Existing Product Intake Program (EPIP)

Patch PSJ\*5.0\*348

National Patch Module Patch Description



Department of Veterans Affairs

February 2019

Version 2.0

Revision History

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 02/02/2019 | 2.0 | Updates throughout | EPIP Project Team |
| 11/17/2017 | 1.0 | Initial (draft) version | EPIP Project Team |

National Patch Module Patch Description

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

Run Date:JAN 20, 2019 Designation: PSJ\*5\*348 TEST v1

Package :INPATIENT MEDICATIONS Priority : MANDATORY

Version : 5 Status :UNDER DEVELOPMENT

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

Associated patches: (v)PSJ\*5\*229 <<= must be installed BEFORE `PSJ\*5\*348'

(v)PSJ\*5\*257 <<= must be installed BEFORE `PSJ\*5\*348'

(v)PSJ\*5\*331 <<= must be installed BEFORE `PSJ\*5\*348'

(v)PSJ\*5\*337 <<= must be installed BEFORE `PSJ\*5\*348'

(v)PSJ\*5\*355 <<= must be installed BEFORE `PSJ\*5\*348'

(v)PSJ\*5\*366 <<= must be installed BEFORE `PSJ\*5\*348'

(v)PSJ\*5\*377 <<= must be installed BEFORE `PSJ\*5\*348'

Subject: EPIP INPATIENT MEDICATIONS REMEDIATION 2.0

Category:ROUTINE

DATA DICTIONARY

Description:

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Patch PSJ\*5.0\*348 provides the following enhancements to VistA:

- Enables pharmacists to enter free text that prints on new instructional labels that accompany standard IV medication labels. The instructions provide important information for pharmacy staff who compound drugs in the sterile room. The instructional labels are generated by modifying routine PSIVORE1 to prompt the pharmacist for entry of free text during IV order finishing or label reprint. If the pharmacist enters instructions, then routine PSIVLABL prints the instructions on a new label that immediately follows the standard IV label. Pharmacy staff can then view the printed instructions in the sterile room during IV compounding. The instructional label is not affixed to the IV bag, and is not counted as part of the daily usage of IV labels. This enhancement also prints a time stamp next to the date on the standard IV label, and prints patient identification information on the new instructional label.

Note: Waivers 366804 and 477594 are associated with the National Service Request (NSR) for this functionality. However, the Epic for this NSR states that the Program Office does not support waiver 477594 as a national solution. As a result, local modifications for waiver 477594 are out of scope and not included in this patch.

- Modifies routine PSGPLR0 to optionally exclude ward stock from the Pick List Report, based on user response to the new "Do you want to include the Ward Stock (YES/NO) ?" prompt generated by the Pick List [PSJU LIST] option. The new prompt defaults to YES. At sites that do not use ward stock entries for cart fills, pharmacy technicians can exclude ward stock by changing the default to NO. This enables technicians to see only those medications needed for orders, and not the entire ward stock inventory. The modification eliminates the need to search through dozens of unnecessary report pages, thus reducing the possibility of error when selecting medications.

- Modifies routine PSGOEF1 to display the medication dosage above the dispense drug selection in VistA when pharmacists finish an order entered by a provider. When the provider has not specified a dispense drug, the dosage display helps the pharmacist make the correct dispense drug selection. For example, if the medication has dispense options of 0.5 MG, 1 MG, and 5 MG capsules, and the dosage is 4 MG, then the pharmacist can compare the available dispense options to the displayed dosage and select the appropriate drug to dispense. This enhancement reduces the possibility of error when manually selecting a dispense drug.

- Enables sites to optionally reduce the number of keystrokes required when filing pick lists. Currently, pharmacy technicians who file pick lists must account for any variance between the amount of a medication ordered and the medication units dispensed. Variances occur when medications are dispensed in addition to regularly scheduled doses. For example, drugs dispensed on a PRN basis would not be counted as part of regularly dispensed medication inventory. To track these variances, pharmacy technicians must enter any additional dispense units for each patient, medication, and ward group. At some sites, the time and effort required to track additional dispense units is not justified by the slight inventory variances they cause. To address this situation, this modification allows technicians to bypass entry of the additional medication units dispensed, and changes the default for filing the pick list from NO to YES. To accomplish this, routines PSGFILED and PSGPLDP0 are modified to populate and read three new fields in the NEW PHARMACY SYSTEM PARAMETERS file (#59.7). These new fields, PICK LIST FILING DEFAULT (#29.1), PICK LIST RAPID FILING FLAG (#29.2), and ENABLE RAPID PICK LIST PARMS (#29.3), are accessed from the Systems Parameters Edit [PSJ Sys Edit] menu option. The ENABLE RAPID PICK LIST PARMS field is initially set to NO. This setting prevents display of the PICK LIST FILING DEFAULT and PICK LIST RAPID FILING FLAG fields, so their default values of NO cannot be changed. When these fields are set to NO, there is no change to existing functionality. If ENABLE RAPID PICK LIST PARMS is set to YES, then the PICK LIST FILING DEFAULT and PICK LIST RAPID FILING FLAG fields are displayed for entry. The fields can then be used to change the behavior of the Enter Units Dispensed [PSJU PDLP] option when filing pick lists, as follows:

- If PICK LIST RAPID FILING FLAG is set to YES, then VistA will move directly to the "ARE YOU FINISHED WITH THIS PICK LIST?" prompt by automatically entering three carets (^^^). This occurs immediately after the user chooses a pick list, so no patients or medications are displayed for filing.

- If PICK LIST FILING DEFAULT is set to YES, then the default for the "MAY I FILE THE DATA IN THIS PICK LIST AWAY?" prompt is changed from NO to YES. This is the final prompt in the filing process, and allows the user to press Enter to exit without typing a response.

- Modifies IV order entry routine PSIVCHK to check for minimum and maximum dosage strengths entered for certain IV drugs. When the drug strength ordered for a specific patient is out of range based on these entries, VistA will not allow the pharmacist to finish the order. To support this enhancement, the fields DRUG DOSAGE LOWER LIMIT (#2.01) and DRUG DOSAGE UPPER LIMIT (#2.02) are added to the IV ADDITIVE file (#52.6). Pharmacy supervisors who hold the new IVEDLIMIT key can enter minimum and maximum range values using the existing Additives File [PSSJI DRUG] option.

If the DRUG UNIT field (#2) in the IV ADDITIVE file is modified using the [PSSJI DRUG] option (for example, if the unit is changed from milligrams to grams), then VistA will notify the user that any upper and lower limit entries will be removed, and will prompt the user to re-enter those values. However, if the drug unit is modified through any other VistA option or through FileMan, then no cross-check is performed on the upper and lower limit values.

- Modifies IV order entry routine PSIVEDRG and IV Quick Code routine PSIVQUI to resolve Quick Code order entry issues. Several modifications are included in this enhancement. The first modification appends Provider Comments to Quick Code “Other Print Info” comments when both should appear on the medication label. Prior to this update, the Provider comments overwrote the “Other Print Info” comments. The second modification resolves an issue with Quick Code medication routes. When the pharmacist uses a Quick Code to finish an IV order, this modification displays the medication route entered by the provider if available. If the provider did not enter a medication route, then the Quick Code medication route is displayed. Prior to this update, the Quick Code medication route overwrote the medication route entered by the provider. The remaining modifications resolve issues associated with finishing an IV order that was previously edited by a provider. When the pharmacist finishes a provider-edited IV order using the Order Entry (IV) [PSJI ORDER] option and a Quick Code, the following entries are displayed: the Quick Code dosage strength in the “Additives:” prompt, and the Quick Code infusion rate in the “Infusion Rate:” prompt. Prior to this update, the pharmacist was required to re-enter information in both prompts.

Patch Components:

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Files & Fields Associated:

New/Modified

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

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NEW PHARMACY SYSTEM

PARAMETERS (#59.7) PICK LIST FILING DEFAULT (#29.1) New

PICK LIST RAPID FILING FLAG (#29.2) New

ENABLE RAPID PICK LIST PARMS (#29.3) New

IV ADDITIVE (#52.6) DRUG DOSAGE LOWER LIMIT (#2.01) New

DRUG DOSAGE UPPER LIMIT (#2.02) New

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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N/A

Protocols Associated:

Protocol Name New/Modified/Deleted

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N/A

Parameters Associated:

Parameter Name New/Modified/Deleted

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N/A

Security Keys Associated:

Security Key Name

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IVEDLIMIT

Templates Associated:

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

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PSSIV ADD Input IV ADDITIVES (#52.6) New

Additional Information:

N/A

New Service Requests (NSRs):

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NSR20170514 Free Text Instructions and Time Stamp for IV Labels

NSR20170710 Exclude Ward Stock from Pick List

NSR20170711 Display Dosage Reminder When Finishing Orders

NSR20140903 Pick List Rapid Filing Parameter

NSR20170503 Validate Strength Range

NSR20170504 Enhance Quick Codes for finishing all IV Orders

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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VA Eastern Colorado Health Care System, Denver, CO

Miami VA Healthcare System, Miami, FL

VA Puget Sound Health Care System, Seattle, WA

San Francisco VA Health Care System, San Francisco, CA

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\_p348.doc Binary

Inpatient Medications

Nurse’s User Manual psj\_5\_nurse\_um\_p348.pdf Binary

Inpatient Medications

Pharmacist’s User Manual psj\_5\_phar\_um\_p348.doc Binary

Inpatient Medications

Pharmacist’s User Manual psj\_5\_phar\_um\_p348.pdf Binary

Inpatient Medications

Supervisor’s User Manual psj\_5\_supr\_um\_p348.doc Binary

Inpatient Medications

Supervisor’s User Manual psj\_5\_supr\_um\_p348.pdf Binary

Inpatient Medications

Technical Manual/Security Guide psj\_5\_tm\_p348.docx Binary

Inpatient Medications

Technical Manual/Security Guide psj\_5\_tm\_p348.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\*348.

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 INHIBIT LOGONs during the install? NO//’, press <Enter>.

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

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

8. 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\*348 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 14

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

Routine Name: PSGFILED

Before: B25006038 After: B27086456 \*\*20,50,63,119,110,111,112,154,

184,181,257,348\*\*

Routine Name: PSGOEF1

Before: B38041202 After: B39119408 \*\*2,7,35,39,45,47,50,63,67,58,

95,110,186,181,267,315,317,337,

348\*\*

Routine Name: PSGPLDP0

Before: B28946090 After: B33260389 \*\*348\*\*

Routine Name: PSGPLR0

Before: B22127906 After: B28023228 \*\*15,34,58,348\*\*

Routine Name: PSIVCHK

Before: B27420606 After: B38265928 \*\*54,58,81,111,213,113,179,248,

366,348\*\*

Routine Name: PSIVEDRG

Before: B58388947 After: B69556745 \*\*21,33,50,65,74,84,128,147,

181,263,281,313,355,348\*\*

Routine Name: PSIVLABL

Before: B43876425 After: B54977716 \*\*58,82,104,127,178,184,273,

279,331,348\*\*

Routine Name: PSIVQUI

Before: B22141976 After: B23353258 \*\*21,50,65,73,76,93,104,110,

275,256,377,348\*\*

Routine Name: PSSVIDRG

Before: B89456286 After:B124706252 \*\*2,10,32,38,125,146,174,189,

229,348\*\*

Routine list of preceding patches: 229, 257, 331, 337, 355, 366, 377