



PHARMACY FY07 Q3

RELEASE NOTES

PSO*7*268

Version 7.0
July 2007

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Introduction

The Pharmacy Fiscal Year 2007 Quarter 3 (FY07 Q3) release includes updates in PSO*7*268. Installation instructions are included in the PSO*7*268 patch description.

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Outpatient Pharmacy V. 7.0

The FY07 Q3 release includes updates for Patient Safety Issues (PSIs) and miscellaneous enhancements.

Patient Safety Issues

The following PSIs were addressed by patch PSO*7*268:

- PSI-06-186 - Changing dispense drug and SIG
- PSI-06-184 - Enhancements for No Allergy Assessment

PSI-06-186 – Changing Dispense Drug and SIG

When entering a new order using the *Patient Prescription Processing* [PSO LM BACKDOOR ORDERS] option, and answering “NO” to the prompt "Is this correct? YES//", the software allows the option to edit the dispense drug. It allows you to select any active drug from the DRUG file (#50) and accept the order even though the entered SIG is incorrect. This patch will not list all the active drugs for selection during dispense drug edit, but will list only those drugs that are tied to that orderable item in the DRUG file (#50). Changing the dispense drug and Sig should not change the medical treatment intent of the order. VHA Pharmacies must have local policies that address pharmacist changing Dispense Drug and SIG.

Previously, when the dispense drug is changed the software prompts "Do You want to Edit the SIG? NO//." To read the current SIG you may have to scroll the screen up. This patch will now display the current SIG along with the prompt "Do You want to Edit the SIG? YES//".

If the Outpatient Pharmacy site parameter “EDIT DRUG” is set to YES and the dispense drug is changed on an existing prescription, then the current Sig is displayed along with the prompt "Do You want to Edit the SIG? YES//".

Example:

```
You have changed the dispense drug from  
AMOXAPINE 150MG TAB to AMOXAPINE 50MG TAB.
```

```
Current SIG: TAKE ONE TABLET BY MOUTH THREE TIMES A DAY FOR 10 DAYS WITH FOOD  
Do You want to Edit the SIG? YES//
```

When finishing a pending order through the Outpatient Pharmacy application, the software allows the option to edit the orderable item and select a different dispense drug, but does not prompt you to change the SIG. This can lead to an incorrect SIG. This patch will now prompt "Do You want to Edit the SIG? YES//".

PSI-06-184 - Enhancements for No Allergy Assessment

The following changes are included to make the pharmacist aware/act on prescriptions if they're being entered/finished for a patient with no allergy assessment:

- At the same spot where checking for bad address, add a check for no allergy assessment and provide a message to the user. (When the user continues on, he could choose EA to enter allergy information, stop with that patient, or continue on with ordering or finishing). See example 1.
- Within the profile information, display "No Assessment Made" next to the allergy header (like "NKA" currently shows) – see Example 2.
- On the profile header, on the right side of the line with patient name where <A> currently shows in reverse video if the patient has any allergy/adverse reaction information on file, show <NO ALLERGY ASSESSMENT> in reverse video if no assessment has been done. See example 3.

- If the pharmacist proceeds with drug entry for a patient with no allergy assessment, prompt to intervene just as if there had been an allergy reaction and treat this like a critical interaction (e.g., require the user to choose to continue processing and if so, prompt for an intervention). See Example 4.

Note: When flagging is available in backdoor Outpatient Pharmacy for pending orders, procedurally sites can choose to flag pending orders for patients awaiting an allergy assessment.

Example 1 – Patient Prescription Processing option update:

```
Select Rx (Prescriptions) Option: PATient Prescription Processing
Select PATIENT NAME: OPPATIENT16,ONE  OPPATIENT16,ONE  4-3-41  000246802
YES      SC VETERAN

      OPPATIENT16,ONE  (000-24-6802)
      No Allergy Assessment!

Press Return to continue:

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

Example 2 – Patient Prescription Processing option update (Patient Information screen):

```
Patient Information          May 01, 2007@12:12:12          Page: 1 of 1
OPPATIENT16,ONE             <NO ALLERGY ASSESSMENT>
  PID: 000-24-6802           Ht (cm): _____ (_____)
  DOB: SEP 7,1952 (55)       Wt (kg): _____ (_____)
  SEX: MALE

-----
Eligibility: SC LESS THAN 50%  SC%: 30

Disabilities:

101 ANYPLACE ST
OZONE PARK, NY
12345

                                PHONE:

Prescription Mail Delivery: Regular Mail

Allergies: No Allergy Assessment

+-----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: Next Screen//
```

Example 3 – Patient Prescription Processing option update (Medication Profile screen):

```
Medication Profile          May 01, 2007@12:12:12          Page:    1 of    1
OPPATIENT16,ONE          <NO ALLERGY ASSESSMENT>
  PID: 000-24-6802          Ht (cm) : _____ (_____)
  DOB: SEP 7,1952 (55)      Wt (kg) : _____ (_____)

                                ISSUE  LAST REF DAY
                                QTY ST  DATE   FILL REM SUP
-----ACTIVE-----
```

-----screen continues but is not shown-----

Example 4 – Patient Prescription Processing option update (No Allergy Assessment – Intervention Created):

```
There is no allergy assessment on file for this patient.
You will be prompted to intervene if you continue with this prescription
Do you want to Continue?: N// YES

Now creating Pharmacy Intervention
for  POTASSIUM CHLORIDE 325MG ENSEAL

PROVIDER: OPPROVIDER4, TWO
RECOMMENDATION: ?
  Answer with APSP INTERVENTION RECOMMENDATION, or NUMBER
  Choose from:
  1          CHANGE DRUG
  2          CHANGE FORM OR ROUTE OF ADMINISTRATION
  3          ORDER LAB TEST
  4          ORDER SERUM DRUG LEVEL
  5          CHANGE DOSE
  6          START OR DISCONTINUE A DRUG
  7          CHANGE DOSING INTERVAL
  8          NO CHANGE
  9          OTHER

RECOMMENDATION: 2  CHANGE FORM OR ROUTE OF ADMINISTRATION

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

Would you like to edit this intervention ? N// <Enter> O
```

Miscellaneous Enhancements

The following are miscellaneous enhancements to the Outpatient Pharmacy V. 7.0 software.

- Service Reject selection for Nature of Order prompt
- Patient eligibility status displayed
- Patient Status refreshed when changed with the PU action
- Patient lookup updated for remote data for order checks
- Mail status expiration date displayed
- CACHE locking issue

Service Reject Selection (HD172344)

This patch adds the SERVICE REJECT choice from the CPRS NATURE OF ORDER file (#100.02) to the current list of selections for the “Nature of Order:” prompt.

When chosen, SERVICE REJECT will generate an alert to the provider to electronically sign the prescription. Sites should ensure their operational policies include clear guidance on when the pharmacist would use the service reject option.

Example:

```
Nature of Order: WRITTEN// ?
Choose from:
1          WRITTEN      W
2          VERBAL      V
3          TELEPHONED  P
4          SERVICE CORRECTION  S
5          POLICY      I
6          DUPLICATE   D
12         SERVICE REJECT  R

Nature of Order: WRITTEN//
```

The “Nature Of Order” prompt is shown when entering new orders, discontinuing orders or making edits to critical fields. The following chart lists a description of each of the choices (new selection highlighted):

Nature of Order Activity	Require E.Signature	Print Chart Copy	Print on Summary
WRITTEN			X
VERBAL	X	X	X
TELEPHONED	X	X	X
SERVICE CORRECTION			
POLICY		X	X
DUPLICATE			
SERVICE REJECT	X	X	

There may be several instances where the usage of Service Reject for the Nature of Order field may be used in conjunction with local policy. Several sites have been using the service reject choice during order processing and have provided the following scenarios:

(1) When the pharmacist is processing pending outpatient pharmacy orders, if either the intent of provider is not clear or is not appropriate (i.e., dose out of range, provider not authorized to write for restricted/NF med, etc), then the pharmacy has the option of discontinuing the order and assigning SERVICE REJECT to the Nature of Order field. The pharmacist is first prompted to enter a justification of the discontinuation in the Comments section, and then enter a selection for Nature of Order. This nature of order generates a view alert in CPRS and requires the provider to electronically sign the order, acknowledging that the order has been discontinued and requires appropriate follow-up, based on the comments sent by the pharmacist.

(2) When finishing orders from OERR where the Pharmacy edit/intervention changes the intent of the order, the service may reject the original order. This may be due to lack of significant reason to hold the medication from the patient. The original order is discontinued, and a new unsigned order is generated, and reflects the changes for the physician's signature.

Patient Eligibility Update (HD67512)

The patient's eligibility will be displayed before prompting for patient status when finishing prescriptions or entering new orders. This ensures that the proper entry from the RX PATIENT STATUS file (#53) is being selected. This is stored in the PATIENT STATUS field (#3) of the PHARMACY PATIENT file (#55).

- In the *Patient Prescription Processing* [PSO LM BACKDOOR ORDERS] and the *Complete Orders from OERR* [PSO LMOE FINISH] options, after displaying the patient name, the patient's eligibility is displayed and the user is prompted for Rx Patient Status. If "NO" for New Order is entered, the eligibility is displayed again before the prompt for Rx Patient Status.
- For both of these options, the Patient Status prompt is updated to include "RX" in the prompt.

Example 1 - *Patient Prescription Processing* option update:

```
Select Rx (Prescriptions) Option: PATient Prescription Processing
Select PATIENT NAME: OPPatient10  OPPatient10,ONE  06-03-41  000246810
YES      SC VETERAN

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

Example 1 Patient Prescription Processing option update (continued):

Patient Information May 22, 2007 10:44:38 Page: 1 of 2
OPPATIENT10,ONE
PID: 000-24-6810 Ht (cm): 177.80 (02/08/2006)
DOB: JUN 3,1941 (67) Wt (kg): 90.45 (02/08/2006)
SEX: MALE
+
Eligibility: SC
Disabilities:
1B STREET
CHAT PHONE:
NEW YORK 12345
Prescription Mail Delivery: DO NOT MAIL Expire Date: JUN 01, 2008
Outpatient Narrative: N
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: Next Screen// <Enter> NEXT SCREEN
Quit// <Enter>

Patient Information May 22, 2007 10:44:38 Page: 2 of 2
OPPATIENT10,ONE
PID: 000-24-6810 Ht (cm): 177.80 (02/08/2006)
DOB: JUN 3,1941 (67) Wt (kg): 90.45 (02/08/2006)
SEX: MALE
+
Allergies:
Remote: ASPIRIN, NON-OPIOID ANALGESICS
Adverse Reactions:
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// <Enter>

Medication Profile May 22, 2007 10:44:56 Page: 1 of 1
OPPATIENT10,ONE
PID: 000-24-6810 Ht (cm): 177.80 (02/08/2006)
DOB: JUN 3,1941 (67) Wt (kg): 90.45 (02/08/2006)
AGE: 60
Last entry on 01/13/03
RX # DRUG QTY ST ISSUE LAST REF DAY
DATE FILL REM SUP
-----ACTIVE-----
1 503902 ACETAMINOPHEN 500MG TAB 60 A> 05-22 05-22 3 30
2 503886\$ DIGOXIN (LANOXIN) 0.2MG CAP 60 A> 05-07 05-07 5 30
-----PENDING-----
3 AMPICILLIN 250MG CAP QTY: 40 ISDT: 05-29 REF: 0
Enter ?? for more actions
PU Patient Record Update NO New Order
PI Patient Information SO Select Order
Select Action: Quit// NO New Order
Eligibility: SC
RX PATIENT STATUS: SERVICE CONNECTED// <Enter>

Example 2 - Complete Orders from OERR option update:

```
Select By: (PA/RT/PR/CL/E): PATIENT// ROUTE
Route: (W/M/C/E): WINDOW// MAIL

Do you want to see Medication Profile? Yes// <Enter>
      OPPATIENT,ONE (000-23-0777)
      No Allergy Assessment!

Press Return to continue: <Enter>

Eligibility: NSC
RX PATIENT STATUS: OPT NSC//
```

Patient Status Update (HD188707)

In the *Patient Prescription Processing* [PSO LM BACKDOOR ORDERS] option, if the Patient Update “PU” action is chosen and the PATIENT STATUS is changed to a new one, when returning to the option and choosing “NO” for New Order, the default PATIENT STATUS displayed is the one before the PU change was done. Patch PSO*7*268 makes a correction to refresh the PATIENT STATUS before displaying the default.

Patient Lookup Update (Enhancement)

The patient lookup for Outpatient Pharmacy V. 7.0 will be modified to include a check for the availability of remote data for order checks. This was requested to improve the performance of order checks. Once Remote Data Interoperability (RDI) is turned on at a site, if a problem has been detected with accessing remote data, the patient lookup will report that to the user when selecting a patient, rather than displaying “Remote data not available - Only local order checks processed.” for each individual order.

Example - Health Data Repository Unavailable

```
Select PATIENT NAME: OPPATIENT16,ONE  OPPATIENT16,ONE  4-3-41  000246802
      YES      SC VETERAN

      OPPATIENT16,ONE (000-24-6802)
      No Allergy Assessment!

Press Return to continue: <Enter>
Remote data not available - Only local order checks processed.

Press Return to continue... <Enter>

Eligibility: SC
RX PATIENT STATUS: SERVICE CONNECTED//
```

Mail Status Expiration Date Displayed (HD68535)

If the MAIL STATUS EXPIRATION DATE field (#.05) in the PHARMACY PATIENT file (#55) is less than today, the MAIL field (#.03) displays on the patient profile as if it is still active. This patch adds the display of the MAIL STATUS EXPIRATION DATE field next to the MAIL field on the patient profile for MAIL settings of Do Not Mail, Local - Regular Mail and Local - Certified Mail if the mail status is expired.

Example (Patient Information screen):

```
Patient Information          May 11, 2007@12:40:08          Page:    1 of    1
OPPATIENT16,ONE           <NO ALLERGY ASSESSMENT>
  PID: 000-24-6802         Ht (cm) : _____ (_____)
  DOB: SEP 7,1952 (55)     Wt (kg) : _____ (_____)
  SEX: MALE
-----
Eligibility: SC LESS THAN 50%    SC%: 30

Disabilities:

1B STREET
CHAT                               PHONE:
NEW YORK 12345
Prescription Mail Delivery: DO NOT MAIL Expire Date: MAY 01, 2007
Cannot use safety caps.

Allergies: No Allergy Assessment

Adverse Reactions:

-----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//
```

Mail Status Expiration Date Displayed

Cache Locking Issue (Enhancement)

With the deployment of Cache Version 5, it was discovered that the short lock timeout values could generate a lock failure. Patch DI*22*147, which has already been released, provided a solution to resolve this issue and future lock issues. This patch instituted a new default lock timeout of three seconds based on a global node setting of `^DD("DILOCKTM")=3`.

In order to avoid the lock issue, all routines that currently uses a lock timeout value less than 3 seconds is modified in this patch to check for the node `^DD("DILOCKTM")` and to use the value defined otherwise, default the lock timeout value to 3 seconds.

The following patches contain the fix for the locking issue:

- PSA*3*64
- PSD*3*66
- PSO*7*268
- PSS*1*125