

Inpatient Medications

PSJ*5*325

Release Notes



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1. Introduction

This enhancement adds a display of discontinued or edited IV orders from the Computerized Patient Record System (CPRS) to a pharmacist when processing an e-signed CPRS IV order using the VistA option, "Non-Verified/Pending Orders" [PSJU VBW].

2. Purpose

These release notes cover the changes to the VistA system resulting from implementation of the PSJ*5.0*325 patch and provide instructions for installing the patch.

3. Audience

This document targets users and administrators of the Inpatient Medications application and applies to the changes made between this release and any previous release for this software.

4. This Release

This new feature applies only to wards or ward groups. The discontinued or edited IV orders display prior to taking action to finish or edit the pending order. This allows the pharmacist to pull IVs that are discontinued and prevent them from being sent to the patient ward and potentially be given in error. It also allows the pharmacist to perform a drug-drug interaction check, since recently discontinued medications can still cause a drug interaction.

The discontinued and edited records which are viewed with this patch are temporary and are stored in the new IV MEDICATION ORDERS DC'D (#52.75) file. These records are only intended to help identify discontinued IV orders for a particular ward or a ward group and will not include any clinics or clinic groups. The records act as alerts, and taking action on these records does not impact the actual order.

The pharmacist can delete the discontinued IV orders from the new IV MEDICATION ORDERS DC'D (#52.75) file when appropriate.

The following actions are available for records being viewed in the updated option: (P)rint, (R)efresh, (D)elete, or (I)gnore:

- The (Print) action allows the viewed orders to be printed to a device. Optionally, those records can be deleted, once printed. Any report queued to a device will only contain discontinued orders that were logged at the time of queuing.
- The (Refresh) action re-displays the records.
- The (Delete) action removes the currently viewed records from the file so they will no longer be displayed.
- The (Ignore) action continues with the usual next prompt and take no action on the records.

In addition to helping prevent medication errors, this enhancement also allows labels to be pulled for IVs that are not yet prepared. This saves resources, including the drug (especially helpful when drug shortages occur), and time spent managing pharmacy orders. For IVs that are already

prepared, the enhancement allows reuse of the prepared bag on another patient while it is still within the expiration date.

Example of New Feature

Non-Verified/Pending Orders:

```
Select OPTION NAME: PSJU VBW          Non-Verified/Pending Orders
Select IV ROOM NAME:  CHEYENNE RM#272
Display an Order Summary? NO// <enter>

1) Non-Verified Orders
2) Pending Orders

Select Order Type(s) (1-2): 1-2

1) Unit Dose Orders
2) IV Orders

Select Package(s) (1-2): 1-2

Select by GROUP (G), WARD (W), CLINIC (C), PATIENT (P) or PRIORITY (PR): GROUP

Select by WARD GROUP (W) or CLINIC GROUP (C): WARD

Select WARD GROUP: C WARD EAST WINGS
```

Output:

```
IV ORDER D/Cs and EDITS Thru CPRS Since 6/1/2016@14:21 (past 840 hrs)
IV ROOM: CHEYENNE RM#272          GROUP: C WARD EAST WINGS
WARD - ROOM/BED  DRUG              PATIENT          PID    DT/TM
-----
C MEDICIN  9999      ABCIXIMAB        AAADTSXY,QLYJH  4507  06/06/2016
  Edited          Give: IV 30 ml/hr                @1:15 pm
C MEDICIN  9999      ABCIXIMAB        AAADTSXY,QLYJH  4507  06/07/2016
  Edited          Give: IV 30 ml/hr                @1:56 pm

(P)rint, (R)efresh, (D)elete, or (I)gnore?: (P/R/D/I): I// gnore
```

The following sections provide a summary of the new features and functions added, enhancements and modifications to the existing software, and any known issue for Inpatient Medications, PSJ*5*325.

4.1. New Features and Functions Added

The following are the new features and functions added to the Inpatient Medications, PSJ*5*325 release.

4.1.1. New File

The new IV MEDICATION ORDERS DC'D (#52.75) file stores information from recently discontinued or edited IV orders. The data stored in this file are displayed in the modified option included in the patch.

The following fields are contained in the new IV MEDICATION ORDERS DC'D (#52.75) file:

<u>Field Number</u>	<u>Field Name</u>
01	DATE/TIME D/C
.662	SIG
2	PATIENT
3	DRUG
4	ROOM-BED
5	WARD
7	WARD IEN
8	PS ORDER IEN
9	WARD GROUP
10	STATUS

4.1.2. New Routines

The following new routines were created:

- PSIVARH
- PSIVARH1

Both routines are used to support the discontinued or edited report and actions. They also support the processing and storing of the HL7 messages that contain discontinued or edited IV order data.

4.1.3. New Protocol

The following new protocol was created:

- PSIVARH PHARMACY: SEND TO SITE

This protocol processes the HL7 message with the inpatient pharmacy order and stores relevant information in the new IV MEDICATION ORDERS DC'D (#52.75) file.

4.2. Enhancements and Modifications to Existing Software

The following are the enhancements and modifications in the Inpatient Medications PSJ*5*325 release.

4.2.1. Modified File

The following new field was added to the IV ROOM (#59.5) file.

- DC'D IV ORDERS HOURS FILTER (# 21)

This field provides a filter for the D/C'd orders report. Discontinued IV orders older than the entered number of hours will not be included in the report. By entering a zero in this field, no D/C'd or edited orders will appear in the report.

4.2.2. Modified Routine

The following routine was modified:

- PSGVBW

Within the GO label, this routine calls the new routine PSIVARH at label START and runs the new discontinued or edited IV logic.

4.2.3. Modified Protocol

The following protocol was modified:

- OR EVSEND PS

The PSIVARH PHARMACY extended action protocol has been added to the ITEM multiple of the OR EVSEND PS protocol as a new subscriber.

4.2.4. Modified Template

The following input template was modified to allow entry of the new hours parameter. (See Section 6.6.1.)

- PSJI SITE PARAMETERS - FILE #59.5

4.2.5. Modified Options

- Site Parameters (IV)

The existing option, Site Parameters (IV) [PSJI SITE PARAMETERS], was modified to allow the entry of the new parameter, DC'D IV ORDERS HOURS FILTER (#21). This new parameter provides a filter for the D/C'd orders report. Discontinued IV orders, older than the entered number of hours, will not be included in the report. By entering a zero in this field, no D/C'd or edited orders will appear in the report. (See Post Installation Instructions).

- Non-Verified/Pending Orders

The existing option, Non-Verified/Pending Orders [PSJU VBW], was modified to provide the review, print and delete functionalities in the new IV MEDICATION ORDERS DC'D (#52.75) file.

4.3. Known Issues

None.

4.3.1. New Service Requests Resolved

The following New Service Request was resolved with this patch:

- NSR 20141208 – Display Recently Discontinued IV Orders

5. Product Documentation

The following documents apply to this release:

- Nurse's User Manual, psj_5_nurse_um_r0217.pdf
- Pharmacist's User Manual V. 5.0, psj_5_phar_um_r0217.pdf
- Technical Manual/Security Guide V. 5.0, psj_5_tm_r0217.pdf
- Release Notes, psj_5_p325_rn.pdf

User documentation for Inpatient Medications V.5.0 provides detailed information on the functionality and can be found on the VistA Document Library (VDL).

6. Installation Instructions

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

1. Choose the PackMan message containing this patch.
2. Choose the INSTALL/CHECK MESSAGE PackMan option.
3. From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following options. When prompted for the INSTALL NAME enter PSJ*5.0*325.
 - a. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global
 - b. Print Transport Global - This option will allow you to view the components of the KIDS build.
 - c. Compare Transport Global to Current System - This option will allow you to view all changes that will be made when this patch is installed. It compares all components of this patch (routines, DD's, templates, etc.).
 - d. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's 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? YES// Press <Enter>
8. When prompted 'Enter options you wish to mark as 'Out Of Order':' Enter the following options:

- Site Parameters (IV) [PSJI SITE PARAMETERS]
 - Non-Verified/Pending Orders [PSJU VBW]
9. When prompted, Enter protocols you wish to mark as 'Out Of Order': Press <Enter>
 10. If prompted "Delay Install (Minutes): (0 - 60): 0// respond 0.

7. Post Installation Instructions

The new parameter to control how far back to display edited or discontinued IV orders should be set after pharmacy has exercised the updated option PSJU VBW. The default for the hours setting, while no value is on file, is 198 hours (8 days) and can be set in increments of 1 hour. Setting the parameter to zero, effectively turns off the new report.

Follow the steps below to set the DC'D IV ORDERS HOURS FILTER parameter.

```
Select OPTION NAME: PSJI SITE PARAMETERS <==run parameter option
Select IV ROOM NAME: CHEYENNE RM#272 <==select IV room
NAME: CHEYENNE RM#272// <==type <Enter>
LENGTH OF LABEL: 13// ^21 DC' D IV ORDERS HOURS FILTER <==type "^21" to
                                                                    jump to the hours
                                                                    filter parameter
DC' D IV ORDERS HOURS FILTER: 600// <==enter number of hours
```