Existing Product Intake Program (EPIP)

Patch PSJ\*5.0\*363

Remediation Plan



Department of Veterans Affairs

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Version 2.0

Revision History

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 02/01/2019 | 2.0 | Updated the Patch Description, Coding Changes, and Documentation Remediation sections. Populated Appendices A and B with new XINDEX and code listings. | EPIP Project Team |
| 04/03/2018 | 1.0 | Initial (draft) version | EPIP Project Team |

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# Introduction

The Department of Veterans Affairs (VA) currently utilizes the Veterans Health Information Systems and Technology Architecture (VistA) suite of applications to provide clinical, financial, infrastructure, and management tools. The process of advancing “Class 3” field-developed VistA software to “Class 1” nationally-distributed status is referred to as the Existing Product Intake Program (EPIP). The VA’s goal is to supplement ongoing activities associated with evaluating and advancing field-developed software to a state that meets national standards and facilitates release for Veterans Health Administration (VHA)-wide use.

# Purpose

The purpose of this document is to fully describe the remediation plan to be used for the successful remediation of the intake product code to be deployed as patch PSJ\*5.0\*363. This patch addresses the following NSRs:

* NSR20171103 *Pick List Sorting for Integrated Sites*

This NSR has been implemented locally at VA Medical Centers in the New York/New Jersey VA Health Care Network, based in Bronx, NY.

* NSR20171105 *Patient Identifiers Added to Pick List sent to COTS Vendor Labeling Machine*

This NSR has been implemented locally at the VA Medical Center in Hines, IL.

* NSR 20171110 *Modify Prompt Default to Prevent Overwriting ATC Canister*

This NSR has been implemented locally at VA Medical Centers in the New York/New Jersey VA Health Care Network, based in Bronx, NY.

This document addresses the schedule, code remediation, testing, documentation, and delivery of this remediation effort.

# Patch Description

Patch PSJ\*5.0\*363 provides the following enhancements to VistA:

* Enables integrated sites to sort Pick Lists using a different sort method for each Ward Group (ATC MNEMONIC or ADMIN TIME). Currently, the Unit Dose package does not allow multi-divisional sites to specify the sort method for a Ward Group; instead, one method is used for all groups and divisions. This modification gives integrated sites the flexibility to allow each pharmacy site to use the sort method that best suits the needs of staff and patients.

The sort method for each site is stored in the new ATC SORT PARAMETER field (#5.08) in the WARD GROUP file (#57.5), which functions as a parameter to store the sort method for the WARD GROUP. Inpatient Pharmacy Supervisors can modify the new parameter using the Ward Groups [PSJU EWG] option in the Supervisor’s Menu [PSJU FILE]; the input template [PSJU WG] is updated to provide access to this parameter. If no sort method is specified for the ATC SORT PARAMETER parameter in the WARD GROUP file, the system defaults to the sort method specified in the existing ATC SORT PARAMETER (#26.2) field in the PHARMACY SYSTEM (#59.7) file.

* Enhances the information transmitted by VistA to ATC/FastPak machines to include the Patient ward, room, and bed number and to truncate the Social Security Number (SSN). The VistA menu option Send Pick List to ATC [PSJU PLATCS] is modified to implement this change.

For pharmacists who organize medication delivery runs using a medication dispensing machine, including the ward, room, and bed number ensures that the location to which the medication must be delivered is unambiguous. For example, a location of “ECC1-CC178-1” indicates a Ward location of “EEC1-C” and a Room-Bed location of “C178-1.”

Order details sent to the ATC are also modified to truncate the patient SSN to five characters comprised of the first letter of the patient’s last name and the last four digits of the patient’s SSN (e.g., “S1569”). This format, referred to as “1U4N,” is implemented to protect patient privacy and comply with HIPPA standards.

* Modifies the existing Dispense Drug/ATC Set Up [PSSJU DRUG/ATC SET UP] option in the Inpatient Medications Supervisor’s Menu [PSJU FILE] to enable changing the default response to the prompt “Do you want to set up your drugs for (O)ne ATC or (M)ultiple ATCs?”. Help text assists the user in choosing the most appropriate default response to this prompt.

At integrated sites with multiple ATC machines, accepting the current default of “(O)ne ATC” updates all ATCs and Pick Lists for every ward location in the division. Changing the default response to “(M)ultiple ATCs” helps ensure that pharmacy staff at integrated sites can update medications for the site ATC and site Pick Lists without inadvertently modifying ATCs and Pick Lists associated with other facilities. Sites with only one ATC can continue using the default response “(O)ne ATC.”

## Business Epics and Sub-Epics

The Business Epics and Sub-Epics for the NSR(s) addressed in this remediation are:

NSR20171103 *Pick List Sorting for Integrated Sites*

* BUSINESS EPIC 954532: Sort Pick List Based on Division Need – For Pharmacists who print pick lists at multi-divisional facilities, a modification to the ‘Send Pick List To ATC’ menu option that allows my Pick Lists to be sorted based upon the needs of my division, which may be different from the primary site. Unlike the current solution which forces all multi-divisional sites to sort pick lists identically, our process ensures that each site can choose the most efficient way to administer drugs to the patient.

NSR20171105 *Patient Identifiers Added to Pick List sent to COTS Vendor Labeling Machine*

* BUSINESS EPIC 951402: Patient Location Added to Pick List for ATC – For Pharmacists organizing Unit Dose delivery runs who utilize a medication dispensing machine, a modification to the data transmitted via the ‘Send Pick List To ATC’ menu option that displays the patient’s ward and room number and truncates the SSN. Unlike the current solution which does not display the patient’s location, our process ensures the output contains the location of where the medications should go, allowing pharmacists to save time on organizing delivery runs.

NSR 20171110 *Modify Prompt Default to Prevent Overwriting ATC Canister*

* BUSINESS EPIC 951017: Set Default Value for Dispense Drug Canister – For Pharmacists or Pharmacy Technicians who set up drugs to be dispensed by an ATC machine, a modification to the Dispense Drug/ATC Set Up option that changes the default value for the ‘Do you want to set up your drugs for (O)ne ATC or (M)ultiple ATCs?’ based upon a site determined value. Unlike the current solution which always default to “(O)ne ATC”, our process ensures staff do not accidentally accept default values that are not appropriate for their site resulting in lots of rework.

# Points of Contact

The VA Point of Contact (POC) for the following NSRs is Robert Silverman ([Robert.Silverman@va.gov](mailto:Robert.Silverman@va.gov)), 708-202-5040:

* NSR20171103 *Pick List Sorting for Integrated Sites*
* NSR20171105 *Patient Identifiers Added to Pick List sent to COTS Vendor Labeling Machine*
* NSR20171110 *Modify Prompt Default to Prevent Overwriting ATC Canister*

# Code Remediation

Leidos will review and analyze the intake product code for compliance with coding standards, pointers, shared tables, dependencies, and any interference with VistA systems.

## Standards and Conventions

Leidos will reference the <http://go.va.gov/sacc> website for applicable documents and will adhere to VA standards to complete the analysis of this intake product. The output of the VA XINDEX utility will be used to analyze the MUMPS source code and document the affected routines (see Appendix A).

The MUMPS coding standards website <http://71.174.62.16/Demo/AnnoStd> will also be used to ensure that the remediated code conforms to VA standards.

## Review and Analysis

Review and analysis of this intake product involves two parts: 1) verification that the source code changes specified in this document provide the desired effect, and 2) verification that the source code changes do not adversely affect any other VistA or CPRS functionality.

Testing will be performed to validate that the intended effect of these products is implemented, and that no other VistA or CPRS Graphical User Interface (GUI) functionality is adversely affected.

## Coding Changes

The coding changes required for NSR20171103 *Pick List Sorting for Integrated Sites* are in the following routines:

**Modified MUMPS routines:** PSGTAP

**New MUMPS routines:** N/A

The coding changes required for NSR20171105 *Patient Identifiers Added to Pick List sent to COTS Vendor Labeling Machine* are in the following routines:

**Modified MUMPS routines:** PSGTAP0

**New MUMPS routines:** N/A

The coding changes required for NSR 20171110 *Modify Prompt Default to Prevent Overwriting ATC Canister* are in the following routines:

**Modified MUMPS routines:** PSGFILD3, PSGFILED

**New MUMPS routines:** N/A

A detailed analysis of the coding changes is provided in Appendix B.

# Testing

Leidos will perform all testing-related activities to ensure that the remediated code meets the expectations of the VA business owner.

## Test Plan

Leidos will configure the test environment, provide code modifications and end-to-end testing, and deliver applicable testing documentation, following Veteran-focused Integration Process (VIP) guidelines.

The Leidos developer will modify the software pursuant to the VA standards defined in the *Standards and Conventions* section of this document, and will conduct full unit testing of the functionality and verify performance of all software code before it is released to Leidos SQA. SQA will then perform all applicable testing types as described in the *Testing Phases* section of this document. The developer and SQA will resolve problems and address issues as they arise during testing and will document issues using the Rational Team Concert (RTC) defect tracking tool.

## Test Environment

Within five working days of approval of this Remediation Plan, the developer will configure the development/test environment on an Austin Information Technology Center (AITC) server or other VA-approved development/test environment used for this intake product and install the remediated Kernel Installation and Distribution System (KIDS) build or host file. The environment will be restored to its original baseline state by the VistA system administrator after development testing is completed, followed by installation of the remediated software.

Upon notification from the developer of test environment readiness, SQA will commence with planned testing activities. The SQA test execution and reporting documentation will reside in the Rational Quality Manager (QM) “EPIP” Project. In order to perform testing of this VistA modification, the following tools will be leveraged: Rational QM, Reflections emulator, CPRS GUI v31A (1.0.31.116), and SnagIt.

## Test Readiness Review

Leidos will conduct a Test Readiness Review (TRR) at the conclusion of unit testing to verify the contents of the software to be tested, the test schedule, test environments, test participants, and associated logistics. Leidos will provide an agenda prior to the TRR and written minutes after completion of the TRR, in accordance with the Performance Work Statement (PWS).

## Testing Phases

Leidos will perform development and SQA testing activities in phases, and will provide all required testing documentation.

### Unit Testing

The developer will conduct unit testing of individual units of source code to determine if they are fit for use.

### Component Integration and Systems Testing (CI/ST)

Component Integration and Systems testing will be conducted by SQA to ensure that connectivity to the VistA application exists and is functioning normally. SQA will record Passed/Failed outcomes and capture displayed content to document the system testing effort.

### Functional Testing

Functional testing will be performed by SQA to test the code modifications. This testing will ensure that the software functionality is in alignment with the Government Furnished Information. SQA will record Passed/Failed outcomes and capture displayed content to document the functional testing effort.

### Regression Testing

Regression testing will be performed by SQA to ensure that the remediated code does not introduce errors to existing functionality. The regression test framework will be kept up-to-date with manual test cases and test scripts defining the inputs and expected outcomes. SQA will record Passed/Failed outcomes and capture displayed content to document the regression testing effort.

### Section 508 Compliance Testing

Section 508 testing will be performed on VistA and CPRS code when new user interface changes are introduced by the developer. The VA-recommended Assistive Technology tool, JAWS, will be used to conduct the 508 testing. Test results and related documentation will be submitted to the VA Section 508 team in accordance with the VA 508 testing requirements. Defects found during testing will be assessed and remediated by the developer.

# Documentation Remediation

Leidos will review existing VA documentation for possible impact as a result of this remediation effort, and will make updates where applicable.

To determine the existing VA documentation that requires modification, Leidos will conduct a thorough review of the documents currently available from the VA Software Document Library (VDL) located at <https://www.va.gov/vdl/>. Keyword searches using terms relevant to this remediation effort will be used to identify documents that might be impacted; those documents will then be reviewed in their entirety for any needed revisions.

The following sections outline the VDL documents to be revised for this remediation.

## User Guides

The following User Guide will be updated in the VDL:

* *VistA Inpatient Medications Pharmacist’s User Manual*
* *VistA Inpatient Medications Nurse’s User Manual*
* *VistA Inpatient Medications Supervisor’s User Manual*

## Installation Guides

The *National Patch Module Patch Description* document for this remediation will provide the procedure for installing the KIDS build or host file into the VA Pre-Production environments. Therefore, no Installation Guides will be updated.

## Technical Manuals

The following Technical Manual will be updated in the VDL:

* *VistA Inpatient Medications Technical Manual/Security Guide*

## Operations Manuals

No Operations Manuals require revision as a result of this modification.

# Project Reporting

Leidos will provide interim progress updates during daily Scrum calls and weekly management calls with VA representatives.

# Project Schedule

Leidos will follow the Scrum Agile methodology for software development. It is anticipated that this patch will require five 2-week sprints.

# Deployment

Leidos will create a KIDS build or host file containing the software changes necessary to fulfill the requirements for this remediation effort. The new build or host file, along with all related documentation, will be delivered to the Contracting Office Representative (COR) for acceptance. If accepted, these deliverables can then be released for national VA consumption; otherwise, Leidos will correct any defects found and repeat the necessary remediation activities.

# Sustainment Requirements

Leidos will provide maintenance support for 90 days to the VA to support the final Class 1 product after it is nationally released.

# Maintenance and Knowledge Transfer

To facilitate continuous process improvement, Leidos will deliver *Sprint Review and Retrospective* slides and a *Lessons Learned* *Report* to VA upon completion of the final sprint.

XINDEX Listing for MUMPS Code Changes

The XINDEX tool is the standard tool used by the VA to analyze MUMPS source code. Following is a listing of the results of the XINDEX analysis of the affected routines.

V. A. C R O S S R E F E R E N C E R 7.3

[2008 VA Standards & Conventions]

UCI: VISTA CPU: ROU Feb 01, 2019@10:11:41

The BUILD file Data Dictionaries are being processed.

57.5 WARD GROUP

The option and function files are being processed.

Routines are being processed.

Routines: 4 Faux Routines: 1

PSGFILD3 PSGFILED PSGTAP PSGTAP0

Data Dictionaries

|dd57.5

--- CROSS REFERENCING ---

Compiled list of Errors and Warnings Feb 01, 2019@10:11:41 page 1

PSGTAP0 \* \* 55 Lines, 3151 Bytes, Checksum: B14942839

W $C(48) F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S1 I X=48 Q

S1+1 I - Star or pound READ used.

W A F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S1 I X=48 Q

S1+3 I - Star or pound READ used.

W $C(48),! F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S3 I X=48 Q

S3+1 I - Star or pound READ used.

W A,! F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S3 I X=48 Q

S3+3 I - Star or pound READ used.

--- END ---

Note: Any errors listed are existing VistA errors and not a product of this effort.

Source Code Changes

This appendix displays the VistA code before and after the updates required for this code modification were implemented. The following routines were affected:

**Modified MUMPS routines:** PSGTAP, PSGTAP0, PSGFILD3, PSGFILED

**New MUMPS routines:** None

**PSGTAP**

**Before:**

PSGTAP ;BIR/CML3-SEND PICK LIST TO TRAVENOL'S ATC 212 (DRIVER) ; 05 May 98 / 1

0:25 AM

;;5.0; INPATIENT MEDICATIONS ;\*\*10\*\*;16 DEC 97

;

EN ;

D ENCV^PSGSETU I $D(XQUIT) Q

;

ASK ;

R !!,"Select WARD GROUP or PICK LIST: ",X:DTIME W:'$T $C(7) S:'$T X="^"

G:"^"[X OUT I X=+X D NL G:'$D(X) ASK I Y D EN1 G ASK

I X?1."?" W !!?2,"Select a Ward Group for which a pick list has been ru

n that you wish to send",!,"to the ATC.",!?2,"You may also directly select a Pic

k List by number, which prints in the upper",!,"left corner of each pick list."

G ASK

K DIC S DIC="^PS(57.5,",DIC(0)="EIMQZ",DIC("S")="I $P(^(0),""^"",2)=""P

""" D ^DIC K DIC I Y S PSGPLWG=+Y,PSGPLGF="A" D AD I $D(X) F D ^PSGPLG Q:'PSGPL

G D EN1 Q:OK

G ASK

;

OUT ;

D ENKV^PSGSETU K A,BLKS,C,D,DAT,DIC,G,I1,I2,ND,O,P,PID,PL,PN,PND,PSGIOP

,PSGPLG,PSGPLGF,PSGPLWG,PSGPLWGN,PSGSPD,Q,QUIT,R,S,ST,T,TM,W

Q

;

EN1 ;

S OK=0 I '$$LOCK^PSGPLUTL(PSGPLG,"PSGTAP") W $C(7),!!,"This PICK LIST i

s currently being accessed by another task." Q

I $P($G(^PS(53.5,PSGPLG,0)),"^",12) S PSGID=$P(^(0),"^",12),PSGOD=$$END

TC^PSGMI(PSGID) D I Y<1 D EN2 Q

.W !! S DIR(0)="Y^A",DIR("A")="Pick List #"\_PSGPLG\_" was queued to the

ATC for "\_PSGOD\_". Send again",DIR("B")="N" D ^DIR K DIR

S X=$G(^PS(53.5,PSGPLG,0)),Y=$O(^(0))="",X=$P(X,"^",11)&'$P(X,"^",9),%=

1

I X!Y W $C(7) F W !!,"THIS PICK LIST HAS NO",$S(Y:" DATA.",1:"T RUN TO

COMPLETION."),!,"Do you wish to continue" S %=2 D YN^DICN G:% EN2 W !!?2,"Enter

'YES' to send this pick list to the ATC. Enter 'NO' (or '^') to not",!,"send i

t."

G:%'=1 EN2 K %ZIS S %ZIS="NQ",PSGION=ION,IOP="`"\_PSGIOP\_";255" D ^%ZIS

I POP S IOP=PSGION D ^%ZIS K IOP W $C(7),!!?10,"THE ATC MACHINE IS NOT FOUND!" G

EN2

S PSGTAPR=0 I $D(^PS(53.55,PSGPLG,0)),$P(^(0),"^",2),$O(^(1,0)) F W !!

,"This pick list had been previously started, but did not run to completion.",!,

"Do you want to restart it where it left off" S %=0 D YN^DICN I 1 Q:% D

.W !!?2,"Enter 'YES' to restart the pick list from where it previously

stopped. Enter",!,"'NO' to start this pick list from the beginning." W:%Y'?1."?

" " (A response is required.)"

I G:%<0 EN2 S PSGTAPR=%=1

S X=0,X=$O(^PS(59.7,X)),PSGTIR=$S($P($G(^(X,26)),"^",2)=1:"ENQ^PSGTAP1"

,1:"ENQ^PSGTAP0")

K PSGTID,ZTSAVE S ZTDESC="PICK LIST TO ATC",(ZTSAVE("PSGPLG"),ZTSAVE("P

SGSPD"),ZTSAVE("PSGTAPR"),ZTSAVE("PSGPLWG"))="" D ENTSK^PSGTI

I $D(ZTSK) W "...SENT!" S OK=1 I $D(ZTSK("D"))#2 S %H=ZTSK("D") D YMD^%

DTC S $P(^PS(53.5,PSGPLG,0),"^",12)=X+%

;

EN2 ;

I $D(PSGPLG) D UNLOCK^PSGPLUTL(PSGPLG,"PSGTAP")

Q

;

NL ; numeric look-up

S Y=$G(^PS(53.5,X,0)) I $S('Y:1,'$P(Y,"^",2):1,1:'$D(^PS(53.5,"AB",$P(Y

,"^",2),+$P(Y,"^",3),X))) S Y=0 Q

S PSGPLG=X,X=^PS(53.5,PSGPLG,0),Y=$$ENDTC^PSGMI($P(X,"^",3)),PSGPLWG=$P

(X,"^",2),PSGPLWGN=$S('$D(^PS(57.5,PSGPLWG,0)):PSGPLWG\_";PS(57.5,",$P(^(0),"^")]

"":$P(^(0),"^"),1:PSGPLWG\_";PS(57.5,"),PSGOD=$$ENDTC^PSGMI($P(X,"^",4))

W !?5,"Ward Group: ",PSGPLWGN,!?5,Y," thru ",PSGOD

;

AD ; ATC device

S X=$G(^PS(57.5,PSGPLWG,3)) I $P(X,"^",3)="" W $C(7),!!?3,"THIS WARD GR

OUP DOES NOT HAVE AN ATC DEVICE DESIGNATED FOR IT." K X

S:$D(X) PSGIOP=$P(X,"^",3),PSGSPD=$P(X,"^",2),Y=1 Q

**After:**

PSGTAP ;BIR/CML3-SEND PICK LIST TO TRAVENOL'S ATC 212 (DRIVER) ; 15 Jan 2019

12:47 PM

;;5.0;INPATIENT MEDICATIONS;\*\*10,363\*\*;16 DEC 97

;

EN ;

D ENCV^PSGSETU I $D(XQUIT) Q

;

ASK ;

R !!,"Select WARD GROUP or PICK LIST: ",X:DTIME W:'$T $C(7) S:'$T X="^"

G:"^"[X OUT I X=+X D NL G:'$D(X) ASK I Y D EN1 G ASK

I X?1."?" W !!?2,"Select a Ward Group for which a pick list has been ru

n that you wish to send",!,"to the ATC.",!?2,"You may also directly select a Pic

k List by number, which prints in the upper",!,"left corner of each pick list."

G ASK

K DIC S DIC="^PS(57.5,",DIC(0)="EIMQZ",DIC("S")="I $P(^(0),""^"",2)=""P

""" D ^DIC K DIC I Y S PSGPLWG=+Y,PSGPLGF="A" D AD I $D(X) F D ^PSGPLG Q:'PSGPL

G D EN1 Q:OK

G ASK

;

OUT ;

D ENKV^PSGSETU K A,BLKS,C,D,DAT,DIC,G,I1,I2,ND,O,P,PID,PL,PN,PND,PSGIOP

,PSGPLG,PSGPLGF,PSGPLWG,PSGPLWGN,PSGSPD,Q,QUIT,R,S,ST,T,TM,W

Q

;

EN1 ;

S OK=0 I '$$LOCK^PSGPLUTL(PSGPLG,"PSGTAP") W $C(7),!!,"This PICK LIST i

s currently being accessed by another task." Q

I $P($G(^PS(53.5,PSGPLG,0)),"^",12) S PSGID=$P(^(0),"^",12),PSGOD=$$END

TC^PSGMI(PSGID) D I Y<1 D EN2 Q

.W !! S DIR(0)="Y^A",DIR("A")="Pick List #"\_PSGPLG\_" was queued to the

ATC for "\_PSGOD\_". Send again",DIR("B")="N" D ^DIR K DIR

S X=$G(^PS(53.5,PSGPLG,0)),Y=$O(^(0))="",X=$P(X,"^",11)&'$P(X,"^",9),%=

1

I X!Y W $C(7) F W !!,"THIS PICK LIST HAS NO",$S(Y:" DATA.",1:"T RUN TO

COMPLETION."),!,"Do you wish to continue" S %=2 D YN^DICN G:% EN2 W !!?2,"Enter

'YES' to send this pick list to the ATC. Enter 'NO' (or '^') to not",!,"send i

t."

G:%'=1 EN2 K %ZIS S %ZIS="NQ",PSGION=ION,IOP="`"\_PSGIOP\_";255" D ^%ZIS

I POP S IOP=PSGION D ^%ZIS K IOP W $C(7),!!?10,"THE ATC MACHINE IS NOT FOUND!" G

EN2

S PSGTAPR=0 I $D(^PS(53.55,PSGPLG,0)),$P(^(0),"^",2),$O(^(1,0)) F W !!

,"This pick list had been previously started, but did not run to completion.",!,

"Do you want to restart it where it left off" S %=0 D YN^DICN I 1 Q:% D

.W !!?2,"Enter 'YES' to restart the pick list from where it previously

stopped. Enter",!,"'NO' to start this pick list from the beginning." W:%Y'?1."?

" " (A response is required.)"

I G:%<0 EN2 S PSGTAPR=%=1

S PSGTIR=$S($$GET1^DIQ(57.5,PSGPLWG\_",",5.08,"I")="M":"ENQ^PSGTAP0",$$G

ET1^DIQ(57.5,PSGPLWG\_",",5.08,"I")="T":"ENQ^PSGTAP1",1:"")

I $G(PSGTIR)']"" S X=0,X=$O(^PS(59.7,X)),PSGTIR=$S($P($G(^(X,26)),"^",2

)=1:"ENQ^PSGTAP1",1:"ENQ^PSGTAP0")

K PSGTID,ZTSAVE S ZTDESC="PICK LIST TO ATC",(ZTSAVE("PSGPLG"),ZTSAVE("P

SGSPD"),ZTSAVE("PSGTAPR"),ZTSAVE("PSGPLWG"))="" D ENTSK^PSGTI

I $D(ZTSK) W "...SENT!" S OK=1 I $D(ZTSK("D"))#2 S %H=ZTSK("D") D YMD^%

DTC S $P(^PS(53.5,PSGPLG,0),"^",12)=X+%

;

EN2 ;

I $D(PSGPLG) D UNLOCK^PSGPLUTL(PSGPLG,"PSGTAP")

Q

;

NL ; numeric look-up

S Y=$G(^PS(53.5,X,0)) I $S('Y:1,'$P(Y,"^",2):1,1:'$D(^PS(53.5,"AB",$P(Y

,"^",2),+$P(Y,"^",3),X))) S Y=0 Q

S PSGPLG=X,X=^PS(53.5,PSGPLG,0),Y=$$ENDTC^PSGMI($P(X,"^",3)),PSGPLWG=$P

(X,"^",2),PSGPLWGN=$S('$D(^PS(57.5,PSGPLWG,0)):PSGPLWG\_";PS(57.5,",$P(^(0),"^")]

"":$P(^(0),"^"),1:PSGPLWG\_";PS(57.5,"),PSGOD=$$ENDTC^PSGMI($P(X,"^",4))

W !?5,"Ward Group: ",PSGPLWGN,!?5,Y," thru ",PSGOD

;

AD ; ATC device

S X=$G(^PS(57.5,PSGPLWG,3)) I $P(X,"^",3)="" W $C(7),!!?3,"THIS WARD GR

OUP DOES NOT HAVE AN ATC DEVICE DESIGNATED FOR IT." K X

S:$D(X) PSGIOP=$P(X,"^",3),PSGSPD=$P(X,"^",2),Y=1 Q

HELP N S S S=$$GET1^DIQ(59.7,1,26.2) W !," System Default ATC Sort Paramete

r is: ",S

Q

**PSGTAP0**

**Before:**

PSGTAP0 ;BIR/CML3-SEND PICK LIST TO TRAVENOL'S ATC 212 ;18 APR 95 / 4:21 PM

;;5.0;INPATIENT MEDICATIONS;\*\*119,284\*\*;16 DEC 97;Build 7

;

S1 ;

W $C(48) F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S1 I X=48 Q

E S QUIT=1 Q

W A F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S1 I X=48 Q

S:'$T QUIT=1 Q

;

S2 ;

W $C(48) F Q=1:1:75 R X:$S(Q<15:1,1:5) G:$A(X)=49 S2 I $A(X)=48 Q

E S QUIT=1 Q

W A F Q=1:1:75 R X:$S(Q<15:1,1:5) G:$A(X)=49 S2 I $A(X)=48 Q

S:'$T QUIT=1 Q

Q

;

S3 ; \*284 - Added ! to clear WR buffer for network channel

W $C(48),! F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S3 I X=48 Q

E S QUIT=1 Q

W A,! F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S3 I X=48 Q

S:'$T QUIT=1 Q

ENQ ;

N ATCFF,DNUNIT,PSGTAG

F Q:$$LOCK^PSGPLUTL(PSGPLG,"PSGTAP")

F L +^PS(53.55,PSGPLG):1 Q:$T

D NOW^%DTC S %=%\_"0000000000000",DAT=$E(%,4,5)\_$E(%,6,7)\_$E(%,2,3)\_$E(%

,9,10)\_$E(%,11,12) I PSGPLG<0 S QUIT=0 G QUIT

I PSGTAPR S ND=$P($G(^PS(53.55,PSGPLG,0)),"^",2) I ND,$O(^(1,0)) G REST

ART

I $D(^PS(53.55,PSGPLG)) S DIK="^PS(53.55,",DA=PSGPLG D ^DIK

S (DINUM,X)=PSGPLG,DIC="^PS(53.55,",DIC(0)="L" K DD,DO D FILE^DICN I Y'

>0 S QUIT=0 G QUIT

S ^PS(53.55,PSGPLG,1,0)="^53.56A",BLKS=" ",G=PSGPL

G,(DD,PSGORD,PSJJORD,ND,P,R,S,T,W,O,D)=""

S ATCFF=+$P($G(^PS(59.7,1,26)),"^",7)

F S T=$O(^PS(53.5,"AC",G,T)) Q:T="" F S W=$O(^PS(53.5,"AC",G,T,W)) Q

:W="" F S R=$O(^PS(53.5,"AC",G,T,W,R)) Q:R="" F S P=$O(^PS(53.5,"AC",G,T,W,R

,P)) Q:P="" D ;

.S (DFN,PSGP)=+$P(P,"^",2) D PID^VADPT S PND=$S($D(^DPT(PSGP,0)):^(0),1

:0),PL=$E($S($D(^(.1)):^(.1),1:"N/F")\_BLKS,1,12),PN=$E($P(PND,"^")\_BLKS,1,20),PI

D=$E(VA("PID")\_BLKS,1,12),S="A"

.F S S=$O(^PS(53.5,"AC",G,T,W,R,P,S)) Q:"Z"[S F S PSGORD=$O(^PS(53.5

,"AC",G,T,W,R,P,S,PSGORD)) Q:PSGORD="" S O=$P(PSGORD,"^",2) D

..S ON=+$G(^PS(53.5,G,1,PSGP,1,O,0)) F S DD=$O(^PS(53.5,"AC",G,T,W,R,P

,S,PSGORD,DD)) Q:DD="" S D=+$P(DD,"^",2),C=$G(^PS(53.5,G,1,PSGP,1,O,1,D,0)),D=$

P(C,"^"),C=$S($P(C,"^",3)]"":+$P(C,"^",3),1:$P(C,"^",2)) I C>0,C?1.3N D ;

...S DN=$G(^PS(55,PSGP,5,ON,1,D,0))

...S DNUNIT=$P(DN,"^",2) I DNUNIT#1,ATCFF,+DNUNIT S DNUNIT=(DNUNIT\1)+1

...I DN,'(DNUNIT#1),$S('$P(DN,"^",3):1,1:DT<$P(DN,"^",3)) S A=$P($G(^PS

DRUG(+DN,8.5)),"^",2) I A]"",$D(^(212,"AC",PSGPLWG)) D

....S A=$E(A\_BLKS,1,15) I C>99 F ND=ND+1:1 S ^PS(53.55,PSGPLG,1,ND,0)=P

N\_PID\_PL\_"BAT"\_A\_"1 ^099",C=C-99 Q:C<100

....Q:C<1 S:$L(C)<3 C=$E("000",1,3-$L(C))\_C S ND=ND+1,^PS(53.55,PSGPLG

,1,ND,0)=PN\_PID\_PL\_"BAT"\_A\_"1 ^"\_C Q

S QUIT=$O(^PS(53.55,PSGPLG,1,0)) G:'QUIT QUIT S ^(0)="^53.56A^"\_ND\_"^"\_

ND,ND=0

;

RESTART ;

X ^%ZOSF("LABOFF") S QUIT=0

F S ND=$O(^PS(53.55,PSGPLG,1,ND)) Q:'ND S A=$G(^(ND,0)) I A]"" S A=$C

(50)\_$C(52)\_$P(A,"^")\_$C(53)\_$C(54)\_$P(A,"^",2)\_DAT\_$C(55)\_$C(13) S PSGTAG=$S(IO

T="CHAN":"S3",'PSGSPD:"S1",1:"S2") D @PSGTAG Q:QUIT S $P(^PS(53.55,PSGPLG,0),"^

",2)=ND

;

QUIT ;

I 'QUIT S DIK="^PS(53.55,",DA=PSGPLG D ^DIK

L -^PS(53.55,PSGPLG)

D UNLOCK^PSGPLUTL(PSGPLG,"PSGTAP") D ^%ZISC Q

**After:**

PSGTAP0 ;BIR/CML3-SEND PICK LIST TO TRAVENOL'S ATC 212 ; 07 Nov 2018 9:34 AM

;;5.0;INPATIENT MEDICATIONS;\*\*119,284,363\*\*;16 DEC 97;Build 7

;

S1 ;

W $C(48) F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S1 I X=48 Q

E S QUIT=1 Q

W A F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S1 I X=48 Q

S:'$T QUIT=1 Q

;

S2 ;

W $C(48) F Q=1:1:75 R X:$S(Q<15:1,1:5) G:$A(X)=49 S2 I $A(X)=48 Q

E S QUIT=1 Q

W A F Q=1:1:75 R X:$S(Q<15:1,1:5) G:$A(X)=49 S2 I $A(X)=48 Q

S:'$T QUIT=1 Q

Q

;

S3 ; \*284 - Added ! to clear WR buffer for network channel

W $C(48),! F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S3 I X=48 Q

E S QUIT=1 Q

W A,! F Q=1:1:75 R \*X:$S(Q<15:1,1:5) G:X=49 S3 I X=48 Q

S:'$T QUIT=1 Q

ENQ ;

N ATCFF,DNUNIT,PSGTAG

F Q:$$LOCK^PSGPLUTL(PSGPLG,"PSGTAP")

F L +^PS(53.55,PSGPLG):1 Q:$T

D NOW^%DTC S %=%\_"0000000000000",DAT=$E(%,4,5)\_$E(%,6,7)\_$E(%,2,3)\_$E(%

,9,10)\_$E(%,11,12) I PSGPLG<0 S QUIT=0 G QUIT

I PSGTAPR S ND=$P($G(^PS(53.55,PSGPLG,0)),"^",2) I ND,$O(^(1,0)) G REST

ART

I $D(^PS(53.55,PSGPLG)) S DIK="^PS(53.55,",DA=PSGPLG D ^DIK

S (DINUM,X)=PSGPLG,DIC="^PS(53.55,",DIC(0)="L" K DD,DO D FILE^DICN I Y'

>0 S QUIT=0 G QUIT

S ^PS(53.55,PSGPLG,1,0)="^53.56A",BLKS=" ",G=PSGPL

G,(DD,PSGORD,PSJJORD,ND,P,R,S,T,W,O,D)=""

S ATCFF=+$P($G(^PS(59.7,1,26)),"^",7)

F S T=$O(^PS(53.5,"AC",G,T)) Q:T="" F S W=$O(^PS(53.5,"AC",G,T,W)) Q

:W="" F S R=$O(^PS(53.5,"AC",G,T,W,R)) Q:R="" F S P=$O(^PS(53.5,"AC",G,T,W,R

,P)) Q:P="" D ;

. S (DFN,PSGP)=+$P(P,"^",2) D PID^VADPT,DEM^VADPT S PND=$S($D(^DPT(PSG

P,0)):^(0),1:0),PL=$E($$LOCAL(DFN)\_BLKS,1,12),PN=$E($P(PND,"^")\_BLKS,1,20),PID=$

E(VADM(1),1)\_$E(VA("BID")\_BLKS,1,12),S="A"

.F S S=$O(^PS(53.5,"AC",G,T,W,R,P,S)) Q:"Z"[S F S PSGORD=$O(^PS(53.5

,"AC",G,T,W,R,P,S,PSGORD)) Q:PSGORD="" S O=$P(PSGORD,"^",2) D

..S ON=+$G(^PS(53.5,G,1,PSGP,1,O,0)) F S DD=$O(^PS(53.5,"AC",G,T,W,R,P

,S,PSGORD,DD)) Q:DD="" S D=+$P(DD,"^",2),C=$G(^PS(53.5,G,1,PSGP,1,O,1,D,0)),D=$

P(C,"^"),C=$S($P(C,"^",3)]"":+$P(C,"^",3),1:$P(C,"^",2)) I C>0,C?1.3N D ;

...S DN=$G(^PS(55,PSGP,5,ON,1,D,0))

...S DNUNIT=$P(DN,"^",2) I DNUNIT#1,ATCFF,+DNUNIT S DNUNIT=(DNUNIT\1)+1

...I DN,'(DNUNIT#1),$S('$P(DN,"^",3):1,1:DT<$P(DN,"^",3)) S A=$P($G(^PS

DRUG(+DN,8.5)),"^",2) I A]"",$D(^(212,"AC",PSGPLWG)) D

....S A=$E(A\_BLKS,1,15) I C>99 F ND=ND+1:1 S ^PS(53.55,PSGPLG,1,ND,0)=P

N\_PID\_PL\_"BAT"\_A\_"1 ^099",C=C-99 Q:C<100

....Q:C<1 S:$L(C)<3 C=$E("000",1,3-$L(C))\_C S ND=ND+1,^PS(53.55,PSGPLG

,1,ND,0)=PN\_PID\_PL\_"BAT"\_A\_"1 ^"\_C Q

S QUIT=$O(^PS(53.55,PSGPLG,1,0)) G:'QUIT QUIT S ^(0)="^53.56A^"\_ND\_"^"\_

ND,ND=0

;

RESTART ;

X ^%ZOSF("LABOFF") S QUIT=0

F S ND=$O(^PS(53.55,PSGPLG,1,ND)) Q:'ND S A=$G(^(ND,0)) I A]"" S A=$C

(50)\_$C(52)\_$P(A,"^")\_$C(53)\_$C(54)\_$P(A,"^",2)\_DAT\_$C(55)\_$C(13) S PSGTAG=$S(IO

T="CHAN":"S3",'PSGSPD:"S1",1:"S2") D @PSGTAG Q:QUIT S $P(^PS(53.55,PSGPLG,0),"^

",2)=ND

;

QUIT ;

I 'QUIT S DIK="^PS(53.55,",DA=PSGPLG D ^DIK

L -^PS(53.55,PSGPLG)

D UNLOCK^PSGPLUTL(PSGPLG,"PSGTAP") D ^%ZISC Q

LOCAL(DFN) ; change room/bed PSJ\*5.0\*363

S JJR=$E($TR($P($G(^DPT(DFN,.1)),U)," "),1,6)

S JJR=JJR\_$P($P($G(^DPT(DFN,.101)),U),"-",1,2)

Q JJR

;

**PSGFILD3**

**Before:**

PSGFILD3 ;BIR/CML3-RETURN OF VARIOUS FILES' UPKEEP ;12 DEC 97 / 10:53 AM

;;5.0;INPATIENT MEDICATIONS ;\*\*279\*\*;16 DEC 97;Build 150

; ;

;\*279 - add fields #4, #5 to Clinic Def file maint (missing dose device

and pre-exchange device)

;

ENRBLU ;

S Y=DA(2) N DA,DIC,DIE,DIX,DO,DR

S DIC="^DG(405.4,",DIC(0)="EIMZ",DIC("S")="I $D(^(""W"",""B"","\_Y\_"))"

D DO^DIC1,^DIC I Y'>0 K X Q

I $D(^PS(57.7,"AWRT",D0,X)) D EN^DDIOL("THIS ROOM-BED ALREADY ASSIGNED

TO TEAM FOR THIS WARD!") K X Q

S X=Y(0,0) Q

;

ENRBQ ;

S X=DZ,Y=DA(1) N D,DA,DIC,DIE,DO,DR,DZ,XQH

S DIC="^DG(405.4,",DIC(0)="EIMQ",DIC("S")="I $D(^(""W"",""B"","\_Y\_"))"

D DO^DIC1,^DIC Q

;

ENATC ;

K DIR S DIR(0)="SAO^O:ONE ATC;M:MULTIPLE ATCS",DIR("A",1)="Do you want

to set up your drugs for",DIR("A")="(O)ne ATC or (M)ultiple ATCs? ",DIR("B")="ON

E ATC",DIR("?")="^D ATCH^PSGFILD3" D ^DIR

S ATC=$S($D(DIROUT):1,$D(DIRUT):1,$D(DTOUT):1,$D(DTOUT):1,Y="":1,1:Y) I

ATC="O" K PSGW S PSGW=0 F Q=0:0 S Q=$O(^PS(57.5,Q)) Q:'Q I $D(^(Q,0)),$P(^(0),

"^",2)="P" S PSGW=PSGW+1,PSGW(Q)=""

I 'ATC,$S(ATC="O":'PSGW,1:'$D(^PS(57.5,"AP"))) W $C(7),!!?3,"NOTE: No P

HARMACY ward groups are found. You will not be able to enter",!?9,"canister num

bers for selected drugs.",!

I 'ATC F FQ=0:0 W ! S DIC="^PSDRUG(",DIC(0)="QEAM",DIC("S")="I $D(^(2))

,$P(^(2),""^"",3)[""U""" D ^DIC K DIC Q:Y'>0 D ATCED

K ATC,ATCN,DA,DIC,DIE,DIR,DIROUT,DIRUT,DTOUT,DUOUT,DLAYGO,DR,FQ,PSGW,X,

Y Q

;

ATCED ;

K DA,DR S DIE="^PSDRUG(",DA=+Y,DR=212.2 I ATC="M",$D(^PS(57.5,"AP")) S

DR=DR\_";212",DR(2,50.0212)="1"

D ^DIE Q:$S($D(Y):1,ATC="M":1,1:'PSGW) K DIR S DIR(0)="50.0212,1" D ^D

IR Q:'Y S ATCN=+Y,DA(1)=DA W !,"...working..." S:'$D(^PSDRUG(DA,212,0)) ^(0)="^

50.0212P" F FQ=0:0 S FQ=$O(PSGW(FQ)) Q:'FQ D ATCCNS

Q

;

ATCCNS ;

W "." S DA=$O(^PSDRUG(DA(1),212,"B",FQ,0)) I DA,$D(^PSDRUG(DA(1),212,DA

,0)) Q:$P(^(0),"^",2)=ATCN S DIE="^PSDRUG("\_DA(1)\_",212,",DR="1////"\_ATCN D ^DI

E Q

K DD,DO S DIC="^PSDRUG("\_DA(1)\_",212,",DIC(0)="L",DIC("DR")="1////"\_ATC

N,DLAYGO=50.0212,X=FQ D FILE^DICN Q

;

ATCH ;

W !!?2,"Enter 'M' to set up your drugs for use with multiple ATC Dispen

sing machines,",!,"for which you will have to enter a canister number for each w

ard group. Enter",!,"'O' to set up your drugs for use with one ATC Dispensing m

achine"

W ", for which",!,"the ward groups will be automatically set up for eac

h canister number.",!,"CHOOSE FROM:",!?5,"O - ONE ATC",!?5,"M - MULTIPLE ATCS" Q

;

ENIU ; mark/unmark drugs for Unit Dose use

K DIR S DIR(0)="SAO^M:MARK FOR UNIT DOSE;U:UNMARK FOR UNIT DOSE",DIR("A

")="Do you want to (M)ARK or (U)NMARK items for Unit Dose? ",DIR("B")="UNMARK",D

IR("?")="^D ENIUH^PSGFILD3"

W ! D ^DIR K DIR,DIROUT,DIRUT,DTOUT,DUOUT I Y'="U",Y'="M" K X,Y Q

S PSGY=Y,PSGS="I $P($G(^(2)),""^"",3)"\_$E("'",PSGY="M")\_"[""U""",PSIUX=

"U" K DIC

F S DIC="^PSDRUG(",DIC(0)="QEAM",DIC("A")="Select DRUG: ",DIC("S")=PSG

S W ! D ^DIC K DIC Q:Y'>0 S PSIUDA=+Y D:PSGY="U" END^PSGIU D:PSGY="M" ENS^PSGIU

W "..." W:PSGY="U" "UN" W "MARKED..."

K FQ,PSIUDA,PSIUX,PSGS,PSGY Q

;

ENIUH ;

W !!?2,"Enter 'M' to mark items for use by the Unit Dose Medications pa

ckage. (You",!,"will only be shown items that have not been marked for Unit Dos

e.)",!?2,"Enter 'U' to unmark items that have previously been marked for use wit

h Unit"

W !,"Dose. (You will be shown only items that have already been marked

for Unit",!,"Dose.)",!!,"Choose from:",!?3,"M MARK ITEMS FOR UNIT DOSE",!?3,"U

UNMARK ITEMS FOR UNIT DOSE" Q

;

ENCD ;edit Clinic Definitions file

N CLINICS,CLINFLG S CLINICS=""

F K DIC S DIC="^PS(53.46,",DIC(0)="AELMQ",DIC("A")="Select CLINIC: ",D

LAYGO=53.46 D ^DIC K DIC Q:Y<0 D

. S DIE="^PS(53.46,",DA=+Y,CLINICS(DA)="",DR="1;2;3;4;5;6" D ^DIE K DIE

,DA,DR Q

I ($T(IMO^PSJIMO1)]"") D IMO^PSJIMO1(.CLINICS)

Q R

**After:**

PSGFILD3 ;BIR/CML3-RETURN OF VARIOUS FILES' UPKEEP ; 26 Dec 2018 12:39 PM

;;5.0;INPATIENT MEDICATIONS ;\*\*279,363\*\*;16 DEC 97;Build 150

; ;

;\*279 - add fields #4, #5 to Clinic Def file maint (missing dose device

and pre-exchange device)

;

ENRBLU ;

S Y=DA(2) N DA,DIC,DIE,DIX,DO,DR

S DIC="^DG(405.4,",DIC(0)="EIMZ",DIC("S")="I $D(^(""W"",""B"","\_Y\_"))"

D DO^DIC1,^DIC I Y'>0 K X Q

I $D(^PS(57.7,"AWRT",D0,X)) D EN^DDIOL("THIS ROOM-BED ALREADY ASSIGNED

TO TEAM FOR THIS WARD!") K X Q

S X=Y(0,0) Q

;

ENRBQ ;

S X=DZ,Y=DA(1) N D,DA,DIC,DIE,DO,DR,DZ,XQH

S DIC="^DG(405.4,",DIC(0)="EIMQ",DIC("S")="I $D(^(""W"",""B"","\_Y\_"))"

D DO^DIC1,^DIC Q

;

ENATC ;

N PSSATC,PSSPRMPT

S PSSATC=$$GET^XPAR("SYS","PSG ATC SETUP PROMPT") S:PSSATC']"" PSSATC=$

$GET1^DIQ(59.7,1,40.17,"E") ; PSJ\*5.0\*363

S PSSPRMPT=$S(+PSSATC=0:"O",1:"M")

K DIR S DIR(0)="SAO^O:ONE ATC;M:MULTIPLE ATCS",DIR("A",1)="Do you want

to set up your drugs for",DIR("A")="(O)ne ATC or (M)ultiple ATCs? ",DIR("B")=PSSPRMPT,

DIR("?")="^D ATCH^PSGFILD3" D ^DIR

S ATC=$S($D(DIROUT):1,$D(DIRUT):1,$D(DTOUT):1,$D(DTOUT):1,Y="":1,1:Y) I

ATC="O" K PSGW S PSGW=0 F Q=0:0 S Q=$O(^PS(57.5,Q)) Q:'Q I $D(^(Q,0)),$P(^(0),

"^",2)="P" S PSGW=PSGW+1,PSGW(Q)=""

I 'ATC,$S(ATC="O":'PSGW,1:'$D(^PS(57.5,"AP"))) W $C(7),!!?3,"NOTE: No P

HARMACY ward groups are found. You will not be able to enter",!?9,"canister num

bers for selected drugs.",!

I 'ATC F FQ=0:0 W ! S DIC="^PSDRUG(",DIC(0)="QEAM",DIC("S")="I $D(^(2))

,$P(^(2),""^"",3)[""U""" D ^DIC K DIC Q:Y'>0 D ATCED

K ATC,ATCN,DA,DIC,DIE,DIR,DIROUT,DIRUT,DTOUT,DUOUT,DLAYGO,DR,FQ,PSGW,X,

Y Q

;

ATCED ;

K DA,DR S DIE="^PSDRUG(",DA=+Y,DR=212.2 I ATC="M",$D(^PS(57.5,"AP")) S

DR=DR\_";212",DR(2,50.0212)="1"

D ^DIE Q:$S($D(Y):1,ATC="M":1,1:'PSGW) K DIR S DIR(0)="50.0212,1" D ^D

IR Q:'Y S ATCN=+Y,DA(1)=DA W !,"...working..." S:'$D(^PSDRUG(DA,212,0)) ^(0)="^

50.0212P" F FQ=0:0 S FQ=$O(PSGW(FQ)) Q:'FQ D ATCCNS

Q

;

ATCCNS ;

W "." S DA=$O(^PSDRUG(DA(1),212,"B",FQ,0)) I DA,$D(^PSDRUG(DA(1),212,DA

,0)) Q:$P(^(0),"^",2)=ATCN S DIE="^PSDRUG("\_DA(1)\_",212,",DR="1////"\_ATCN D ^DI

E Q

K DD,DO S DIC="^PSDRUG("\_DA(1)\_",212,",DIC(0)="L",DIC("DR")="1////"\_ATC

N,DLAYGO=50.0212,X=FQ D FILE^DICN Q

;

ATCH ;

W !!?2,"Enter 'M' to set up your drugs for use with multiple ATC Dispen

sing machines,",!,"for which you will have to enter a canister number for each w

ard group. Enter",!,"'O' to set up your drugs for use with one ATC Dispensing m

achine"

W ", for which",!,"the ward groups will be automatically set up for eac

h canister number.",!,"CHOOSE FROM:",!?5,"O - ONE ATC",!?5,"M - MULTIPLE ATCS" Q

;

ENIU ; mark/unmark drugs for Unit Dose use

K DIR S DIR(0)="SAO^M:MARK FOR UNIT DOSE;U:UNMARK FOR UNIT DOSE",DIR("A

")="Do you want to (M)ARK or (U)NMARK items for Unit Dose? ",DIR("B")="UNMARK",D

IR("?")="^D ENIUH^PSGFILD3"

W ! D ^DIR K DIR,DIROUT,DIRUT,DTOUT,DUOUT I Y'="U",Y'="M" K X,Y Q

S PSGY=Y,PSGS="I $P($G(^(2)),""^"",3)"\_$E("'",PSGY="M")\_"[""U""",PSIUX=

"U" K DIC

F S DIC="^PSDRUG(",DIC(0)="QEAM",DIC("A")="Select DRUG: ",DIC("S")=PSG

S W ! D ^DIC K DIC Q:Y'>0 S PSIUDA=+Y D:PSGY="U" END^PSGIU D:PSGY="M" ENS^PSGIU

W "..." W:PSGY="U" "UN" W "MARKED..."

K FQ,PSIUDA,PSIUX,PSGS,PSGY Q

;

ENIUH ;

W !!?2,"Enter 'M' to mark items for use by the Unit Dose Medications pa

ckage. (You",!,"will only be shown items that have not been marked for Unit Dos

e.)",!?2,"Enter 'U' to unmark items that have previously been marked for use wit

h Unit"

W !,"Dose. (You will be shown only items that have already been marked

for Unit",!,"Dose.)",!!,"Choose from:",!?3,"M MARK ITEMS FOR UNIT DOSE",!?3,"U

UNMARK ITEMS FOR UNIT DOSE" Q

;

ENCD ;edit Clinic Definitions file

N CLINICS,CLINFLG S CLINICS=""

F K DIC S DIC="^PS(53.46,",DIC(0)="AELMQ",DIC("A")="Select CLINIC: ",D

LAYGO=53.46 D ^DIC K DIC Q:Y<0 D

. S DIE="^PS(53.46,",DA=+Y,CLINICS(DA)="",DR="1;2;3;4;5;6" D ^DIE K DIE

,DA,DR Q

I ($T(IMO^PSJIMO1)]"") D IMO^PSJIMO1(.CLINICS)

Q

**PSGFILED**

**Before:**

PSGFILED ;BIR/CML3-VARIOUS FILES' UPKEEP ;16 Mar 99 / 10:22 AM

;;5.0;INPATIENT MEDICATIONS ;\*\*20,50,63,119,110,111,112,154,184,181,257

\*\*;16 DEC 97;Build 105

;

; Reference to ^PS(50.606 supported by DBIA# 2174.

; Reference to ^PSDRUG supported by DBIA# 2192.

; Reference to ^PS(59.7 is supported by DBIA# 2181.

; Reference to ^PS(51 is supported by DBIA# 2176.

; Reference to ^PS(51.2 is supported by DBIA# 2178.

; Reference to ^PS(55 is supported by DBIA# 2191.

;

DONE D ENKV^PSGSETU K D0,D1,D2,PSGRBS Q

;

GED ; generic edit

S DA=+Y,DR=".01;1" W ! D ^DIE Q

;

ENAT ; team file

F S DIC="^PS(57.7,",DIC(0)="QEAMIL",DLAYGO=57.7,DIC("A")="Select WARD:

" W ! D ^DIC K DIC,DLAYGO Q:Y'>0 S DA=+Y,DIE="^PS(57.7,",DR="[PSJUMATE]" D ^DI

E

G DONE

;

ENAS ; schedules file - no longer used

;

ENMR ; med route file

NEW MRNO,MR K DIE,DIC,DR,Y

F S DIC="^PS(51.2,",DIC(0)="QEAMIL",DLAYGO=51.2 W ! D ^DIC K DIC,DLAYG

O Q:+Y'>0 S MRNO=+Y,MR=$P(Y,U,2),DA=+Y,DIE="^PS(51.2,",DR=".01;1;3;4" D ^DIE D

DF

G DONE

;

ENWG ; ward group file

F S DIC="^PS(57.5,",DIC(0)="QEAMIL",DLAYGO=57.5 W ! D ^DIC K DA,DIC,DR

Q:+Y'>0 S DA=+Y,DIE="^PS(57.5,",DR="[PSJU WG]" D ^DIE

G DONE

;

ENMI ; medication instruction file

F S DIC="^PS(51,",DIC(0)="QEAMIL",DLAYGO=51 W ! D ^DIC K DIC Q:+Y'>0

S DIE="^PS(51,",DA=+Y,DR=".01;1;30" D ^DIE

G DONE

;

ENDRG ; standard drug fields

D NOW^%DTC S PSGDT=% F S DIC="^PSDRUG(",DIC(0)="AEIMOQ",DIC("A")="Sele

ct DISPENSE DRUG: " W ! D ^DIC K DIC Q:+Y'>0 D DE

K PSIUA,PSIUDA,PSIUX G DONE

;

DE ;

I $D(^PSDRUG(+Y,"I")),^("I"),^("I")<PSGDT W $C(7),$C(7),!!?3,"\*\*\* WARNI

NG, THIS DRUG IS INACTIVE. \*\*\*",!

W ! S DIE="^PSDRUG(",(DA,PSIUDA)=+Y,DR="[PSJ FILED]"

S PSIUX="U^UNIT DOSE PHARMACY^1" D ^PSGIU,^DIE:PSIUA'["^" K DA,DIE,DR Q

;

ENOSE ; order set enter/edit

K DIC F S DLAYGO=53.2,DIC="^PS(53.2,",DIC(0)="QEAML",DIC("A")="Select

ORDER SET: " W ! D ^DIC K DIC Q:Y'>0 S DA=+Y S DIE="^PS(53.2,",DR="[PSJUOSE]" D

^DIE K D0,D1,DA,DIE,DR,PSGNEDFD,PSGS0XT,PSGS0Y

G DONE

;

RBCHK ; used to validate room-bed

;No longer used.

;F Z0=0:0 S Z0=$O(^PS(57.7,DA(2),1,Z0)) Q:'Z0 I Z0'=DA(1),$D(^(Z0,1,"B

",X)) W !?19,X," is already under ",$S('$D(^PS(57.7,DA(2),1,Z0,0)):"another team

("\_Z0\_")!",$P(^(0),"^")]"":$P(^(0),"^")\_"!",1:"another team ("\_Z0\_")!") Q

;I 'Z0,$D(^DIC(42,DA(2),2,+$O(^DIC(42,DA(2),2,"B",$P(X,"-"),0)),1,"B",$

P(X,"-",2))) K Z0 Q

;K X,Z0 Q

;

RBQ ; show room-beds for a ward

;No longer used.

Q

;

RBNP W """^"" TO STOP: " R Z3:DTIME W:'$T $C(7) S:'$T Z3="^" W $C(13),"

",$C(13) Q

;

ENPPD ; edit pharmacy patient data

; W !!?3,"...This option is still under development...",! Q

;

ENCPDD ; edit patient's default stop date (wall)

D ENCV^PSGSETU I $D(XQUIT) Q

F D ENAO^PSGGAO Q:PSGP'>0 D

.S WDN=$P($G(^DPT(PSGP,.1)),"^") W:WDN="" !!?2,"The patient is not curr

ently on a ward."

.I WDN]"" S WD=$O(^DIC(42,"B",WDN,0)),WD=$O(^PS(59.6,"B",+WD,0)) I $S('

WD:1,1:'$P($G(^PS(59.6,WD,0)),"^",4)) S X="PLEASE NOTE: The 'SAME STOP DATE' par

ameter for the ward ("\_WDN\_") is not turned on. Any date entered here will be i

gnored "

.I S X=X\_"until the parameter is turned on for this ward." W $C(7),!!?

2 F Y=1:1:$L(X," ") S X(1)=$P(X," ",Y) W:$L(X(1))+$X>78 ! W X(1)," "

.S DA=PSGP,DR="62.01T",DIE="^PS(55," W !! D ^DIE

K WD,WDN G DONE

;

ENSYS ; edit system file

;/S DIE="^PS(59.7,",DA=1,DR="21;26;26.3;26.4;26.2;20.412ALLOW THE CHANG

E OF ORDER TYPES ON ORDERS FROM OERR;32"

S DIE="^PS(59.7,",DA=1,DR="21;26;26.3;26.4;26.2;26.5;26.6;26.7;26.8;34;

27;27.1"

W ! D ^DIE K DIE,DA,DR Q

;

ENPLSP ; edit pick list site parameters

;

ENCS ; change current site & parameters

I $D(PSJSYSW0)#2 W !!,"Current site: ",$P(PSJSYSW0,"^")

S PSGCSF=1 D ^PSGSET,ENKV^PSGSETU W:$D(XQUIT) !!?5,"(The Inpatient site

you are currently working under has not changed.)" K PSGCSF,PSGORSET,XQUIT Q

;

DF ; Add/edit Med route, instruction... to the Dosage form file.

S DIR("A")="Would you like to update the Dosage Form file"

S DIR("?")="If your answer is Yes, you will be able to Add/edit the Med

routes, Instructions, Verb, Noun and Preposition that associate with this Dosag

e form."

S DIR(0)="Y",DIR("B")="Y" D ^DIR Q:Y'=1

NEW Y,DFNO K DIE,DIC,DA,DR

F S DIC="^PS(50.606,",DIC(0)="QEAMI" D ^DIC Q:+Y'>0 S DFNO=+Y D

. I $G(MR)]"",'$D(^PS(50.606,DFNO,"MR","B",MRNO)) S DIE="^PS(50.606,",D

R="1///"\_MR,DA=DFNO D ^DIE

. K DIE,DIC,DR,MR S DIE="^PS(50.606,",DR="1;3;4;5",DA=DFNO D ^DIE

;. K DIE,DIC,DR,MR S DIE="^PS(50.606,",DR="1;2;3;4;5",DA=DFNO D ^DIE

Q

ENCD ;edit Clinic Definitions file

N CLINICS,CLINFLG S CLINICS=""

F K DIC S DIC="^PS(53.46,",DIC(0)="AELMQ",DIC("A")="Select CLINIC: ",D

LAYGO=53.46 D ^DIC K DIC Q:Y<0 D

. S DIE="^PS(53.46,",DA=+Y,CLINICS(DA)="",DR="1;2;3;6" D ^DIE K DIE,DA,

DR

D IMO^PSJIMO1(.CLINICS)

Q

;

ENCG ; ward group file0

F S DIC="^PS(57.8,",DIC(0)="QEAMIL",DLAYGO=57.8 W ! D ^DIC K DA,DIC,DR

Q:+Y'>0 S DA=+Y,DIE="^PS(57.8,",DR=".01;1" D ^DIE

G DONE

;

**After:**

PSGFILED ;BIR/CML3-VARIOUS FILES' UPKEEP ; 31 Jan 2019 9:58 AM

;;5.0;INPATIENT MEDICATIONS;\*\*20,50,63,119,110,111,112,154,184,181,257,

363\*\*;16 DEC 97;Build 105

;

; Reference to ^PS(50.606 supported by DBIA# 2174.

; Reference to ^PSDRUG supported by DBIA# 2192.

; Reference to ^PS(59.7 is supported by DBIA# 2181.

; Reference to ^PS(51 is supported by DBIA# 2176.

; Reference to ^PS(51.2 is supported by DBIA# 2178.

; Reference to ^PS(55 is supported by DBIA# 2191.

;

DONE D ENKV^PSGSETU K D0,D1,D2,PSGRBS Q

;

GED ; generic edit

S DA=+Y,DR=".01;1" W ! D ^DIE Q

;

ENAT ; team file

F S DIC="^PS(57.7,",DIC(0)="QEAMIL",DLAYGO=57.7,DIC("A")="Select WARD:

" W ! D ^DIC K DIC,DLAYGO Q:Y'>0 S DA=+Y,DIE="^PS(57.7,",DR="[PSJUMATE]" D ^DI

E

G DONE

;

ENAS ; schedules file - no longer used

;

ENMR ; med route file

NEW MRNO,MR K DIE,DIC,DR,Y

F S DIC="^PS(51.2,",DIC(0)="QEAMIL",DLAYGO=51.2 W ! D ^DIC K DIC,DLAYG

O Q:+Y'>0 S MRNO=+Y,MR=$P(Y,U,2),DA=+Y,DIE="^PS(51.2,",DR=".01;1;3;4" D ^DIE D

DF

G DONE

;

ENWG ; ward group file

F S DIC="^PS(57.5,",DIC(0)="QEAMIL",DLAYGO=57.5 W ! D ^DIC K DA,DIC,DR

Q:+Y'>0 S DA=+Y,DIE="^PS(57.5,",DR="[PSJU WG]" D ^DIE

G DONE

;

ENMI ; medication instruction file

F S DIC="^PS(51,",DIC(0)="QEAMIL",DLAYGO=51 W ! D ^DIC K DIC Q:+Y'>0

S DIE="^PS(51,",DA=+Y,DR=".01;1;30" D ^DIE

G DONE

;

ENDRG ; standard drug fields

D NOW^%DTC S PSGDT=% F S DIC="^PSDRUG(",DIC(0)="AEIMOQ",DIC("A")="Sele

ct DISPENSE DRUG: " W ! D ^DIC K DIC Q:+Y'>0 D DE

K PSIUA,PSIUDA,PSIUX G DONE

;

DE ;

I $D(^PSDRUG(+Y,"I")),^("I"),^("I")<PSGDT W $C(7),$C(7),!!?3,"\*\*\* WARNI

NG, THIS DRUG IS INACTIVE. \*\*\*",!

W ! S DIE="^PSDRUG(",(DA,PSIUDA)=+Y,DR="[PSJ FILED]"

S PSIUX="U^UNIT DOSE PHARMACY^1" D ^PSGIU,^DIE:PSIUA'["^" K DA,DIE,DR Q

;

ENOSE ; order set enter/edit

K DIC F S DLAYGO=53.2,DIC="^PS(53.2,",DIC(0)="QEAML",DIC("A")="Select

ORDER SET: " W ! D ^DIC K DIC Q:Y'>0 S DA=+Y S DIE="^PS(53.2,",DR="[PSJUOSE]" D

^DIE K D0,D1,DA,DIE,DR,PSGNEDFD,PSGS0XT,PSGS0Y

G DONE

;

RBCHK ; used to validate room-bed

;No longer used.

;F Z0=0:0 S Z0=$O(^PS(57.7,DA(2),1,Z0)) Q:'Z0 I Z0'=DA(1),$D(^(Z0,1,"B

",X)) W !?19,X," is already under ",$S('$D(^PS(57.7,DA(2),1,Z0,0)):"another team

("\_Z0\_")!",$P(^(0),"^")]"":$P(^(0),"^")\_"!",1:"another team ("\_Z0\_")!") Q

;I 'Z0,$D(^DIC(42,DA(2),2,+$O(^DIC(42,DA(2),2,"B",$P(X,"-"),0)),1,"B",$

P(X,"-",2))) K Z0 Q

;K X,Z0 Q

;

RBQ ; show room-beds for a ward

;No longer used.

Q

;

RBNP W """^"" TO STOP: " R Z3:DTIME W:'$T $C(7) S:'$T Z3="^" W $C(13),"

",$C(13) Q

;

ENPPD ; edit pharmacy patient data

; W !!?3,"...This option is still under development...",! Q

;

ENCPDD ; edit patient's default stop date (wall)

D ENCV^PSGSETU I $D(XQUIT) Q

F D ENAO^PSGGAO Q:PSGP'>0 D

.S WDN=$P($G(^DPT(PSGP,.1)),"^") W:WDN="" !!?2,"The patient is not curr

ently on a ward."

.I WDN]"" S WD=$O(^DIC(42,"B",WDN,0)),WD=$O(^PS(59.6,"B",+WD,0)) I $S('

WD:1,1:'$P($G(^PS(59.6,WD,0)),"^",4)) S X="PLEASE NOTE: The 'SAME STOP DATE' par

ameter for the ward ("\_WDN\_") is not turned on. Any date entered here will be i

gnored "

.I S X=X\_"until the parameter is turned on for this ward." W $C(7),!!?

2 F Y=1:1:$L(X," ") S X(1)=$P(X," ",Y) W:$L(X(1))+$X>78 ! W X(1)," "

.S DA=PSGP,DR="62.01T",DIE="^PS(55," W !! D ^DIE

K WD,WDN G DONE

;

ENSYS ; edit system file

;/S DIE="^PS(59.7,",DA=1,DR="21;26;26.3;26.4;26.2;20.412ALLOW THE CHANG

E OF ORDER TYPES ON ORDERS FROM OERR;32"

N RPDDEF

S RPDDEF=0

D ;For Rapid picking list

.N PCKVAL

.D LIST^DIC(59.7,"","",,,,,,,,"PCKVAL")

.S RPDDEF=$$GET1^DIQ(59.7,PCKVAL("DILIST",2,1)\_",",29.3,"E")

S DIE="^PS(59.7,",DA=1,DR="21;26;26.3;26.4;26.2;26.5;26.6;26.7;26.8;34;

27;27.1"

S DR="21;26;26.3;26.4;26.2;26.5;26.6;26.7;29.3//"\_$S(RPDDEF]"":RPDDEF,1

:"NO")\_";I X'=1 S Y=""@1"";29.1;29.2;@1;26.8;34;27;27.1"

W ! D ^DIE

W !!,"Editing KERNEL Parameters...",!!

D TEDH^XPAREDIT("PSG KERNEL PARAMETERS","B") K DIE,DA,DR W !

Q

;

ENPLSP ; edit pick list site parameters

;

ENCS ; change current site & parameters

I $D(PSJSYSW0)#2 W !!,"Current site: ",$P(PSJSYSW0,"^")

S PSGCSF=1 D ^PSGSET,ENKV^PSGSETU W:$D(XQUIT) !!?5,"(The Inpatient site

you are currently working under has not changed.)" K PSGCSF,PSGORSET,XQUIT Q

;

DF ; Add/edit Med route, instruction... to the Dosage form file.

S DIR("A")="Would you like to update the Dosage Form file"

S DIR("?")="If your answer is Yes, you will be able to Add/edit the Med

routes, Instructions, Verb, Noun and Preposition that associate with this Dosag

e form."

S DIR(0)="Y",DIR("B")="Y" D ^DIR Q:Y'=1

NEW Y,DFNO K DIE,DIC,DA,DR

F S DIC="^PS(50.606,",DIC(0)="QEAMI" D ^DIC Q:+Y'>0 S DFNO=+Y D

. I $G(MR)]"",'$D(^PS(50.606,DFNO,"MR","B",MRNO)) S DIE="^PS(50.606,",D

R="1///"\_MR,DA=DFNO D ^DIE

. K DIE,DIC,DR,MR S DIE="^PS(50.606,",DR="1;3;4;5",DA=DFNO D ^DIE

;. K DIE,DIC,DR,MR S DIE="^PS(50.606,",DR="1;2;3;4;5",DA=DFNO D ^DIE

Q

ENCD ;edit Clinic Definitions file

N CLINICS,CLINFLG S CLINICS=""

F K DIC S DIC="^PS(53.46,",DIC(0)="AELMQ",DIC("A")="Select CLINIC: ",D

LAYGO=53.46 D ^DIC K DIC Q:Y<0 D

. S DIE="^PS(53.46,",DA=+Y,CLINICS(DA)="",DR="1;2;3;6" D ^DIE K DIE,DA,

DR

D IMO^PSJIMO1(.CLINICS)

Q

;

ENCG ; ward group file0

F S DIC="^PS(57.8,",DIC(0)="QEAMIL",DLAYGO=57.8 W ! D ^DIC K DA,DIC,DR

Q:+Y'>0 S DA=+Y,DIE="^PS(57.8,",DR=".01;1" D ^DIE

G DONE

;