Existing Product Intake Program (EPIP)

Patch PSJ\*5.0\*332

National Patch Module Patch Description



Department of Veterans Affairs

January 2019

Version 2.0

Revision History

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 01/31/2019 | 2.0 | Updates throughout | EPIP Project Team |
| 08/01/2017 | 1.0 | Initial (draft) version | EPIP Project Team |

National Patch Module Patch Description

***=============================================================================***

Run Date:DEC 06, 2018Designation: PSJ\*5\*332 TEST v1

Package :INPATIENT MEDICATIONS Priority : MANDATORY

Version : 5 Status :UNDER DEVELOPMENT

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Associated patches: (v)PSJ\*5\*357 <<= must be installed BEFORE `PSJ\*5\*332'

Subject: EPIP INPATIENT MEDICATIONS REMEDIATION 1.0

Category:ENHANCEMENT

ROUTINE

Description:

PSJ\*5.0\*332 provides the following enhancements to VistA:

- Enables pharmacists to create a header label for an outpatient syringe or mini-bag using the heading “\* OPT \*” (Outpatient) instead of “OPT. IV” (Outpatient Intravenous). This is necessary to prevent accidental administration through IV when the actual administration route is Intrathecal (spinal), Intradermal, or bladder/bowel/eye irrigation. This enhancement modifies the label print/reprint routines PSIVLABR, PSIVHYPL, and PSIVHYPR to use the new heading. By removing the reference to an IV administration route on the header label, this modification eliminates uncertainty and helps prevent medication errors.

- Enables pharmacists to print two or more IV header labels for each IV medication order instead of a single header label. At some sites, two header labels are needed – one to keep with the shift that completed the order, and another to communicate drip orders to the next shift. This enhancement modifies routine PSIVLABL to optionally print up to nine header labels, thus supporting both current and future needs. This functionality is optional; to enable it, sites must enter the required number of header labels in the HEADER LABEL field (#.107) in the IV ROOM file (#59.5), using the existing Site Parameters (IV) [PSJI SITE PARAMETERS] option. By storing the number of header labels in this file, the modification will support multiple settings at multidivisional sites.

- Enables pharmacists to remotely inspect and verify chemotherapeutic agents when a ScriptPro device interface exists at the local facility. Pharmacy technicians print and reprint IV labels for chemotherapeutic drugs ordered by the pharmacist. IV package components must then be approved by the pharmacist, who might be on a different floor from where the IV is prepared. This enhancement modifies IV label print/reprint routines PSIVLBL1 and PSIVLBRP to check for the presence of a ScriptPro device interface. If the interface exists, then the routines will send the medication information to the ScriptPro device. This eliminates the need for technicians to physically carry the IV components to a different floor for verification, or for pharmacists to walk to a different floor to visually inspect the items.

- Enables pharmacists to send pre-exchange order information to a BoxPicker drug dispensing machine when a BoxPicker device interface exists at the local facility. Pre-exchange doses are medications sent to wards or clinics to cover patient needs until the next 24-hour medication cart exchange. During order entry, routine PSGPEN requests pre-exchange dose information from the pharmacist. This enhancement modifies routine PSGPEN to call new routine PSGADM, which in turn calls the BoxPicker interface. This enables routine PSGPEN to send the specified number of pre-exchange doses to a BoxPicker device using a secure File Transfer Protocol (sFTP) background job. The BoxPicker device then packages and dispenses the medication for the patient. If a BoxPicker device is not used to automatically package and dispense medications, then pharmacy technicians must review the Pre-Exchange Report and manually package pre-exchange doses.

This patch adds four system-level parameters to the PARAMETER DEFINITION file (#8989.51). These parameters are accessible through the Systems Parameters Edit [PSJ SYS EDIT] option on the Unit Dose System [PSJU SYSTEM] menu. A Pharmacy Informaticist or ADPAC at each site can use these parameters to set up and maintain the BoxPicker interface. Parameters include:

- PSG BOX FIRST DOSE INT ON. Enables or disables access to the BoxPicker interface. The parameter is initially set to ‘I’ (Inactive). To enable the BoxPicker interface, the parameter must be set to ‘A’ (Active).

- PSG BOX SFTP SAVE FILE. Allows sites to retain files that were transferred from VistA to the BoxPicker Automated Dispensing Machine (ADM). This enables verification of file entries while testing the interface.

- PSG BOX FAIL QUE EXPIRY TIME. Enables entry of the number of seconds after which a queued entry in the interface will expire.

- PSG BOX SFTP CFG NAME. Allows sites with FTP Class II software from Region 1 to access their SFTP configuration. If any free-form text is entered in this parameter, and if the Region 1 software is installed, then the site’s SFTP software will invoke file transfer. If the parameter is blank, then the delivered patch routines will invoke file transfer.

This patch also includes two new secondary menu options required for sites that elect to install a BoxPicker ADM system. These menu options are:

- PSGBOX SWISS LOG SEND PL. Transmits a pick list to Swisslog, the third-party vendor of the BoxPicker ADM.

- PSGBOX SWISS LOG SFTP RETX. Retransmits files that remain on the Swisslog interface queue due to earlier transmission failures.

- Enables pharmacists to print Pre-Exchange Reports directly to blank labels during order entry, instead of printing to 8.5 x 11-inch paper. This patch adds the system-level parameter PSG PRE-EX REPORT ZEBRA LABELS to the PARAMETER DEFINITION file (#8989.51) to enable or disable ZEBRA label printer functionality. The parameter is accessible through the Systems Parameters Edit [PSJ SYS EDIT] option on the Unit Dose System [PSJU SYSTEM] menu. Initially, this parameter is set to OFF (No). A Pharmacy Informaticist or ADPAC at each site must set this parameter to ON (Yes) to enable label printer functionality.

This enhancement modifies Pre-Exchange Report routines PSGPER and PSGPER0 to print directly to labels based on the PSG PRE-EX REPORT ZEBRA LABELS parameter setting. When the parameter is set to ON (Yes), two drug identification labels are printed for each pre-exchange medication – one with a barcode, and one without. Currently, pharmacy staff must transfer pre-exchange medication information from the report to blank labels by handwriting the information on the labels, and must manually print barcodes for each pre-exchange medication. By automating these tasks, this modification prevents transcription errors and unnecessary labor.

- Enables pharmacy technicians to compare the Internal Entry Number (IEN) for each drug listed on the Pre-Exchange Report to the drug being dispensed. When technicians dispense medications for inpatient orders, they often find medications that have similar names and dosages but different forms, such as immediate release vs. sustained release. This enhancement modifies Pre-Exchange Report routines PSGPER0 and PSGPER2 to print the IEN of inpatient drugs ordered by the pharmacist. The modification enables pharmacy technicians to differentiate between products by using the IEN printed on the report rather than using the medication name and dosage only. This results in more accurate dispensing of inpatient medications.

- Enables pharmacy technicians to view the order priority on the Pre-Exchange Report, so they can immediately identify and fill urgent medication orders for inpatients. This enhancement modifies Pre-Exchange Report routines PSGPER0 and PSGPER2 to print the Priority of inpatient drugs ordered by the pharmacist. The Priority printed on the report originates from the Priority selection made by the provider on the Computerized Patient Record System (CPRS) Inpatient Medications screen. This modification increases the visibility of high-priority medications, thus preventing delays in care.

- Enables pharmacists and nurses to see when an inpatient medication is classified as a Restricted Drug while completing inpatient medication orders. The pharmacist or nurse can then verify that the medication has an approved Prior Authorization Drug Request consult on file. This enhancement modifies inpatient order entry routine PSJDIN to check for one of the following values in the DRUG file (#50): ‘R’ (Restricted) in the DEA, SPECIAL HDLG field (#3), or ‘Restricted’ in the RESTRICTION field (#120). If the drug is restricted, then the routines will display “\*\*(PA)\*\*” (Prior Authorization) after the Orderable Item name on the Order Entry screen.

This patch adds the system-level parameter PSS PRIOR AUTH NOTATION to the PARAMETER DEFINITION file (#8989.51) to enable or disable the Prior Authorization indicator. The parameter is accessible through the Pharmacy System Parameters Edit [PSS SYS EDIT] option, which is accessed from the Pharmacy Data Management [PSS MGR] menu. Initially, this parameter is set to OFF (No). A Pharmacy Informaticist or ADPAC at each site must set this parameter to ON (Yes) to enable display of the Prior Authorization indicator. The PSS PRIOR AUTH NOTATION parameter applies to both inpatient and outpatient medications; outpatient components are documented for patch PSO\*7.0\*492. Sites can use the report documented in patch PSS\*1.0\*216 to determine which drugs are Restricted prior to enabling this modification.

Patch Components:

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Files & Fields Associated:

File Name (Number)Field Name (Number) New/Modified/Deleted

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IV ROOM (#59.5) HEADER LABEL (#.107) Modified

Forms Associated:

Form Name File # New/Modified/Deleted

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N/A

Mail Groups Associated:

Mail Group Name New/Modified/Deleted

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N/A

Options Associated:

Option Name Type New/Modified/Deleted

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PSGBOX SWISS LOG SEND PL run routine New

PSGBOX SWISS LOG SFTP RETX run routine New

Protocols Associated:

Protocol Name New/Modified/Deleted

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N/A

Parameters Associated:

Parameter Name New/Modified/Deleted

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PSG BOX FIRST DOSE INT ON New

PSG BOX SFTP SAVE FILE New

PSG BOX FAIL QUE EXPIRY TIME New

PSG BOX SFTP CFG NAME New

PSG PRE-EX REPORT ZEBRA LABELS New

PSS PRIOR AUTH NOTATION Modified

Security Keys Associated:

Security Key Name

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N/A

Templates Associated:

Template Name Type File Name (Number) New/Modified/Deleted

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PSG KERNEL PARAMETERS New

Additional Information:

N/A

New Service Requests (NSRs):

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NSR20170313 Change IV Medication Route OPT IV to OPT

NSR20170315 Print 2 IV Header Labels

NSR20150905 ScriptPro Hook Interface

NSR20150709 BoxPicker Interface Hook

NSR20150308 Pre-Exchange Labels

NSR20140904 Display the IEN for Pharmacy Unit Dose Drug Orders

NSR20160804 Add the Priority to Pre-Exchange Report

NSR20150421 Restricted Drug Display

Patient Safety Issues (PSIs):

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N/A

Defect Tracking System Ticket(s) & Overview:

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N/A

Problem:

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N/A

Resolution:

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N/A

Test Sites:

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Milwaukee VA Medical Center, Milwaukee, Wisconsin

San Francisco VA Health Care System, San Francisco, California

James A. Haley Veterans’ Hospital, Tampa, Florida

Software and Documentation Retrieval Instructions:

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The software is released as a PackMan message and is distributed from FORUM.

Software documentation describing the new functionality introduced by this patch is available for downloading.

The preferred method is to retrieve files from download.vista.med.va.gov. This transmits the files from the first available server. Sites may also elect to retrieve files directly from a specific server.

Sites may retrieve the documentation directly using Secure File Transfer Protocol (SFTP) from the ANONYMOUS.SOFTWARE directory at the following OI Field Offices:

Hines: fo-hines.med.va.gov

Salt Lake City: fo-slc.med.va.gov

Documentation can also be found in the VA Software Document Library (VDL) at:

<https://www.va.gov/vdl/>.

Title File Name FTP Mode

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Inpatient Medications Nurse’s User Manual psj\_5\_nurse\_um\_p332.doc Binary

Inpatient Medications Nurse’s User Manual psj\_5\_nurse\_um\_p332.pdf Binary

Inpatient Medications Pharmacist’s User Manual psj\_5\_phar\_um\_p332.doc Binary

Inpatient Medications Pharmacist’s User Manual psj\_5\_phar\_um\_p332.pdf Binary

Inpatient Medications Technical Manual/Security Guide psj\_5\_tm\_p332.docx Binary

Inpatient Medications Technical Manual/Security Guide psj\_5\_tm\_p332.pdf Binary

Patch Installation:

Pre/Post Installation Overview:

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Review the Pre-Installation Instructions provided before beginning installation of the patch.

Pre-Installation Instructions:

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This patch may be installed with users on the system, although it is

recommended that it be installed during non-peak hours to minimize

potential disruption to users. This patch should take less than 5 minutes

to install.

Installation Instructions:

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To install the patch:

1. Choose the PackMan message containing this patch.

2. Choose the INSTALL/CHECK MESSAGE PackMan option.

3. From the Kernel Installation and Distribution System (KIDS) menu, select the Installation Menu. From this menu, you may elect to use the following options. When prompted for the INSTALL NAME, enter the patch number PSJ\*5.0\*332.

a. Verify Checksums in Transport Global - This option will help ensure the

integrity of the routines that are in the transport global.

b. Print Transport Global - This option will enable viewing the components of

the KIDS build.

c. Compare Transport Global to Current System - This option will enable viewing

all changes that will be made when this patch is installed. It compares all

components of this patch (routines, data dictionaries, templates, etc.).

d. Back up a Transport Global - This option will create a backup message of any

routines exported with this patch. It will not back up any other changes such

as data dictionaries or templates.

4. From the Installation Menu, select the Install Package(s) option and choose the patch to install.

5. When prompted ‘Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//’, press <Enter>.

6. When prompted ‘Want KIDS to INHIBIT LOGONs during the install? NO//’, press <Enter>.

7. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//’, press <Enter>.

8. If prompted ‘Delay install (Minutes): (0-60): 0//’, press <Enter>.

9. If prompted 'Enter the Device you want to print the Install messages. You can queue the install by enter a 'Q' at the device prompt. Enter a '^' to abort the install. DEVICE: HOME// HOME (CRT)', press <Enter>.

Post-Installation Instructions:

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N/A

Backout Procedure:

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Backout of this patch will be performed only with the concurrence and participation of the appropriate VA site/region personnel. The decision to back out the patch will be a joint decision between VA site/region personnel and other appropriate VA personnel.

Note: Due to the complexity of this patch, it is not recommended for backout, and a restore from a backup of the Transport Global should not be attempted. However, in the event that a site decides to back out this patch, the site should contact the National Service Desk (NSD) to submit a help desk ticket. The development team will need to issue one or more follow-on patches in order to comprehensively back out this patch, after coordination with the VA Project Manager and COR.

Validation of Backout Procedure:

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The Backout procedure can be verified by printing the first two lines of the PSJ routines contained in this patch using the option First Line Routine Print [XU FIRST LINE PRINT]. Once the PSJ routines have been backed out, the first two lines of the routines will no longer contain the designation of patch PSJ\*5.0\*332 on line 2 in the patch list section.

Note: This validation procedure only verifies that routine changes have been backed out; it does not confirm that other patch component changes have been backed out.

Routine Information:

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The second line of each of these routines now looks like:

;;5.0;INPATIENT MEDICATIONS;\*\*[Patch List]\*\*;16 DEC 97;Build 8

The checksums below are new checksums, and can be checked with CHECK1^XTSUMBLD.

Routine Name: PSGBOX1

Before: n/a After: B1887534 \*\*332\*\*

Routine Name: PSGBOX5

Before: n/a After: B26184006 \*\*332\*\*

Routine Name: PSGBOX6

Before: n/a After: B19745461 \*\*332\*\*

Routine Name: PSGBOX7

Before: n/a After:B216972736 \*\*332\*\*

Routine Name: PSGBOX9

Before: n/a After: B14433212 \*\*332\*\*

Routine Name: PSGFILED

Before: B25006038 After: B28438752 \*\*20,50,63,119,110,111,112,154,

184,181,257,363,332\*\*

Routine Name: PSGIEN

Before: n/a After: B2583050 \*\*332\*\*

Routine Name: PSGPEN

Before: B57889018 After: B59188020 \*\*30,37,50,58,115,110,127,129,

323,317,357,332\*\*

Routine Name: PSGPER

Before: B18332674 After: B21024384 \*\*95,115,127,133,279,332\*\*

Routine Name: PSGPER0

Before: B34370854 After: B35728238 \*\*58,82,95,115,279,332\*\*

Routine Name: PSGPER2

Before: B31489798 After: B31133994 \*\*80,115,279,332\*\*

Routine Name: PSGZEB1

Before: n/a After: B395705 \*\*332\*\*

Routine Name: PSGZEB2

Before: n/a After: B168513 \*\*332\*\*

Routine Name: PSGZEBL

Before: n/a After: B26551662 \*\*332\*\*

Routine Name: PSIVHYPL

Before: B49378868 After: B48971823 \*\*58,96,128,178,184,279,332\*\*

Routine Name: PSIVHYPR

Before: B46405814 After: B46375207 \*\*58,88,96,178,184,279,332\*\*

Routine Name: PSIVLABL

Before: B43876425 After: B44828219 \*\*58,82,104,127,178,184,273,

279,331,332\*\*

Routine Name: PSIVLABR

Before: B40125605 After: B40097446 \*\*58,82,178,184,279,331,332\*\*

Routine Name: PSIVLBL1

Before: B42809676 After: B45574055 \*\*69,58,81,97,104,279,332\*\*

Routine Name: PSIVLBRP

Before: B15941220 After: B19569747 \*\*58,97,250,332\*\*

Routine Name: PSIVORLB

Before: B16554015 After: B16531182 \*\*58,184,279,332\*\*

Routine Name: PSJDIN

Before: B38154566 After: B46714111 \*\*50,56,76,227,289,332\*\*

Routine list of preceding patches: 250, 289, 331, 357, 363