAZAPRIL 20MG TAB          CV400
        2  AMLODIPINE 5MG/ATORVASTATIN 10MG TAB        CV200
CHOOSE 1-2: 1  AMLODIPINE 10MG/BENAZAPRIL 20MG TAB          CV400

Now Processing Enhanced Order Checks! Please wait...

No Enhanced Order Checks can be performed.
Reason: Vendor database cannot be reached.

Press Return to Continue...

Available Dosage(s)

1 TABLET
2 TABLETS

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 1 TABLET

You entered 1 TABLET is this correct? Yes//   YES
VERB: TAKE
ROUTE: PO//
        1  PO  ORAL (BY MOUTH)          PO
        2  PO  ORAL                    PO
CHOOSE 1-2: 1  ORAL (BY MOUTH)          PO  MOUTH
Schedule: Q4H (EVERY 4 HOURS)
LIMITED DURATION (IN DAYS, HOURS OR MINUTES):
CONJUNCTION:
.
```

Drug Error Message – Finishing Pending Outpatient Order

```
+      Enter ?? for more actions
BY Bypass          DC Discontinue
ED Edit           FN Finish
Select Item(s): Next Screen// FN   Finish

Now Processing Enhanced Order Checks! Please wait...

Enhanced Order Checks cannot be performed for Local Drug: WARFARIN 5MG TAB
Reason: Drug not matched to NDF
```

Press Return to Continue...

Was treatment for Service Connected condition? YES//

Are you sure you want to Accept this Order? NO//

.
.

Renewing an Order – Therapeutic Duplication – Drug Level Error

+ Enter ?? for more actions

DC	Discontinue	PR	Partial	RL	Release
ED	Edit	RF	Refill	RN	Renew

Select Action: Next Screen// rn Renew

FILL DATE: (3/12/2008 - 3/13/2009): TODAY// (MAR 12, 2008)

MAIL/WINDOW: WINDOW// WINDOW

METHOD OF PICK-UP:

Nature of Order: WRITTEN// W

WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

Now Renewing Rx # 2580 Drug: SUCRALFATE 1GM TAB

Press Return to Continue...

Now Processing Enhanced Order Checks! Please wait...

Order Checks could not be done for Drug: RANITIDINE 150MG TAB, please complete a manual check for Drug Interactions and Duplicate Therapy.

=====
*** THERAPEUTIC DUPLICATION(S) *** SUCRALFATE 1GM TAB with

Local Rx#: 2574
Drug: CIMETIDINE 300MG TAB (DISCONTINUED)
SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
QTY: 180 Days Supply: 90
Processing Status: Released locally on 03/07/08@08:55:32 (Window)
Last Filled On: 11/08/06

Local Rx#: 2573
Drug: NIZATIDINE 150MG CAP (ACTIVE)
SIG: TAKE ONE CAPSULE BY MOUTH TWICE A DAY
QTY: 180 Days Supply: 90
Processing Status: Released locally on 03/07/08@08:55:32 (Window)
Last Filled On: 11/08/06

Local Rx#: 2599
Drug: FAMOTIDINE 20MG TAB (PROVIDER HOLD)
SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
QTY: 180 Days Supply: 90
Processing Status: Released locally on 03/07/08@08:55:32 (Window)
Last Filled On: 11/08/06

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents, Histamine-2 Receptor Antagonists (H2 Antagonists)

=====
Discontinue RX #2573 NIZATIDINE 150MG CAP? Y/N No

Press Return to Continue:

2580A SUCRALFATE 1GM TAB QTY: 360
OF REFILLS: 3 ISSUED: 03-12-08
SIG: TAKE ONE TABLET BY MOUTH FOUR TIMES A DAY
FILLED: 03-12-08
ROUTING: WINDOW PHYS: PSOPROVIDER,ONE

```
Edit renewed Rx ? Y// n NO

      SC Percent: 80%
      Disabilities: NONE STATED

Was treatment for a Service Connected condition? NO//
```

Enhanced Drug-Drug Interactions

This section describes the enhanced Outpatient Pharmacy application Drug-Drug interaction functionality (PSO*7*251).

Legacy VistA drug-drug interactions have been enhanced to utilize **First DataBank (FDB)** Drug Information Framework (DIF) business rules, Application Programming Interfaces (APIs) and database to provide more clinically relevant drug interaction information. VistA severity levels of 'critical' and 'significant' will continue to be used. No changes have been made to the existing user actions for critical or significant drug interactions. The pharmacist will have to log an intervention for local, pending and remote critical interactions and have the option of logging an intervention for local and remote significant interactions. No action is required for Non-VA medications orders.

See examples:

Drug interaction warning message for a local outpatient order:

Critical Drug Interaction with Local Rx

```
***CRITICAL*** Drug Interaction with Prospective Drug:
                INDINAVIR 400MG CAP and

      Local Rx#: 2443
      Drug: AMIODARONE 200MG TAB (ACTIVE)
      SIG: TAKE ONE TABLET BY MOUTH THREE TIMES DAILY
      Processing Status: Released locally on 11/08/06@08:55:32 (Window)
      Last Filled On: 11/08/06
```

The concurrent administration of amiodarone with indinavir,(1) nelfinavir,(2) ritonavir,(3) or tipranavir coadministered with ritonavir(4) may result in increased levels, clinical effects, and toxicity of amiodarone.

SIGNIFICANT Drug Interaction with Local Rx

```
***SIGNIFICANT*** Drug Interaction with Prospective Drug:
                WARFARIN 5MG TAB and

      Local RX#: 2443
      Drug: ASPIRIN 325MG TAB (ACTIVE)
      SIG: TAKE ONE TABLET BY MOUTH THREE TIMES DAILY
      Processing Status: Released locally on 11/08/06@08:55:32 (Window)
      Last Filled On: 11/08/06
```

```
*** REFER TO MONOGRAPH FOR SIGNIFICANT INTERACTION CLINICAL EFFECTS
```

Drug interaction warning message for a remote outpatient order:

Significant Drug Interaction with Remote Rx

Significant Drug Interaction with Prospective Drug:
WARFARIN 5MG TAB and

LOCATION: <VA or DOD facility> Remote RX#: 10950021
Drug: ASPIRIN 325MG EC TAB (ACTIVE)
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
Last Filled On: 11/08/06

*** REFER TO MONOGRAPH FOR SIGNIFICANT INTERACTION CLINICAL EFFECTS

Critical Drug Interaction with Remote Rx

CRITICAL Drug Interaction with Prospective Drug:
INDINAVIR 400MG CAP and

LOCATION: <VA or DOD Facility> Remote Rx#: 2443
Drug: AMIODARONE 200MG TAB (ACTIVE)
SIG: TAKE ONE TABLET BY MOUTH THREE TIMES DAILY
Last Filled On: 11/08/06

The concurrent administration of amiodarone with indinavir,(1) nelfinavir,(2) ritonavir,(3) or tipranavir coadministered with ritonavir(4) may result in increased levels, clinical effects, and toxicity of amiodarone.

Drug interaction warning message that is currently displayed for a Non-VA medication:

Critical Drug Interaction with Non-VA Med Order

Critical Drug Interaction with Prospective Drug:
WARFARIN 5MG TAB and

Non-VA Med: CIMETIDINE 200MG TAB
Dosage: ONE TABLET Schedule: AT BEDTIME

The pharmacologic effects of warfarin may be increased resulting in severe bleeding.

Significant Drug Interaction with Non-VA Med Order

Significant Drug Interaction with Prospective Drug:
WARFARIN 5MG TAB and

Non-VA Med: ASPIRIN 325MG TAB
Dosage: ONE TABLET Schedule: <NOT ENTERED>

*** REFER TO MONOGRAPH FOR SIGNIFICANT INTERACTION CLINICAL EFFECTS

Drug interaction warning message that shall be displayed for a pending order:

Critical Drug Interaction with Pending Order

CRITICAL Drug Interaction with Prospective Drug:
INDINAVIR 400MG CAP and

Pending Drug: AMIODARONE 200MG TAB
SIG: TAKE ONE TABLET EVERY 8 HOURS

The concurrent administration of amiodarone with indinavir,(1) nelfinavir,(2) ritonavir,(3) or tipranavir coadministered with ritonavir(4) may result in increased levels, clinical effects, and toxicity of amiodarone.

Significant Drug Interaction with Pending Order

SIGNIFICANT Drug Interaction with Prospective Drug:
WARFARIN 5MG TAB and

Pending Drug: ASPIRIN 325MG TAB

SIG: TAKE ONE TABLET EVERY 8 HOURS

*** REFER TO MONOGRAPH FOR SIGNIFICANT INTERACTION CLINICAL EFFECTS

Duplicate Drug Order Check

The Duplicate Drug order check is performed against active, pending, non-verified, orders on hold (initiated through pharmacy or CPRS), expired and discontinued orders. The timeframe for inclusion of expired and discontinued orders is determined by the display rules on the medication profile. This check will be performed on active Non-VA Medication orders.

Users have the capability to discontinue duplicate orders. The existing order will only be discontinued upon acceptance of the order being processed. No discontinue actions can be performed on remote outpatient orders, Non-VA medications, discontinued, and expired orders or orders placed on provider hold through CPRS. If the DRUG CHECK FOR CLERK outpatient site parameter is set to 'No', no discontinue action is allowed for a clerk on a duplicate drug check. If a medication order is being entered through the pharmacy backdoor options it will be deleted. If finishing a pending order, the user will be forced to discontinue it.

Any remote Outpatient order (from another VAMC or Department of Defense (DoD) facility) using data from Health Data Repository Historical (HDR-Hx) or Health Data Repository- Interim Messaging Solution (HDR-IMS) that has been expired for 30 days or less will be included in the list of medications to be checked.

The Duplicate Drug warning displays the following information for a local or remote outpatient medication order:

Local Rx

Duplicate Drug in Local Rx:

```
Rx #: 2608
Drug: ASPIRIN 81MG EC TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 30 Refills remaining: 11
Provider: PSOPROVIDER,TEN Issued: 03/24/08
Status: Active Last filled on: 03/24/08
Processing Status: Released locally on 3/24/08@08:55:32 (Window)
Days Supply: 30
```

Remote Rx

Duplicate Drug in Remote Rx:

```
LOCATION NAME: <NAME OF FACILITY>
Rx #: 2608
Drug: ASPIRIN 81MG EC TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 30 Refills remaining: 11
Provider: PSOPROVIDER,TEN Issued: 03/24/08
Status: Active Last filled on: 03/24/08
Days Supply: 30
```

Duplicate Drug order check for Pending Orders:

Pending Order

DUPLICATE DRUG in a Pending Order for:

Drug: ALLOPURINOL 300MG TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 180 # of Refills: 3
Provider: PSOPROVIDER,TEN Issue Date: 03/24/08@14:44:15
Provider Comments: <only if data present>

Duplicate Drug order check for Non-Va Medications

Non-VA Med Order

Duplicate Drug in a Non-VA Med Order for

Drug: CIMETIDINE 300MG TAB
Dosage: 300MG
Schedule: AT BEDTIME
Medication Route: MOUTH
Start Date: <NOT ENTERED> CPRS Order #: 13554
Documented By: PSOPROVIDER,TEN on Mar 24, 2008@14:44:15

Duplicate Drug Order Check business rules:

- a. If the DRUG CHECK FOR CLERK outpatient site parameter is set to NO, the system will not prompt a clerk (no PSORPH key) to discontinue the order when a Duplicate Drug order check occurs.
- b. If the DRUG CHECK FOR CLERK outpatient site parameter is set to NO, and a new order is being entered by a clerk (no PSORPH key) via the pharmacy backdoor, the order being processed will be deleted by the system immediately after the duplicate drug warning is displayed.
- c. If the duplicate drug is a remote order, the system will allow the clerk to process the new order after the display of the duplicate drug warning.
- d. If the DRUG CHECK FOR CLERK outpatient site parameter is set to NO, and a clerk (no PSORPH key) is finishing a pending order:
 - d1. When the VERIFICATION outpatient site parameter is set to YES and the duplicate drug is a local order, the system will return the user back to the detailed order ListMan display with the available actions of Accept/Edit/Discontinue.
 - d2. When the VERIFICATION outpatient site parameter is set to YES and the duplicate drug is a remote order
 - d2a. A duplicate drug warning will be displayed
 - d2b. The clerk will be allowed to finish the order
 - d2c. The finished order will have a status of non-verified
 - d3. When the VERIFICATION outpatient site parameter is set to NO, the clerk will not be allowed to finish the order.
 - d4. If the DRUG CHECK FOR CLERK outpatient site parameter is set to Yes, a clerk (no PSORPH key) will see the same discontinue prompts as a pharmacist.

- e. If the VERIFICATION outpatient site parameter is set to YES when reinstating an order, no duplicate message will be displayed and the reinstated order will have a non-verified status.
- f. No discontinuation prompt will be displayed for a duplicate Non-VA medication order in any situation.

After the Duplicate Drug warning is displayed, the system will ask the user if they wish to discontinue the order.

Active Order

Discontinue RX #2580A SUCRALFATE 1GM TAB? Y/N

Pending Order

Discontinue Pending Order for ALLOPURINOL 300MG? Y/N

If the user chooses not to discontinue the displayed order when entering a new order via the pharmacy backdoor, the system will delete the order being entered (prospective drug).

If the user chooses not to discontinue the displayed order when finishing a pending order, the system will redisplay the pending order and prompt them to accept, edit or discontinue the order.

If the DRUG CHECK FOR CLERK outpatient site parameter is set to NO, and if the clerk (no PSORPH key) is copying an order, the system will return them back to the detailed order ListMan display where the copy action was initiated.

If the DRUG CHECK FOR CLERK outpatient site parameter is set to NO and the VERIFICATION outpatient site parameter is set to YES when a clerk (no PSORPH key) is reinstating a discontinued order for a medication for which an active local order exists, the system will delete the active order and reinstate the discontinued order.

If the DRUG CHECK FOR CLERK outpatient site parameter is set to NO and the VERIFICATION outpatient site parameter is set to NO when a clerk is reinstating a discontinued order for a medication for which an active local order exists, the system will display a duplicate drug warning, but the order will not be reinstated.

If the DRUG CHECK FOR CLERK outpatient site parameter is set to YES or NO and the VERIFICATION outpatient site parameter is set to NO when a clerk is reinstating a discontinued order for a medication for which a remote order exists, the system will display a duplicate drug warning and the reinstated order will be assigned an active status.

If the DRUG CHECK FOR CLERK outpatient site parameter is set to YES or NO and the VERIFICATION outpatient site parameter is set to YES when a clerk is reinstating a discontinued order, the system will not display a duplicate drug warning and the reinstated order will be assigned a non-verified status.

If a duplicate drug warning is displayed for a medication order, it will not be included in a duplicate therapy order check.

The following examples illustrate the conditions described above.

Duplicate Pending Order

Pending OP Orders (ROUTINE) Mar 24, 2008@13:52:04 Page: 1 of 2

```

PSOPATIENT,FOUR                                <NO ALLERGY ASSESSMENT>
PID: 000-00-0000                                Ht(cm): 168.91 (04/11/2006)
DOB: MAY 20,1966 (41)                          Wt(kg): 68.18 (09/06/2006)

Order Checks:
  Duplicate drug order: ASPIRIN TAB,EC 325MG TAKE ONE TABLET BY MOUTH EVERY
  MORNING [ACTIVE]
  Overriding Provider: PSOPROVIDER,TEN
  Overriding Reason: TESTING DUPLICATE THERAPY FUNCTIONALITY

*(1) Orderable Item: ASPIRIN TAB,EC
(2)      Drug: ASPIRIN 325MG EC TAB <DIN>
(3)      *Dosage: 325 (MG)
          Verb: TAKE
          Dispense Units: 1
          Noun: TABLET
          *Route: ORAL
          *Schedule: QAM
+        Enter ?? for more actions
BY Bypass          DC Discontinue
ED Edit           FN Finish
Select Item(s): Next Screen// FN Finish

-----
Duplicate Drug in Local Rx:

          RX #: 2603
          Drug: ASPIRIN 325MG EC TAB
          SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
          QTY: 30                      Refills remaining: 11
          Provider: PSOPROVIDER,TEN      Issued: 03/24/08
          Status: Active                  Last filled on: 03/24/08
          Processing Status: Released locally on 3/24/08@08:55:32 (Window)
                                          Days Supply: 30

-----
Discontinue RX #2603 ASPIRIN 325MG EC TAB? Y/N NO -Prescription was not discontinued...

Pending OP Orders (ROUTINE)  Mar 24, 2008@13:52:45      Page: 1 of 2
PSOPATIENT,FOUR                                <NO ALLERGY ASSESSMENT>
PID: 000-00-0000                                Ht(cm): 168.91 (04/11/2006)
DOB: MAY 20,1966 (41)                          Wt(kg): 68.18 (09/06/2006)

Order Checks:
  Duplicate drug order: ASPIRIN TAB,EC 325MG TAKE ONE TABLET BY MOUTH EVERY
  MORNING [ACTIVE]
  Overriding Provider: PSOPROVIDER,TEN
  Overriding Reason: TESTING DUPLICATE THERAPY FUNCTIONALITY

*(1) Orderable Item: ASPIRIN TAB,EC
(2)      Drug: ASPIRIN 325MG EC TAB <DIN>
(3)      *Dosage: 325 (MG)
          Verb: TAKE
          Dispense Units: 1
          NOUN: TABLET
          *Route: ORAL
          *Schedule: QAM
+        Enter ?? for more actions
AC Accept          ED Edit          DC Discontinue
Select Item(s): Next Screen//
.
.
OR

Discontinue RX #2603 ASPIRIN 325MG EC TAB? Y/N YES

RX #2603 ASPIRIN 325MG EC TAB will be discontinued after the acceptance of the new order.

Rx # 2604          03/24/08
PSOPATIENT,FOUR          #30
TAKE ONE TABLET BY MOUTH EVERY MORNING

```

ASPIRIN 325MG EC TAB
PSOPROVIDER,TEN PSOPHARMACIST,ONE
of Refills: 11

SC Percent: 100%
Disabilities: NONE STATED

Was treatment for a Service Connected condition? YES// YES
Are you sure you want to Accept this Order? NO// YES
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

-Duplicate Drug Rx #2603 ASPIRIN 325MG EC TAB has been discontinued...

Press Return to Continue:

.
.

New Order Entry Backdoor – Duplicate Drug

Eligibility: SERVICE CONNECTED 50% to 100% SC%: 100

RX PATIENT STATUS: OPT NSC//

DRUG: aspirin

Lookup: DRUG GENERIC NAME
1 ASPIRIN 325MG EC TAB CN103
2 ASPIRIN 325MG SUPPOSITORY CN103
3 ASPIRIN 325MG TAB CN103
4 ASPIRIN 650MG/BUTALBITAL 50MG TAB CN103
5 ASPIRIN 81MG EC TAB CN103

Press <RETURN> to see more, '^' to exit this list, '^ ^' to exit all lists, OR
CHOOSE 1-5: 1 ASPIRIN 325MG EC TAB CN103
Restriction/Guideline(s) exist. Display? : (N/D): No// NO

Duplicate Drug in Local Rx:

RX #: 2604
Drug: ASPIRIN 325MG EC TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 30 Refills remaining: 11
Provider: PSOPROVIDER,TEN Issued: 03/24/08
Status: Active Last filled on: 03/24/08
Processing Status: Released locally on 3/24/08@08:55:32 (Window)
Days Supply: 30

Discontinue RX #2604 ASPIRIN 325MG EC TAB? Y/N NO -Prescription was not discontinued...

RX DELETED

OR

Discontinue RX #2604 ASPIRIN 325MG EC TAB? Y/N YES

RX #2604 ASPIRIN 325MG EC TAB will be discontinued after the acceptance of the new order.

VERB: TAKE

Available Dosage(s)

1. 325MG
2. 650MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 325MG

You entered 325MG is this correct? Yes// YES

VERB: TAKE

DISPENSE UNITS PER DOSE(TABLET): 1// 1

Dosage Ordered: 325MG

NOUN: TABLET
 ROUTE: PO// ORAL PO MOUTH
 Schedule: bid (TWICE A DAY)
 LIMITED DURATION (IN DAYS, HOURS OR MINUTES):
 CONJUNCTION:
 PATIENT INSTRUCTIONS:

 (TAKE ONE TABLET BY MOUTH TWICE A DAY)

 DAYS SUPPLY: (1-90): 30//
 QTY (TAB) : 60// 60
 COPIES: 1// 1
 # OF REFILLS: (0-11): 11//
 PROVIDER: PSOPROVIDER,TEN
 CLINIC:
 MAIL/WINDOW: WINDOW// WINDOW
 METHOD OF PICK-UP:
 REMARKS:
 ISSUE DATE: TODAY// (MAR 24, 2008)
 FILL DATE: (3/24/2008 - 3/25/2009): TODAY// (MAR 24, 2008)
 Nature of Order: WRITTEN// W
 WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

Rx # 2605 03/24/08
 PSOPATIENT,FOUR #60
 TAKE ONE TABLET BY MOUTH TWICE A DAY

ASPIRIN 325MG EC TAB
 PSOPROVIDER,TEN PSOPHARMACIST,ONE
 # of Refills: 11

SC Percent: 100%
 Disabilities: NONE STATED

Was treatment for a Service Connected condition? n NO
 Is this correct? YES//

-Duplicate Drug RX #2604 ASPIRIN 325MG EC TAB has been discontinued...

Another New Order for PSOPATIENT,FOUR? YES//

Editing Dispense Drug – Create New Order

Rx #: 2605A
 (1) *Orderable Item: ASPIRIN TAB,EC
 (2) Drug: ASPIRIN 325MG EC TAB <DIN>
 (3) *Dosage: 325 (MG)
 Verb: TAKE
 Dispense Units: 1
 Noun: TABLET
 *Route: ORAL
 *Schedule: BID
 (4)Pat Instructions:
 SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
 (5) Patient Status: OPT NSC
 (6) Issue Date: 03/24/08 (7) Fill Date: 03/24/08
 Last Fill Date: 03/24/08 (Window)
 + Enter ?? for more actions
 DC Discontinue PR Partial RL Release
 ED Edit RF Refill RN Renew
 Select Action: Next Screen// ED Edit

 Select fields by number: (1-19): 2
 DRUG: ASPIRIN 325MG EC TAB// ASPIRIN 8

 Lookup: GENERIC NAME

ASPIRIN 81MG EC TAB CN103
...OK? Yes// (Yes)

TRADE NAME:

Duplicate Drug in Local Rx:

Rx #: 2606
Drug: ASPIRIN 81MG EC TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 30 Refills remaining: 11
Provider: PSOPROVIDER,TEN Issued: 03/24/08
Status: Active Last filled on: 03/24/08
Processing Status: Released locally on 03/24/08@08:55:32 (Window)
Days Supply: 30

Discontinue RX #2606 ASPIRIN 81MG EC TAB? Y/N NO -Prescription was not discontinued...

.

OR

Discontinue RX #2606 ASPIRIN 81MG EC TAB? Y/N YES

RX #2606 ASPIRIN 81MG EC TAB will be discontinued after the acceptance of the new order.

You have changed the dispense drug from
ASPIRIN 325MG EC TAB to ASPIRIN 81MG EC TAB.

Current SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY

Do You want to Edit the SIG? YES//

Available Dosage(s)

1. 81MG
2. 162MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 81MG

You entered 81MG is this correct? Yes// YES

This edit will discontinue the duplicate Rx & change the dispensed drug!

Do You Want to Proceed? NO// YES

VERB: TAKE// TAKE

DISPENSE UNITS PER DOSE(TABLET): 1// 1

Dosage Ordered: 81MG

NOUN: TABLET// TABLET

ROUTE: ORAL// ORAL

Schedule: BID// QAM (EVERY MORNING)

LIMITED DURATION (IN MONTHS, WEEKS, DAYS, HOURS OR MINUTES):

CONJUNCTION:

New OP Order (ROUTINE) Mar 24, 2008@14:10:20 Page: 1 of 2

PSOPATIENT,FOUR

<NO ALLERGY ASSESSMENT>

PID: 000-00-0000

Ht(cm): 168.91 (04/11/2006)

DOB: MAY 20,1966 (41)

Wt(kg): 68.18 (09/06/2006)

Orderable Item: ASPIRIN TAB,EC

(1) Drug: ASPIRIN 81MG EC TAB

(2) Patient Status: OPT NSC

(3) Issue Date: MAR 24,2008

(4) Fill Date: MAR 24,2008

(5) Dosage Ordered: 81 (MG)

Verb: TAKE

Dispense Units: 1

Noun: TABLET

Route: ORAL

Schedule: QAM

(6)Pat Instruction:

SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING

(7) Days Supply: 30

(8) QTY (TAB): 60

(9) # of Refills: 11

(10) Routing: WINDOW

+

This change will create a new prescription!

```

AC  Accept                               ED  Edit
Select Action: Next Screen// AC  Accept

Nature of Order: SERVICE CORRECTION//    S
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

Rx # 2607                                03/24/08
PSOPATIENT,FOUR                          #60
TAKE ONE TABLET BY MOUTH EVERY MORNING

ASPIRIN 81MG EC TAB
PSOPROVIDER,TEN                          PSOPHARMACIST,ONE
# of Refills: 11

      SC Percent: 100%
      Disabilities: NONE STATED

Was treatment for a Service Connected condition? YES//
Is this correct? YES// ...

-Duplicate Drug RX #2606 ASPIRIN 81MG EC TAB has been discontinued...
.
.

```

Clerk Entering New Order via Backdoor – Drug Check for Clerk Parameter set to No

```

PI  Patient Information                   SO  Select Order
Select Action: Quit// NO  New Order

Eligibility: SERVICE CONNECTED 50% to 100%    SC%: 100
RX PATIENT STATUS: OPT NSC//
DRUG: ASPIRIN 81
  Lookup: GENERIC NAME
ASPIRIN 81MG EC TAB                      CN103
  ...OK? Yes// (Yes)

-----
Duplicate Drug in Local Rx:

      Rx #: 2608
      Drug: ASPIRIN 81MG EC TAB
      SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
      QTY: 30                      Refills remaining: 11
      Provider: PSOPROVIDER,TEN          Issued: 03/24/08
      Status: Active                    Last filled on: 03/24/08
      Processing Status: Released locally on 3/24/08@08:55:32 (Window)
                                          Days Supply: 30

-----
RX DELETED

Another New Order for PSOPATIENT,FOUR? YES//
.

```

Clerk Entering New Order via Backdoor – Drug Check for Clerk Parameter set to No – Duplicate Drug – Discontinued Status

```

Eligibility: SERVICE CONNECTED 50% to 100%    SC%: 100
RX PATIENT STATUS: OPT NSC//
DRUG: ASPIRIN
  Lookup: GENERIC NAME
  1  ASPIRIN 325MG EC TAB                      CN103
  2  ASPIRIN 325MG SUPPOSITORY                CN103
  3  ASPIRIN 325MG TAB                      CN103
  4  ASPIRIN 650MG/BUTALBITAL 50MG TAB      CN103
  5  ASPIRIN 81MG EC TAB                      CN103
Press <RETURN> to see more, '^' to exit this list, '^ ^' to exit all lists, OR

```

CHOOSE 1-5: 1 ASPIRIN 325MG EC TAB CN103
Restriction/Guideline(s) exist. Display? : (N/D): No// NO

Duplicate Drug in Local Rx:

Rx #: 2605A
Drug: ASPIRIN 325MG EC TAB
SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
QTY: 60 Refills remaining: 11
Provider: PSOPROVIDER,TEN Issued: 03/24/08
Status: Discontinued (Edit) Last filled on: 03/24/08
Processing Status: Released locally on 3/24/08@08:55:32 (Window)
Days Supply: 30

Press Return to Continue:
.

Clerk Finishing Pending Order – Drug Check for Clerk parameter set to No

ED (Edit) FN Finish

Pending OP Orders (ROUTINE) Mar 24, 2008@14:35:21 Page: 1 of 3
PSOPATIENT,FOUR <NO ALLERGY ASSESSMENT>
PID: 000-00-0000 Ht(cm): 168.91 (04/11/2006)
DOB: MAY 20,1966 (41) Wt(kg): 68.18 (09/06/2006)

CPRS Order Checks:

Duplicate drug order: ASPIRIN TAB,EC 81MG TAKE ONE TABLET BY MOUTH EVERY
MORNING [ACTIVE]
Overriding Provider: PSOPROVIDER,TEN
Overriding Reason: TESTING

Duplicate drug class order:(ASPIRIN TAB,EC 325MG
TAKE ONE TABLET BY MOUTH EVERY MORNING [UNRELEASED])
Overriding Provider: PSOPROVIDER,TEN
Overriding Reason: TESTING

* (1) Orderable Item: ASPIRIN TAB,EC

(2) Drug: ASPIRIN 81MG EC TAB

(3) *Dosage: 81 (MG)

+ Enter ?? for more actions

BY Bypass DC (Discontinue)

ED (Edit) FN Finish

Select Item(s): Next Screen// FN Finish

Duplicate Drug in Local Rx:

Rx #: 2608
Drug: ASPIRIN 81MG EC TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 30 Refills remaining: 11
Provider: PSOPROVIDER,TEN Issued: 03/24/08
Status: Active Last filled on: 03/24/08
Processing Status: Released locally on 3/24/08@08:55:32 (Window)
Days Supply: 30

Pending OP Orders (ROUTINE) Mar 24, 2008@14:35:25 Page: 1 of 3
PSOPATIENT,FOUR <NO ALLERGY ASSESSMENT>
PID: 000-00-0000 Ht(cm): 168.91 (04/11/2006)
DOB: MAY 20,1966 (41) Wt(kg): 68.18 (09/06/2006)

CPRS Order Checks:

Duplicate drug order: ASPIRIN TAB,EC 81MG TAKE ONE TABLET BY MOUTH EVERY
MORNING [ACTIVE]
Overriding Provider: PSOPROVIDER,TEN
Overriding Reason: TESTING

```

Duplicate drug class order: NON-OPIOID ANALGESICS (ASPIRIN TAB,EC 325MG
TAKE ONE TABLET BY MOUTH EVERY MORNING [UNRELEASED])
Overriding Provider: PSOPROVIDER,TEN
Overriding Reason: TESTING

*(1) Orderable Item: ASPIRIN TAB,EC
(2) Drug: ASPIRIN 81MG EC TAB
(3) *Dosage: 81 (MG)
+ Enter ?? for more actions
AC Accept ED Edit DC Discontinue
Select Item(s): Next Screen// DC Discontinue

Nature of Order: SERVICE CORRECTION// S

Requesting PROVIDER: PSOPROVIDER,TEN// LBB 119
Comments: Per Pharmacy Request Replace

Press Return to :

PI Patient Information SO Select Order
PU Patient Record Update NO New Order
PI Patient Information SO Select Order
Select Action: Quit// 2

Medication Profile Mar 24, 2008@14:36:28 Page: 1 of 1
PSOPATIENT,FOUR <NO ALLERGY ASSESSMENT>
PID: 000-00-0000 Ht(cm): 168.91 (04/11/2006)
DOB: MAY 20,1966 (41) Wt(kg): 68.18 (09/06/2006)
SEX: MALE

ISSUE LAST REF DAY
# RX # DRUG QTY ST DATE FILL REM SUP
-----ACTIVE-----
1 2608 ASPIRIN 81MG EC TAB 30 A 03-24 03-24 11 30
-----NON-VERIFIED-----
2 2609 ASPIRIN 325MG EC TAB 30 N 03-24 03-24 5 30
.

```

Duplicate with Non-VA Med – No Action Required

```

DRUG: CIMETIDINE
Lookup: GENERIC NAME
1 CIMETIDINE 100MG TAB GA301
2 CIMETIDINE 200MG TAB GA301
3 CIMETIDINE 300MG TAB GA301 90 DAY SUPPLY
4 CIMETIDINE 400MG TAB GA301
5 CIMETIDINE 800MG TAB GA301
CHOOSE 1-5: 3 CIMETIDINE 300MG TAB GA301 90 DAY SUPPLY
-----
Duplicate Drug in a Non-VA Med Order for

Drug: CIMETIDINE 300MG TAB
Dosage: 300MG
Schedule: AT BEDTIME
Medication Route: MOUTH
Start Date: CPRS Order #: 13554
Documented By: PSOPROVIDER,TEN on Mar 24, 2008@14:44:15
-----
Press Return to Continue:

VERB: TAKE
Available Dosage(s)
1. 300MG
2. 600MG

Select from list of Available Dosages, Enter Free Text Dose

```

or Enter a Question Mark (?) to view list: 1 300MG

You entered 300MG is this correct? Yes//

.

Duplicate Drug with Pending Order

Another New Order for PSOPATIENT,FOUR? YES//

Eligibility: SERVICE CONNECTED 50% to 100% SC%: 100

RX PATIENT STATUS: OPT NSC//

DRUG: ALLOPURINOL

Lookup: GENERIC NAME

1	ALLOPURINOL 100MG TAB	MS400
2	ALLOPURINOL 300MG TAB	MS400

CHOOSE 1-2: 2 ALLOPURINOL 300MG TAB MS400

DUPLICATE DRUG in a Pending Order for:

Drug: ALLOPURINOL 300MG TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 180 # of Refills: 3
Provider: PSOPROVIDER,TEN Issue Date: 03/24/08@14:44:15

Discontinue Pending Order for ALLOPURINOL 300MG? Y/N YES

Pending Order for ALLOPURINOL 300MG will be discontinued after the acceptance of the new order.

VERB: TAKE

Available Dosage(s)

1. 300MG
2. 600MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 300MG

You entered 300MG is this correct? Yes// YES

VERB: TAKE

DISPENSE UNITS PER DOSE(TABLET): 1// 1

Dosage Ordered: 300MG

NOUN: TABLET

ROUTE: PO// ORAL PO MOUTH

Schedule: QAM// (EVERY MORNING)

LIMITED DURATION (IN DAYS, HOURS OR MINUTES):

CONJUNCTION:

PATIENT INSTRUCTIONS:

(TAKE ONE TABLET BY MOUTH EVERY MORNING)

DAYS SUPPLY: (1-90): 30//

QTY (TAB) : 30// 30

COPIES: 1// 1

OF REFILLS: (0-11): 11//

PROVIDER: PSOPROVIDER,TEN

CLINIC:

MAIL/WINDOW: WINDOW// WINDOW

METHOD OF PICK-UP:

REMARKS:

ISSUE DATE: TODAY// (MAR 24, 2008)

FILL DATE: (3/24/2008 - 3/25/2009): TODAY// (MAR 24, 2008)

Nature of Order: WRITTEN// W

Rx # 2610 03/24/08

PSOPATIENT,FOUR #30

TAKE ONE TABLET BY MOUTH EVERY MORNING

ALLOPURINOL 300MG TAB

PSOPROVIDER,TEN PSOPHARMACIST,ONE
of Refills: 11

SC Percent: 100%
Disabilities: NONE STATED

Was treatment for a Service Connected condition? y YES
Is this correct? YES//

- Duplicate Drug Pending Order for ALLOPURINOL 300MG has been discontinued...

Copying an Existing Order

RN Renew
Select Action: Next Screen// CO CO

OP Medications (ACTIVE) Mar 12, 2008@09:15:48 Page: 1 of 2
PSOPATIENT,TWO <A>
PID: 000-00-0000 Ht(cm): 182.88 (04/13/2005)
DOB: JAN 1,1945 (63) Wt(kg): 77.27 (04/13/2005)

Rx #: 2584\$
(1) *Orderable Item: AMLODIPINE/ATORVASTATIN TAB
(2) Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
Verb: TAKE
(3) *Dosage: ONE TABLET
*Route: ORAL
*Schedule: QAM
(4) Pat Instructions:
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
(5) Patient Status: OPT NSC
(6) Issue Date: 03/12/08 (7) Fill Date: 03/12/08
Last Fill Date: 03/12/08 (Window)
Last Release Date: (8) Lot #:
Expires: 03/13/09 MFG:
+ Enter ?? for more actions

AC Accept ED Edit

New OP Order (COPY) Mar 12, 2008@09:15:48 Page: 1 of 2
PSOPATIENT,TWO <A>
PID: 000-00-0000 Ht(cm): 182.88 (04/13/2005)
DOB: JAN 1,1945 (63) Wt(kg): 77.27 (04/13/2005)

Orderable Item: AMLODIPINE/ATORVASTATIN TAB
(1) Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
(2) Patient Status: OPT NSC
(3) Issue Date: MAR 12,2008 (4) Fill Date: MAR 12,2008
Verb: TAKE
(5) Dosage Ordered: ONE TABLET
Route: ORAL
Schedule: QAM
(6) Pat Instruction:
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
(7) Days Supply: 30 (8) QTY (): 30
(9) # of Refills: 11 (10) Routing: WINDOW
(11) Clinic:
(12) Provider: PSOPROVIDER,ONE (13) Copies: 1
+ Enter ?? for more actions

AC Accept ED Edit

Select Action: Next Screen// AC Accept

Duplicate Drug in Local RX:

Rx #: 2584
Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB

```

          SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
          QTY: 30                      Refills remaining: 11
    Provider: OPPROVIDER, ONE          Issued: 03/12/07
          Status: ACTIVE                Last filled on: 03/12/07
    Processing Status: Released locally on 3/12/07@08:55:32 (Window)
                                          Days Supply: 30
-----
Discontinue Rx #2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB? Y/N YES

Rx #2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB will be discontinued after the acceptance
of the new order.

Nature of Order: WRITTEN//           W
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

Rx # 2585                03/12/08
PSOPATIENT,TWO T                #30
TAKE ONE TABLET BY MOUTH EVERY MORNING

AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
PSOPROVIDER,ONE                PSOPHARMACIST,ONE
# of Refills: 11

          SC Percent: 40%
          Disabilities: NONE STATED

Was treatment for Service Connected condition? NO//

Is this correct? YES// ...

- Duplicate Drug Rx #2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB has been discontinued...

```

The CPRS Auto Refill field can be updated using the *Pharmacy Systems Parameter Edit* [PSS MGR] option. This parameter works in conjunction with the PSOATRFR security key.

- When the CPRS Auto Refill field is set to YES and the PSOATRFR security key has been assigned to at least one user, all refills placed in CPRS by the provider are processed and suspended with the next fill date and all routing is set to Mail automatically.
- When the CPRS Auto Refill field is set to NO or if the PSOATRFR security key is not assigned, the manual refill process is required.

If the auto refill process fails, the order will not be processed and will require manual refilling. A MailMan message will be sent to the holders of the PSOATRFR key describing the reason for not filling the auto refill. All of the refill activity, manual or automatic, is recorded in the Activity Log entry notes.

Following the installation of patches PSO*7*207 and OR*3*238 (Remote Data Interoperability (RDI) trigger patch), order checks will be made using additional data from the Health Data Repository Interim Messaging Solution (HDR-IMS) and the HDR-Historical (HDR-Hx). This will contain both Outpatient orders from other VAMCs as well as from Department of Defense (DoD) facilities, if available. All remote prescription statuses will be included in order checking for a new order being processed from within backdoor outpatient pharmacy and for new orders being placed by CPRS or by Inpatient Medications. Any remote Outpatient order that has been expired or discontinued for 30 days or less will be included in the list of medications to be checked.

If the verification site parameter is turned on, prescriptions entered by the technician will be non-verified and must be verified by the pharmacist. If the verification site parameter is turned off the label is queued to print as though the pharmacist has entered it unless the prescription causes a critical drug interaction. In which case, the prescription will be non-verified and must be verified by the pharmacist.

Actions are displayed in the action area of the screen. Actions with a parenthesis () around them are invalid actions for that order. A double question mark (??) displays all the actions available, including the Outpatient Pharmacy hidden actions described in “Chapter 2: List Manager”. If one of the hidden actions is selected and it is invalid, a message will display in the message window. Outpatient Pharmacy hidden actions are displayed with the letters OP next to the action.

With Patch PSO*7*233, when a name is selected, if the patient’s address is flagged with a Bad Address Indicator, a warning message is displayed. If the user has proper authorization (i.e., the PSO SITE parameter “EDIT PATIENT DATA” is set to Yes or the user holds the new PSO ADDRESS UPDATE security key), a prompt appears asking if the user wants to update the address.



For the *Patient Prescription Processing*, if a temporary address has no end date, the following text is displayed in the Status column: “(Temp address from XXX 99,9999 till (no end date))”.

Entering a New Order

If a double question mark (??) is entered at the “Select Action” prompt, the following hidden actions will display in the action area. Actions that apply only to outpatient orders are followed by (OP).

```
The following actions are also available:
RP Reprint (OP)          OTH Other OP Actions      DR Display Remote
RN Renew (OP)           DN Down a Line            QU Quit
DC Discontinue (OP)     RD Re Display Screen      LS Last Screen
RL Release (OP)         PT Print List             FS First Screen
RF Refill (OP)          PS Print Screen           GO Go to Page
PP Pull Rx (OP)         > Shift View to Right    + Next Screen
IP Inpat. Profile (OP)  < Shift View to Left     - Previous Screen
RS Reprint Sig Log      SL Search List            ADPL Auto Display(On/Off)
IN Intervention Menu    CM Manual Queue to CMOP  RDD Fill/Rel Date Disply
UP Up a Line
Select Action: Quit//
```

First, a patient is selected.

Example: Entering a New Order

```
Select Pharmacy Technician's Menu Option: PATient Prescription Processing
Select PATIENT NAME: OPPATIENT16 ,ONE      4-3-41      000246802      YES      SC
VETERAN
Patient is enrolled to receive ScripTalk 'talking' prescription labels.

Eligibility: SC
RX PATIENT STATUS: SERVICE CONNECTED// <Enter>
```

[Patient Information Screen skipped]



If RDI is active and a patient has prescriptions at another location, when the user selects the patient to enter a new order from Patient Prescription Processing, the following message appears.

```
REMOTE PRESCRIPTIONS AVAILABLE!
Display Remote Data? N//
```

If the user responds **NO**, then the normal procedure occurs for entering prescriptions. If the user responds **YES**, the “Remote Facilities Visited” screen appears. See the Displaying a Patient’s Remote Prescriptions section later in Entering a New Order for more details.

Although “Quit” is the default at the “Select Action” prompt shown on the Patient Information screen, <Enter> at this prompt quits the screen and displays the Medication Profile. This Medication Profile includes any Non-VA Med orders documented via the CPRS GUI package.

```

Medication Profile Jun 12, 2001 14:12:21 Page: 1 of 1
OPPATIENT16,ONE
PID: 000-24-6802 Ht(cm): 177.80 (02/08/1999)
DOB: APR 3,1941 (60) Wt(kg): 90.45 (02/08/1999)
-----
# RX # DRUG QTY ST ISSUE LAST REF DAY
FILL REM SUP
-----
-----ACTIVE-----
1 503904$ AMPICILLIN 250MG CAP 80 E 05-25 05-25 0 10
2 503886$ DIGOXIN (LANOXIN) 0.2MG CAP 60 A> 05-07 05-07 5 30
-----DISCONTINUED-----
3 503902 ACETAMINOPHEN 500MG TAB 60 DC>05-22 05-22 3 30
-----
Enter ?? for more actions
PU Patient Record Update NO New Order
PI Patient Information SO Select Order
Select Action: Quit// NO New Order

```

Typing in the letters “NO” at the “Select Action” prompt creates a new order.

Example: Entering a New Order (continued)

```

Medication Profile Mar 29, 2011@14:34:27 Page: 1 of 1
(Patient information is displayed here.)
:
Enter ?? for more actions
PU Patient Record Update NO New Order
PI Patient Information SO Select Order
Select Action: Quit// NO New Order

Eligibility:
RX PATIENT STATUS: SC LESS THAN 50%//
DRUG: ACETAMINOPHEN
Lookup: GENERIC NAME
1 ACETAMINOPHEN 160MG/5ML LIQUID CN103 NATL FORM; 480
M
L/BT (NDC)
2 ACETAMINOPHEN 325MG TAB CN103 NATL FORM; DU:
INCREMEN
TS OF 100 ONLY *** AUTOMED & SCRIPTPRO ***
3 ACETAMINOPHEN 325MG/BUTALBITAL 50MG TAB CN103 N/F
N
ATL N/F
4 ACETAMINOPHEN 500MG TAB CN103 NATL FORM; DU:
INCREMEN
TS OF 100 ONLY*** AUTOMED & SCRIPTPRO ***
5 ACETAMINOPHEN 650MG RTL SUPP CN103 NATL FORM (IEN)
CHOOSE 1-5: 5 ACETAMINOPHEN 650MG RTL SUPP CN103 NATL FORM
(IEN
)

Now doing allergy checks. Please wait...

Now Processing Enhanced Order Checks! Please wait...

Press return to continue:

=====
*** THERAPEUTIC DUPLICATION(S) *** ACETAMINOPHEN 650MG RTL SUPP with

```

Local RX#: 2054930
Drug: ACETAMINOPHEN 500MG TAB (Active)
SIG: TAKE ONE TABLET BY MOUTH EVERY FOUR HOURS AS NEEDED
QTY: 180 Days Supply: 30
Processing Status: Not released locally (Window)
Last Filled On: 03/29/11

Class(es) Involved in Therapeutic Duplication(s): Non-Narcotic
Analgesic/Antipyretic, Non-Salicylate

=====

Press Return to continue:
Discontinue Rx #2054930 ACETAMINOPHEN 500MG TAB Y/N ?

(This page included for two-sided copying.)

The system checks the medication selected for any duplicate drugs or classes, interactions, or allergies that are noted in the patient's local and remote record. This also includes any local Non-VA Meds. See the following order check examples.

Clerk Entering New Order via Backdoor – Drug Check for Clerk Parameter set to No

```
PI Patient Information          SO Select Order
Select Action: Quit// NO    New Order

Eligibility: SERVICE CONNECTED 50% to 100%    SC%: 100
RX PATIENT STATUS: OPT NSC//
DRUG: ASPIRIN 81
  Lookup: GENERIC NAME
ASPIRIN 81MG EC TAB          CN103
  ...OK? Yes//    (Yes)

-----
Duplicate Drug in Local Rx:

      Rx #: 2608
      Drug: ASPIRIN 81MG EC TAB
      SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
      QTY: 30          Refills remaining: 11
      Provider: PSOPROVIDER,TEN          Issued: 03/24/08
      Status: Active          Last filled on: 03/24/08
      Processing Status: Released locally on 3/24/08@08:55:32 (Window)
                              Days Supply: 30

----- RX DELETED

Another New Order for PSOPATIENT,FOUR? YES//
.
```

Clerk Entering New Order via Backdoor – Drug Check for Clerk Parameter set to No – Duplicate Drug – Discontinued Status

```
Eligibility: SERVICE CONNECTED 50% to 100%    SC%: 100
RX PATIENT STATUS: OPT NSC//
DRUG: ASPIRIN
  Lookup: GENERIC NAME
  1 ASPIRIN 325MG EC TAB          CN103
  2 ASPIRIN 325MG SUPPOSITORY    CN103
  3 ASPIRIN 325MG TAB          CN103
  4 ASPIRIN 650MG/BUTALBITAL 50MG TAB    CN103
  5 ASPIRIN 81MG EC TAB          CN103
Press <RETURN> to see more, '^' to exit this list, '^ ^' to exit all lists, OR
CHOOSE 1-5: 1 ASPIRIN 325MG EC TAB    CN103
  Restriction/Guideline(s) exist.  Display? : (N/D): No//    NO

-----
Duplicate Drug in Local Rx:

      Rx #: 2605A
      Drug: ASPIRIN 325MG EC TAB
      SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
      QTY: 60          Refills remaining: 11
      Provider: PSOPROVIDER,TEN          Issued: 03/24/08
      Status: Discontinued (Edit)    Last filled on: 03/24/08
      Processing Status: Released locally on 3/24/08@08:55:32 (Window)
                              Days Supply: 30

-----

Press Return to Continue:
.
```

Clerk Finishing Pending Order – Drug Check for Clerk parameter set to No

```
ED (Edit)                               FN Finish

Pending OP Orders (ROUTINE)  Mar 24, 2008@14:35:21      Page: 1 of 3
PSOPATIENT,FOUR              <NO ALLERGY ASSESSMENT>
  PID: 000-00-0000              Ht(cm): 168.91 (04/11/2006)
  DOB: MAY 20,1966 (41)        Wt(kg): 68.18 (09/06/2006)

CPRS Order Checks:
  Duplicate drug order: ASPIRIN TAB,EC 81MG TAKE ONE TABLET BY MOUTH EVERY
  MORNING [ACTIVE]
  Overriding Provider: PSOPROVIDER,TEN
  Overriding Reason: TESTING

  Duplicate drug class order:(ASPIRIN TAB,EC 325MG
  TAKE ONE TABLET BY MOUTH EVERY MORNING [UNRELEASED])
  Overriding Provider: PSOPROVIDER,TEN
  Overriding Reason: TESTING

*(1) Orderable Item: ASPIRIN TAB,EC
(2)      Drug: ASPIRIN 81MG EC TAB
(3)      *Dosage: 81 (MG)
+        Enter ?? for more actions
BY Bypass                               DC (Discontinue)
ED (Edit)                               FN Finish
Select Item(s): Next Screen// FN Finish

-----
Duplicate Drug in Local Rx:

      Rx #: 2608
      Drug: ASPIRIN 81MG EC TAB
      SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
      QTY: 30          Refills remaining: 11
      Provider: PSOPROVIDER,TEN          Issued: 03/24/08
      Status: Active          Last filled on: 03/24/08
      Processing Status: Released locally on 3/24/08@08:55:32 (Window)
                              Days Supply: 30

-----

Pending OP Orders (ROUTINE)  Mar 24, 2008@14:35:25      Page: 1 of 3
PSOPATIENT,FOUR              <NO ALLERGY ASSESSMENT>
  PID: 000-00-0000              Ht(cm): 168.91 (04/11/2006)
  DOB: MAY 20,1966 (41)        Wt(kg): 68.18 (09/06/2006)

CPRS Order Checks:
  Duplicate drug order: ASPIRIN TAB,EC 81MG TAKE ONE TABLET BY MOUTH EVERY
  MORNING [ACTIVE]
  Overriding Provider: PSOPROVIDER,TEN
  Overriding Reason: TESTING

  Duplicate drug class order: NON-OPIOID ANALGESICS (ASPIRIN TAB,EC 325MG
  TAKE ONE TABLET BY MOUTH EVERY MORNING [UNRELEASED])
  Overriding Provider: PSOPROVIDER,TEN
  Overriding Reason: TESTING

*(1) Orderable Item: ASPIRIN TAB,EC
(2)      Drug: ASPIRIN 81MG EC TAB
(3)      *Dosage: 81 (MG)
+        Enter ?? for more actions
AC Accept                               ED Edit          DC Discontinue
Select Item(s): Next Screen// DC Discontinue

Nature of Order: SERVICE CORRECTION//          S

Requesting PROVIDER: PSOPROVIDER,TEN//          LBB          119
Comments: Per Pharmacy Request Replace

Press Return to :
```

PI Patient Information SO Select Order
 PU Patient Record Update NO New Order
 PI Patient Information SO Select Order
 Select Action: Quit// 2

Medication Profile Mar 24, 2008@14:36:28 Page: 1 of 1
 PSOPATIENT,FOUR <NO ALLERGY ASSESSMENT>
 PID: 000-00-0000 Ht(cm): 168.91 (04/11/2006)
 DOB: MAY 20,1966 (41) Wt(kg): 68.18 (09/06/2006)
 SEX: MALE

#	RX #	DRUG	QTY	ST	ISSUE DATE	LAST FILL	REF REM	DAY SUP
-----ACTIVE-----								
1	2608	ASPIRIN 81MG EC TAB	30	A	03-24	03-24	11	30
-----NON-VERIFIED-----								
2	2609	ASPIRIN 325MG EC TAB	30	N	03-24	03-24	5	30

Duplicate with Non-VA Med – No Action Required

DRUG: CIMETIDINE
 Lookup: GENERIC NAME
 1 CIMETIDINE 100MG TAB GA301
 2 CIMETIDINE 200MG TAB GA301
 3 CIMETIDINE 300MG TAB GA301 90 DAY SUPPLY
 4 CIMETIDINE 400MG TAB GA301
 5 CIMETIDINE 800MG TAB GA301
 CHOOSE 1-5: 3 CIMETIDINE 300MG TAB GA301 90 DAY SUPPLY

Duplicate Drug in a Non-VA Med Order for

Drug: CIMETIDINE 300MG TAB
 Dosage: 300MG
 Schedule: AT BEDTIME
 Medication Route: MOUTH
 Start Date: CPRS Order #: 13554
 Documented By: PSOPROVIDER,TEN on Mar 24, 2008@14:44:15

Press Return to Continue:

VERB: TAKE
 Available Dosage(s)
 1. 300MG
 2. 600MG

Select from list of Available Dosages, Enter Free Text Dose or Enter a Question Mark (?) to view list: 1 300MG

You entered 300MG is this correct? Yes//
 .
 .

Duplicate Drug with Pending Order

Another New Order for PSOPATIENT,FOUR? YES//
 Eligibility: SERVICE CONNECTED 50% to 100% SC%: 100
 RX PATIENT STATUS: OPT NSC//
 DRUG: ALLOPURINOL
 Lookup: GENERIC NAME
 1 ALLOPURINOL 100MG TAB MS400
 2 ALLOPURINOL 300MG TAB MS400
 CHOOSE 1-2: 2 ALLOPURINOL 300MG TAB MS400

DUPLICATE DRUG in a Pending Order for:

Drug: ALLOPURINOL 300MG TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 180 # of Refills: 3
Provider: PSOPROVIDER,TEN Issue Date: 03/24/08@14:44:15

Discontinue Pending Order for ALLOPURINOL 300MG? Y/N YES

Pending Order for ALLOPURINOL 300MG will be discontinued after the acceptance of the new order.

VERB: TAKE
Available Dosage(s)
1. 300MG
2. 600MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 300MG

You entered 300MG is this correct? Yes// YES
VERB: TAKE
DISPENSE UNITS PER DOSE(TABLET): 1// 1
Dosage Ordered: 300MG

NOUN: TABLET
ROUTE: PO// ORAL PO MOUTH
Schedule: QAM// (EVERY MORNING)
LIMITED DURATION (IN DAYS, HOURS OR MINUTES):
CONJUNCTION:
PATIENT INSTRUCTIONS:

(TAKE ONE TABLET BY MOUTH EVERY MORNING)

DAYS SUPPLY: (1-90): 30//
QTY (TAB) : 30// 30
COPIES: 1// 1
OF REFILLS: (0-11): 11//
PROVIDER: PSOPROVIDER,TEN
CLINIC:
MAIL/WINDOW: WINDOW// WINDOW
METHOD OF PICK-UP:
REMARKS:
ISSUE DATE: TODAY// (MAR 24, 2008)
FILL DATE: (3/24/2008 - 3/25/2009): TODAY// (MAR 24, 2008)
Nature of Order: WRITTEN// W

Rx # 2610 03/24/08
PSOPATIENT,FOUR #30
TAKE ONE TABLET BY MOUTH EVERY MORNING

ALLOPURINOL 300MG TAB
PSOPROVIDER,TEN PSOPHARMACIST,ONE
of Refills: 11

SC Percent: 100%
Disabilities: NONE STATED

Was treatment for a Service Connected condition? y YES
Is this correct? YES//

- Duplicate Drug Pending Order for ALLOPURINOL 300MG has been discontinued...

Copying an Existing Order

RN Renew
Select Action: Next Screen// CO CO

OP Medications (ACTIVE) Mar 12, 2008@09:15:48 Page: 1 of 2
PSOPATIENT,TWO <A>
PID: 000-00-0000 Ht(cm): 182.88 (04/13/2005)
DOB: JAN 1,1945 (63) Wt(kg): 77.27 (04/13/2005)

Rx #: 2584\$
(1) *Orderable Item: AMLODIPINE/ATORVASTATIN TAB
(2) Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
Verb: TAKE
(3) *Dosage: ONE TABLET
*Route: ORAL
*Schedule: QAM
(4) Pat Instructions:
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
(5) Patient Status: OPT NSC
(6) Issue Date: 03/12/08 (7) Fill Date: 03/12/08
Last Fill Date: 03/12/08 (Window)
Last Release Date: (8) Lot #:
Expires: 03/13/09 MFG:
+ Enter ?? for more actions

AC Accept ED Edit

New OP Order (COPY) Mar 12, 2008@09:15:48 Page: 1 of 2
PSOPATIENT,TWO <A>
PID: 000-00-0000 Ht(cm): 182.88 (04/13/2005)
DOB: JAN 1,1945 (63) Wt(kg): 77.27 (04/13/2005)

Orderable Item: AMLODIPINE/ATORVASTATIN TAB
(1) Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
(2) Patient Status: OPT NSC
(3) Issue Date: MAR 12,2008 (4) Fill Date: MAR 12,2008
Verb: TAKE
(5) Dosage Ordered: ONE TABLET
Route: ORAL
Schedule: QAM
(6) Pat Instruction:
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
(7) Days Supply: 30 (8) QTY (): 30
(9) # of Refills: 11 (10) Routing: WINDOW
(11) Clinic:
(12) Provider: PSOPROVIDER,ONE (13) Copies: 1
+ Enter ?? for more actions

AC Accept ED Edit
Select Action: Next Screen// AC Accept

Duplicate Drug in Local RX:

Rx #: 2584
Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 30 Refills remaining: 11
Provider: OPPROVIDER, ONE Issued: 03/12/07
Status: ACTIVE Last filled on: 03/12/07
Processing Status: Released locally on 3/12/07@08:55:32 (Window)
Days Supply: 30

Discontinue Rx #2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB? Y/N YES

Rx #2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB will be discontinued after the acceptance of the new order.

Nature of Order: WRITTEN// W
WAS THE PATIENT COUNSELED: NO// NO

```

Do you want to enter a Progress Note? No// NO

Rx # 2585          03/12/08
PSOPATIENT,TWO T          #30
TAKE ONE TABLET BY MOUTH EVERY MORNING

AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
PSOPROVIDER,ONE          PSOPHARMACIST,ONE
# of Refills: 11

      SC Percent: 40%
      Disabilities: NONE STATED

Was treatment for Service Connected condition? NO//

Is this correct? YES// ...

- Duplicate Drug Rx #2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB has been discontinued...

```

Note: More than one ingredient and more than one VA Drug Class may be associated with an Allergy/ADR. See output below:

```

A Drug-Allergy Reaction exists for this medication and/or class!

Drug: DILTIAZEM (DILACOR XR) 240MG SA CAP
Ingredients: DILTIAZEM (REMOTE SITE(S)),
Class: CV200 CALCIUM CHANNEL BLOCKERS (REMOTE SITE(S))

```

Allergy/ADR Order Check Display

This section details the Allergy/ADR order check display within Outpatient Pharmacy.

Legacy Outpatient Pharmacy displays the same allergy/ADR warning twice if drug class(es) and drug ingredient(s) are defined for the allergy/ADR. The drug class is listed on one display and the drug ingredient on the other. The user is also prompted to intervene for both warnings. Local and remote Allergy/ADRs are combined.

If no Allergy Assessment has been documented for the patient for whom the medication order is being processed, an intervention dialog is available for each order. Only one warning will be displayed for an Allergy/ADR. If no intervention is chosen, the standard order entry dialog will resume.

See examples below:

Remote Allergy/ADR – New Order Entry Backdoor – Both Ingredient and Drug Class defined for Allergy/ADR

```

Select Action: Quit// NO      New Order

PATIENT STATUS: SC//
DRUG: DILTIAZEM
  Lookup: GENERIC NAME
    1  DILTIAZEM (DILACOR XR) 240MG SA CAP          CV200      N/F      This
drug will not be processed without Drug Request Form 10-7144
    2  DILTIAZEM (INWOOD) 120MG SA CAP             CV200
    3  DILTIAZEM (INWOOD) 180MG SA CAP             CV200
    4  DILTIAZEM (INWOOD) 240MG SA CAP             CV200
    5  DILTIAZEM (INWOOD) 300MG SA CAP             CV200

```

Press <RETURN> to see more, '^' to exit this list, '^ ^' to exit all lists, OR
CHOOSE 1-5: 1 DILTIAZEM (DILACOR XR) 240MG SA CAP CV200 N/F This drug will
not be processed without Drug Request Form 10-7144

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Drug: DILTIAZEM (DILACOR XR) 240MG SA CAP
Ingredients: DILTIAZEM (REMOTE SITE(S)),
Class: CV200 CALCIUM CHANNEL BLOCKERS (REMOTE SITE(S))

Do you want to Intervene? Y// NO

VERB: TAKE
Available Dosage(s)
1. 240MG
2. 480MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list:

.
.
OR

Do you want to Intervene? Y// ES

Now creating Pharmacy Intervention
for DILTIAZEM (DILACOR XR) 240MG SA CAP

PROVIDER: PSOPROVIDER,THREE TPP 119
RECOMMENDATION: NO CHANGE

See 'Pharmacy Intervention Menu' if you want to delete this
intervention or for more options.

Would you like to edit this intervention ? N// O

VERB: TAKE
Available Dosage(s)
1. 240MG
2. 480MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list:

.
.

Local Allergy/ADR – New Order Entry Backdoor - Only Drug Class defined.

Another New Order for PSOPATIENT, TEN? YES//

Eligibility: NSC
RX PATIENT STATUS: OPT NSC//
DRUG: SEPTRA
Lookup: GENERIC NAME
SEPTRA DS TAB AM650
...OK? Yes// (Yes)

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Drug: SEPTRA DS TAB
Class: AM650 SULFONAMIDE/RELATED ANTIMICROBIALS (LOCAL)

Do you want to Intervene? Y// ES

Now creating Pharmacy Intervention
for SEPTRA DS TAB

PROVIDER: PSOPROVIDER,FOUR FPP 119
RECOMMENDATION: NO CHANGE

See 'Pharmacy Intervention Menu' if you want to delete this
intervention or for more options.

Would you like to edit this intervention ? N// O

Available Dosage(s)
1. 1 TABLET
2. 2 TABLETS

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 1 TABLET

You entered 1 TABLET is this correct? Yes// YES

VERB: TAKE

ROUTE: PO// ORAL PO MOUTH

Schedule: BID (TWICE A DAY)

LIMITED DURATION (IN DAYS, HOURS OR MINUTES):

.

.

Local & Remote Allergy/ADR – Multi-ingredients, Pending Order

ED Edit FN Finish

Select Item(s): Next Screen// NEXT SCREEN

Pending OP Orders (ROUTINE) Mar 24, 2008@21:56:03 Page: 2 of 3
PSOPATIENT,THREE <A>

PID: 000-00-0000

Ht(cm): 167.64 (06/10/1993)

DOB: FEB 2,1939 (69)

Wt(kg): 68.18 (06/10/1993)

+

* (1) Orderable Item: SULFAMETHOXAZOLE/TRIMETHOPRIM TAB
(2) Drug: SULFAMETHOXAZOLE/TRIMETHOPRIM DS TAB
Verb: TAKE
(3) *Dosage: 1 TABLET
*Route: ORAL
*Schedule: Q12H

(4) Pat Instruct:

Provider Comments:

Instructions: TAKE 1 TABLET PO Q12H

SIG: TAKE 1 TABLET BY MOUTH EVERY 12 HOURS

(5) Patient Status: OPT NSC

(6) Issue Date: MAR 24,2008

(7) Fill Date: MAR 24,2008

+

Enter ?? for more actions

BY Bypass

DC Discontinue

ED Edit

FN Finish

Select Item(s): Next Screen// FN Finish

Now doing allergy checks. Please wait...

A Drug-Allergy Reaction exists for this medication and/or class!

Drug: SULFAMETHOXAZOLE/TRIMETHOPRIM DS TAB

Ingredients: SULFAMETHOXAZOLE (LOCAL), TRIMETHOPRIM (LOCAL)

Class: AM650 SULFONAMIDE/RELATED ANTIMICROBIALS (LOCAL AND REMOTE SITE(S))

Do you want to Intervene? Y// ES

Now creating Pharmacy Intervention

for SULFAMETHOXAZOLE/TRIMETHOPRIM DS TAB

PROVIDER: PSOPROVIDER, 11 PP 119

RECOMMENDATION: NO CHANGE

See 'Pharmacy Intervention Menu' if you want to delete this

```
intervention or for more options.

Would you like to edit this intervention ? N// O

Rx # 2611          03/24/08
PSOPATIENT,THREE          #20
TAKE 1 TABLET BY MOUTH EVERY 12 HOURS

SULFAMETHOXAZOLE/TRIMETHOPRIM DS TAB
PSOPROVIDER, 11          PSOPHARMACIST,TWO
# of Refills: 1

Are you sure you want to Accept this Order? NO// Y
.
.
```

Therapeutic Duplication

This section describes enhancements to the existing VistA Duplicate Class order checks. The current VistA Duplicate Class checks have been enhanced using the FDB business rules and database, as well as the FDB Enhanced Therapeutic Classification (ETC) system. The Duplicate Class check will now be referred to as the Duplicate Therapy order check. This order check will continue to be performed against active, pending, non-verified orders on hold (initiated through pharmacy or CPRS), expired and discontinued orders. The timeframe for inclusion of expired and discontinued orders is determined by the display rules on the medication profile. This check will be performed on active Non-VA Medication orders.

No changes have been made to the existing user actions for Duplicate Therapy order checks. Users will continue to have the ability to discontinue the order. The existing order will only be discontinued upon acceptance of the order being processed. No discontinue actions can be performed on remote outpatient orders, Non-VA medications, discontinued, and expired orders or orders placed on provider hold through CPRS. If the CANCEL DRUG IN SAME CLASS outpatient site parameter is set to 'No', no discontinue action is allowed on any duplicate class order.

Any remote Outpatient order (from another VAMC or Department of Defense (DoD) facility) using data from Health Data Repository Historical (HDR-Hx) or Health Data Repository- Interim Messaging Solution (HDR-IMS) that has been expired for 120 days or less will be included in the list of medications to be checked.

FDB custom tables will be used to store custom changes to the duplication allowance for a FDB therapeutic classification. Each duplicate therapy class is assigned a duplication allowance. The duplication allowance for a therapeutic allowance determines whether or not the therapeutic duplication warning will be displayed to the user.

The Vendor's (currently FDB) Enhanced Therapeutic Classification (ETC) System is now used in place of the VA Drug Class for the Duplicate Therapy (formerly duplicate class) order checks.

Duplicate Therapy order checks will no longer be processed in pairs. Each duplicate therapy warning includes as many outpatient medication orders as it applies to.

A duplicate therapy warning is only displayed if the number of duplicate therapy matches exceeds the duplication allowance specified for the FDB duplicate therapy class.

The following processes use the enhanced functionality:

- Entering a new outpatient medication order through pharmacy options
- Finishing a pending outpatient medication order
- Renewing an outpatient medication order
- When a new outpatient medication order is created via an edit
- Verification of an outpatient medication order entered or finished by a non-pharmacist
- Copy of an outpatient medication order
- Reinstatement of an outpatient medication order

See illustrations below:

Example: Local RX

```
=====
*** THERAPEUTIC DUPLICATION(S) *** FAMOTIDINE 20MG TAB with

      Local Rx#: 2561
      Drug: CIMETIDINE 300MG TAB (DISCONTINUED)
      SIG: TAKE ONE TABLET BY MOUTH AT BEDTIME
      QTY: 30                      Days Supply: 30
      Processing Status: Released locally on 3/4/08@08:55:32 (Window)
      Last Filled On: 11/08/06

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents,
Histamine-2 Receptor Antagonists (H2 Antagonists)
=====
```

Example: Remote Rx

```
=====
*** THERAPEUTIC DUPLICATION(S) *** SUCRALFATE 1GM TAB with

      LOCATION: <VA OR DOD FACILITY> Remote Rx#: 65343
      Drug: RANITIDINE HCL 150MG TAB (EXPIRED)
      SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
      QTY: 180                      Days Supply: 90
      Last Filled On: 11/08/06

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents
=====
```

Example: Pending Order

```
*** THERAPEUTIC DUPLICATION(S) *** NIZATIDINE 150MG CAP with

      Pending Drug: FAMOTIDINE 20MG TAB
      SIG: TAKE ONE TABLET BY TWICE DAILY

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents
```

Example: Non-VA Med Order

```
=====
*** THERAPEUTIC DUPLICATION(S) *** FAMOTIDINE 20MG TAB with

      Non-VA Med: CIMETIDINE 300MG TAB
```

Dosage: 300MG Schedule: TWICE A DAY

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents,
Histamine-2 Receptor Antagonists (H2 Antagonists)

If the CANCEL DRUG IN SAME CLASS outpatient site parameter is set to 'No', the following information is shown for the duplicate therapy warning:

```
=====
=
*** THERAPEUTIC DUPLICATION(S) *** NIZATIDINE 150MG CAP with

  Local Rx #2561 (ACTIVE) for CIMETIDINE 300MG TAB

  Local Rx #2572 (PROVIDER HOLD) for SUCRALFATE 1MG TAB

  Remote Rx #2571 (DISCONTINUED) for RANITIDINE HCL 150MG TAB

  Pending Order for FAMOTIDINE 20MG TAB

  Non-VA Med Order for CIMETIDINE 300MG TAB

Class(es)Involved in Therapeutic Duplication(s): PEPTIC ULCER AGENTS,
HISTAMINE-2 RECEPTOR ANTAGOINSTS (H2 ANTAGONISTS)
=====
```

If there is more than one remote, local, pending or Non-VA med order involved in the therapeutic duplication, the order details will be displayed one after the other.

If the same drugs are involved in multiple therapeutic duplications, a single therapeutic duplication warning will be displayed and multiple therapeutic classes will be listed.

If the CANCEL DRUG IN SAME CLASS outpatient site parameter is set to 'No', no discontinue action prompt will be presented.

After all the therapeutic duplication warnings are displayed and if the CANCEL DRUG IN SAME CLASS outpatient site parameter is set to 'Yes', the user will be asked if they want to discontinue any of the orders.

See Examples:

```
Discontinue RX #2580A SUCRALFATE 1GM TAB? Y/N
```

```
Discontinue Pending Order SUCRALFATE 1GM TAB? Y/N
```

The system will only allow a discontinuation action on active, pending, non-verified and orders placed on hold by pharmacy.

The system will display the following information for the numbered list of orders:

- Prescription number (if applicable)
- Dispense Drug (Orderable item if dispense drug not assigned to order)
- Indicate if the order is pending (with text 'Pending Order')

See example below.

```
1. Pending order  AMLODIPINE 5MG/ATORVASTATIN 10MG
2. RX #2426  LOVASTATIN 40MG TAB
```

The discontinuation of selected orders by the system will occur at the time the user accepts the order that is being processed.

```
Discontinue order(s)? Y/N  Y es

1. RX #2577 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
2. RX #2581 CHOLESTYRAMINE 9GM PACKETS

Select (1-2): 1 Duplicate Therapy RX #2577 AMLODIPINE 5MG/ATORVASTATIN 10MG
TAB will be discontinued after the acceptance of the new order.
```

```
Discontinue order(s)? Y/N  Y es

1. RX #2577 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
2. Pending Order CHOLESTYRAMINE 9GM PACKETS

Select (1-2): 2 Duplicate Therapy Pending Order CHOLESTYRAMINE 9GM PACKETS
will be discontinued after the acceptance of the new order.
```

If the user fails to accept the order that is being processed or exits before accepting the order, the system shall not discontinue the order(s) selected.

The message displayed to the user shall contain:

- Indicate that discontinuance was for Duplicate Therapy
- The prescription number or text 'Pending order' if order status is pending.
- Dispense Drug (Orderable item if dispense drug not assigned to order)
- Ending with text 'NOT Discontinued.'

See examples below:

```
Duplicate Therapy  RX #2710 CIMETIDINE 300MG TAB NOT Discontinued.
```

```
Duplicate Therapy  Pending Order RANITIDINE 150MG TAB NOT Discontinued.
```

Once the order being processed is accepted and there were orders selected for discontinuation, the system shall inform the user when the discontinuation occurs.

The message displayed to the user shall contain:

- Indicate that discontinuance was for Duplicate Therapy
- The prescription number or text 'Pending order' if order status is pending.
- Dispense Drug (Orderable item if dispense drug not assigned to order)
- Ending with text 'has been discontinued.'

See examples below.

```
Duplicate Therapy RX #2549 CIMETIDINE 300MG TAB has been discontinued...
```

```
Duplicate Therapy  Pending Order RANITIDINE 150MG TAB has been discontinued...
```

See Therapeutic Duplication examples below:

Example: Finishing pending order – Therapeutic Duplication with Non-VA med and discontinued order -No discontinue action allowed.

```
*(1) Orderable Item: FAMOTIDINE TAB *** (N/F) *** <DIN>
(2)      CMOP Drug: FAMOTIDINE 20MG TAB *** (N/F) *** <DIN>
(3)      *Dosage: 20 (MG)
          Verb: TAKE
          Dispense Units: 1
          Noun: TABLET
          *Route: ORAL
+      Enter ?? for more actions
BY Bypass          DC Discontinue
ED Edit           FN Finish
Select Item(s): Next Screen// FN Finish

=====
*** THERAPEUTIC DUPLICATION(S) *** FAMOTIDINE 20MG TAB with

      Local Rx#: 2561
      Drug: CIMETIDINE 300MG TAB (DISCONTINUED)
      SIG: TAKE ONE TABLET BY MOUTH AT BEDTIME
      QTY: 30          Days Supply: 30
      Processing Status: Released locally on 3/4/08@08:55:32 (Window)
      Last Filled On: 11/08/06
-----
      Non-VA Med: CIMETIDINE 300MG TAB
      Dosage: 300MG   Schedule: TWICE A DAY

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents,
Histamine-2 Receptor Antagonists (H2 Antagonists)
=====

Press Return to Continue:

Rx # 2570          03/07/08
PSOPATIENT,ONE          #180
TAKE ONE TABLET BY MOUTH TWICE A DAY

FAMOTIDINE 20MG TAB
PSOPROVIDER,ONE          PSOPHARMACIST,ONE
# of Refills: 3

      SC Percent: 80%
      Disabilities: NONE STATED

Was treatment for a Service Connected condition? YES//
Are you sure you want to Accept this Order? NO//
```

Example: New Order Entry Backdoor – Therapeutic Duplication with pending and active order. Discontinue action shown.

```
PU Patient Record Update          NO New Order
PI Patient Information            SO Select Order
Select Action: Quit// no   New Order

Eligibility: SERVICE CONNECTED 50% to 100%   SC%: 80
RX PATIENT STATUS: SC//
DRUG: Nizatidine
```

```

Lookup: DRUG  GENERIC NAME
NIZATIDINE 150MG CAP          GA302
...OK? Yes//    (Yes)
=====
*** THERAPEUTIC DUPLICATION(S) *** NIZATIDINE 150MG CAP with

      Local Rx#: 2549
      Drug: CIMETIDINE 300MG TAB (ACTIVE)
      SIG: TAKE ONE TABLET BY MOUTH AT BEDTIME
      QTY: 30                      Days Supply: 30
Processing Status: Released locally on 3/4/09@08:55:32 (Window)
Last Filled On: 11/08/06
-----

      Pending Drug: FAMOTIDINE 20MG TAB
      SIG: TAKE ONE TABLET BY TWICE DAILY

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents,
Histamine-2 Receptor Antagonists (H2 Antagonists)
=====
Discontinue order(s)? Y/N  No

Press Return to Continue...

Available Dosage(s)
  1. 150MG
  2. 300MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list:
.
.
      OR

Discontinue order(s)? Y/N  Y es

  1. Pending Order FAMOTIDINE 20MG TAB
  2. RX #2549 CIMETIDINE 300MG TAB

Select (1-2):  2  RX #2549 CIMDTIDINE 300MG TAB will be discontinued after the
acceptance of the new order.

Available Dosage(s)
  1. 150MG
  2. 300MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 150MG

You entered 150MG is this correct? Yes//    YES
VERB: TAKE
DISPENSE UNITS PER DOSE(TABLET): 1// 1
Dosage Ordered: 150MG

NOUN: TABLET
ROUTE: PO//    ORAL          PO  MOUTH
Schedule:
This is a required response. Enter '^' to exit
Schedule: BID (TWO TIMES A DAY)
LIMITED DURATION (IN DAYS, HOURS OR MINUTES):
CONJUNCTION:
PATIENT INSTRUCTIONS:

```

```

(TAKE ONE TABLET BY MOUTH TWO TIMES A DAY)

DAYS SUPPLY: (1-90): 60//
QTY ( ) : 360// 180
COPIES: 1// 1
# OF REFILLS: (0-3): 3//
PROVIDER: PSOPROVIDER,ONE
CLINIC: BARB'S CLINIC 2
MAIL/WINDOW: WINDOW// WINDOW
METHOD OF PICK-UP:
REMARKS:
ISSUE DATE: TODAY// (MAR 12, 2008)
FILL DATE: (3/12/2008 - 3/13/2009): TODAY// (MAR 12, 2008)
Nature of Order: WRITTEN// W
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

Rx # 2580 03/12/08
PSOPATIENT,ONE #180
TAKE ONE TABLET BY MOUTH TWO TIMES A DAY

NIZATIDINE 150MG CAP
PSOPROVIDER,ONE PSOPHARMACIST,ONE
# of Refills: 3

SC Percent: 80%
Disabilities: NONE STATED

Was treatment for a Service Connected condition?
This is a required response. Enter '^' to exit
Was treatment for a Service Connected condition? NO
Is this correct? YES//

-Duplicate Therapy RX #2549 CIMETIDINE 300MG TAB has been discontinued...

Another New Order for PSOPATIENT,ONE? YES//

```

Example: Finishing Pending Order – Therapeutic Duplication with Non-Verified and Active orders. One drug is involved in both therapeutic duplications. One duplication allowance value is greater than ‘0’.

```

-----ACTIVE-----
1 2577 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB 90 A 03-07 03-07 3 90
2 2578 ITRACONAZOLE 100MG CAP 60 A 03-07 03-07 0 30
3 2576 SUCRALFATE 1MG TAB 120 A 03-07 03-07 0 30
-----NON-VERIFIED-----
4 2581 CHOLESTYRAMINE 9GM PACKETS 60 N 03-12 03-12 11 30
-----PENDING-----
5 SIMVASTATIN 20MG TAB QTY: 30 ISDT: 03-12 REF: 6

Enter ?? for more actions

ED Edit FN Finish

Pending OP Orders (ROUTINE) Mar 12, 2008@07:54:21 Page: 1 of 3
OPPATIENT, THREE <A>
PID: 666-44-4444 Ht (cm): _____ (_____)
DOB: JUL 3,1949 (58) Wt (kg): 51.36 (10/01/1996)

CPRS Order Checks:
CRITICAL drug-drug interaction: ITRACONAZOLE & SIMVASTATIN

```

(ITRACONAZOLE CAP,ORAL 100MG TAKE ONE CAPSULE BY MOUTH EVERY 12 HOURS [ACTIVE])
Overriding Provider: PSOPROVIDER,ONE
Overriding Reason: TESTING

CRITICAL drug-drug interaction: ITRACONAZOLE & SIMVASTATIN
ITRACONAZOLE CAP,ORAL 100MG PO BID [ACTIVE])
Overriding Provider: PSOPROVIDER,ONE
Overriding Reason: TESTING

Duplicate drug class order: ANTILIPEMIC AGENTS (CHOLESTYRAMINE 9GM PACKETS TAKE ONE PACKET BY MOUTH TWICE A DAY DISSOLVE IN WATER OR JUICE. [PENDING])

+ Enter ?? for more actions
BY Bypass DC Discontinue
ED Edit FN Finish
Select Item(s): Next Screen// FN Finish

=====
THERAPEUTIC DUPLICATION(S) *** SIMVASTATIN 20MG TAB with

Local Rx#: 2577
Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB (ACTIVE)
SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
QTY: 90 Days Supply: 90
Processing Status: Released locally on 3/7/08@08:55:32 (Window)
Last Filled On: 03/07/08

Local Rx#: 2581
Drug: CHOLESTYRAMINE 9GM PACKETS (NON-VERIFIED)
SIG: TAKE ONE PACKET BY MOUTH TWICE A DAY DISSOLVE IN WATER OR JUICE.
QTY: 60 Days Supply: 30
Processing Status: Not released locally (Window)
Last Filled On: 11/08/06

Class(es)Involved in Therapeutic Duplication(s): HMGCo-A Reductase Inhibitors, Antihyperlipidemics

=====
Discontinue order(s)? Y/N Y es

1. RX #2577 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
2. RX #2581 CHOLESTYRAMINE 9GM PACKETS

Select (1-2): 1 RX #2577 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB will be discontinued after the acceptance of the new order.

Rx # 2582 03/12/08
TEST,D #30
TAKE ONE TABLET BY MOUTH EVERY EVENING

SIMVASTATIN 20MG TAB
PSOPROVIDER,ONE PSOPHARMACIST,ONE
of Refills: 6

This Rx has been flagged by the provider as: NO COPAY

Was treatment related to Agent Orange exposure? YES//

```

Are you sure you want to Accept this Order? NO// YES

METHOD OF PICK-UP:
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

-Duplicate Therapy RX #2577 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB has been
discontinued...

Press Return to Continue:
.

```

Example: Renewing an order –Therapeutic Duplication involving 5 drugs, one therapy class and only one order can be discontinued.

```

+          Enter ?? for more actions
DC  Discontinue      PR  Partial          RL  Release
ED  Edit            RF  Refill           RN  Renew
Select Action: Next Screen// rn  Renew
FILL DATE:  (3/12/2008 - 3/13/2009): TODAY//  (MAR 12, 2008)
MAIL/WINDOW: WINDOW// WINDOW
METHOD OF PICK-UP:
Nature of Order: WRITTEN//          W
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

Now Renewing Rx # 2580   Drug: SUCRALFATE 1GM TAB

=====
*** THERAPEUTIC DUPLICATION(S) *** SUCRALFATE 1GM TAB with

      Local Rx#: 2574
      Drug: CIMETIDINE 300MG TAB (DISCONTINUED)
      SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
      QTY: 180                      Days Supply: 90
      Processing Status: Released locally on 3/7/08@08:55:32 (Window)
      Last Filled On: 03/07/08

-----

      Local Rx#: 2573
      Drug: NIZATIDINE 150MG CAP (HOLD)
      SIG: TAKE ONE CAPSULE BY MOUTH TWICE A DAY
      QTY: 180                      Days Supply: 90
      Processing Status: Released locally on 3/7/08@08:55:32 (Window)
      Last Filled On: 03/07/08

-----

      LOCATION: <VA OR DOD FACILITY>   Remote Rx#: 65343
      Drug: RANITIDINE HCL 150MG TAB (EXPIRED)
      SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
      QTY: 180                      Days Supply: 90

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents,
Histamine-2 Receptor Antagonists (H2 Antagonists)

=====
Discontinue RX #2573 NIZATIDINE 150MG CAP? Y/N No

Press Return to Continue:

```

```

2580A          SUCRALFATE 1MG TAB          QTY: 360
# OF REFILLS: 3  ISSUED: 03-12-08
SIG: TAKE ONE TABLET BY MOUTH FOUR TIMES A DAY
FILLED: 03-12-08
ROUTING: WINDOW      PHYS: PSOPROVIDER,ONE

Edit renewed Rx ? Y// n NO

      SC Percent: 80%
      Disabilities: NONE STATED

Was treatment for a Service Connected condition? NO//

```

Example: Verification of Non-Verified Order

```

OP Medications (NON-VERIFIED) Mar 12, 2008@09:02:56          Page: 1 of 2
PSOPATIENT,ONE                                             <A>
  PID: 666-00-0000                                         Ht (cm): _____ (_____)
  DOB: JAN 1,1910 (98)                                    Wt (kg): _____ (_____)

      Rx #: 2573
(1) *Orderable Item: NIZATIDINE CAP,ORAL
(2)      Drug: NIZATIDINE 150MG CAP
(3)      *Dosage: 150 (MG)
          Verb: TAKE
          Dispense Units: 1
          Noun: CAPSULE
          *Route: ORAL
          *Schedule: BID
(4)Pat Instructions:
          SIG: TAKE ONE CAPSULE BY MOUTH TWICE A DAY
(5) Patient Status: SC
(6) Issue Date: 03/07/08          (7) Fill Date: 03/07/08
    Last Fill Date: 03/07/08 (Window)
+ Enter ?? for more actions
DC Discontinue      PR (Partial)          RL (Release)
ED Edit            RF (Refill)           RN (Renew)
Select Action: Next Screen// VF  VF

RX: 2573          PATIENT: PSOPATIENT,ONE (666-00-0000)
STATUS: Non-Verified
  DRUG: NIZATIDINE 150MG CAP
  QTY: 180      90 DAY SUPPLY
  SIG: TAKE ONE CAPSULE BY MOUTH TWICE A DAY
  LATEST: 03/07/2008          # OF REFILLS: 3  REMAINING: 3
  ISSUED: 03/07/08          PROVIDER:
  LOGGED: 03/07/08          CLINIC: NOT ON FILE
  EXPIRES: 03/08/09          DIVISION: HINES (499)
  CAP: SAFETY          ROUTING: WINDOW
  ENTRY BY: PSOPROVIDER,ONE  VERIFIED BY:

PATIENT STATUS : SC          COPIES : 1

Press RETURN to Continue:
=====
*** THERAPEUTIC DUPLICATION(S) *** NIZATIDINE 150MG CAP with

      Local Rx#: 2580A
      Drug: SUCRALFATE 1GM TAB (ACTIVE)
      SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
      QTY: 180          Days Supply: 90
      Processing Status: Released locally on 3/12/08@08:55:32 (Window)
      Last Filled On: 03/12/08

```

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents

=====
Discontinue RX #2580A SUCRALFATE 1GM TAB ? Y/N No

Press Return to Continue:

EDIT: (Y/N/P): N// O

VERIFY FOR PSOPATIENT,ONE ? (Y/N/Delete/Quit): Y// ES

.

Example: Copying an Existing Order

New OP Order (COPY) Mar 12, 2008@09:15:48 Page: 1 of 2
PSOPATIENT,TWO <A>

PID: 000-00-0000

Ht(cm): 182.88 (04/13/2005)

DOB: JAN 1,1945 (63)

Wt(kg): 77.27 (04/13/2005)

Orderable Item: AMLODIPINE/ATORVASTATIN TAB

(1) Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB

(2) Patient Status: OPT NSC

(3) Issue Date: MAR 12,2008

(4) Fill Date: MAR 12,2008

Verb: TAKE

(5) Dosage Ordered: ONE TABLET

Route: ORAL

Schedule: QAM

(6)Pat Instruction:

SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING

(7) Days Supply: 30

(8) QTY (): 30

(9) # of Refills: 11

(10) Routing: WINDOW

(11) Clinic:

(12) Provider: PSOPROVIDER,ONE

(13) Copies: 1

+ Enter ?? for more actions

AC Accept

ED Edit

Select Action: Next Screen// AC Accept

Duplicate Drug in Local Rx:

Rx #: 2584

Drug: AMLODIPINE 5MG/ATORVASTATIN 10MG TAB

SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING

QTY: 30

Refills remaining: 11

Provider: OPPROVIDER, ONE

Issued: 03/12/07

Status: ACTIVE

Last filled on: 03/12/07

Processing Status: Released locally on 03/12/07@08:55:32 (Window)

Days Supply: 30

Discontinue Rx #2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB? Y/N YES

Rx #2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB will be discontinued after the acceptance of the new order.

=====
*** THERAPEUTIC DUPLICATION(S) *** AMLODIPINE 5MG/ATORVASTATIN 10MG TAB with

Pending Drug: LOVASTATIN 20MG TAB

SIG: TAKE ONE TABLET BY MOUTH AT BEDTIME FOR HIGH CHOLESTEROL

Pending Drug: NIFEDIPINE 10MG CAP

SIG: TAKE ONE CAPSULE BY MOUTH THREE TIMES A DAY

Class(es)Involved in Therapeutic Duplication(s): Calcium Channel Blockers,
HMGCo-A Reductase Inhibitors

=====
Discontinue order(s)? Y/N Y es

1. Pending Order NIFEDIPINE 10MG CAP
2. Pending Order LOVASTATIN 20MG TAB

Select (1-2): 1-2 Pending Order NIFEDIPINE 10MG CAP will be discontinued
after the acceptance of the new order.
Pending Order LOVASTATIN 20MG TAB will be discontinued after the acceptance of
the new order.

Nature of Order: WRITTEN// W
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

Rx # 2585 03/12/08
PSOPATIENT,TWO T #30
TAKE ONE TABLET BY MOUTH EVERY MORNING

AMLODIPINE 5MG/ATORVASTATIN 10MG TAB
PSOPROVIDER,ONE PSOPHARMACIST,ONE
of Refills: 11

SC Percent: 40%
Disabilities: NONE STATED

Was treatment for Service Connected condition? NO//

Is this correct? YES// ...

Duplicate Drug Rx 2584 AMLODIPINE 5MG/ATORVASTATIN 10MG TAB has been
discontinued..

Duplicate Therapy Pending Order NIFEDIPINE 10MG CAP has been discontinued..
Duplicate Therapy Pending Order LOVASTATIN 20MG TAB has been discontinued..

Example: Reinstating a Discontinued Order

```
Rx #: 2586
(1) *Orderable Item: CIMETIDINE TAB
(2) Drug: CIMETIDINE 300MG TAB
(3) *Dosage: 300 (MG)
    Verb: TAKE
    Dispense Units: 1
    Noun: TABLET
    *Route: ORAL
    *Schedule: QHS
(4)Pat Instructions:
    SIG: TAKE ONE TABLET BY MOUTH AT BEDTIME
(5) Patient Status: OPT NSC
(6) Issue Date: 03/12/08 (7) Fill Date: 03/12/08
    Last Fill Date: 03/12/08 (Window)
+ Enter ?? for more actions
DC Discontinue PR (Partial) RL Release
ED (Edit) RF (Refill) RN Renew
Select Action: Next Screen// dc Discontinue
Are you sure you want to Reinstate? NO// y YES
```

```

Comments: testing duplicate therapy check
Nature of Order: SERVICE CORRECTION//          S

=====
*** THERAPEUTIC DUPLICATION(S) *** CIMETIDINE 300MG TAB with

      Local Rx#: 2576
      Drug: SUCRALFATE 1GM TAB (ACTIVE)
      SIG: TAKE ONE TABLET BY MOUTH FOUR TIMES A DAY
      QTY: 1200          Days Supply: 30
      Processing Status: Released locally on 3/7/08@08:55:32 (Window)
      Last Filled On: 03/07/08

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents
=====
Discontinue RX # 2576 SUCRALFATE 1GM TAB? Y/N NO - Prescription was not
discontinued...

Prescription #2586 REINSTATED!
  Prescription #2586 Filled: MAR 12, 2008 Printed:          Released:
  Either print the label using the reprint option
  or check later to see if the label has been printed.
.

```

Example: Creating a New Order – Editing the Orderable Item

```

Rx #: 2594
(1) *Orderable Item: ENALAPRIL TAB ***(N/F)***
(2) Drug: ENALAPRIL 5MG TAB ***(N/F)***
(3) *Dosage: 5 (MG)
    Verb: TAKE
    Dispense Units: 1
    Noun: TABLET
    *Route: ORAL
    *Schedule: QAM
(4) Pat Instructions:
    SIG: TAKE ONE TABLET BY MOUTH EVERY MORNING
(5) Patient Status: SC
(6) Issue Date: 03/12/08          (7) Fill Date: 03/12/08
    Last Fill Date: 03/12/08 (Window)
+ Enter ?? for more actions
DC Discontinue          PR Partial          RL Release
ED Edit                RF Refill           RN Renew
Select Action: Next Screen// 1

Current Orderable Item: ENALAPRIL TAB

Select PHARMACY ORDERABLE ITEM NAME: ENALAPRIL// dip
  1  DIPHENHYDRAMINE      CREAM, TOP
  2  DIPHENHYDRAMINE      CAP, ORAL
  3  DIPYRIDAMOLE         TAB
CHOOSE 1-3: 3  DIPYRIDAMOLE         TAB

New Orderable Item selected. This edit will create a new prescription!

Press Return to Continue...

DRUG NAME REQUIRED!

```

Instructions:

The following Drug(s) are available for selection:

1. DIPYRIDAMOLE 25MG TAB
2. DIPYRIDAMOLE 50MG TAB

Select Drug by number: (1-2): 1

=====
*** THERAPEUTIC DUPLICATION(S) *** DIPYRIDAMOLE 25MG TAB with

Local Rx#: 2560
Drug: WAFFARIN 5MG TAB (ACTIVE)
SIG: TAKE ONE TABLET BY MOUTH EVERY EVENING
QTY: 90 Days Supply: 90
Processing Status: Released locally on 3/4/08@08:55:32 (Window)
Last Filled On: 03/04/08

Class(es)Involved in Therapeutic Duplication(s): Antiplatelet Drugs,
Antithrombotic Drugs

=====
Discontinue RX # 2560 WAFFARIN 5MG TAB? Y/N NO -Prescription was not
discontinued...

You have changed the Orderable Item from ENALAPRIL to
DIPYRIDAMOLE.

Do You want to Edit the SIG? NO// y YES

Available Dosage(s)

1. 25MG
2. 50MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 25MG

You entered 25MG is this correct? Yes// YES

VERB: TAKE// TAKE

DISPENSE UNITS PER DOSE(TABLET): 1// 1

Dosage Ordered: 25MG

NOUN: TABLET// TABLET

ROUTE: ORAL// ORAL

Schedule: QAM// tid (THREE TIMES A DAY)

LIMITED DURATION (IN MONTHS, WEEKS, DAYS, HOURS OR MINUTES):

CONJUNCTION:

New OP Order (ROUTINE) Mar 12, 2008@10:58:24 Page: 1 of 2

PSOPATIENT,ONE

PID: 666-00-0000

Ht (cm): _____ (_____)

DOB: JAN 1,1910 (98)

Wt (kg): _____ (_____)

Orderable Item: DIPYRIDAMOLE TAB

(1) Drug: DIPYRIDAMOLE 25MG TAB

(2) Patient Status: SC

(3) Issue Date: MAR 12,2008

(4) Fill Date: MAR 12,2008

(5) Dosage Ordered: 25 (MG)

Verb: TAKE

Dispense Units: 1

Noun: TABLET

Route: ORAL

Schedule: TID

```

(6)Pat Instruction:
      SIG: TAKE ONE TABLET BY MOUTH THREE TIMES A DAY
(7)  Days Supply: 90                (8)  QTY (TAB): 180
(9)  # of Refills: 3                (10) Routing: WINDOW
+    This change will create a new prescription!
AC  Accept                          ED  Edit
Select Action: Next Screen// ac  Accept
Nature of Order: SERVICE CORRECTION//      S
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No//  NO

Rx # 2595                03/12/08
PSOPATIENT,ONE                #180
TAKE ONE TABLET BY MOUTH THREE TIMES A DAY

DIPYRIDAMOLE 25MG TAB
PSOPROVIDER,ONE                PSOPHARMACIST,ONE
# of Refills: 3

The Pharmacy Orderable Item has changed for this order. Please review any
existing SC or Environmental Indicator defaults carefully for appropriateness.

      SC Percent: 80%
      Disabilities: NONE STATED

Was treatment for a Service Connected condition? YES//
Is this correct? YES// ...
.

```

Example: Cancel drug in same class parameter set to No

```

PSOPATIENT,ONE                <A>
PID: 666-00-0000                Ht (cm): _____ (_____)
DOB: JAN 1,1910 (98)            Wt (kg): _____ (_____)
SEX: FEMALE                Non-VA Meds on File        Last entry on 03/03/08
                                ISSUE  LAST REF DAY
#  RX #      DRUG                QTY ST  DATE  FILL  REM  SUP
-----ACTIVE-----
1  2562      AMINOPHYLLINE 200MG TAB        360 A  03-04  03-04  3  90
2  2567      CAPTOPRIL 12.5MG TAB          180 A  03-06  03-06  3  90
3  2563      CISAPRIDE 10MG                90 A  03-06  03-06  3  90
4  2568      DIGOXIN 0.125MG              30 A  03-06  03-06  3  90
5  2550      IBUPROFEN 600MG TAB          270 A  03-03  03-04  3  90
6  2560      WARFARIN 5MG TAB              90 A  03-04  03-04  3  90
-----DISCONTINUED-----
7  2561      CIMETIDINE 300MG TAB          90 DC  03-04  03-04  3  90
-----HOLD-----
+    Enter ?? for more actions
PU  Patient Record Update        NO  New Order
PI  Patient Information           SO  Select Order
Select Action: Next Screen// NO  New Order

Eligibility: SERVICE CONNECTED 50% to 100%    SC%: 80
RX PATIENT STATUS: SC//
DRUG: NIZATIDINE
  Lookup: GENERIC NAME
NIZATIDINE 150MG CAP                GA301
      ...OK? Yes//  (Yes)

```

```

=====
*** THERAPEUTIC DUPLICATION(S) *** NIZATIDINE 150MG CAP with

Local Rx #2561 (ACTIVE) for CIMETIDINE 300MG TAB

Local Rx #2572 (PROVIDER HOLD) for SUCRALFATE 1MG TAB

Remote Rx #2571 (DISCONTINUED) for RANITIDINE HCL 150MG TAB

Pending Order FAMOTIDINE 20MG TAB

Non-VA Med Order for CIMETIDINE 300MG TAB

Class(es) Involved in Therapeutic Duplication(s): PEPTIC ULCER AGENTS,
HISTAMINE-2 RECEPTOR ANTAGOINSTS (H2 ANTAGONISTS)
=====
VERB: TAKE
Available Dosage(s)
    1. 150MG
    2. 300MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list:
.

```

Example: Entering a New Order – Not accepting order, duplicate therapy not discontinued

```

Select Action: Quit// NO    New Order

Eligibility: NSC          SC%: 5
RX PATIENT STATUS: OPT NSC//
DRUG: FAMOTIDINE
    Lookup: GENERIC NAME
FAMOTIDINE 20MG TAB          GA301
    ...OK? Yes//    (Yes)

Restriction/Guideline(s) exist.  Display? : (N/D/O/B): No//    NO
Now doing allergy checks.  Please wait...

Now Processing Enhanced Order Checks!  Please wait...

-----
*** THERAPEUTIC DUPLICATION(S) *** FAMOTIDINE 20MG TAB with

Local RX#: 2586A
Drug: CIMETIDINE 300MG TAB (DISCONTINUED)
SIG: TAKE ONE TABLET BY MOUTH AT BEDTIME
QTY: 90                      Days Supply: 30
Processing Status: Released locally on 3/12/08@08:55:32 (Window)
Last Filled On: 03/12/08

-----
Press Return to Continue:

Local RX#: 2710
Drug: RANITIDINE HCL 150MG TAB (ACTIVE)
SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
QTY: 60                      Days Supply: 30
Processing Status: Released locally on 6/1/09@08:55:32 (Window)
Last Filled On: 06/01/09

```

Press Return to Continue:

Class(es)Involved in Therapeutic Duplication(s): Peptic Ulcer Agents,
Histamine-2 Receptor Antagonists (H2 Antagonists)

=====
Press Return to Continue:

Discontinue Rx #2710 for RANITIDINE HCL 150MG TAB Y/N ? YES

Duplicate Therapy RX #2710 RANITIDINE HCL 150MG TAB will be discontinued after
the acceptance of the new order.

=====
VERB: TAKE

Available Dosage(s)

1. 20MG
2. 40MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 1 20MG

You entered 20MG is this correct? Yes// YES

VERB: TAKE

DISPENSE UNITS PER DOSE(TABLET): 1// 1

Dosage Ordered: 20MG

NOUN: TABLET

ROUTE: PO// ORAL PO MOUTH

Schedule: BID// QAM (EVERY MORNING)

LIMITED DURATION (IN DAYS, HOURS OR MINUTES):

CONJUNCTION:

PATIENT INSTRUCTIONS:

(TAKE ONE TABLET BY MOUTH EVERY MORNING)

DAYS SUPPLY: (1-90): 30// ^

RX DELETED

Duplicate Therapy RX #2710 RANITIDINE HCL 150MG TAB NOT Discontinued.

CPRS Order Checks

Three CPRS order checks have been added to the list of order checks performed within the Outpatient Pharmacy application.

- Aminoglycoside Ordered
- Dangerous Meds for Patient >64
- Glucophage –Lab Results

The CPRS order checks shall be incorporated in the following Outpatient Pharmacy order entry processes:

- Entering a new order via backdoor pharmacy options
- Finishing a pending order
- Renewing an order

- Editing an order which results in a new order being created.
- Verifying an order
- Copying an order
- Reinstating a discontinued order

No user action/intervention shall be required after a CPRS order check warning is displayed.

The following information is displayed for the Aminoglycoside Ordered order check:

- Order Check Name
- Text message displaying an estimated CrCL if available or a message that it is not.

```
***Aminoglycoside Ordered***
Aminoglycoside - est. CrCl: <VALUE> (CREAT: <result> BUN: <result>) [Est. CrCl
Based on modified Cockcroft-Gault equation using Adjusted Body Weight (if ht >
60 in)].
```

-OR-

```
***Aminoglycoside Ordered***
Aminoglycoside - est. CrCl: <Unavailable> (<Results Not Found>) [Est. CrCl
Based on modified Cockcroft-Gault equation using Adjusted Body Weight (if ht >
60
```

The following information is displayed for the Dangerous Meds for Patient >64 order check:

- Order Check Name
- Text message displaying a message if patient is greater than 64 and has been prescribed Amitriptyline

```
***Dangerous Meds for Patient >64***
Patient is <age>. Amitriptyline can cause cognitive impairment and loss of
balance in older patients. Consider other antidepressant medications on
formulary.
```

-OR-

Text message displaying a message if patient is greater than 64 and has been prescribed Chlorpropamide

```
***Dangerous Meds for Patient >64***
Patient is <age>. Older patients may experience hypoglycemia with
Chlorpropamide due do its long duration and variable renal secretion. They may
also be at increased risk for Chlorpropamide-induced SIADH.
```

-OR-

Text message displaying a message if patient is greater than 64 and has been prescribed Dipyridamole

```
***Dangerous Meds for Patient >64***  
  
Patient is <age>. Older patients can experience adverse reactions at high  
doses of Dipyridamole (e.g., headache, dizziness, syncope, GI intolerance.)  
There is also questionable efficacy at lower doses.
```

The following information is displayed for the Glucophage Lab Results order check:

- Order Check Name
- Text message displaying a serum creatinine does not exist or it is greater than 1.5

```
***Metformin Lab Results***  
  
Metformin - no serum creatinine within past 60 days.
```

-OR-

```
***Metformin Lab Results***  
  
Metformin - Creatinine results: <creatinine greater than 1.5 w/in past <x>  
days>
```

Examples of CPRS Order Checks

New Order Entry – Backdoor – Dangerous Meds for Patient > 64 for Dipyridamole

```
Select Action: Quit// NO   New Order  
  
Eligibility: NSC  
RX PATIENT STATUS: OPT NSC//  
DRUG: DIPYRIDAMOLE  
  Lookup: GENERIC NAME  
    1  DIPYRIDAMOLE 25MG TAB          BL117  
    2  DIPYRIDAMOLE 50MG TAB          BL117  
CHOOSE 1-2: 1  DIPYRIDAMOLE 25MG TAB          BL117  
  
***DANGEROUS MEDS FOR PATIENT >64***  
  
Patient is 78. Older patients can experience adverse reactions at high doses  
of Dipyridamole (e.g., headache, dizziness, syncope, GI intolerance.) There is  
also questionable efficacy at lower doses.  
  
VERB: TAKE  
Available Dosage(s)  
  1. 25MG  
  2. 50MG  
  
Select from list of Available Dosages, Enter Free Text Dose  
or Enter a Question Mark (?) to view list: 1 25MG  
  
You entered 25MG is this correct? Yes//   YES  
VERB: TAKE  
DISPENSE UNITS PER DOSE(TABLET): 1// 1  
Dosage Ordered: 25MG
```

NOUN: TABLET
ROUTE: PO//
.
.

Renewing an Order – Dangerous Meds for Patient >64 for Chlorpropamide

Rx #: 2613\$
(1) *Orderable Item: CHLORPROPAMIDE TAB
(2) Drug: CHLORPROPAMIDE 250MG TAB
(3) *Dosage: 250 (MG)
Verb: TAKE
Dispense Units: 1
Noun: TABLET
*Route: ORAL
*Schedule: BID
(4)Pat Instructions:
SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
(5) Patient Status: OPT NSC
(6) Issue Date: 03/25/08 (7) Fill Date: 03/25/08
Last Fill Date: 03/25/08 (Mail)
+ Enter ?? for more actions
DC Discontinue PR Partial RL Release
ED Edit RF Refill RN Renew
Select Action: Next Screen// RN Renew

FILL DATE: (3/25/2008 - 3/26/2009): TODAY// (MAR 25, 2008)
MAIL/WINDOW: WINDOW// WINDOW
METHOD OF PICK-UP:
Nature of Order: WRITTEN// W
WAS THE PATIENT COUNSELED: NO// NO

Do you want to enter a Progress Note? No// NO

Now Renewing Rx # 2613 Drug: CHLORPROPAMIDE 250MG TAB

DANGEROUS MEDS FOR PATIENT >64

Patient is 78. Older patients may experience hypoglycemia with Chlorpropamide due do its long duration and variable renal secretion. They may also be at increased risk for Chlorpropamide-induced SIADH.

2613A CHLORPROPAMIDE 250MG TAB QTY: 60
OF REFILLS: 3 ISSUED: 03-25-08
SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
.

Creating New Order from Edit – Glucophage Lab Results for Metformin

*(1) Orderable Item: METFORMIN TAB,ORAL
(2) Drug: METFORMIN 500MG TAB
(3) *Dosage: 500 (MG)
Verb: TAKE
ED Edit FN Finish
Select Item(s): Next Screen// NEXT SCREEN

BY Bypass DC Discontinue
Pending OP Orders (ROUTINE) Mar 25, 2008@15:33:47 Page: 2 of 3
PSOPATIENT,NINE <A>
PID: 000-00-0000 Ht (cm): 177.80 (10/14/2005)
DOB: JAN 1,1930 (78) Wt (kg): 136.36 (10/14/2005)
+

```

Dispense Units: 1
      Noun: TABLET
      *Route: ORAL
      *Schedule: Q12H
(4) Pat Instruct:
Provider Comments:
      Instructions: TAKE ONE TABLET PO Q12H
      SIG: TAKE ONE TABLET BY MOUTH EVERY 12 HOURS
(5) Patient Status: OPT NSC
(6) Issue Date: MAR 25,2008      (7) Fill Date: MAR 25,2008
(8) Days Supply: 30      (9) QTY (TAB): 60
      Provider ordered 2 refills
(10) # of Refills: 2      (11) Routing: MAIL
(12) Clinic: BARB'S CLINIC
+ Enter ?? for more actions
ED Edit      FN Finish
Select Item(s): Next Screen// ED Edit
* Indicates which fields will create a new Order
Select Field to Edit by number: (1-15): 3

Press Return to :

Available Dosage(s)
      1. 500MG
      2. 1000MG

Select from list of Available Dosages, Enter Free Text Dose
or Enter a Question Mark (?) to view list: 500MG// 2 1000MG

You entered 1000MG is this correct? Yes// YES
VERB: TAKE// TAKE
DISPENSE UNITS PER DOSE(TABLETS): 2// 2
Dosage Ordered: 1000MG

NOUN: TABLETS// TABLETS
ROUTE: ORAL// ORAL
Schedule: Q12H// QHS (AT BEDTIME)
LIMITED DURATION (IN DAYS, HOURS OR MINUTES):
CONJUNCTION:

Pending OP Orders (ROUTINE) Mar 25, 2008@15:34:08      Page: 1 of 3
PSOPATIENT,NINE      <A>
      PID: 000-00-0000      Ht(cm): 177.80 (10/14/2005)
      DOB: JAN 1,1930 (78)      Wt(kg): 136.36 (10/14/2005)

CPRS Order Checks:
      Duplicate drug class order: ORAL HYPOGLYCEMIC AGENTS,ORAL (CHLORPROPAMIDE
      TAB 250MG TAKE ONE TABLET BY MOUTH TWICE A DAY [PENDING])
      Overriding Provider: PSOPROVIDER,TEN
      Overriding Reason: testing

      Metformin - no serum creatinine within past 60 days.
      Overriding Provider: PSOPROVIDER,TEN
      Overriding Reason: testing

*(1) Orderable Item: METFORMIN TAB,ORAL
(2) Drug: METFORMIN 500MG TAB
(3) *Dosage: 1000 (MG)
      Verb: TAKE

+ This change will create a new prescription!
AC Accept      ED Edit      DC Discontinue
Select Item(s): Next Screen// AC Accept

```



```

(11)          Clinic: SHIRL-2
(12)          Provider: PSOPROVIDER,TEN          (13)  Copies: 1
+            Enter ?? for more actions
AC  Accept          ED  Edit
Select Action: Next Screen// AC  Accept

```

Aminoglycoside Ordered

Aminoglycoside - est. CrCl: <Unavailable> (<Results Not Found>) [Est. CrCl based on modified Cockcroft-Gault equation using Adjusted Body Weight (if ht > 60 in)]

```

Nature of Order: WRITTEN//          W
WAS THE PATIENT COUNSELED: NO// NO

```

Do you want to enter a Progress Note? No// NO

```

Rx # 2617          03/25/08
PSOPATIENT,NINE          #10
INJECT 80MG IM EVERY 8 HOURS

```

```

GENTAMICIN 40MG/ML 2ML VI
PSOPROVIDER,TEN          PSOPHARMACIST,22
# of Refills: 0

```

Is this correct? YES//

Reinstating a Discontinued Order – Glucophage Lab Results for Metformin

```

Rx #: 2614$
(1) *Orderable Item: METFORMIN TAB,ORAL
(2)          Drug: METFORMIN 500MG TAB
(3)          *Dosage: 1000 (MG)
          Verb: TAKE
          Dispense Units: 2
          Noun: TABLETS
          *Route: ORAL
          *Schedule: QHS
(4)Pat Instructions:
          SIG: TAKE TWO TABLETS BY MOUTH AT BEDTIME
(5) Patient Status: OPT NSC
(6) Issue Date: 03/25/08          (7) Fill Date: 03/25/08
          Last Fill Date: 03/25/08 (Mail)
+            Enter ?? for more actions
DC  Discontinue          PR  (Partial)          RL  Release
ED  (Edit)          RF  (Refill)          RN  Renew
Select Action: Next Screen// DC  Discontinue
Are you sure you want to Reinstate? NO// YES

Comments: TESTING
Nature of Order: SERVICE CORRECTION//          S
=====
= 2614 METFORMIN 500MG TAB

Now Processing Enhanced Order Checks! Please wait...

***Metformin Lab Results***

Metformin - Creatinine results: <creatinine greater than 1.5 w/in past <x>
days>

```

```
Prescription #2614 REINSTATED!  
Prescription #2614 Filled: MAR 25, 2008Printed: MAR 25, 2008Released:  
Either print the label using the reprint option  
or check later to see if the label has been printed.
```

The list of available possible dosages shown after order checks is linked to the drug ordered. One of the dosages listed may be chosen or a different, free text dosage may be entered. Confirmation of the dosage is required and the value entered is displayed again to allow the user to confirm that it is correct.

Example: Entering a New Order (continued)

```
Available Dosage(s)  
1. 250MG  
2. 500MG  
3. 1000MG  
  
Select from list of Available Dosages, Enter Free Text Dose  
or Enter a Question Mark (?) to view list: 3 500MG  
  
You entered 500MG is this correct? Yes// <Enter> YES
```

For numeric dosages, the Dispense Units Per Dose value is calculated based on the strength of the dosage ordered divided by the strength of the medication ordered. The 500 mg dosage ordered will require two 250 mg capsules. The Dosage Ordered is re-displayed after the Dispense Units to allow the entry to be double-checked.

```
DISPENSE UNITS PER DOSE(CAPSULES): 2// <Enter> 2  
Dosage Ordered: 500MG
```

(This page included for two-sided copying.)

If a Route has not been associated with the Dispense Drug, the default Route of PO or Oral will be displayed. A different Route can be entered or it can be deleted at this point if needed. The Route is not required to complete a prescription. If the abbreviation entered is in the stored list of possible routes, the entry will be expanded in the Sig.

```
ROUTE: PO// <Enter> ORAL PO MOUTH
```

or

```
ROUTE: PO// @ <Enter to delete>
```

A default schedule associated with the drug ordered is displayed. The default can be accepted or a different free text schedule can be entered. Free text entries cannot contain more than two spaces or be more than twenty characters long. Entries will be compared against a list of common abbreviations and expanded if the entry matches. Any entry not found in the list of common abbreviations will be displayed in the Sig as entered.

```
Schedule: QID// (FOUR TIMES A DAY)
```

The LIMITED DURATION field is used only when a medication should be taken for a limited period of time. Days are assumed for numeric entries. Follow the number with an “H” to specify hours or an “M” to specify minutes.

NOTE: Do not use this field for Days Supply.

Example: Entering a New Order (continued)

```
LIMITED DURATION (IN DAYS, HOURS OR MINUTES): 10 (DAYS)
```

The CONJUNCTION field is used to join dosing sequences in complex orders. Entries are limited to AND, THEN, or EXCEPT. AND is used for concurrent doses, such as “Take 1 tablet every morning AND take 2 tablets at bedtime.” THEN is used for consecutive doses, such as “Take 2 tablets daily for one week THEN take 1 tablet for five days.” EXCEPT is used to describe any dosing sequence that is not routine, such as “Take 1 tablet every day EXCEPT take no tablets Wednesday.” See Chapter 2 in the *User Manual - Supplemental* for examples.

```
CONJUNCTION: <Enter>
```

Any entry in the PATIENT INSTRUCTIONS field will first be checked to see if it contains any abbreviations that can be expanded. The entry will be added to the end of the Sig, after the dosing information, and the entire Sig will be displayed.

```
PATIENT INSTRUCTIONS: WF WITH FOOD
```

```
(TAKE TWO CAPSULES BY MOUTH FOUR TIMES A DAY FOR 10 DAYS WITH FOOD)
```

```
OTHER PATIENT INSTRUCTIONS: WF CON ALIMENTO
```

Patch PSS*1*47 adds two new optional fields, OTHER LANGUAGE PREFERENCE and PMI LANGUAGE PREFERENCE in the PHARMACY PATIENT file (#55) that stores if a patient has another language preference and if the patient’s PMI sheets should print in English or Spanish at the CMOP. The CMOP functionality was requested for future CMOP use. When printing locally from Outpatient Pharmacy this parameter is not used. These fields are accessed through the option Update Patient Record [PSO PAT] and the protocol Patient Record Update [PSO PATIENT RECORD]

Example: Using the Copy Action

Medication Profile			Jun 12, 2001 14:39:11		Page: 1 of 1	
OPPATIENT16,ONE						
PID: 000-24-6802			Ht(cm): 177.80 (02/08/1999)			
DOB: APR 3,1941 (60)			Wt(kg): 90.45 (02/08/1999)			
#	RX #	DRUG	QTY	ST	ISSUE DATE	LAST REF DAY
-----ACTIVE-----						
1	503904\$	AMPICILLIN 250MG CAP	80	E	05-25	05-25 0 10
2	503886\$	DIGOXIN (LANOXIN) 0.2MG CAP	60	A>	05-07	05-07 5 30
3	503916	NADOLOL 40MG TAB	60	A>	06-12	06-12 11 30
-----DISCONTINUED-----						
4	503902	ACETAMINOPHEN 500MG TAB	60	DC>	05-22	05-22 3 30
Enter ?? for more actions						
PU	Patient Record Update		NO	New Order		
PI	Patient Information		SO	Select Order		
Select Action: Quit// SO Select Order						
Select Orders by number: (1-4):3						

The Order Number can be entered at the “Select Action” prompt instead of “SO”.

Once an order is selected, the Copy action can be used.

OP Medications (ACTIVE)			Jun 12, 2001 14:42:17		Page: 1 of 2	
OPPATIENT16,ONE						
PID: 000-24-6802			Ht(cm): 177.80 (02/08/1999)			
DOB: APR 3,1941 (60)			Wt(kg): 90.45 (02/08/1999)			
Rx #: 503916						
(1)	*Orderable Item: NADOLOL TAB *(N/F)**					
(2)	CMOP Drug: NADOLOL 40MG TAB *(N/F)**					
(3)	*Dosage: 40 (MG)					
	Verb: TAKE					
	Dispense Units: 1					
	Noun: TABLET					
	*Route: ORAL					
	*Schedule: BID					
(4)	Pat Instructions:					
	SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY					
(5)	Patient Status: SERVICE CONNECTED					
(6)	Issue Date: 06/12/01		(7) Fill Date: 06/12/01			
	Last Fill Date: 06/12/01 (Window)					
+ Enter ?? for more actions						
DC	Discontinue	PR	Partial	RL	Release	
ED	Edit	RF	Refill	RN	Renew	
Select Action: Next Screen// CO COPY						

-----example continues-----

After “CO” is entered, the heading on the screen changes to “New OP Order (COPY)” and the available actions are limited to “Accept” or “Edit”.

(New Order (Copy) screen displays merged to save space)

Example: Using the Copy Action (continued)

```
New OP Order (COPY)           Jun 12, 2001 14:47:53           Page:    1 of    2
OPPATIENT16, ONE
  PID: 000-24-6802                Ht (cm): 177.80 (02/08/1999)
  DOB: APR 3,1941 (60)           Wt (kg): 90.45 (02/08/1999)

Orderable Item: NADOLOL TAB ***(N/F)**
(1)      CMOP Drug: NADOLOL 40MG TAB ***(N/F)**
(2) Patient Status: SERVICE CONNECTED
(3)      Issue Date: JUN 12,2001           (4) Fill Date: JUN 12,2001
(5) Dosage Ordered: 40 (MG)
      Verb: TAKE
      Dispense Units: 1
      Noun: TABLET
      Route: ORAL
      Schedule: BID
(6) Pat Instruction:
      SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
(7)      Days Supply: 30                   (8)      QTY (TAB): 60
(9)      # of Refills: 11                  (10)     Routing: WINDOW
(11)     Clinic: OUTPT NURSE BLUE TEAM
(12)     Provider: OPPOVIDER4,TWO          (13)     Copies: 1
(14)     Remarks: New Order Created by copying Rx # 503916.
      Entry By: OPPOVIDER4,TWO            Entry Date: JUN 12,2001 14:47:53

+      Enter ?? for more actions
AC      Accept                ED      Edit
Select Action: Next Screen// AC      Accept
```

```
-----
Duplicate Drug in Local Rx:

      Rx #: 503916
      Drug: NADOLOL 40MG TAB
      SIG: TAKE ONE TABLET BY MOUTH TWICE A DAY
      QTY: 60           Refills remaining: 11
      Provider: OPPOVIDER4,TWO           Issued: 06/12/01
      Status: Active           Last filled on: 06/12/01
      Processing Status: Released locally on 06/12/01@11:34:13 (Mail)
                               Days Supply: 30
-----

Discontinue Rx # 503916? YES

Duplicate Drug will be discontinued after the acceptance of the new order.

Now doing order checks. Please wait...

Nature of Order: WRITTEN// ??

-----example continues-----
```

Example: Copying an ePharmacy Order (continued)

```

Medication Profile          Nov 04, 2005@09:24:04          Page: 1 of 1
OPPATIENT,FOUR             <A>
  PID: 000-01-1322P          Ht (cm): _____ (_____)
  DOB: JAN 13,1922 (83)      Wt (kg): _____ (_____)
  SEX: MALE

#  RX #          DRUG          QTY ST  DATE  FILL  REM  SUP
-----
OP Medications (ACTIVE)    Nov 04, 2005@09:24:17    Page: 1 of 3
OPPATIENT,FOUR             <A>
  PID: 000-01-1322P          Ht (cm): _____ (_____)
  DOB: JAN 13,1922 (83)      Wt (kg): _____ (_____)

Rx #: 100003852e
(1) *Orderable Item: PREDNISONONE TAB
(2)   CMOP Drug: PREDNISONONE 5MG TAB
(3)   *Dosage: 20 (MG)
      Verb: TAKE
      Dispense Units: 1
      Noun: TABLET
      *Route: ORAL
      *Schedule: QID
      *Duration: 30 (DAYS)
(4) Pat Instructions: WITH FOOD AVOIDING DAIRY FOODS
      SIG: TAKE ONE TABLET BY MOUTH FOUR TIMES A DAY FOR 30 DAYS
      WITH FOOD AVOIDING DAIRY FOODS
(5) Patient Status: OPT NSC

Enter ?? for more actions
DC  Discontinue          PR  Partial          RL  Release
ED  Edit                 RF  Refill           RN  Renew
Select Action: Next Screen// CO  CO
  
```

Once “Copy” is entered, the heading on the screen changes to “New OP Order (COPY)” and the available actions are limited to “Edit” or “Accept.”

```

New OP Order (COPY)        Nov 04, 2005@09:24:17          Page: 1 of 2
OPPATIENT,FOUR             <A>
  PID: 000-01-1322P          Ht (cm): _____ (_____)
  DOB: JAN 13,1922 (83)      Wt (kg): _____ (_____)

Orderable Item: PREDNISONONE TAB
(1)   CMOP Drug: PREDNISONONE 5MG TAB
(2) Patient Status: OPT NSC
(3)   Issue Date: NOV 4,2005          (4) Fill Date: NOV 4,2005
(5) Dosage Ordered: 20 (MG)
      Verb: TAKE
      Dispense Units: 1
      Noun: TABLET
      Route: ORAL
      Schedule: QID
      *Duration: 30 (DAYS)
(6) Pat Instruction: WITH FOOD AVOIDING DAIRY FOODS
      SIG: TAKE ONE TABLET BY MOUTH FOUR TIMES A DAY FOR 30
      DAYS WITH FOOD AVOIDING DAIRY FOODS

+ Enter ?? for more actions
AC  Accept                 ED  Edit
Select Action: Next Screen// AC  Accept
-----example continues-----
  
```

Example: Copying an ePharmacy Order (continued)

```
-----
Duplicate Drug in Local Rx:

      Rx #: 100003852
      Drug: PREDNISON 5MG TAB
      SIG: TAKE ONE TABLET BY MOUTH FOUR TIMES A DAY FOR 30
           DAYS WITH FOOD AVOIDING DAIRY FOODS
      QTY: 30                      Refills remaining: 5
      Provider: OPPROVIDER4,TWO      Issued: 11/04/05
      Status: Active                  Last filled on: 11/04/05
      Processing Status: Released locally on 11/04/05@11:34:13 (Mail)
                                           Days Supply: 30
-----

Discontinue Rx # 100003852? YES

Duplicate Drug will be discontinued after the acceptance of the new order.

Now doing order checks. Please wait...

Nature of Order: WRITTEN// <Enter> W
WAS THE PATIENT COUNSELED: NO// YES
WAS COUNSELING UNDERSTOOD: NO// YES

Do you want to enter a Progress Note? No// <Enter> NO

Rx # 100003853      11/04/05
OPPATIENT,FOUR      #30
TAKE ONE TABLET BY MOUTH FOUR TIMES A DAY FOR 30 DAYS WITH FOOD
AVOIDING DAIRY FOODS

PREDNISON 5MG TAB
OPPROVIDER4,TWO      OPPHARMACIST4,THREE
# of Refills: 5

Is this correct? YES// YES...
Reversing prescription 100003852.

Claim Status:
Reversing and Rebilling a previously submitted claim...
Reversing...
IN PROGRESS-Waiting for transmit
IN PROGRESS-Transmitting
IN PROGRESS-Waiting to process response
E REVERSAL ACCEPTED

-Rx 100003852 has been discontinued...

Prescription 100003853 successfully submitted to ECME for claim generation.

Claim Status:
IN PROGRESS-Waiting to start
IN PROGRESS-Waiting for packet build
IN PROGRESS-Waiting for transmit
IN PROGRESS-Transmitting
E PAYABLE
```

Chapter 13: CPRS Order Checks: How They Work

Introduction

In CPRS, Order Checks occur by evaluating a requested order against existing patient data. Most order checks are processed via the CPRS Expert System. A few are processed within the Pharmacy, Allergy Tracking System, and Order Entry packages. Order Checks are a real-time process that occurs during the ordering session and is driven by responses entered by the ordering provider. Order Check messages are displayed interactively in the ordering session.

Order Checks review existing data and current events to produce a relevant message, which is presented to patient caregivers. Order Checks use the CPRS Expert System (OCX namespace), to define logical expressions for this evaluation and message creation. In addition to the expert system Order Checks have some hard-coded algorithms. For example, the drug-drug interaction order check is made via an entry point in the pharmacy package whereas Renal Functions for Patients 65 and Over is defined as a rule in the CPRS Expert System.

Order Check Data Caching

Data caching was recently added to improve the speed of order checks. Before data caching, order checks could be slow because each order check retrieved data from the other VISTA packages—even if the order checks used the same data. With data caching, the first order check in an ordering session retrieves data from other VISTA packages, uses the data to evaluate whether it should display a warning, and then stores the retrieved data in the ^XTMP(“OCXCACHE” global for five minutes. The order checks that occur in the next five minutes can use the cached data, if it is the appropriate data, instead of retrieving data from the other packages. After five minutes, the cached data expires, and order checks must retrieve new data from the VISTA packages.

For example, before data caching was implemented, if an order check took 3 seconds to retrieve data from other VISTA packages, and there were 12 order checks, clinicians might wait 36 seconds to sign orders. With data caching, the first order check might take 3 seconds to retrieve the data, but subsequent order checks could use the cache and might take only .03 seconds each. That would be 3.33 seconds compared to 36 seconds. The numbers in this example are for illustration only and do not reflect real system speed. However, data caching should speed up order checks.

To avoid using all available disk space for storing data from order checks, there are several ways to clear the ^XTMP(“OCXCACHE” global. ORMTIME removes data from the global when it runs. The suggested frequency for running ORMTIME is every 30 minutes, but not every site runs it that frequently. Kernel clean up utilities also remove data from the cache when they run, which is usually every 24 hours. If needed, users that have access to the programmer’s prompt can manually clear the cache from that prompt by using PURGE^OCXCACHE.

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Chapter 14: Error Messages

Error Level	Error Message	Reason	Why message is being displayed.
System	No Enhanced Order Checks can be performed.	Vendor Database cannot be reached.	The connectivity to the vendor database has gone down. A MailMan message is sent to the G. PSS ORDER CHECKS mail group when the link goes down and when it comes back up.
System	No Enhanced Order Checks can be performed.	The connection to the vendor database has been disabled.	A user has executed the Enable/Disable Vendor Database Link [PSS ENABLE/DISABLE DB LINK] option and disabled the interface.
System	No Enhanced Order Checks can be performed	Vendor database updates are being processed	The vendor database (custom and standard data) is being updated using the DATUP (Data Update) process.
Drug	Enhanced Order Checks cannot be performed for Local or Local Outpatient Drug: <DRUG NAME>	Drug not matched to NDF	The local drug being ordered/ or on profile has not been matched to NDF. Matching the drug to a VA Product will eliminate this message.
Drug	Order Checks could not be done for Remote Drug: <DRUG NAME>, please complete a manual check for Drug Interactions and Duplicate Therapy. Remote order indicator		If this error message is displayed, it means that the VA product that the local or remote drug being ordered/ or on the local or remote profile does not have a GCNSEQNO or in rare cases, the GCNSEQNO assigned to the VA Product does not match up with a GCNSEQNO in the vendor database.
Drug	Enhanced Order Checks cannot be performed for Orderable Item: <OI NAME>	No active Dispense Drug found	Highly unlikely that this error would be seen. At the time the order check was being performed the orderable item did not have an active dispense drug associated.
Drug	Enhanced Order Checks cannot be performed for Orderable Item: <OI NAME>	No active, marked for IV Fluid Order Entry IV Additive/Solution found	The orderable item associate with an IV Fluid order did not have an active IV Additive/IV Solution marked for IV fluid order entry use at the time the order check was executed. This is another error the user will probably not see.

Error Information

The text in the error message and reason column will be displayed to the user. The type of error is displayed in column 1.

Two Levels of Error Messages

- System** When a system level error occurs, no Drug Interaction or Duplicate Therapy order checks that utilize the COTS database (FDB) will be performed. Other order checks, such as Allergy/ADRs, Duplicate Drug (for outpatient only), and the new CPRS order checks, etc. that are performed entirely within VISTA will continue to be executed.
- Drug** When a drug level error occurs, no Drug Interaction or Duplicate Therapy order checks will be performed for a specific drug. Drug level errors can occur for the prospective drug (drug being processed) or the profile drug. If a drug level error occurs on the prospective drug, no profile drug errors will be displayed. The only exception to this is when you are processing an IV order with multiple prospective drugs (i.e. multiple IV Additives). Profile drug level errors will only be shown once per patient session.
- There are two reasons that a drug level error is generated; the drug is not matched to NDF or the drug is matched to NDF, but the VA Product to which it is matched does not have a GCNSEQNO assigned or the GCNSEQNO assigned does not match up to the GCNSEQNO in the COTS database. The latter (GCNSEQNO mismatch) is rare.

Glossary

The following table provides definitions for common acronyms and terms used in this manual.

Acronym/Term	Definition
Action Profile	A list of all active and recently canceled or expired prescriptions for a patient sorted by classification. This profile also includes a signature line for each prescription to allow the physician to cancel or renew it.
Activity Log	A log, by date, of changes made to or actions taken on a prescription. An entry is made in this log each time the prescription is edited, canceled, reinstated after being canceled, or renewed. An entry will be made into this log each time a label is reprinted. A CMOP activity log will contain information related to CMOP dispensing activities.
Allergy/ADR Information	Includes non-verified and verified allergy and/or adverse reaction information as defined in the Adverse Reaction Tracking (ART) package. The allergy data is sorted by type (DRUG, OTHER, FOOD). If no data is found for a category, the heading for that category is not displayed.
AMIS	Automated Management Information System
Answer Sheet	An entry in the DUE ANSWER SHEET file. It contains the questions and answers of a DUE questionnaire. This term is also used to refer to the hard copy representation of a DUE ANSWER SHEET entry.
API	Application Programming Interfaces
APSP	Originally Indian Health Service Pharmacy's name space now owned by the Outpatient Pharmacy software.
Bypass	Take no action on a medication order.
CMOP	Consolidated Mail Outpatient Pharmacy.
CPRS	Computerized Patient Record System. CPRS is an entry point in VistA that allows the user to enter all necessary orders for a patient in different packages (e.g., Outpatient Pharmacy, Inpatient Pharmacy, etc.) from a single entry point.
Critical	Interactions with severe consequences that require some type of action (finding facts, contacting prescribers) to prevent potential serious harm.
DATUP	Data Update (DATUP). Functionality that allows the Pharmacy Enterprise Customization System (PECS) to send out custom and standard commercial-off-the-shelf (COTS) vendor database changes to update the two centralized databases at Austin and Martinsburg.
DEA	Drug Enforcement Agency
DEA Special Handling	The Drug Enforcement Agency special Handling code used for drugs to designate if they are over-the counter, narcotics, bulk compounds, supply items, etc.
DHCP	See VistA.

Acronym/Term	Definition
DIF	Drug Information Framework
Dispense Drug	The Dispense Drug name has the strength attached to it (e.g., Acetaminophen 325 mg). The name alone without a strength attached is the Orderable Item name.
DoD	Department of Defense
Dosage Ordered	After the user has selected the drug during order entry, the dosage ordered prompt is displayed.
Drug/Drug Interaction	The pharmacological or clinical response to the administration of a drug combination different from that anticipated from the known effects of the two agents when given alone.
DUE	Drug Usage Evaluation
ETC	Enhanced Therapeutic Classification system
Expiration/Stop	The date on which a prescription is no longer active. Typically, this date is 30 days after the issue date for narcotics, 365 days after the issue date for other medications and 365 days after the issue date for supplies.
FDB	First DataBank
Finish	Term used for completing orders from Order Entry/Results Reporting V. 3.0.
GUI	Acronym for Graphical User Interface.
Issue Date	The date on which the prescription was written. This date is usually, but not always, the same as the first fill date. This date cannot be later than the first fill date.
HDR-Hx	Health Data Repository Historical
HDR-IMS	Health Data Repository- Interim Messaging Solution
HFS	Host File Server.
Health Insurance Portability and Accountability Act of 1996 (HIPAA)	A Federal law that makes a number of changes that have the goal of allowing persons to qualify immediately for comparable health insurance coverage when they change their employment relationships. Title II, Subtitle F, of HIPAA gives HHS the authority to mandate the use of standards for the electronic exchange of health care data; to specify what medical and administrative code sets should be used within those standards; to require the use of national identification systems for health care patients, providers, payers (or plans), and employers (or sponsors); and to specify the types of measures required to protect the security and privacy of personally identifiable health care information. Also known as the Kennedy-Kassebaum Bill, the Kassebaum-Kennedy Bill, K2, or Public Law 104-191.
JCAHO	Acronym for Joint Commission on Accreditation of Healthcare Organizations
Label/Profile Monitor	A file for each printer which records, in the order in which they were printed, the last 1000 labels or profiles printed on that printer. This allows a rapid reprint of a series of labels or profiles that were damaged by a printer malfunction or other event.

Acronym/Term	Definition
Local Possible Dosages	Free text dosages that are associated with drugs that do not meet all of the criteria for Possible Dosages.
Medication Instruction File	The MEDICATION INSTRUCTION file is used by Unit Dose and Outpatient Pharmacy. It contains the medication instruction name, expansion and intended use.
Medication Order	A prescription.
Medication Profile	A list of all active or recently canceled or expired prescriptions for a patient sorted either by date, drug, or classification. Unlike the action profile, this profile is for information only and does not provide a signature line for a physician to indicate action to be taken on the prescription.
Medication Routes File	The MEDICATION ROUTES file contains medication route names. The user can enter an abbreviation for each route to be used at the local site. The abbreviation will most likely be the Latin abbreviation for the term.
Med Route	The method in which the prescription is to be administered (e.g., oral, injection).
NCCC	Acronym for National Clozapine Coordinating Center.
Non-Formulary Drugs	The medications, which are defined as commercially available drug products not included in the VA National Formulary.
Non-VA Meds	Term that encompasses any Over-the-Counter (OTC) medications, Herbal supplements, Veterans Health Administration (VHA) prescribed medications but purchased by the patient at an outside pharmacy, and medications prescribed by providers outside VHA. All Non-VA Meds must be documented in patients' medical records.
Order	Request for medication.
Orderable Item	An Orderable Item name has no strength attached to it (e.g., Acetaminophen). The name with a strength attached to it is the Dispense drug name (e.g., Acetaminophen 325mg).
Partial Prescription	A prescription that has been filled for a quantity smaller than requested. A possible reason for a partial fill is that a patient is to return to the clinic in ten days but the prescription calls for a thirty-day supply. Partials do count as workload but do not count against the total number of refills for a prescription.
Payer	In health care, an entity that assumes the risk of paying for medical treatments. This can be an uninsured patient, a self-insured employer, or a health care plan or Health Maintenance Organization (HMO).
Pending Order	A pending order is one that has been entered by a provider through CPRS without Pharmacy finishing the order. Once Pharmacy has finished the order, it will become active.
Pharmacy Narrative	OUTPATIENT NARRATIVE field that may be used by pharmacy staff to display information specific to the patient.
Polypharmacy	The administration of many drugs together.
POE	Acronym for Pharmacy Ordering Enhancements (POE) project. Patch PSO*7*46 contains all the related changes for Outpatient Pharmacy.

Acronym/Term	Definition
Possible Dosages	Dosages that have a numeric dosage and numeric dispense units per dose appropriate for administration. For a drug to have possible dosages, it must be a single ingredient product that is matched to the DRUG file. The DRUG file entry must have a numeric strength and the dosage form/unit combination must be such that a numeric strength combined with the unit can be an appropriate dosage selection.
Prescription	This term is now referred to throughout the software as medication orders.
Prescription Status	<p>A prescription can have one of the following statuses.</p> <p>Active - A prescription with this status can be filled or refilled.</p> <p>Canceled - This term is now referred to throughout the software as Discontinued. (See Discontinued.)</p> <p>Discontinued - This status is used when a prescription was made inactive either by a new prescription or by the request of a physician.</p> <p>Discontinued (Edit) - Discontinued (Edit) is the status used when a medication order has been edited and causes a new order to be created due to the editing of certain data elements.</p> <p>Deleted - This status is used when a prescription is deleted. Prescriptions are no longer physically deleted from the system, but marked as deleted. Once a prescription is marked deleted no access is allowed other than view.</p> <p>Expired - This status indicates the expiration date has passed. *Note: A prescription that was canceled or has expired more recently than the date specified by the cutoff date, typically 120 days in the past, can still be acted upon.</p> <p>Hold - A prescription that was placed on hold due to reasons determined by the pharmacist.</p> <p>Non-verified - There are two types of non-verified statuses. Depending on a site parameter, prescriptions entered by a technician do not become active until a pharmacist reviews them. Until such review, they remain non-verified and cannot be printed, canceled or edited except through the <i>Verification</i> menu.</p> <p>The second non-verified status is given to prescriptions when a drug/drug interaction is encountered during the new order entry or editing of a prescription.</p> <p>Pending - A prescription that has been entered through OERR.</p> <p>Refill - A second or subsequent filling authorized by the provider.</p> <p>Suspended - A prescription that will be filled at some future date.</p>
Progress Notes	A component of Text Integration Utilities (TIU) that can function as part of CPRS.
Provider	The person who authorized an order. Only users identified as providers who are authorized to write medication orders may be selected.
Reprinted Label	Unlike a partial prescription, a reprint does not count as workload.
Questionnaire	An entry in the DUE QUESTIONNAIRE file. This file entry contains the set of questions related to a DUE as well as the drugs being evaluated.
Schedule	The frequency by which the doses are to be administered, such as Q8H, BID, NOW, etc.
Sig	The instructions printed on the label.

Acronym/Term	Definition
Significant	The potential for harm is either rare or generally known so that it is reasonable to expect that all prescribers have taken this information into account.
Speed Actions	See Actions.
Suspense	A prescription may not be able to be filled on the day it was requested. When the prescription is entered, a label is not printed. Rather, the prescription is put in the RX SUSPENSE file to be printed at a later date.
Third (3rd) Party Claims	Health care insurance claims submitted to an entity for reimbursement of health care bills.
Time In	This is the time that the patient's name was entered in the computer.
Time Out	This is the time that the patient's name was entered on the bingo board monitor.
TIU	Text Integration Utilities; a package for document handling, that includes Consults, Discharge summary, and Progress Notes, and will later add other document types such as surgical pathology reports. TIU components can be accessed for individual patients through the CPRS, or for multiple patients through the TIU interface.
Units per Dose	The number of Units (tablets, capsules, etc.) to be dispensed as a Dose for an order. Fractional numbers will be accepted for medications that can be split.
VistA	Acronym for Veterans Health Information Systems and Technology Architecture, the new name for Decentralized Hospital Computer Program (DHCP).
Wait Time	This is the amount of time it took to fill the prescription. It is the difference between Time In and Time Out. For orders with more than one prescription, the wait time is the same for each.

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