INPATIENT MEDICATIONS

**TECHNICAL MANUAL/ SECURITY GUIDE**

Version 5.0

December 1997

(Revised April 2011)

Department of Veterans Affairs Product Development

 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, vii, viii, 5- 8b (changed flow), 22,23, 24,removed 25-26,changed 53, 85, 86,93-94;94a-b,121--130 | PSJ\*5\*181 | Changes to *Revision History*, *Table of Contents*; added new field to PHARMACY SYSTEM File (#59.7), added new field to the INPATIENT WARD PARAMETERS File (#59.6). Addedinformation re: the Pharmacy Reengineering (PRE) API Manual under “*Callable Routines*”; removed entire section 5.3, Routine Mapping, and all its sub-sections; added Health Level Seven (HL7) data field under segment { RXC}. Added the following “*Inpatient Medications Custodial Integration Agreements*”: 4074, 4264, 4580, 5001, 5057; 5058, 5306, 5385. Added twopackages, HWSC and VistALink, to *External Relationships*, under *Packages Needed to Run Inpatient Medications*. Added the following call routines and their entry points: OROCAPI, PSSDSAPD, PSSDSAPI, PSSFDBRT, PSODDPR4,PSODRDU2. Added the items **DATUP, MOCHA, PECS, and PEPS** in Glossary, which shifted all subsequent glossary items. Added routines PSJMISC2 &PSJOCVAR to the routines table and removed Section 5.3REDACTED |
| 02/11 | i, 53, 62,64, 65 | PSJ\*5\*226 | Added to RXC section Field 5, “Additive Frequency” in HL7 Ordering Fields; updated Front Door – IV Fluids table with Field 5; updated Back Door – IV Fluids table with Field 5; updated example.REDACTED |
| 06/10 | i, 22-23 | PSJ\*5\*113 | Added routine PSGSICH1.REDACTED |
| 02/10 | i, 23 | PSJ\*5\*214 | Added PSJQUTIL to the routine list in Section 5.1 for Patients on Specific Drug(s) Multidivisional Enhancements Project.REDACTED |
| 12/09 | 22-23 | PSJ\*5\*222 | Added routine PSGOEF2.REDACTED |

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| **Date** | **Revised Pages** | **Patch Number** | **Description** |
| 08/08 | vi, 23, 51-53, 57-58,60-61, 63,65, 65a-65b | PSJ\*5\*134 | Parameters for escaping special characters added. New HL7 messages added. New routines added. HL7 order fields table contains an asterisk for each field that has special escaping characters.REDACTED |
| 02/07 | 74-76 | PSJ\*5\*178 | MED ROUTE now appears in larger font on IV labels from the Zebra bar code printer. Med ROUTE now prints on the IV labels for bar-code enabled printers, and it prints in larger font than surrounding text.REDACTED |
| 09/06 | 23, 94 | PSJ\*5\*172 | Encapsulation Cycle II project: Added PSJ53P1 to the Routine List in Section 5.1. Added DBIA 4537 to DBIA list. Changed the date on the Title Page to December 1997.REDACTED |
| 05/06 | v-viii 8a-8b 66-68b | PSJ\*5\*154 | In Section 2.2.2 Added “PRIORITIES FOR NOTIFICATION”field.In Section 9.5, made correction to include the priority of ASAP in notifications. Added information regarding the three notifications parameters.REDACTED |
| 12/2005 | 23 | PSJ\*5\*146 | Remote Data Interoperability (RDI) Project: Added PSJLMUT2 to the Routine List in Section 5.1.REDACTED |
| 11/2005 | All | PSJ\*5\*163 | Encapsulation Cycle II project: Added PSJ59P5 to the Routine List in Section 5.1. Added DBIA 4819 to DBIA list. Deleted DBIAs 172, 634, and 1882 from the DBIA list.Reissued entire document due to a page numbering issue. REDACTED |

# Preface

This technical manual is written for the Information Resources Management Service (IRMS) Chief/Site Manager and the Automated Data Processing Application Coordinator (ADPAC) for implementation and installation of the Inpatient Medications package. The main text of the manual outlines routine descriptions, file list, site configuration issues, variables, resource requirements, and package security.

(*This page included for two-sided copying*.)

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* **NON-FORMULARY MESSAGE -** This is a message that will be shown to non- pharmacists when they order drugs not currently stocked by the pharmacy. This is typically a warning, and describes a procedure the non-pharmacist must follow before the pharmacy will dispense the non-formulary drug.
	+ **EDIT Option -** This option is used to edit the NON-FORMULARY MESSAGE above.
* **PRINT 6 BLOCKS FOR THE PRN MAR -** This field is used to indicate if 4 or 6 blocks are to be used for ONE-TIME/PRN (pro re nata – Latin for “as needed”) orders on the 7/14 DAY MAR ONE-TIME/PRN SHEET. The 7/14 DAY MAR ONE-TIME/PRN SHEET will print 4 blocks if this field is not set to **YES**.
* **PRINT DIET ABBR LABEL ON MAR** - If this field contains a 1 or YES, the Dietetics Abbreviated Label will be printed on the MAR.
* **MAR SORT -** If this field contains a **0**, the MAR will be sorted by the order’s Schedule Type\* and then by Medication Names. When this field contains a **1**, the MAR will be sorted by the order’s Medication Names.

\* Schedule Type is sorted based on the following orders: Continuous MAR One-Time/PRN MAR

Unit Dose Orders: Unit Dose Orders: Continuous One-time

Fill on Request PRN

IV Orders: IV Orders: Piggyback or Syringe type One-time Admixture type PRN

Hyperal type Acknowledged Pending PRN orders Chemo type

Acknowledged Pending Orders: Inpatient Meds

IV fluids

* **ATC SORT PARAMETER -** This parameter allows sending of the Pick List to the Automated Tablet Counter (ATC) machine by ATC mnemonic or admin time within patient.
* **CALC UNITS NEEDED PRN ORDERS -** This field controls whether or not the units needed will be calculated for the orders with PRN in the SCHEDULE field (#26) of the UNIT DOSE sub- file (#55.06) of the PHARMACY PATIENT file (#55) on the Pick List. This information will show on the Pick List if this field is set to 1.
* **DAYS UNTIL STOP FOR ONE-TIME -** This field indicates the number of days a one- time order should last. This field is only used if the ward parameter, DAYS UNTIL STOP FOR ONE-TIME, is not defined. This number can be between 1 and 30.
* **ROUND ATC PICK LIST UNITS** – This field allows the site to decide whether or not fractional units per dose will be rounded to the next whole number before the pick list is sent to the ATC.
* **HOURS OF RECENTLY DC/EXPIRED**– This field allows the INPATIENT MEDICATIONS profiles to display the recently discontinued/expired orders that fall within the number of hours specified. The value of this field is a number between 1 and 120. If no value is found for this parameter, a default value of 24 hours will be assumed by the software. The SYSTEMS PARAMETERS EDIT [PSJ SYS EDIT] option should be used to enter/edit values for this parameter.
* **EXPIRED IV TIME LIMIT** – This is the maximum number of hours after a continuous IV order expires that it may still be renewed. The value of the parameter is a number between 0 and 24, inclusive.

**Note:** The “AUTO-DC IMO ORDERS:” field has been moved from the PHARMACY SYSTEM file (#59.7) to the CLINIC DEFINITION file (#53.46). To access this field, use the *Clinic Definition* [PSJ CD] option under the *PARameters Edit Menu* [PSJ PARAM EDIT MENU] option.

### 2.2.2 Fields from the INPATIENT WARD PARAMETERS File (#59.6)

**Note:** Fields from the Inpatient WARD PARAMETERS file (#59.6) are still edited through the Inpatient Medications package.

* **WARD -** This is a ward for which the site wants to tailor specific aspects of the Inpatient Medications package.
* **DAYS UNTIL STOP DATE/TIME -** This is the number of days a standard order should last. The first order entered for a patient uses this number to calculate a default value for the order’s STOP DATE/TIME field (#34) of the UNIT DOSE sub-file (#55.06) of the PHARMACY PATIENT file (#55). This number is also used if SAME STOP DATE ON ALL ORDERS parameter has no entry, or an entry of **NO**.
* **DAYS UNTIL STOP FOR ONE-TIME -** This is the number of days a one-time order should last. The number can be from 1-100; however, it cannot exceed the number of days that standard orders last (DAYS UNTIL STOP DATE/TIME). When this parameter is not available, the system parameter, DAYS UNTIL STOP FOR ONE-TIME, will be used to determine the stop date. When neither parameter has been set, one-time orders will use the ward parameter, DAYS UNTIL STOP DATE/TIME, to determine the stop date instead of the start and stop date being equal.
* **SAME STOP DATE ON ALL ORDERS -** This flag, if set to **YES**, uses the STOP DATE/TIME field (#34) of the UNIT DOSE sub-file (#55.06) of the PHARMACY

PATIENT file (#55) from the patient’s first order as a default value for these fields on all of the patient’s following orders.

* **TIME OF DAY THAT ORDERS STOP -** This is a time of day that, if found, is used in calculating the default value for the STOP DATE/TIME field (#34) of the UNIT DOSE sub- file (#55.06) of the PHARMACY PATIENT file (#55) of patients’ orders. This time is in military time format with leading and trailing zeros (0001 means 1 minute after midnight).
* **DEFAULT START DATE CALCULATION –** When an order originates in CPRS and a duration accompanies the order, this field is used to calculate the Calc Start Date/Time. Otherwise, this field allows the ward to determine how the default Start date for orders should be calculated. The default may use the NEXT ADMIN TIME, the CLOSEST ADMIN TIME, or the login date/time of the order (NOW) as the default Start Date for Unit Dose and IV orders.
* **START TIME FOR 24-HOUR MAR -** This is the start time for the 24-hour MAR. It is used whenever a user enters a start date without a time when running the 24-hour MAR. This time is in military time format with leading and trailing zeros (0001 means 1 minute after midnight).
* **LABEL FOR WARD STAFF -** The following codes are used to select when labels will print for ward staff:
	+ **NO LABELS** - Labels are not created when ward staff (nurses, clerks, physicians, etc.) take action on an order. Labels are always created for actions taken on orders after they are verified, unless NO LABELS is selected.
	+ **FIRST LABEL ON ORDER ENTRY/EDIT** - Labels are created whenever ward staff enter an order or edit a non-verified order, but not when the nurse verifies an order.
	+ **FIRST LABEL ON NURSE VERIFICATION** - Labels are not created for ward staff until a nurse has verified the order.
	+ **LABEL ON ENTRY/EDIT AND VERIFICATION -** Labels are created whenever the order is entered or edited and verified.
* **WARD LABEL PRINTER -** If a device name is entered here, labels created by ward staff, due to actions taken on orders, will print automatically to the device.
* **LABEL FOR PHARMACY -** The following codes are used to select when labels will print for the pharmacy staff:
	+ **NO LABELS** - Labels will not be created when the pharmacy staff (pharmacists and pharmacy technicians) takes action on an order.
	+ **FIRST LABEL ON ORDER ENTRY/EDIT -** Labels will be created whenever the pharmacy staff enters an order or edits a non-verified order, but not when the pharmacist verifies an order.
	+ **LABEL ON ENTRY/EDIT AND VERIFICATION -** Labels are created whenever the order is entered or edited and verified.
	+ **FIRST LABEL ON PHARMACIST VERIFICATION -** Labels will not be created for the pharmacy staff until a pharmacist has verified the order.
* **PHARMACY LABEL PRINTER -** If a device name is entered here, labels created by the pharmacy staff, due to actions taken on orders, will print automatically to the device.
* **LABEL ON AUTO-DISCONTINUE -** This is used to determine if labels should be created when orders for a patient from this ward are auto-discontinued (d/c) due to a patient movement. Patient movements include discharges and transfers. Labels are created for the ward on which the patient resided before the move took place.
* **MAR HEADER LABELS -** This is used to determine if MAR header labels should be generated when orders are processed for patients.
* **DAYS NEW LABELS LAST -** The Unit Dose Medications module runs a background job once a day that deletes all unprinted new labels older than the number of days specified here. If no days are specified for this field, any unprinted new labels for this site will be purged at the end of the day.

**Note:** A label can still be printed for an order even though its new label record has been purged.

* **MAR ORDER SELECTION DEFAULT -** This identifies the default for the type of orders to be included on MARs printed for this ward. All Medication, Non-IV medications only, IV piggybacks, admixtures, hyperals, and/or IV chemotherapy medication types may be selected. Multiple types may be specified.
* **PRINT PENDING ORDERS ON MAR -** This is used to determine if pending orders, that were acknowledged by a nurse, should be included on the MARs and the Medication Due Worksheet.
* **‘SELF MED’ IN ORDER ENTRY -** If the word **YES** (or a **1**) is entered here, the regular order entry process will prompt the user for SELF MED and HOSPITAL SUPPLIED SELF MED for each order entered. The abbreviated processes, ward order entry, and order sets are not affected in any way by this site parameter.
* **PRE-EXCHANGE REPORT DEVICE** – This is the device that is used as a default for the Pre-Exchange Report. If the value is null, the user will not be prompted for a device, which will disable the printing of this report for that ward. At the time the report is run, if the user enters an output device that is different from the device in this file, the option to override this parameter and define a temporary device for the remainder of this session is displayed.
* **STAT NOW MAIL GROUP** – This is the name of the mail group to be used for STAT/NOW active order notifications for this ward.
* **PRIORITIES FOR NOTIFICATION** – This is the priorities /schedules for notification for this ward. The value may be selected for the priorities / schedules for notifications to be sent to the mail group defined in the STAT NOW MAIL GROUP field (#5) mentioned above. This parameter may be empty / not defined, or it may be set via this option: INPATIENT WARD PARAMETERS EDIT [PSJ IWP EDIT].
* **HOURS OF RECENTLY DC/EXPIRED** – This field allows the Inpatient Medications profiles to display the recently discontinued/expired orders that fall within the number of hours specified. The value of this field is a number between 1 and 120. No default will be provided; the parameter may be empty or not defined, and it may be set via the INPATIENT WARD PARAMETERS EDIT [PSJ IWP EDIT] option. **The value defined in this field will take precedence over the Inpatient System parameter.**

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# Routines

**\*\* IMPORTANT \*\***

A routine name followed by an asterisk (such as PSJ\*) is used to designate the complete set of the routines that start with those characters.

## Descriptions

The following routines are exported by the Inpatient Medications package. Routine names starting with the letters PSG designate routines used mainly by the Unit Dose Medications module. Routine names starting with the letters PSIV designate routines used mainly by the IV Medications module. Routine names starting with the letters PSJ designate Inpatient Medications routines - utilities used by IV, Unit Dose, and other packages.

|  |  |  |  |
| --- | --- | --- | --- |
| PSGAL5 | PSGAMS | PSGAMS0 | PSGAMSA |
| PSGAP | PSGAP0 | PSGAPH | PSGAPIV |
| PSGAPP | PSGAXR | PSGBRJ | PSGCAP |
| PSGCAP0 | PSGCAPIV | PSGCAPP | PSGCAPP0 |
| PSGCT | PSGDCC | PSGDCCM | PSGDCR0 |
| PSGDCT | PSGDCT1 | PSGDCTP | PSGDL |
| PSGDS | PSGDS0 | PSGDSP | PSGDSP0 |
| PSGDSP1 | PSGDSPN | PSGEUD | PSGEUDD |
| PSGEUDP | PSGFILD0 | PSGFILD1 | PSGFILD2 |
| PSGFILD3 | PSGFILED | PSGGAO | PSGIU |
| PSGL | PSGL0 | PSGLBA | PSGLH |
| PSGLOI | PSGLPI | PSGLW | PSGMAR |
| PSGMAR0 | PSGMAR1 | PSGMAR2 | PSGMAR3 |
| PSGMI | PSGMIV | PSGMMAR | PSGMMAR0 |
| PSGMMAR1 | PSGMMAR2 | PSGMMAR3 | PSGMMAR4 |
| PSGMMAR5 | PSGMMARH | PSGMMIV | PSGMMIVC |
| PSGMUTL | PSGNE3 | PSGO | PSGOD |
| PSGOE | PSGOE0 | PSGOE1 | PSGOE2 |
| PSGOE3 | PSGOE31 | PSGOE4 | PSGOE41 |
| PSGOE42 | PSGOE5 | PSGOE6 | PSGOE7 |
| PSGOE8 | PSGOE81 | PSGOE82 | PSGOE9 |

|  |  |  |  |
| --- | --- | --- | --- |
| PSGOE91 | PSGOE92 | PSGOEC | PSGOECA |
| PSGOECS | PSGOEE | PSGOEE0 | PSGOEEW |
| PSGOEF | PSGOEF1 | PSGOEF2 | PSGOEH0 |
| PSGOEH1 | PSGOEHA | PSGOEI | PSGOEL |
| PSGOEM | PSGOEM1 | PSGOENG | PSGOEPO |
| PSGOER | PSGOER0 | PSGOER1 | PSGOERI |
| PSGOERS | PSGOES | PSGOESF | PSGOETO |
| PSGOETO1 | PSGOEV | PSGOEVS | PSGON |
| PSGORS0 | PSGORVW | PSGOT | PSGOTR |
| PSGOU | PSGP | PSGPEN | PSGPER |
| PSGPER0 | PSGPER1 | PSGPER2 | PSGPL |
| PSGPL0 | PSGPL1 | PSGPLD | PSGPLDP |
| PSGPLDP0 | PSGPLDPH | PSGPLF | PSGPLFM |
| PSGPLG | PSGPLPRG | PSGPLR | PSGPLR0 |
| PSGPLRP | PSGPLUP | PSGPLUP0 | PSGPLUTL |
| PSGPLXR | PSGPO | PSGPOR | PSGPR |
| PSGPRVR | PSGPRVR0 | PSGRET | PSGRPNT |
| PSGS0 | PSGSCT | PSGSCT0 | PSGSEL |
| PSGSET | PSGSETU | PSGSH | PSGSICH1 |
| PSGSICHK | PSGSSP | PSGTAP | PSGTAP0 |
| PSGTAP1 | PSGTCTD | PSGTCTD0 | PSGTI |
| PSGVBW | PSGVBW0 | PSGVBW1 | PSGVBWP |
| PSGVBWU | PSGVDS | PSGVW | PSGVW0 |
| PSGVWP | PSIV | PSIVACT | PSIVAL |
| PSIVALN | PSIVALNC | PSIVAMIS | PSIVAOR |
| PSIVAOR1 | PSIVBCID | PSIVCAL | PSIVCHK |
| PSIVCHK1 | PSIVCSED | PSIVDCR | PSIVDCR1 |
| PSIVDCR2 | PSIVDRG | PSIVEDRG | PSIVEDT |
| PSIVEDT1 | PSIVHIS | PSIVHLD | PSIVHLP |
| PSIVHLP1 | PSIVHLP2 | PSIVHLP3 | PSIVHYP |
| PSIVHYPL | PSIVHYPR | PSIVLABL | PSIVLABR |
| PSIVLB | PSIVLBDL | PSIVLBL1 | PSIVLBRP |
| PSIVLTR | PSIVLTR1 | PSIVMAN | PSIVMAN1 |
| PSIVOC | PSIVOCDS | PSIVOE | PSIVOPT |
| PSIVOPT1 | PSIVOPT2 | PSIVORA | PSIVORA1 |
| PSIVORAL | PSIVORC | PSIVORC1 | PSIVORC2 |
| PSIVORE | PSIVORE1 | PSIVORE2 | PSIVOREN |
| PSIVORFA | PSIVORFB | PSIVORFE | PSIVORH |
| PSIVORLB | PSIVORV1 | PSIVORV2 | PSIVPAT |
| PSIVPCR | PSIVPCR1 | PSIVPGE | PSIVPR |
| PSIVPRO | PSIVQUI | PSIVRD | PSIVRDC |
| PSIVREC | PSIVRNL | PSIVRP | PSIVRP1 |
| PSIVRQ | PSIVRQ1 | PSIVSET | PSIVSP |

|  |  |  |  |
| --- | --- | --- | --- |
| PSIVSPDC | PSIVUDL | PSIVUTL | PSIVUTL1 |
| PSIVUWL | PSIVVW1 | PSIVWCR | PSIVWCR1 |
| PSIVWL | PSIVWL1 | PSIVWRP | PSIVXREF |
| PSIVXU | PSJ53P1 | PSJ59P5 | PSJAC |
| PSJADT | PSJADT0 | PSJADT1 | PSJADT2 |
| PSJALG | PSJAPIDS | PSJBCMA | PSJBCMA1 |
| PSJBCMA2 | PSJBCMA3 | PSJBCMA4 | PSJBLDOC |
| PSJCOM | PSJCOM1 | PSJCOMR | PSJCOMV |
| PSJDCHK | PSJDCU | PSJDDUT | PSJDDUT2 |
| PSJDDUT3 | PSJDEA | PSJDGAL | PSJDIN |
| PSJDOSE | PSJDPT | PSJEEU | PSJEEU0 |
| PSJENV | PSJEXP | PSJEXP0 | PSJFTR |
| PSJGMRA | PSJH1 | PSJHEAD | PSJHEH |
| PSJHIS | PSJHL10 | PSJHL11 | PSJHL2 |
| PSJHL3 | PSJHL4 | PSJHL5 | PSJHL6 |
| PSJHL7 | PSJHL9 | PSJHLERR | PSJHLU |
| PSJHLV | PSJHVARS | PSJLIACT | PSJLIFN |
| PSJLIFNI | PSJLIORD | PSJLIPRF | PSJLIUTL |
| PSJLIVFD | PSJLIVMD | PSJLMAL | PSJLMDA |
| PSJLMGUD | PSJLMHED | PSJLMPRI | PSJLMPRU |
| PSJLMUDE | PSJLMUT1 | PSJLMUT2 | PSJLMUTL |
| PSJLOAD | PSJLOI | PSJMAI | PSJMAI1 |
| PSJMDIR | PSJMDIR1 | PSJMDWS | PSJMEDS |
| PSJMISC | PSJMISC2 | PSJMIV | PSJMON |
| PSJMP | PSJMPEND | PSJMPRT | PSJMPRTU |
| PSJMUTL | PSJNTEG | PSJNTEG0 | PSJNTEG1 |
| PSJO | PSJO1 | PSJO2 | PSJO3 |
| PSJOC | PSJOCDC | PSJOCDI | PSJOCDS |
| PSJOCDSD | PSJOCDT | PSJOCERR | PSJOCOR |
| PSJOCVAR | PSJOE | PSJOE0 | PSJOE1 |
| PSJOEA | PSJOEA1 | PSJOEEW | PSJOERI |
| PSJORAPI | PSJORDA | PSJOREN | PSJORMA1 |
| PSJORMA2 | PSJORMAR | PSJORP2 | PSJORPOE |
| PSJORRE | PSJORRE1 | PSJORREN | PSJORRO |
| PSJORRN | PSJORRN1 | PSJORUT2 | PSJORUTL |
| PSJP | PSJPATMR | PSJPDIR | PSJPDV |
| PSJPDV0 | PSJPDV1 | PSJPL0 | PSJPR |
| PSJPR0 | PSJPST50 | PSJPXRM1 | PSJQPR |
| PSJQUTIL | PSJRXI | PSJSPU |  |

The following routines are not used in this version of Inpatient Medications. They were exported in the initial Kernel Installation and Distribution System (KIDS) build as Delete at Site.

|  |  |  |  |
| --- | --- | --- | --- |
| PSGDCR | PSGDCT0 | PSGEXP | PSGEXP0 |
| PSGMMPST | PSGOROE0 | PSGORU | PSGQOS |
| PSIVNVO | PSIVOEDO | PSIVOENT | PSIVOEPT |
| PSIVRD0 | PSIVRD0 | PSJMAN | PSJOAC |
| PSJOAC0 | PSJOE8 | PSJOE81 | PSJOEE |
| PSJOER | PSJOER0 | PSJORA | PSJORIN |
| PSJUTL | PSJUTL1 | PSJUTL2 | PSJUTL3 |

## Callable Routines

Entry points provided by the Inpatient Medications package to other packages can be found in the External Relationships section of this manual. No other routines are designated as callable from outside of this package. Additional information on other external calls and their entry points can be found on the VA Software Document Library (VDL). Under the Clinical Section select the Pharm: Inpatient Medications page and then select the “API Manual - Pharmacy Reengineering (PRE)”.

### Deleting Inpatient Routines

* Since this initial version is distributed using KIDS, the transport global is automatically deleted after the install. If the plan is to delete existing Inpatient Medications routines before loading V. 5.0, be sure not to delete PSGW\* (Ward Stock) routines. These routines are not included as part of Inpatient Medications.
* The following Inpatient Medications routines were sent with a past version of the Kernel, and are no longer needed. They can be deleted.
	+ PSGZ1TSK
	+ PSGZ2TSK
	+ PSIVZTSK

**Note**: It is okay if any of these routines are missing, because they are no longer used.

Pages 25 & 26 have been removed from the manual because mapping is no longer required now that all routines reside in ROU.

*(This page included for two-sided copying.)*

**Example: How to Print the Exported Protocols Using VA FileMan**

VA FileMan 22.0

Select OPTION: **INQUI**RE TO FILE ENTRIES

OUTPUT FROM WHAT FILE: PROTOCOL// **PROTO**COL (742 entries) Select PROTOCOL NAME: **PSJ LM 14D MAR** 14 Day MAR ANOTHER ONE: **<Enter>**

STANDARD CAPTIONED OUTPUT? Yes// **<Enter>** (Yes)

Include COMPUTED fields: (N/Y/R/B): NO// **<Enter>** - No record number (IEN), no Computed Fields

NAME: PSJ LM 14D MAR

TYPE: action

PACKAGE: INPATIENT MEDICATIONS

ITEM TEXT: 14 Day MAR CREATOR: POSTMASTER

DESCRIPTION: This allows the user to print a selected patient's medication orders on a Medication Administration Record (MAR) for the charting of the administration of the orders over a 14 day period. It is designed to replace the manual Continuing Medication Record (CMR). This protocol assumes that a patient has already been selected.

EXIT ACTION: S VALMBCK="R"

ENTRY ACTION: N VADM,VAIN S PSGMARDF=14 D FULL^VALM1,ENLM^PSGMMAR TIMESTAMP: 56693,43648

## Health Level Seven (HL7) Messaging

### HL7 Ordering Fields

The following is a list of HL7 data fields that will be used in transactions between Order Entry/Results Reporting (OE/RR) V. 3.0 and the Pharmacy packages. Not every data field will be used in every message.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***SEG*** | ***SEQ*** | ***FIELD NAME*** | ***EXAMPLE*** | ***HL7 TYPE*** |
| **MSH** | 1 | Field Separator | | | string |
|  | 2 | Encoding Characters\* | ^~\& | string |
|  | 3 | Sending Application | ORDER ENTRY | string |
|  | 4 | Sending Facility | 660 | string |
|  | 5 | Receiving Application | PHARMACY | string |
|  | 6 | Receiving Facility | 660 | string |
|  | 7 | D/T of Message | 199409151010 | timestamp |
|  | 9 | Message Type | ORM | ID |
|  |  |
| **PID** | 3 | Patient ID | 5340747 | composite ID |
|  | 5 | Patient Name | PSJPATIENT1,ONE | patient name |
|  |  |
| **PV1** | 2 | Patient Class | I | table 4 |
|  | 3 | Patient Location\* | 32^234-4 | user table |
|  | 45 | Appointment Date/Time | 200308040800-0600 | timestamp |
|  |  |
| **{ ORC** | 1 | Order Control | NW | table 119 |
|  | 2 | Placer Order Number\* | 234123;1^OR | number^application |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***SEG*** | ***SEQ*** | ***FIELD NAME*** | ***EXAMPLE*** | ***HL7 TYPE*** |
|  | 3 | Filler Order Number\* | 870745^PS | number^application |
|  | 5 | Order Status | CM | table 38 |
|  | 7 | Quantity/Timing\* | 325&MG&1&TABLET&325MG&638^Q1D^D14^199409151010^^R^^325MG^ | dose^schedule^duration^star t^^priority^^text^ conjunction |
|  | 9 | D/T of Transaction | 199409151010 | timestamp |
|  | 10 | Entered by | 10 | composite ID |
|  | 11 | Verified by | 23 | composite ID |
|  | 12 | Ordering Provider | 97378 | composite ID |
|  | 15 | Order Effective D/T | 199409151010 | timestamp |
|  | 16 | Order Control Reason\* | E^ELECTRONICALLY ENTERED^99ORN^12^Requesting PhysicianCancelled^99ORR | coded element:NoO Code^NoO Name^99ORN ^#^Reasonfor Action^ 99ORR |
|  |  |
| **RXO** | 1 | Requested Give Code\* | ^^^8^DIGOXINTAB^99PSP | coded element |
|  | 2 | Requested Give Amt | 125 | numeric |
|  | 10 | Requested Dispense Code\* | 576.4^DIGOXIN 0.5MGTAB^99NDF^4213^DIGO XIN 0.5MG TAB^99PSD | coded element |
|  | 11 | Requested Disp Amt | 30 | numeric |
|  | 13 | Number of Refills | 5 | numeric |
|  | 17 | Requested Give Per | D30 | string |
|  |  |
| **RXE** | 1 | Quantity/Timing\* | 325&MG&1&TABLET^QD^^ 199409150600^199409250600^^^325MG^ | dose^schedule^duration^ start^stop^priority^^ text^conjunction |
|  | 2 | Give Code\* | 576.4^^99NDF^21^^99PSD | coded element |
|  | 10 | Dispense Amount | 100 | numeric |
|  | 12 | Number of Refills | 11 | numeric |
|  | 22 | Give Per Time | D30 | string |
|  | 23 | Give Rate Amount | 125 | string |
|  | 24 | Give Rate Units\* | ^^^^ml/hr99PSU | coded element |
|  | 25 | Give Strength | 325 | numeric |
|  | 26 | Give Strength Units\* | ^^^20^MG^99PSU | coded element |
|  |  |
| **{ NTE }** | 1 | Set ID | 7 | set ID |
|  | 2 | Source of Comment | P | table 105 |
|  | 3 | Comment | take with food | formatted text |
|  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***SEG*** | ***SEQ*** | ***FIELD NAME*** | ***EXAMPLE*** | ***HL7 TYPE*** |
| **{ RXR }** | 1 | Route\* | ^^^23^ORAL^99PSR | coded element |
|  |  |
| **{ RXC }** | 1 | RX Component Type | B | table 166 |
|  | 2 | Component Code\* | ^^^4132^D5 WNS^99PSD | coded element |
|  | 3 | Component Amount | 1 | numeric |
|  | 4 | Component Units\* | ^^^PSIV-1^ML^99OTH | coded element |
|  | 5 | Additive Frequency\*\* |  |  |
| **{ OBX }** | 1 | Set ID | 1 | set ID |
|  | 2 | Value Type | TX | table 125 |
|  | 3 | Observation ID | ^^^38^Critical Drug-Druginteraction^99OCX | coded element |
|  | 5 | Observation Value | Critical drug-druginteraction Aspirin- Warfarin | string |
|  | 14 | Date/time of Observation | 199606130813 | timestamp |
|  | 16 | Observer | 10 | composite ID |
|  |  |
| **NTE** | 1 | Set ID | 1 | set ID |
|  | 2 | Source of Comment | P | table 105 |
|  | 3 | Comment | Worth the risk | formatted text |
|  |  |
| **ZRX** | 1 | Previous Order # | 2355 | numeric |
|  | 2 | Nature of Order | W | set of codes |
|  | 3 | Reason Order Created | N | set of codes |
|  | 4 | Routing | W | set of codes |
|  | 5 | Current User\* | DUZ^NAME^99NP | composite ID |
|  | 6 | IV Identifier | IV | string |
|  |  |
| **ZSC** | 1 | Service Connected | SC | coded element |
| **}** |  |

\*- Fields marked with an asterisk require special escaping characters in order to send and receive the correct data contained in an HL7 message. See **Special Escaping Characters** for details.

\*\*-RXC Segment Field 5 “Additive Frequency” applies only to additives used to specify IV bag information.

**Note:** The following are definitions of some of the data fields under the FIELD NAME column.

SENDING APPLICATION is the name of the VistA package generating the message; RECEIVING APPLICATION is the name of the VistA package that is the intended recipient of the message. SENDING FACILITY and RECEIVING FACILITY are the station numbers.

PATIENT ID is the patient IEN in the PATIENT file (#2).

PATIENT LOCATION, for an inpatient, is Hospital Location IEN^Room^Bed. For an

outpatient, it is the Hospital Location IEN. In both cases, this is the location from which the order is being placed.

APPOINTMENT DATE/TIME is for Inpatient Medication orders for Outpatients. This is the appointment date/time that this order is associated with.

PLACER ORDER NUMBER is the OE/RR order number. FILLER ORDER NUMBER is the Pharmacy order number.

ORDERING PROVIDER is the IEN in the NEW PERSON file (#200).

ORDER STATUS identifies the current status of the order. Codes from table 38, located in HL7

V. 2.3, that will be used, and those added, include:

IP = pending

CM = finished/verified by pharmacist (active) DC = discontinued

RP = replaced HD = on hold ZE = expired

ZS = suspended (active) ZU = un-suspended (active) ZX = unreleased

ZZ = renewed

QUANTITY/TIMING contains the give amount, schedule, duration, start and stop times, and priority for the order, as well as the actual text of the dose ordered. The quantity field is delimited with ‘&’ as:

Total Dose & Unit & Give Amount & Unit & Text & Dispense Drug

By using the quantity and conjunction fields, orders with multiple schedules may be sent. For outpatient orders, multiple schedules will be sent delimited by ‘~’ and combined into a single signature (SIG); an inpatient order with multiple schedules will be sent as separate orders for each schedule. The conjunction will be S (then), A (and), or X (except).

REQUESTED GIVE CODE identifies a combination of the drug and dosage form in the format of a universal service ID. The last three pieces (alternate components) are used to identify an entry in the PHARMACY ORDERABLE ITEM file (#50.7).

PROVIDER’S PHARMACY INSTRUCTIONS are text instructions from the provider to the pharmacist; these are passed in an NTE segment following a RXO segment with an ID of 6.

PROVIDER’S ADMINISTRATION INSTRUCTIONS are Outpatient Pharmacy’s "Patient Instructions" if the provider wishes to include them with the order; these are passed in an NTE segment following a RXO or RXE segment with an ID of 7.

REQUESTED DISPENSE CODE identifies the drug ordered as it maps to the National Drug File (NDF) and to the local drug file. The first three pieces identify a VA Product Name entry in the NDF, the last three pieces (alternate components) are used to identify an entry in the DRUG file (#50). The ‘code’ field (piece 1) of the NDF portion uses two numbers, separated by a period, to identify VA Generic Name and VA Product Name. The fourth piece uses the IEN of the DRUG file (#50) to identify a dispensed drug. This field will be blank if a pharmacy orderable item, but no dispensed drug, was selected.

REQUESTED DISPENSE AMOUNT is used to pass the amount that was entered in the QUANTITY field (#7) for an outpatient order.

REQUESTED GIVE PER is used to pass the amount that was entered in the DAYS SUPPLY field (#8) for an outpatient order.

ROUTE uses the IEN of the MEDICATION ROUTES file (#51.1) to identify a route. To truly be HL7 compatible, the MEDICATION ROUTES file (#51.1) should be mapped to the four route fields identified in HL7 V. 2.3 Section 4.8.3.

In the case of an order for IV Fluids, the REQUESTED GIVE CODE will be PS-1^IV^99OTH. This will indicate that the order is for IV fluids and the solutions and additives will be found in the RXC segment.

The RXC segment may repeat, once for each solution and additive in an IV order. The RX COMPONENT TYPE is B for a solution and A for an additive.

The COMPONENT CODE identifies additives and solutions by their IEN in the PHARMACY ORDERABLE ITEM file (#50.7).

COMPONENT UNITS uses 99OTH codes to map the IV Additive units.

The OBX segment is used if there was a positive order check that the physician chose to override.

The special code, 38^Critical Drug-drug interaction^99OCX, is used to identify this OBX segment in the OBSERVATION ID data field, and the OBSERVATION VALUE data field contains the actual order check message displayed to the provider; the OBX segment will be followed by a NTE segment, if an override reason was entered.

A Z-segment (ZRX) is used to pass additional data on new orders:

PREVIOUS ORDER NUMBER identifies the order being edited or renewed by the current order; for front-door orders this will be the Pharmacy order number, and for back-door orders it will be the Order Entry order number.

NATURE OF ORDER may be (W)ritten, (V)erbal, (P)honed, (S)ervice Correction, (X) Rejected, (D)uplicate, Pol(I)cy, (A)uto, or (E)lectronically entered.

REASON the order was created may be (N)ew, (E)dit, or (R)enew. ROUTING may be (W)indow, (M)ail, or (C)linic.

CURRENT USER identifies the user currently on the system performing the actions on the order.

IV IDENTIFIER will indicate a fluid (IV), Total Parenteral Nutrition (TPN), or IV med ("").

A Z-segment (ZSC) is used for service connection, as this must be at the individual order level; values may be either SC or NSC.

### Order Event Messages

The following tables identify the HL7 data fields that are passed in each kind of event associated with OE/RR. For each event there is an order control code and a set of data fields listed. For any given event; however, some of the data fields may be empty (provider instructions, for example). Pharmacy may wish to send additional data fields in a RXE segment.

The protocols identified in the tables use OE/RR name spacing conventions. The messages sent by OE/RR will use the OR name spaced protocols indicated. Individual packages may use whatever protocol names they wish.

### Front Door - Inpatient Medications

|  |  |  |  |
| --- | --- | --- | --- |
| ***Action*** | ***Request from OE/RR*** | ***Pharmacy accepts*** | ***Pharmacy rejects*** |
|  |  |
| **Protocol** | OR EVSEND PS | PS EVSEND OR | PS EVSEND OR |
| **Order Control** | NW (new order)XO (change) | OK (accepted)XR (new order) | UA (unable to accept)UX (unable to change) |
| **HL7 Fields** | MSH: 1,2,3,4,5,6,7,9PID: 3,5PV1: 2,3ORC: 1,2,7,9,10,12,15,16RXO: 1,10NTE: 1,2,3RXR: 1OBX: 1,2,3,5,14,16ZRX: 1,2,3 | MSH: 1,2,3,4,9PID: 3,5PV1: 2,3ORC: 1,2,3,5 | MSH: 1,2,3,4,9PID: 3,5PV1: 2,3ORC: 1,2,3,12,15,16RXE: 2 |
|  |  |
| **Protocol** | OR EVSEND PS |
| **Order Control** | ZV (verified) |

|  |  |  |  |
| --- | --- | --- | --- |
| ***Action*** | ***Request from OE/RR*** | ***Pharmacy accepts*** | ***Pharmacy rejects*** |
| **HL7 Fields** | MSH: 1,2,3,4,5,6,7,9PID: 3,5PV1: 2,3,19ORC: 1,2,3,11,15 | There is no return event. |  |
|  |  |
| **Protocol** | OR EVSEND PS | PS EVSEND OR | PS EVSEND OR |
| **Order Control** | CA (cancel)DC (discontinue) HD (hold)RL (release)SS (send status) | CR (cancelled) DR (discontinued) HR (held)OR (released)SC (status update) | UC (unable to cancel) UD (unable to dc) UH (unable to hold)UR (unable to release)DE (data errors) |
| **HL7 Fields** | MSH: 1,2,3,4,5,6,7,9PID: 3,5PV1: 2,3,19ORC: 1,2,3,10,12,15,16 | MSH: 1,2,3,4,9PID: 3,5PV1: 2,3ORC: 1,2,3,5RXE: 1 | MSH: 1,2,3,4,9PID: 3,5PV1: 2,3ORC: 1,2,3,16 |

OE/RR will use CA to cancel orders, which have not been finished by Pharmacy; DC will be used for orders that have been finished.

### Example: Digoxin .125 mg QAM

#### New Order

MSH|^~\&|ORDER ENTRY|13000|PHARMACY|13000|20080304165 101-0600||ORM

PID|||750||PSJPATIENT,TESTPAT-FIVE

PV1||I|5||||||||||||||||||||||||||||||||||||||||| ORC|NW|12613;1^OR|||||2&MG&1&TABLET&2 MG&58^BID&01-13

^^200803050100-0600^^R^C^2 MG^~||200803041650- 0600|11884||11884|||20080304165101

-0600|I^POLICY^99ORN^^^

RXO|^^^81^BIPERIDEN TAB ^99PSP|||||||||785.4409^^99ND F^58^^99PSD

RXR|^^^1^ORAL (BY MOUTH)^99PSR

ZRX||I|N

#### Verified by Nursing staff

MSH|^~\&|ORDER ENTRY|13000|PHARMACY|13000|20080304165 253-0600||ORM

PID|||750||PSJPATIENT,TESTPAT-FIVE

PV1||I|5||||||||||||||||||||||||||||||||||||||||| ORC|ZV|12613^OR|2929P^PS||||||||11884||||200803041652 53-0600

#### Discontinue Order

MSH|^~\&|ORDER ENTRY|13000|PHARMACY|13000|20080304165 754-0600||ORM

PID|||750||PSJPATIENT,TESTPAT-FIVE

PV1||I|5||||||||||||||||||||||||||||||||||||||||| ORC|DC|12614;2^OR|54U^PS|||||||11884||11884|||2008030 4165754-0600|I^POLICY^99ORN^14^Requesting Physician Cancelled^99ORR

# External Relationships

## Packages Needed to Run Inpatient Medications

The Inpatient Medications package requires the minimum version, stated on the following external packages, to run effectively:

PACKAGE MINIMUM VERSION NEEDED

|  |  |
| --- | --- |
| Kernel | 8.0 |
| VA FileMan | 22.0 |
| MailMan | 8.0 |
| PIMS | 5.3 |
| CPRS | 1.0 |
| Outpatient Pharmacy | 7.0 |
| PDM | 1.0 |
| Dietetics | 5.0 |
| Bar Code Medication Administration | 3.0 |
| HealtheVet Web Services Client (HWSC) | 1.0 |
| VistALink | 1.5 |

## Unit Dose Medications and Ward Stock

The Inpatient Medications package also has a tie to the Automatic Replenishment/Ward Stock package so that if the site is running the Automatic Replenishment/Ward Stock package, the Inpatient Medications package will know which items in the DRUG file (#50) are ward stock items for each ward. The tie is a cross-reference under the PHARMACY AOU STOCK file (#58.1).

## Unit Dose Medications and Drug Accountability

The Inpatient Medications package also has a tie to the Drug Accountability package so that if the site is running the Drug Accountability package, the Inpatient Medications package will know which items in the DRUG file (#50) are ward stock items for each ward. This cross- reference is the link between the Controlled Substances package and the Unit Dose package for determining ward-stocked drugs.

## Calls Made by Inpatient Medications

The following external calls are supported via inter-package agreements:

|  |  |
| --- | --- |
| **ROUTINE** | **ENTRY POINTS USED** |
| ECXUD1 | ^ECXUD1 |
| ECXPIV1 | ^ECXPIV1 |
| GMRVUTL | EN6 |
| GMRADPT | EN1 |
| GMRAOR | $$ORCHK |
| GMRAOR2 | EN1 |
| GMRAPEM0 | EN2 |
| OR3CONV | OTF |
| ORCONV3 | PSJQOS |
| ORERR | EN |
| OROCAPI | $$AOC, $$DOC, $$GOC |
| ORUTL | READ |
| ORX1 | NA |
| ORX2 | LK,ULK |
| PSAPSI5 | EN |
| PSBIPM | EN, MOB, MOBR |
| PSSDSAPD | $$DOSE, $$DRT |
| PSSDSAPI | $$BSA, $$DS, $$EXMT, $$FRQ, $$MRT,$$UNIT, $$SUP |
| PSSFDBRT | GROUTE |
| PSSHLSCH | EN |
| PSODDPR4 | BLD |
| PSODRDU2 | EN |
| SDROUT2 | DIS |
| SDAMA203 | SDIMO |
| VADPT | IN5, INP, PID, SDA |

## Introduction to Integration Agreements and Entry Points

The following integration agreements and entry points are provided for the associated packages; only those packages listed can use these integration agreements and entry points. If there are any questions, please contact the Birmingham Health System Design & Development (HSD&D) Field Office.

2945 NAME: **Use of calls in PSIVSP**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City

ROUTINE: PSIVSP

3143 NAME: **DBIA3143**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: CLINICAL REMINDERS Salt Lake City

ROUTINE: PSJORAPI

3167 NAME: **3167**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City

ROUTINE: PSJORPOE

3243 NAME: **Active Flag**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City

ROUTINE: PSJORREN

3320 NAME: **UPDATE BCMA STATUS INFORMATION**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: BAR CODE MED ADMIN Birmingham

ROUTINE: PSJBCMA3

3416 NAME: **DBIA3416**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: BAR CODE MED ADMIN Birmingham

ROUTINE: PSJBCMA4

3598 NAME: **DBIA3598**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City

ROUTINE: PSJOERI

3836 NAME: **PSJPXRM1**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: CLINICAL REMINDERS Salt Lake City

ROUTINE: PSJPXRM1

3876 NAME: **PSJBCBU**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: BAR CODE MED ADMIN Birmingham

ROUTINE: PSJBCBU

4074 NAME: OR Call to PSJORUT2

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City

ROUTINE: PSJORUT2

4264 NAME: **PDM ACCESS TO PSJXRFS**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: PHARMACY DATA MANAGEMENT Birmingham

ROUTINE: PSJXRFS

4265 NAME: **PDM ACCESS TO PSJXRFK**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: PHARMACY DATA MANAGEMENT Birmingham

ROUTINE: PSJXRFK

4537 NAME: **PSJ53P1**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE:

ROUTINE: PSJ53P1

4580 NAME: **VALIDATE DOW SCHEDULES**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: PHARMACY DATA MANAGEMENT Birmingham

ROUTINE: PSIVUTL

4819 NAME: **PSJ59P5**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE:

ROUTINE: PSJ59P5

5001 NAME: **Pointing to the PHARMACY QUICK ORDER (#57.1) File**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE:

USUAGE: Supported

5057 NAME: **BCMA LAST ACTION**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: OUTPATIENT PHARMACY Birmingham

DRUG ACCOUNTABILITY ROUTINE: PSJUTL2

5058 NAME: **ALLERIES ARRAY**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: OUTPATIENT PHARMACY Birmingham

ROUTINE: PSJMUTL

5306 NAME: **PSJBLDOC**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: OUTPATIENT PHARMACY Birmingham

ROUTINE: PSJBLDOC

5385 NAME: **Dosing Checks for IVs**

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City

ROUTINE: PSJAPIDS

**Example: How to Print DBIA Information from FORUM**

Select FORUM Primary Menu Option: **DBA**

Select DBA Option: **INTEGRATI**on Agreements Menu

Select Integration Agreements Menu Option: **INQUIR**e

Select INTEGRATION REFERENCES: **DBIA296** 296 INPATIENT MEDICATIONS DBIA296

DEVICE: *[Select Print Device]*

PS(50.8,

INTEGRATION REFERENCE INQUIRY #296 OCT 1,1996 10:24 PAGE 1

296 NAME: DBIA296

CUSTODIAL PACKAGE: INPATIENT MEDICATIONS Birmingham SUBSCRIBING PACKAGE: OUTPATIENT PHARMACY Birmingham

USAGE: Private APPROVED: APPROVED

STATUS: Active EXPIRES:

DURATION: Till Otherwise Agr VERSION:

FILE: 50.8 ROOT: PS(50.8, DESCRIPTION: TYPE: File

Outpatient Pharmacy 6.0v will be printing a management report. In order to complete the report, we need to read ^PS(50.8 (IV STATS FILE). We are reporting the outpatient ward's number of dispensed units, average cost of the dispensed units, and the total costs of the dispensed units.

To obtain this data, we need to read the 0 node in subfile 50.804, the Average Drug Cost Per Unit field (#4) on the 0 node piece 5 in subfile 50.805, the Dispensed Units (Ward) field (#2) on the 0 node piece 2 in the subfile 50.808, and the B cross-reference in subfile 50.808.

GLOBAL MAP DATA DICTIONARY #50.8 -- IV STATS FILE STORED IN ^PS(50.8, SITE: BIRMINGHAM ISC

^PS(50.8 D0,2,D1,1,0)=^50.804P^^ (#1) WARD ^PS(50.8,D0,2,D1,2,D2,0)=^^^^ (#4) AVERAGE DRUG COST PER UNIT [5N] ^PS(50.8,D0,2,D1,2,D2,3,D3,0)=^ (#2) DISPENSED UNITS (WARD) [2N] ^

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# 19 Glossary

**Action Prompts** There are three types of Inpatient Medications “Action” prompts that occur during order entry: ListMan, Patient/Order, and Hidden action prompts.

### ListMan Action Prompts

**Patient/Order Action Prompts**

+ Next Screen

- Previous Screen

UP Up a Line

DN Down a Line

> Shift View to Right

< Shift View to Left

FS First screen

LS Last Screen

GO Go to Page

RD Re Display Screen

PS Print Screen

PT Print List

SL Search List

Q Quit

ADPL Auto Display (on/off)

PU Patient Record Updates

DA Detailed Allergy/ADR List

VP View Profile

NO New Orders Entry

IN Intervention Menu

PI Patient Information

SO Select Order

DC Discontinue

ED Edit

FL Flag

VF Verify

HD Hold

### Patient/Order Action Prompts

**(continued)** RN Renew

AL Activity Logs

OC On Call

NL Print New IV Labels

RL Reprint IV Labels

RC Recycled IV

DT Destroyed IV

CA Cancelled IV

### Hidden Action Prompts

LBL Label Patient/Report

JP Jump to a Patient

OTH Other Pharmacy Options MAR MAR Menu

DC Speed Discontinue

RN Speed Renew

SF Speed Finish

SV Speed Verify

CO Copy

N Mark Not to be Given

I Mark Incomplete

DIN Drug Restr/Guide

**Active Order** Any order which has not expired or been discontinued. Active orders also include any orders that are on hold or on call.

**Activity Reason Log** The complete list of all activity related to a patient order. The log contains the action taken, the date of the action, and the user who took the action.

**Activity Ruler** The activity ruler provides a visual representation of the relationship between manufacturing times, doses due and order start times. The intent is to provide the on- the-floor user with a means of tracking activity in the IV room and determining when to call for doses before the normal delivery. The activity ruler can be enabled or disabled under the *SIte Parameters (IV)* [PSJI SITE PARAMETERS] option.

**Additive** A drug that is added to an IV solution for the purpose of parenteral administration. An additive can be an electrolyte, a vitamin or other nutrient, or an antibiotic. Only electrolyte or multivitamin type additives can be entered as IV fluid additives in CPRS.

**ADMINISTRATION SCHEDULE** File #51.1. This file contains administration

**File** schedule names and standard dosage administration times. The name is a common abbreviation for an administration schedule type (e.g., QID, Q4H, PRN). The administration time entered is in military time, with each time separated from the next by a dash, and times listed in ascending order.

**Administering Teams** Nursing teams used in the administration of medication

to the patients. There can be a number of teams assigned to take care of one ward, with specific rooms and beds assigned to each team.

**Admixture** An admixture is a type of intravenously administered medication comprised of any number of additives (including zero) in one solution. It is given at a specified flow rate; when one bottle or bag is empty, another is hung.

**APSP INTERVENTION File** File #9009032.4. This file is used to enter pharmacy

interventions. Interventions in this file are records of occurrences where the pharmacist had to take some sort of action involving a particular prescription or order. A record would record the provider involved, why an intervention was necessary, what action was taken by the pharmacists, etc.

**Average Unit Drug Cost** The total drug cost divided by the total number of units

of measurement.

**BCMA** A VistA computer software package named Bar Code Medication Administration. This package validates medications against active orders prior to being administered to the patient.

**Chemotherapy** Chemotherapy is the treatment or prevention of cancer with chemical agents. The chemotherapy IV type administration can be a syringe, admixture, or a piggyback. Once the subtype (syringe, piggyback, etc.) is selected, the order entry follows the same procedure as the type that corresponds to the selected subtype (e.g., piggyback type of chemotherapy follows the same entry procedure as regular piggyback IV).

**Chemotherapy “Admixture”** The Chemotherapy “Admixture” IV type follows the

same order entry procedure as the regular admixture IV type. This type is in use when the level of toxicity of the chemotherapy drug is high and is to be administered continuously over an extended period of time (e.g., seven days).

**Chemotherapy “Piggyback”** The Chemotherapy “Piggyback” IV type follows the

same order entry procedure as the regular piggyback IV type. This type of chemotherapy is in use when the chemotherapy drug does not have time constraints on how fast it must be infused into the patient. These types are normally administered over a 30 - 60 minute interval.

**Chemotherapy “Syringe”** The Chemotherapy “Syringe” IV type follows the same

order entry procedure as the regular syringe IV type. Its administration may be continuous or intermittent. The pharmacist selects the type when the level of toxicity of the chemotherapy drug is low and needs to be infused directly into the patient within a short time interval (usually 1-2 minutes).

**Clinic Group** A clinic group is a combination of outpatient clinics that have been defined as a group within Inpatient Medications to facilitate processing of orders.

**CLINIC DEFINITION File** File #53.46. This file is used in conjunction with

Inpatient Medications for Outpatients (IMO) to give the user the ability to define, by clinic, default stop dates, whether to auto-dc IMO orders, and whether to send IMO orders to BCMA.

**CLINIC GROUP File** File #57.8. This file is used to provide grouping of

clinics for the Non-Verified Pending option and miscellaneous reports.

**Continuous Syringe** A syringe type of IV that is administered continuously to the patient, similar to a hyperal IV type. This type of syringe is commonly used on outpatients and administered automatically by an infusion pump.

**Coverage Times** The start and end of coverage period designates administration times covered by a manufacturing run. There must be a coverage period for all IV types: admixtures and primaries, piggybacks, hyperals, syringes, and chemotherapy. For one type, admixtures for example, the user might define two coverage periods; one from 1200 to 0259 and another from 0300 to 1159 (this would mean that the user has two manufacturing times for admixtures).

**CPRS** A VistA computer software package called Computerized Patient Record Systems. CPRS is an application in VistA that allows the user to enter all necessary orders for a patient in different packages from a single application. All pending orders that appear in the Unit Dose and IV Medications modules are initially entered through the CPRS package.

**Cumulative Doses** The number of IV doses actually administered, which equals the total number of bags dispensed less any recycled, destroyed, or canceled bags.

**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.

**Default Answer** The most common answer, predefined by the system to save time and keystrokes for the user. The default

answer appears before the two slash marks (//) and can be selected by the user by pressing <**Enter**>.

**Delivery Times** The time(s) when IV orders are delivered to the wards.

**Dispense Drug** The Dispense Drug name has the strength attached to it (e.g., Acetaminophen 325 mg). The name alone without strength attached is the Orderable Item name.

**Dosage Ordered** After the user has selected the drug during order entry, the dosage ordered prompt is displayed.

**DRUG ELECTROLYTES File** File #50.4. This file contains the names of

anions/cations, and their concentration units.

**DRUG File** File #50. This file holds the information related to each drug that can be used to fill a prescription.

**Electrolyte** An additive that disassociates into ions (charged particles) when placed in solution.

**Entry By** The name of the user who entered the Unit Dose or IV order into the computer.

**Hospital Supplied Self Med** Self med which is to be supplied by the Medical

Center’s pharmacy. Hospital supplied self med is only prompted for if the user answers Yes to the SELF MED prompt during order entry.

**Hyperalimentation (Hyperal)** Long term feeding of a protein-carbohydrate solution.

Electrolytes, fats, trace elements, and vitamins can be added. Since this solution generally provides all necessary nutrients, it is commonly referred to as Total Parenteral Nutrition (TPN). A hyperal is composed of many additives in two or more solutions. When the labels print, they show the individual electrolytes in the hyperal order.

**Infusion Rate** The designated rate of flow of IV fluids into the patient.

**INPATIENT USER** File #53.45. This file is used to tailor various aspects

**PARAMETERS File** of the Inpatient Medications package with regards to specific users. This file also contains fields that are used as temporary storage of data during order entry/edit.

**INPATIENT WARD** File #59.6. This file is used to tailor various aspects

**PARAMETERS File** of the Inpatient Medications package with regards to specific wards.

**Intermittent Syringe** A syringe type of IV that is administered periodically to

the patient according to an administration schedule.

**Internal Order Number** The number on the top left corner of the label of an IV

bag in brackets ([ ]). This number can be used to speed up the entry of returns and destroyed IV bags.

**IV ADDITIVES File** File #52.6. This file contains drugs that are used as additives in the IV room. Data entered includes drug generic name, print name, drug information, synonym(s), dispensing units, cost per unit, days for IV order, usual IV schedule, administration times, electrolytes, and quick code information.

**IV CATEGORY File** File #50.2. This file allows the user to create categories

of drugs in order to run “tailor-made” IV cost reports for specific user-defined categories of drugs. The user can group drugs into categories.

**IV Duration** The duration of an order may be entered in CPRS at the IV DURATION OR TOTAL VOLUME field in the IV

Fluids order dialog. The duration may be specified in terms of volume (liters or milliliters), or time (hours or days). Inpatient Medications uses this value to calculate a default stop date/time for the order at the time the order is finished.

**IV Label Action** A prompt, requesting action on an IV label, in the form of “Action ( )”, where the valid codes are shown in the parentheses. The following codes are valid:

P – Print a specified number of labels now. B – Bypass any more actions.

S – Suspend a specified number of labels for the IV room to print on demand.

**IV Room Name** The name identifying an IV distribution area.

**IV SOLUTIONS File** File #52.7. This file contains drugs that are used as primary solutions in the IV room. The solution must already exist in the DRUG file (#50) to be selected. Data in this file includes: drug generic name, print name, status, drug information, synonym(s), volume, and electrolytes.

**IV STATS File** File #50.8. This file contains information concerning the IV workload of the pharmacy. This file is updated each time the *COmpile IV Statistics* option is run and the data stored is used as the basis for the AMIS (IV) report.

**Label Device** The device, identified by the user, on which computer- generated labels will be printed.

**Local Possible Dosages** Free-text dosages that are associated with drugs that do

not meet all of the criteria for Possible Dosages.

**LVP** Large Volume Parenteral — Admixture. A solution intended for continuous parenteral infusion, administered as a vehicle for additive(s) or for the pharmacological effect of the solution itself. It is comprised of any number of additives, including zero, in one solution. An LVP runs continuously, with another bag hung when one bottle or bag is empty.

**Manufacturing Times** The time(s) that designate(s) the general time when the

manufacturing list will be run and IV orders prepared. This field in the *SIte Parameters (IV)* [PSJI SITE PARAMETERS] option (IV ROOM file (#59.5)) is for documentation only and does not affect IV processing.

**MEDICATION ADMINISTERING** File #57.7. This file contains wards, the teams used in

**TEAM File** the administration of medication to that ward and the rooms/beds assigned to that team.

**MEDICATION INSTRUCTION File** File #51.2. This file is used by Unit Dose and

Outpatient Pharmacy. It contains the medication instruction name, expansion, and intended use.

**MEDICATION ROUTES File** File #51.2. This file contains medication route names.

The user can enter an abbreviation for each route to be used at their site. The abbreviation will most likely be the Latin abbreviation for the term.

**Medication Routes/** Route by which medication is administered

**Abbreviations** (e.g., oral). The MEDICATION ROUTES file (#51.2) contains the routes and abbreviations, which are selected by each VAMC. The abbreviation cannot be longer than five characters to fit on labels and the MAR. The user can add new routes and abbreviations as appropriate.

**MOCHA** Medication Order Check Healthcare Application.

**Non-Formulary Drugs** The medications that are defined as commercially

available drug products not included in the VA National Formulary.

**Non-Verified Orders** Any order that has been entered in the Unit Dose or IV

Medications module that has not been verified (made active) by a nurse and/or pharmacist. Ward staff may not verify a non-verified order.

**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).

**Order Sets** An Order Set is a set of N pre-written orders. (N indicates the number of orders in an Order Set is variable.) Order Sets are used to expedite order entry for drugs that are dispensed to all patients in certain medical practices and procedures.

**Order View** Computer option that allows the user to view detailed information related to one specific order of a patient. The order view provides basic patient information and identification of the order variables.

**Parenteral** Introduced by means other than by way of the digestive track.

**Patient Profile** A listing of a patient’s active and non-active Unit Dose and IV orders. The patient profile also includes basic patient information, including the patient’s name, social security number, date of birth, diagnosis, ward location, date of admission, reactions, and any pertinent remarks.

**PECS** Pharmacy Enterprise Customization System. A Graphical User Interface (GUI) web-based application used to research, update via DATUP, maintain, and report VA customizations of the commercial-off-the- shelf (COTS) vendor database used to perform Pharmacy order checks such as drug-drug interactions, duplicate therapy, and dosing.

**Pending Order** A pending order is one that has been entered by a provider through CPRS without Pharmacy or Nursing finishing the order. Once Pharmacy or Nursing has finished and verified the order, it will become active.

**PEPS** Pharmacy Enterprise Product Services. A suite of services that includes Outpatient and Inpatient services.

**PHARMACY SYSTEM File** File #59.7. This file contains data that pertains to the

entire Pharmacy system of a medical center, and not to any one site or division.

**Piggyback** Small volume parenteral solution for intermittent infusion. A piggyback is comprised of any number of additives, including zero, and one solution; the mixture is made in a small bag. The piggyback is given on a schedule (e.g., Q6H). Once the medication flows in, the piggyback is removed; another is not hung until the administration schedule calls for it.

**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 VA PRODUCT file (#50.68). The VA PRODUCT file

(#50.68) 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.

**Pre-Exchange Units** The number of actual units required for this order until the next cart exchange.

**Primary Solution** A solution, usually an LVP, administered as a vehicle for additive(s) or for the pharmacological effect of the solution itself. Infusion is generally continuous. An

LVP or piggyback has only one solution (primary solution). A hyperal can have one or more solutions.

**Print Name** Drug generic name, as it is to appear on pertinent IV output, such as labels and reports. Volume or Strength is not part of the print name.

**Print Name{2}** Field used to record the additives contained in a commercially purchased premixed solution.

**Profile** The patient profile shows a patient’s orders. The Long profile includes all the patient’s orders, sorted by status: active, non-verified, pending, and non-active. The Short profile will exclude the patient’s discontinued and expired orders.

**Prompt** A point at which the system questions the user and waits for a response.

**Provider** Another term for the physician involved in the prescription of an IV or Unit Dose order for a patient.

**PSJI MGR** The name of the *key* that allows access to the supervisor functions necessary to run the IV medications software. Usually given to the Inpatient package coordinator.

**PSJI PHARM TECH** The name of the *key* that must be assigned to pharmacy

technicians using the IV Medications module. This key allows the technician to finish IV orders, but not verify them.

**PSJI PURGE** The key that must be assigned to individuals allowed to purge expired IV orders. This person will most likely be the IV application coordinator.

**PSJI RNFINISH** The name of the *key* that is given to a user to allow the finishing of IV orders. This user must also be a holder of the PSJ RNURSE key.

**PSJI USR1** The primary menu option that may be assigned to nurses.

**PSJI USR2** The primary menu option that may be assigned to technicians.

**PSJU MGR** The name of the *primary menu option* and of the *key* that must be assigned to the pharmacy package coordinators and supervisors using the Unit Dose Medications module.

**PSJU PL** The name of the *key* that must be assigned to anyone using the *Pick List Menu* options.

**PSJ PHARM TECH** The name of the *key* that must be assigned to pharmacy

technicians using the Unit Dose Medications module.

**PSJ RNFINISH** The name of the *key* that is given to a user to allow the finishing of a Unit Dose order. This user must also be a holder of the PSJ RNURSE key.

**PSJ RNURSE** The name of the *key* that must be assigned to nurses using the Unit Dose Medications module.

**PSJ RPHARM** The name of the *key* that must be assigned to a pharmacist to use the Unit Dose Medications module. If the package coordinator is also a pharmacist he/she must also be given this key.

**PSJ STAT NOW ACTIVE** A mail group that notifies subscribers when a pending

**ORDER Mail Group** STAT or NOW order is made active.

**PSJ STAT NOW PENDING** A mail group that notifies subscribers when a pending

**ORDER Mail Group** STAT or NOW order has been received from CPRS.

**Quick Code** An abbreviated form of the drug generic name (from one to ten characters) for IV orders. One of the three drug fields on which lookup is done to locate a drug. Print name and synonym are the other two. Use of quick codes will speed up order entry, etc.

**Report Device** The device, identified by the user, on which computer- generated reports selected by the user will be printed.

**Schedule** The frequency of administration of a medication (e.g., QID, QDAILY, QAM, STAT, Q4H).

**Schedule Type** Codes include: **O** - one time (i.e., STAT - only once), **P**

- PRN (as needed; no set administration times). **C**- continuous (given continuously for the life of the order; usually with set administration times). **R** - fill on request (used for items that are not automatically put in the cart - but are filled on the nurse’s request. These can be multidose items (e.g., eye wash, kept for use by one patient and is filled on request when the supply is exhausted). And **OC** - on call (one time with no

specific time to be given, i.e., 1/2 hour before surgery).

**Self Med** Medication that is to be administered by the patient to himself.

**Standard Schedule** Standard medication administration schedules stored in the ADMINISTRATION SCHEDULE file (#51.1).

**Start Date/Time** The date and time an order is to begin.

**STAT and NOW Order Notification** Sends a text message to subscribers of the PSJ STAT

NOW mail groups when a pending STAT or NOW order has been received from CPRS or has been verified and made active.

**Status A** - active, **E** - expired, **R** - renewed (or reinstated), **D** - discontinued, **H** - on hold, **I** - incomplete, or **N** - non- verified, **U** – unreleased, **P** – pending, **O** – on call, **DE**

– discontinued edit, **RE** – reinstated, **DR** – discontinued renewal.

**Stop Date/Time** The date and time an order is to expire.

**Stop Order Notices** A list of patient medications that are about to expire and may require action.

**Syringe** Type of IV that uses a syringe rather than a bottle or bag. The method of infusion for a syringe-type IV may be continuous or intermittent.

**Syringe Size** The syringe size is the capacity or volume of a particular syringe. The size of a syringe is usually measured in number of cubic centimeters (ccs).

**TPN** Total Parenteral Nutrition. The intravenous

administration of the total nutrient requirements of the

patient. The term TPN is also used to mean the solution compounded to provide those requirements.

**Units per Dose** The number of Units (tablets, capsules, etc.) to be dispensed as a Dose for an order. Fractional numbers will be accepted.

**VA Drug Class Code** A drug classification system used by VA that separates

drugs into different categories based upon their characteristics. IV cost reports can be run for VA Drug Class Codes.

**VDL** Virtual Due List. This is a Graphical User Interface (GUI) application used by the nurses when administering medications.

**Ward Group** A ward group indicates inpatient nursing units (wards) that have been defined as a group within Inpatient Medications to facilitate processing of orders.

**WARD GROUP File** File #57.5. This file contains the name of the ward group, and the wards included in that group. The grouping is necessary for the pick list to be run for specific carts and ward groups.

**Ward Group Name** A field in the WARD GROUP File (#57.5) used to assign an arbitrary name to a group of wards for the pick list and medication cart.

**WARD LOCATION File** File #42. This file contains all of the facility ward

locations and their related data, i.e., Operating beds, Bedsection, etc. The wards are created/edited using the *Ward Definition* option of the Automatic Data Transmission (ADT) module.