Existing Product Intake Program (EPIP)

Patches PSS\*1.0\*225 and PSB\*3.0\*103

Remediation Plan



Department of Veterans Affairs

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Revision History

| Date | Version | Description | Author |
| --- | --- | --- | --- |
| 08/03/2018 | 2.0 | Updates throughout | EPIP Project Team |
| 10/13/2017 | 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 patches PSS\*1.0\*225 and PSB\*3.0\*103. Both patches address the following NSR:

* NSR20170515: *Adds Respiratory Therapy Report*

This NSR has been implemented locally at the VA Salt Lake City Health Care System in Salt Lake City UT.

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

# Patch Description

Patch PSS\*1.0\*225 adds the new RESPIRATORY THERAPY DRUG? field (#15) to the PHARMACY ORDERABLE ITEM file (#50.7) to store the classification of drugs for use in Respiratory Therapy. The patch modifies the Edit Orderable Items [PSS EDIT ORDERABLE ITEMS] option in the Orderable Item Management [PSS ORDERABLE ITEM MANAGEMENT] menu to include a prompt for users to designate an orderable item as a Respiratory Therapy drug. This classification is used to identify which medications and patients are included in the Respiratory Therapy Medications report in the Bar Code Medication Administration (BCMA) package.

Patch PSB\*3.0\*103 adds new option Report for Respiratory Therapy Medications [PSB RPT RESP THERAPY MEDS] to the Medication Administration Menu Pharmacy [PSB PHARMACY] menu in the BCMA package, enabling Respiratory Therapists to create a report that identifies patients who need administration of orderable items that have been classified as Respiratory Therapy drugs. These patients are located throughout the hospital in critical care areas, medicine areas, surgery areas, and Behavioral Health. Currently, Respiratory Therapists must go bed-to-bed to find their patients. The new report provides the order number, patient name and location, medication name and dosage, and administration date and time, thus allowing the therapists to easily identify each patient so that they can administer treatment.

During the post-installation phase, routine PSB3P103 attaches the new option Report for Respiratory Therapy Medications [PSB RPT RESP THERAPY MEDS] to the Medication Administration Menu Pharmacy [PSB PHARMACY] menu. Routine PSB3P103 is deleted automatically at the end of patch installation.

## Business Epics and Sub-Epics

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

NSR20170515 *Adds Respiratory Therapy Report*

* BUSINESS EPIC 902392: For Respiratory Therapists, who administer medications, a way to identify patients that need respiratory therapy medications. Unlike the current software, does not identify these patients, our process prevents wasted time and missed medications when staff must go from bed to bed to identify their patients.
* BUSINESS SUB-EPIC 902394: For Respiratory Therapists, who administer medications, a new VistA report that outputs names and locations of patients who need respiratory medications and treatments. Unlike the current software, that does not have a report to identify these patients, our process prevents wasted time and missed medications when staff must go from bed to bed to identify their patients.
* BUSINESS SUB-EPIC 902393: For Pharmacists or Pharmacy Application Coordinators, who manage the drug file, a way to identify Pharmacy Orderable Items that are used for Respiratory Therapy. Unlike the current software that does not distinguish which orderable items are used for Respiratory Therapy, our process ensures that RT orderable items can be identified and used for RT outputs.

# Points of Contact

The VA Point of Contact (POC) for NSR20170515 *Adds Respiratory Therapy Report* is Ron Maenpaa ([Ron.Maenpaa@va.gov](mailto:Ron.Maenpaa@va.gov)), 520-629-1896.

# 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 NSR20170515 *Adds Respiratory Therapy Report* are in the following routines:

**Modified MUMPS routines:** PSBO1, PSSPOIMO

**New MUMPS routines:** PSBMMRB, PSBORT, PSBOHDR1, PSB3P103

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 [http://www.va.gov/vdl/](http://www.va.gov/vdl/%20). 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 Guides will be updated in the VDL:

* *Pharmacy Data Management User Manual*
* *Bar Code Medication Administration (BCMA) Pharmacy CHUI User Manual*

## Installation Guides

The *National Patch Module Patch Description* documents for this remediation will provide the procedure for installing the KIDS package 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:

* *Bar Code Medication Administration (BCMA) 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 package or host file containing the software changes necessary to fulfill the requirements for this remediation effort. The new build, 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 May 24, 2018@10:15:08

All Routines? No => No

Routine:

0 routines

Select BUILD NAME: PSS\*1.0\*225 PHARMACY DATA MANAGEMENT

Include the compiled template routines: N//

Print more than compiled errors and warnings? YES//

Print summary only? NO//

Print routines? YES//N

Print the DDs, Functions, and Options? YES//

Print errors and warnings with each routine? YES//

Save parameters in ROUTINE file? NO//

Index all called routines? NO//

DEVICE: HOME (CRT) Right Margin: 80//

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 May 24, 2018@10:15:08

The BUILD file Data Dictionaries are being processed.

50.7 PHARMACY ORDERABLE ITEM

The option and function files are being processed.

Routines are being processed.

Routines: 1 Faux Routines: 1

PSSPOIMO

Data Dictionaries

|dd50.7

--- CROSS REFERENCING ---

Press return to continue:

Compiled list of Errors and Warnings May 24, 2018@10:15:08 page 1

No errors or warnings to report

VISTAS1:VISTA>

===================================

VISTAS1:VISTA>D ^XINDEX

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 May 24, 2018@10:16:47

All Routines? No => No

Routine:

0 routines

Select BUILD NAME: PSB\*3.0\*103 BAR CODE MED ADMIN

Include the compiled template routines: N//

Print more than compiled errors and warnings? YES//

Print summary only? NO//

Print routines? YES//N

Print the DDs, Functions, and Options? YES//

Print errors and warnings with each routine? YES//

Save parameters in ROUTINE file? NO//

Index all called routines? NO//

DEVICE: HOME (CRT) Right Margin: 80//

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 May 24, 2018@10:16:47

The BUILD file Data Dictionaries are being processed.

The option and function files are being processed.

Routines are being processed.

Routines: 5 Faux Routines: 1

PSB3P103 PSBMMRB PSBO1 PSBOHDR1 PSBORT

Data Dictionaries

|opt

--- CROSS REFERENCING ---

Press return to continue:

Compiled list of Errors and Warnings May 24, 2018@10:16:47 page 1

No errors or warnings to report

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:** PSBO1, PSSPOIMO

**New MUMPS routines:** PSBMMRB, PSBORT, PSBOHDR1, PSB3P103

**PSBO1**

**Before:**

PSBO1 \* \* 143 LINES, (total 6431, comments 804) BYTES Page 1

RSUM: old 10334465, new 35906614

UCI: VISTA,ROU Site: TEST.CHEYENNE.MED.VA.GOVMAY 29,2018@16:01

1 PSBO1 ;BIRMINGHAM/EFC-BCMA OUTPUTS ;03/06/16 3:06pm

2 ;;3.0;BAR CODE MED ADMIN;\*\*4,13,32,2,43,28,70,83\*\*;Mar 2004;Build 89

3 ;Per VHA Directive 2004-038 (or future revisions regarding same), this routine should not be modified.

4 ;

5 ; Reference/IA

6 ; EN^PSJBCMA/2828

7 ;

8 ;\*70 - add ablility to update List multiple for Clinic names

9 ;\*83 - add Function GETREMOV to find removes for associated MRR Gives

10 ;

11 NEW(RESULTS,PSBRTYP) --

; Create a new report request

12 ; Called interactively and via RPCBroker

13 K RESULTS

14 ; Check Type

15 I '$F("DL^MD^MH^ML^MM^MV^MT^PE^PM^WA^BL^PI^AL^DO^VT^PF^XA^ST^SF^IV^CM^CP^CE^CI^BZ^",PSBRTYP) S RESULTS(0)="-1^Inv

alid Report Type" Q

16 I '+$G(DUZ) S RESULTS(0)="-1^Undefined User" Q

17 I '$G(DUZ(2)) S RESULTS(0)="-1^Undefined Division" Q

18 ; Lock Log

19 L +(^PSB(53.69,0)):$S($G(DILOCKTM)>30:DILOCKTM,1:30)

20 E S RESULTS(0)="-1^Request Log Locked" Q

21 ; Generate Unique Entry and Create

22 F D NOW^%DTC S X=$E(%\_"000000",1,14) S X=(1700+$E(X,1,3))\_$E(X,4,14),X=PSBRTYP\_"-"\_$TR(X,".","-") Q:'$D(^PSB(53.

69,"B",X))

23 S DIC="^PSB(53.69,",DIC(0)="L"

24 S DIC("DR")=".02///N;.03////^S X=DUZ;.04////^S X=DUZ(2);.05///^S X=PSBRTYP"

25 K DD,DO D FILE^DICN

26 L -(^PSB(53.69,0))

27 ; Okay, setup return and Boogie

28 I +Y<1 S RESULTS(0)="-1^Error Creating Request"

29 E S RESULTS(0)=Y

30 K DO

31 Q

32 ;

33 PRINT ;

34 N ZTDTH,ZTRTN,ZTSK,ZTDESC,ZTSAVE,DA

35 S DA=+PSBRPT(0)

36 S IOP=$$GET1^DIQ(53.69,DA\_",",.06,"I"),PSBSIO=0 I IOP]"" D

37 .S IOP="`"\_IOP,%ZIS="N"

38 .D ^%ZIS

39 .I IO=IO(0) S PSBSIO=1

40 .D HOME^%ZIS K IOP

41 I $$GET1^DIQ(53.69,DA\_",",.06)["BROWSER"!(PSBSIO=1) S IOP=$$GET1^DIQ(53.69,DA\_",",.06)\_";132" D ^%ZIS U IO D DQ^P

SBO(DA) D ^%ZISC K IOP Q

42 W @IOF,"Submitting Your Report Request to TaskMan..."

43 S ZTIO=$$GET1^DIQ(53.69,DA\_",",.06)\_";132"

44 S ZTDTH=$S($$GET1^DIQ(53.69,DA\_",",.07,"I")]"":$$GET1^DIQ(53.69,DA\_",",.07,"I"),1:$H)

45 S ZTDESC="BCMA - "\_$$GET1^DIQ(53.69,DA\_",",.05)

46 S ZTRTN="DQ^PSBO("\_DA\_")"

47 F I="PSBDFN","PSBTYPE" S ZTSAVE(I)=""

48 I $G(PSBORDNM)]"" S ZTSAVE("PSBORDNM")=""

49 D ^%ZTLOAD

50 I $D(ZTSK) S ^TMP("PSBO",$J,1)="0^Report queued. (Task #"\_ZTSK\_")"

51 E S ^TMP("PSBO",$J,1)="-1^Task Rejected."

52 Q

53 ;

54 LIST(XLIST) --

; Place List Criteria into subfile #53.692 (multiple)

55 F XL1=$O(XLIST("")):1:$O(XLIST("B"),-1) Q:+XL1="" D

56 .;\*70 add"MM", "WA" rpts to accept array list of selected clinics

57 .; build reports that use Clinic search list array

58 .N PSBCLN

59 .F CLN="WA","DL","MM","CM","CP","CI","CE" S PSBCLN(CLN)=""

60 .I ($P(XLIST(XL1),U)=PSBTYPE)!($D(PSBCLN(PSBTYPE))) D

61 ..K PSBFDA,PSBRET,PSBIENX D CLEAN^DILF

62 ..S PSBIENX="+"\_(XL1+1)\_","\_PSBIENS

63 ..D VAL^DIE(53.692,"+"\_(XL1+1)\_","\_PSBIENS,.01,"F",$TR(XLIST(XL1),"^","~"),"PSBRET","PSBFDA")

64 ..D UPDATE^DIE("","PSBFDA","PSBIENX","PSBRET")

65 Q

66 ;

67 CHECK ;Beginning of PSB\*1\*10

68 K ^TMP("PSJ",$J),PSBCL ;[\*70-1459]

69 N PSBDFN,PSBBAR,PSBDRUG,PSBFLAG,PSBPNM,PSBNDX,PSBX

70 S PSBFLAG="",PSBBAR=$P($P($G(^PSB(53.69,DA,.3)),U,1),"~",2)

71 S PSBDRUG=$$GET1^DIQ(53.69,DA\_",",.31)

72 S PSBDFN=$$GET1^DIQ(53.69,DA\_",",.12,"I") S:$G(PSBDFN) PSBFLAG=1

73 D EN^PSJBCMA(PSBDFN)

74 ;

75 F PSBX=0:0 S PSBX=$O(^TMP("PSJ",$J,PSBX)) Q:'PSBX D

76 .K Y,PSBORD,PSBPNM,PSBNDX

77 .S PSBCL=$P(^TMP("PSJ",$J,PSBX,0),U,11) ;[\*70-1459]

78 .M PSBORD=^TMP("PSJ",$J,PSBX)

79 .F PSBNDX=700,850,950 D

80 ..F Y=0:0 S Y=$O(PSBORD(PSBNDX,Y)) Q:'Y D

81 ...I $P($G(PSBORD(1)),U,7)'="A" Q

82 ...S PSBPNM=$P(PSBORD(PSBNDX,Y,0),U,1)

83 ...I PSBNDX=700,PSBPNM=PSBBAR D Q ;[\*70-1459]

84 ....S PSBFLAG=0 ;[\*70-1459]

85 ....I PSBCL]"" S PSBCL(PSBCL)="" ;[\*70-1459]

86 ....E S PSBCL($$GET1^DIQ(2,$P(PSBORD(0),U),.1)\_" (Ward)")="" ;[\*70-1459]

87 ...I PSBNDX=850,$D(^PSDRUG("A526",PSBBAR,PSBPNM)) D Q ;[\*70-1459]

88 ....S PSBFLAG=0 ;[\*70-1459]

89 ....I PSBCL]"" S PSBCL(PSBCL)="" ;[\*70-1459]

90 ....E S PSBCL($$GET1^DIQ(2,$P(PSBORD(0),U),.1)\_" (Ward)")="" ;[\*70-1459]

91 ...I PSBNDX=950,$D(^PSDRUG("A527",PSBBAR,PSBPNM)) D Q ;[\*70-1459]

92 ....S PSBFLAG=0 ;[\*70-1459]

93 ....I PSBCL]"" S PSBCL(PSBCL)="" ;[\*70-1459]

94 ....E S PSBCL($$GET1^DIQ(2,$P(PSBORD(0),U),.1)\_" (Ward)")="" ;[\*70-1459]

95 I PSBFLAG=1 D

96 .W !,"Patient is not currently on medication: ",PSBDRUG

97 .K DIRUT,DIR

98 .S DIR("A")="Do you want to continue"

99 .S DIR(0)="Y"

100 .D ^DIR

101 .S PSBANS=+Y W !

102 Q

103 ;

104 GETREMOV(DFN) --

;Process removal type XREFS and return any RM's found with key info

105 N PSBGNODE,PSBIEN

106 K ^TMP("PSB",$J,"RM")

107 ;

108 ;Xref APATCH search

109 S PSBGNODE="^PSB(53.79,"\_"""APATCH"""\_","\_DFN\_")"

110 F S PSBGNODE=$Q(@PSBGNODE) Q:PSBGNODE']"" Q:($QS(PSBGNODE,2)'="APATCH")!($QS(PSBGNODE,3)'=DFN) D

111 .S PSBIEN=$QS(PSBGNODE,5)

112 .Q:'$D(^PSB(53.79,PSBIEN,.5,1))

113 .Q:$P(^PSB(53.79,PSBIEN,.5,1,0),U,4)'="PATCH"

114 .Q:$P(^PSB(53.79,PSBIEN,0),U,9)'="G"

115 .D SETTMP ;get remove info and save to Tmp

116 ;

117 ;Xref AMRR search

118 S PSBGNODE="^PSB(53.79,"\_"""AMRR"""\_","\_DFN\_")"

119 F S PSBGNODE=$Q(@PSBGNODE) Q:PSBGNODE']"" Q:($QS(PSBGNODE,2)'="AMRR")!($QS(PSBGNODE,3)'=DFN) D

120 .S PSBIEN=$QS(PSBGNODE,5)

121 .Q:'$D(^PSB(53.79,PSBIEN,.5,1))

122 .Q:'$P(^PSB(53.79,PSBIEN,.5,1,0),U,6)

123 .Q:$P(^PSB(53.79,PSBIEN,0),U,9)'="G"

124 .D SETTMP ;get remove info and save to Tmp

125 Q

126 ;

127 SETTMP(IEN) --

;get and set MRR info for printing

128 N RMDT,ONX

129 S RMDT=$$GET1^DIQ(53.79,PSBIEN,"SCHEDULED REMOVAL TIME","I")

130 S ONX=$$GET1^DIQ(53.79,PSBIEN,"ORDER REFERENCE NUMBER")

131 K ^TMP("PSJ1",$J) D EN^PSJBCMA1(DFN,ONX,1)

132 Q:$G(^TMP("PSJ1",$J,0))=-1

133 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,1)=RMDT ;RMDT

134 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,2)=ONX ;ONX

135 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,3)=$P(^TMP("PSJ1",$J,2),U,2) ;OITX

136 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,4)=$P(^TMP("PSJ1",$J,1),U,10) ;OSTS

137 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,5)=$P(^TMP("PSJ1",$J,4),U,7) ;OSPO

138 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,6)=$P(^TMP("PSJ1",$J,0),U,11) ;CLOR

139 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,7)=$P(^TMP("PSJ1",$J,2),U,3) ;DOSE

140 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,8)=$P(^TMP("PSJ1",$J,1),U,13) ;MRNM

141 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,9)=$P(^TMP("PSJ1",$J,1),U,5) ;SM

142 S ^TMP("PSB",$J,"RM","B",ONX,PSBIEN)="" ;ORDER NUM XREF

143 Q

**After:**

PSBO1 \* \* 143 LINES, (total 6516, comments 882) BYTES Page 1

RSUM: old 10367917, new 35943966

UCI: VISTA,ROU Site: TEST.CHEYENNE.MED.VA.GOVMAR 12,2018@08:49

1 PSBO1 ;BIRMINGHAM/EFC/CR - BCMA OUTPUTS ;3/7/18 2:02pm

2 ;;3.0;BAR CODE MED ADMIN;\*\*4,13,32,2,43,28,70,83,103\*\*;Mar 2004;Build 89

3 ;Per VHA Directive 2004-038 (or future revisions regarding same), this routine should not be modified.

4 ;

5 ; Reference/IA

6 ; EN^PSJBCMA/2828

7 ;

8 ;\*70 - add ablility to update List multiple for Clinic names

9 ;\*83 - add Function GETREMOV to find removes for associated MRR Gives

10 ;

11 NEW(RESULTS,PSBRTYP) --

; Create a new report request

12 ; Called interactively and via RPCBroker

13 K RESULTS

14 ; PSB\*3\*103 - added 'RT' code for Respiratory Therapy report, called from EN1+3^PSBMMRB

15 I '$F("DL^MD^MH^ML^MM^MV^MT^PE^PM^WA^BL^PI^AL^DO^VT^PF^XA^ST^SF^IV^CM^CP^CE^CI^BZ^RT^",PSBRTYP) S RESULTS(0)="-1^

Invalid Report Type" Q

16 I '+$G(DUZ) S RESULTS(0)="-1^Undefined User" Q

17 I '$G(DUZ(2)) S RESULTS(0)="-1^Undefined Division" Q

18 ; Lock Log

19 L +(^PSB(53.69,0)):$S($G(DILOCKTM)>30:DILOCKTM,1:30)

20 E S RESULTS(0)="-1^Request Log Locked" Q

21 ; Generate Unique Entry and Create

22 F D NOW^%DTC S X=$E(%\_"000000",1,14) S X=(1700+$E(X,1,3))\_$E(X,4,14),X=PSBRTYP\_"-"\_$TR(X,".","-") Q:'$D(^PSB(53.

69,"B",X))

23 S DIC="^PSB(53.69,",DIC(0)="L"

24 S DIC("DR")=".02///N;.03////^S X=DUZ;.04////^S X=DUZ(2);.05///^S X=PSBRTYP"

25 K DD,DO D FILE^DICN

26 L -(^PSB(53.69,0))

27 ; Okay, setup return and Boogie

28 I +Y<1 S RESULTS(0)="-1^Error Creating Request"

29 E S RESULTS(0)=Y

30 K DO

31 Q

32 ;

33 PRINT ;

34 N ZTDTH,ZTRTN,ZTSK,ZTDESC,ZTSAVE,DA

35 S DA=+PSBRPT(0)

36 S IOP=$$GET1^DIQ(53.69,DA\_",",.06,"I"),PSBSIO=0 I IOP]"" D

37 .S IOP="`"\_IOP,%ZIS="N"

38 .D ^%ZIS

39 .I IO=IO(0) S PSBSIO=1

40 .D HOME^%ZIS K IOP

41 I $$GET1^DIQ(53.69,DA\_",",.06)["BROWSER"!(PSBSIO=1) S IOP=$$GET1^DIQ(53.69,DA\_",",.06)\_";132" D ^%ZIS U IO D DQ^P

SBO(DA) D ^%ZISC K IOP Q

42 W @IOF,"Submitting Your Report Request to TaskMan..."

43 S ZTIO=$$GET1^DIQ(53.69,DA\_",",.06)\_";132"

44 S ZTDTH=$S($$GET1^DIQ(53.69,DA\_",",.07,"I")]"":$$GET1^DIQ(53.69,DA\_",",.07,"I"),1:$H)

45 S ZTDESC="BCMA - "\_$$GET1^DIQ(53.69,DA\_",",.05)

46 S ZTRTN="DQ^PSBO("\_DA\_")"

47 F I="PSBDFN","PSBTYPE" S ZTSAVE(I)=""

48 I $G(PSBORDNM)]"" S ZTSAVE("PSBORDNM")=""

49 D ^%ZTLOAD

50 I $D(ZTSK) S ^TMP("PSBO",$J,1)="0^Report queued. (Task #"\_ZTSK\_")"

51 E S ^TMP("PSBO",$J,1)="-1^Task Rejected."

52 Q

53 ;

54 LIST(XLIST) --

; Place List Criteria into subfile #53.692 (multiple)

55 F XL1=$O(XLIST("")):1:$O(XLIST("B"),-1) Q:+XL1="" D

56 .;\*70 add"MM", "WA" rpts to accept array list of selected clinics

57 .; build reports that use Clinic search list array

58 .N PSBCLN

59 .F CLN="WA","DL","MM","CM","CP","CI","CE" S PSBCLN(CLN)=""

60 .I ($P(XLIST(XL1),U)=PSBTYPE)!($D(PSBCLN(PSBTYPE))) D

61 ..K PSBFDA,PSBRET,PSBIENX D CLEAN^DILF

62 ..S PSBIENX="+"\_(XL1+1)\_","\_PSBIENS

63 ..D VAL^DIE(53.692,"+"\_(XL1+1)\_","\_PSBIENS,.01,"F",$TR(XLIST(XL1),"^","~"),"PSBRET","PSBFDA")

64 ..D UPDATE^DIE("","PSBFDA","PSBIENX","PSBRET")

65 Q

66 ;

67 CHECK ;Beginning of PSB\*1\*10

68 K ^TMP("PSJ",$J),PSBCL ;[\*70-1459]

69 N PSBDFN,PSBBAR,PSBDRUG,PSBFLAG,PSBPNM,PSBNDX,PSBX

70 S PSBFLAG="",PSBBAR=$P($P($G(^PSB(53.69,DA,.3)),U,1),"~",2)

71 S PSBDRUG=$$GET1^DIQ(53.69,DA\_",",.31)

72 S PSBDFN=$$GET1^DIQ(53.69,DA\_",",.12,"I") S:$G(PSBDFN) PSBFLAG=1

73 D EN^PSJBCMA(PSBDFN)

74 ;

75 F PSBX=0:0 S PSBX=$O(^TMP("PSJ",$J,PSBX)) Q:'PSBX D

76 .K Y,PSBORD,PSBPNM,PSBNDX

77 .S PSBCL=$P(^TMP("PSJ",$J,PSBX,0),U,11) ;[\*70-1459]

78 .M PSBORD=^TMP("PSJ",$J,PSBX)

79 .F PSBNDX=700,850,950 D

80 ..F Y=0:0 S Y=$O(PSBORD(PSBNDX,Y)) Q:'Y D

81 ...I $P($G(PSBORD(1)),U,7)'="A" Q

82 ...S PSBPNM=$P(PSBORD(PSBNDX,Y,0),U,1)

83 ...I PSBNDX=700,PSBPNM=PSBBAR D Q ;[\*70-1459]

84 ....S PSBFLAG=0 ;[\*70-1459]

85 ....I PSBCL]"" S PSBCL(PSBCL)="" ;[\*70-1459]

86 ....E S PSBCL($$GET1^DIQ(2,$P(PSBORD(0),U),.1)\_" (Ward)")="" ;[\*70-1459]

87 ...I PSBNDX=850,$D(^PSDRUG("A526",PSBBAR,PSBPNM)) D Q ;[\*70-1459]

88 ....S PSBFLAG=0 ;[\*70-1459]

89 ....I PSBCL]"" S PSBCL(PSBCL)="" ;[\*70-1459]

90 ....E S PSBCL($$GET1^DIQ(2,$P(PSBORD(0),U),.1)\_" (Ward)")="" ;[\*70-1459]

91 ...I PSBNDX=950,$D(^PSDRUG("A527",PSBBAR,PSBPNM)) D Q ;[\*70-1459]

92 ....S PSBFLAG=0 ;[\*70-1459]

93 ....I PSBCL]"" S PSBCL(PSBCL)="" ;[\*70-1459]

94 ....E S PSBCL($$GET1^DIQ(2,$P(PSBORD(0),U),.1)\_" (Ward)")="" ;[\*70-1459]

95 I PSBFLAG=1 D

96 .W !,"Patient is not currently on medication: ",PSBDRUG

97 .K DIRUT,DIR

98 .S DIR("A")="Do you want to continue"

99 .S DIR(0)="Y"

100 .D ^DIR

101 .S PSBANS=+Y W !

102 Q

103 ;

104 GETREMOV(DFN) --

;Process removal type XREFS and return any RM's found with key info

105 N PSBGNODE,PSBIEN

106 K ^TMP("PSB",$J,"RM")

107 ;

108 ;Xref APATCH search

109 S PSBGNODE="^PSB(53.79,"\_"""APATCH"""\_","\_DFN\_")"

110 F S PSBGNODE=$Q(@PSBGNODE) Q:PSBGNODE']"" Q:($QS(PSBGNODE,2)'="APATCH")!($QS(PSBGNODE,3)'=DFN) D

111 .S PSBIEN=$QS(PSBGNODE,5)

112 .Q:'$D(^PSB(53.79,PSBIEN,.5,1))

113 .Q:$P(^PSB(53.79,PSBIEN,.5,1,0),U,4)'="PATCH"

114 .Q:$P(^PSB(53.79,PSBIEN,0),U,9)'="G"

115 .D SETTMP ;get remove info and save to Tmp

116 ;

117 ;Xref AMRR search

118 S PSBGNODE="^PSB(53.79,"\_"""AMRR"""\_","\_DFN\_")"

119 F S PSBGNODE=$Q(@PSBGNODE) Q:PSBGNODE']"" Q:($QS(PSBGNODE,2)'="AMRR")!($QS(PSBGNODE,3)'=DFN) D

120 .S PSBIEN=$QS(PSBGNODE,5)

121 .Q:'$D(^PSB(53.79,PSBIEN,.5,1))

122 .Q:'$P(^PSB(53.79,PSBIEN,.5,1,0),U,6)

123 .Q:$P(^PSB(53.79,PSBIEN,0),U,9)'="G"

124 .D SETTMP ;get remove info and save to Tmp

125 Q

126 ;

127 SETTMP(IEN) --

;get and set MRR info for printing

128 N RMDT,ONX

129 S RMDT=$$GET1^DIQ(53.79,PSBIEN,"SCHEDULED REMOVAL TIME","I")

130 S ONX=$$GET1^DIQ(53.79,PSBIEN,"ORDER REFERENCE NUMBER")

131 K ^TMP("PSJ1",$J) D EN^PSJBCMA1(DFN,ONX,1)

132 Q:$G(^TMP("PSJ1",$J,0))=-1

133 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,1)=RMDT ;RMDT

134 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,2)=ONX ;ONX

135 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,3)=$P(^TMP("PSJ1",$J,2),U,2) ;OITX

136 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,4)=$P(^TMP("PSJ1",$J,1),U,10) ;OSTS

137 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,5)=$P(^TMP("PSJ1",$J,4),U,7) ;OSPO

138 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,6)=$P(^TMP("PSJ1",$J,0),U,11) ;CLOR

139 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,7)=$P(^TMP("PSJ1",$J,2),U,3) ;DOSE

140 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,8)=$P(^TMP("PSJ1",$J,1),U,13) ;MRNM

141 S $P(^TMP("PSB",$J,"RM",PSBIEN),U,9)=$P(^TMP("PSJ1",$J,1),U,5) ;SM

142 S ^TMP("PSB",$J,"RM","B",ONX,PSBIEN)="" ;ORDER NUM XREF

143 Q

**PSSPOIMO**

**Before:**

PSSPOIMO \* \* 223 LINES, (total 15269, comments 1129) BYTESPage 1

RSUM: old 55215636, new 143564555

UCI: VISTA,ROU Site: TEST.CHEYENNE.MED.VA.GOVMAY 29,2018@15:54

1 PSSPOIMO --

;BIR/RTR/WRT-Edit Orderable Item Name and Inactive date ;05/12/17 07:11

2 ;;1.0;PHARMACY DATA MANAGEMENT;\*\*29,32,38,47,68,102,125,141,153,159,166,172,191,189,204,210\*\*;9/30/97;Build 9

3 S PSSITE=+$O(^PS(59.7,0)) I +$P($G(^PS(59.7,PSSITE,80)),"^",2)<2 W !!?3,"Orderable Item Auto-Create has not been

completed yet!",! K PSSITE K DIR S DIR("A")="Press RETURN to continue",DIR(0)="E" D ^DIR K DIR Q

4 K PSSITE W !!,"This option enables you to edit Orderable Item names, Formulary status,",!,"drug text, Inactive Da

tes, Indications for Use, and Synonyms."

5 EN I $D(PSOIEN) L -^PS(50.7,PSOIEN)

6 K PSSCROSS,DTOUT,DUOUT,DIRUT

7 K DIC ; S PY=$P($G(^PS(59.7,1,31)),"^",2)

8 S PSS1="W "" ""\_$P(^PS(50.606,$P(^PS(50.7,+Y,0),""^"",2),0),""^"")\_"" ""\_$S($P($G(^PS(50.7,+Y,0)),""^"",4):$E($

P(^(0),""^"",4),4,5)\_""-""\_$E($P(^(0),""^"",4),6,7)\_""-""\_$E($P(^(0),""^"",4),2,3),1:"""")"

9 S PSS2=" S NF=$P($G(^PS(50.7,+Y,0)),""^"",12) I NF S NF="" N/F"" W NF"

10 S DIC("W")=PSS1\_PSS2,DIC("S")="I '$P($G(^PS(50.7,+Y,0)),""^"",3)"

11 ;PSO\*7\*102;ONLY SEARCH B AND C X-REFS

12 S $P(PLINE,"-",79)="" W !! K PSOUT S DIC="^PS(50.7,",DIC(0)="QEAMZ",D="B^C" D MIX^DIC1 K DIC,PY,D G:Y<0!($D(DTOUT

))!($D(DUOUT)) END

13 S PSOIEN=+Y,PSOINAME=$P(Y,"^",2),PSDOSE=+$P(^PS(50.7,PSOIEN,0),"^",2) L +^PS(50.7,PSOIEN):$S($G(DILOCKTM)>0:DILOC

KTM,1:3) I '$T W !,$C(7),"Another person is editing this one." Q

14 W !!!,?5,"Orderable Item -> ",PSOINAME,!?5,"Dosage Form -> ",$P($G(^PS(50.606,PSDOSE,0)),"^"),!

15 K DIR S DIR("?")=" ",DIR("?",1)="Enter 'Yes' to see all of the Dispense Drugs, IV Additives, and IV Solutions",DI

R("?",2)="that are matched to this Orderable Item. IV Additives will be identified with"

16 S DIR("?",3)="an (A), and IV Solutions with an (S)."

17 S DIR(0)="Y",DIR("B")="YES",DIR("A")="List all Drugs/Additives/Solutions tied to this Orderable Item" D ^DIR K DI

R I Y["^"!($D(DTOUT))!($D(DUOUT)) G EN

18 I Y D DISP

19 EDIT K DIR W ! S DIR(0)="Y",DIR("A")="Are you sure you want to edit this Orderable Item",DIR("B")="NO",DIR("?")="Answe

r YES to edit the fields associated with this Orderable Item." D ^DIR K DIR I 'Y!($D(DTOUT))!($D(DUOUT)) G EN

20 W !!?3,"Now editing Orderable Item:",!?3,PSOINAME," ",$P($G(^PS(50.606,PSDOSE,0)),"^")

21 DIR K DIR S DIR(0)="F^3:40",DIR("B")=PSOINAME,DIR("A")="Orderable Item Name" D ^DIR

22 I Y["^"!($D(DUOUT))!($D(DTOUT)) G EN

23 I X[""""!($A(X)=45)!('(X'?1P.E))!(X?2"z".E) W $C(7),!!?5,"??" G DIR

24 I X'=PSOINAME S ZZFLAG=0 D @$S('$P($G(^PS(50.7,PSOIEN,0)),"^",3):"CHECK",1:"ZCHECK") I ZZFLAG G DIR

25 S PSONEW=X,DIE="^PS(50.7,",DA=PSOIEN,DR=".01////"\_X D ^DIE I PSONEW'=PSOINAME W !!,"Name changed from ",PSOINAME

,!?15,"to ",PSONEW

26 S PSSDTENT=0 W ! K DIE N MFLG S PSBEFORE=$P(^PS(50.7,PSOIEN,0),"^",4),PSAFTER=0,PSINORDE="" D

27 .;If reactivate OI, prompt to reactivate DD's only if there are any, then always give message saying OI now Activ

e. If Inactivate, prompt to inactivate any active DD's if there are any, and give message

28 .;but if OI is reactivated, and there are no activities matched to it, and user does not want to activate the dru

gs, then inactivate the OI again, and give a clear message explaining this.

29 .W !,"This Orderable Item is "\_$S($P($G(^PS(50.7,PSOIEN,0)),"^",12):"Non-Formulary.",1:"Formulary."),!

30 .I $P($G(^PS(50.7,PSOIEN,0)),"^",10) W !,"This Orderable Item is marked as a Non-VA Med.",!

31 .S DIE="^PS(50.7,",DA=PSOIEN,DR=6 S PSCREATE=1 D ^DIE K DIE,PSCREATE I $D(DTOUT)!($D(Y)>10) Q

32 .;PSS\*1\*102;ADD DRUG TEXT AS SYNONYM IS REQUESTED BY USER

33 .D ADDSYN^PSSPOIMP

34 .K DIR S DIR(0)="DO",DIR("A")="INACTIVE DATE" D D ^DIR K DIR I $G(Y)["^"!($D(DTOUT))!($G(DUOUT)) Q

35 ..I $G(PSBEFORE) S Y=PSBEFORE D DD^%DT S DIR("B")=$G(Y)

36 .I $G(PSBEFORE),'$G(Y) W ?40,"Inactive Date deleted!"

37 .S PSSDTENT=$G(Y) I $G(Y) D DD^%DT W ?40,$G(Y)

38 .S PSSOTH=$S($P($G(^PS(59.7,1,40.2)),"^"):1,1:0)

39 .S DIE="^PS(50.7,",DA=PSOIEN N PSSFG,PSSOU

40 .S DR=".05;@1;D SETF^PSSPOIMO;.06;D DFR^PSSPOIMO(PSDOSE);10//YES;I X=""Y"" S Y=""@2"";S:$G(DUOUT) Y=""@3"";" D

41 ..S DR=DR\_"D PDCHK^PSSPOIMO S:PSSFG Y=""@1"";S:$G(DUOUT) Y=""@3"";@2;K DIE(""NO^""),DIRUT;D MRSEL^PSSPOIMO;.07;.0

8;1;12//0;7;S:'$G(PSSOTH) Y=""@3"";7.1;@3" ;\*191

42 .S PSCREATE=1 D ^DIE K DIE,PSCREATE,PSSOTH,^TMP("PSJMR",$J),^TMP("PSSDMR",$J) I $D(PSSOU),'$G(PSSOU) D MRSEL K ^T

MP("PSJMR",$J)

43 .S $P(^PS(50.7,PSOIEN,0),"^",4)=PSSDTENT,PSAFTER=PSSDTENT

44 S:PSBEFORE&('$P(^PS(50.7,PSOIEN,0),"^",4)) PSINORDE="D" S:$P(^PS(50.7,PSOIEN,0),"^",4) PSINORDE="I"

45 I PSINORDE'="" D CHECK^PSSPOID2(PSOIEN) D

46 .I PSINORDE="D" D Q

47 ..I $O(PSSDACTI(0))!($O(PSSSACTI(0)))!($O(PSSAACTI(0))) D

48 ...W !!,"There are inactive "\_$S($O(PSSDACTI(0)):"drugs, ",1:"")\_$S($O(PSSAACTI(0)):"additives, ",1:"")\_$S($O(PSS

SACTI(0)):"solutions,",1:""),!,"matched to this Pharmacy Orderable Item."

49 .I $O(PSSDACT(0))!($O(PSSSACT(0)))!($O(PSSAACT(0))) D

50 ..W !!,"There are active "\_$S($O(PSSDACT(0)):"drugs, ",1:"")\_$S($O(PSSAACT(0)):"additives, ",1:"")\_$S($O(PSSSACT(

0)):"solutions,",1:""),!,"matched to this Pharmacy Orderable Item."

51 I $G(PSINORDE)="D" I $O(PSSDACTI(0))!($O(PSSSACTI(0)))!($O(PSSAACTI(0))) D REST^PSSPOIDT(PSOIEN)

52 I $G(PSINORDE)="I" I $O(PSSDACT(0))!($O(PSSSACT(0)))!($O(PSSAACT(0))) D REST^PSSPOIDT(PSOIEN)

53 S DIK="^PS(50.7,",DA=PSOIEN,DIK(1)=.04 D EN^DIK K DIK

54 K PSBEFORE,PSAFTER,PSINORDE,PSSDTENT,PSSDACT,PSSDACTI,PSSSACT,PSSSACTI,PSSAACT,PSSAACTI

55 N DIE,DA,DR ; Indications for Use fields PSS\*1\*204

56 S DIE="^PS(50.7,",DA=PSOIEN,DR="14;13" D ^DIE K DIE

57 IMMUN ;PSS\*1\*141 FOR 'IMMUNIZATIONS DOCUMENTATION BY BCMA'

58 I $O(^PSDRUG("AOC",PSOIEN,"IM000"))'["IM" G SYN ;ASK WHEN APPROPRIATE

59 W ! S DIE="^PS(50.7,",DA=PSOIEN,DR=9 D ^DIE K DIE

60 SYN I $G(Y)["^"!($G(DIRUT))!$D(DTOUT)!($D(Y)>10) G SYN1

61 W ! K DIC S:'$D(^PS(50.7,PSOIEN,2,0)) ^PS(50.7,PSOIEN,2,0)="^50.72^0^0" S DIC="^PS(50.7,"\_PSOIEN\_",2,",DA(1)=PSOI

EN,DIC(0)="QEAMZL",DIC("A")="Select SYNONYM: ",DLAYGO=50.72 D ^DIC K DIC

62 I Y<0!($D(DUOUT))!($D(DTOUT)) K:'$O(^PS(50.7,PSOIEN,2,0)) ^PS(50.7,PSOIEN,2,0) D EN^PSSPOIDT(PSOIEN),EN2^PSSHL1(P

SOIEN,"MUP") G EN

63 W ! S DA=+Y,DIE="^PS(50.7,"\_PSOIEN\_",2,",DA(1)=PSOIEN,DR=.01 D ^DIE K DIE G SYN

64 SYN1 ;File

65 D EN^PSSPOIDT(PSOIEN),EN2^PSSHL1(PSOIEN,"MUP")

66 G EN

67 END K ZZFLAG,DIC,DIR,DIE,DTOUT,DUOUT,DIRUT,FLAG,PSOINAME,PSOUT,PSDOSE,PSONEW,UPFLAG,VV,ZZ,AA,BB,Y,AAA,SSS,PSOARR,PSOA

RRAD,PLINE I $D(PSOIEN) L -^PS(50.7,PSOIEN) K PSOIEN

68 Q

69 DISP N PSSLFLAG,PSSLDATE S FLAG=1 D HEAD F ZZ=0:0 S ZZ=$O(^PSDRUG("ASP",PSOIEN,ZZ)) Q:'ZZ!($G(PSOUT)) S FLAG=0 D:($Y+

5)>IOSL HEAD Q:$G(PSOUT) I ZZ W !,$P($G(^PSDRUG(ZZ,0)),"^") W:$P($G(^PSDRUG(ZZ,0)),"^",9) " N/F" D DTE

70 Q:$G(PSOUT)

71 S (FLAG,PSSLFLAG)=0

72 F ZZ=0:0 S ZZ=$O(^PS(52.6,"AOI",PSOIEN,ZZ)) Q:'ZZ!($G(PSOUT)) D:($Y+5)>IOSL HEAD Q:$G(PSOUT) I ZZ D

73 .S PSSLFLAG=1

74 .W !,$P($G(^PS(52.6,ZZ,0)),"^"),?31," (A) "

75 .W ?40,"Additive Strength: ",$S($$GET1^DIQ(52.6,ZZ,19)'="":$$GET1^DIQ(52.6,ZZ,19)\_" "\_$$GET1^DIQ(52.6,ZZ,2),1:"N/

A")," "

76 .S PSSLDATE=$P($G(^PS(52.6,ZZ,"I")),"^") I PSSLDATE D DTEX

77 Q:$G(PSOUT)

78 ;I $G(PSSLFLAG) W !

79 F ZZ=0:0 S ZZ=$O(^PS(52.7,"AOI",PSOIEN,ZZ)) Q:'ZZ!($G(PSOUT)) D:($Y+5)>IOSL HEAD Q:$G(PSOUT) I ZZ D

80 .W !,$P($G(^PS(52.7,ZZ,0)),"^"),?31,$P($G(^(0)),"^",3),?42,"(S)"

81 .S PSSLDATE=$P($G(^PS(52.7,ZZ,"I")),"^") I PSSLDATE D DTEX

82 Q

83 HEAD I 'FLAG W ! K DIR S DIR(0)="E",DIR("A")="Press RETURN to continue" D ^DIR K DIR I 'Y S PSOUT=1 Q

84 W @IOF W !,?6,"Orderable Item -> ",PSOINAME,!?6,"Dosage Form -> ",$P($G(^PS(50.606,+$P($G(^PS(50.7,PSOIEN,0)

),"^",2),0)),"^"),!!,"Dispense Drugs:"\_$S('FLAG:" (continued)",1:""),!,"---------------"

85 Q

86 ADDIT ;If orderable item is flagged for IV

87 S AA=$O(^PS(52.6,"AOI",PSOIEN,0))

88 S BB=$O(^PS(52.7,"AOI",PSOIEN,0))

89 I 'AA,'BB W $C(7),!,"This Orderable Item is flagged for IV use, but currently there are no IV",!,"Additives or IV

Solutions matched to this Orderable Item!" G EDIT

90 G SOL

91 CHECK ;

92 S ZZFLAG=0 F VV=0:0 S VV=$O(^PS(50.7,"ADF",X,PSDOSE,VV)) Q:'VV I VV,'$P($G(^PS(50.7,VV,0)),"^",3) S ZZFLAG=1

93 I ZZFLAG W $C(7),!!?5,"There is already an Orderable Item with this same name and Dosage Form",!?5,"that is not f

lagged as 'IV'. Use the 'DISPENSE DRUG/ORDERABLE ITEM",!?5,"MAINTENANCE' option if you want to re-match to this

Orderable Item!",!

94 Q

95 ZCHECK ;

96 S ZZFLAG=0 F VV=0:0 S VV=$O(^PS(50.7,"ADF",X,PSDOSE,VV)) Q:'VV I VV,$P($G(^PS(50.7,VV,0)),"^",3) S ZZFLAG=1

97 I ZZFLAG W $C(7),!!?5,"There is already an Orderable Item with the same name and Dosage Form,",!?5,"that is flagg

ed for 'IV' use.",!

98 Q

99 SOL ;

100 K DIR S DIR(0)="Y",DIR("B")="YES",DIR("A")="List all Additives and Solutions tied to this Orderable Item" D ^DIR

K DIR G:Y["^"!($D(DTOUT)) EN G:Y=0 EDIT

101 H 1 K PSOARR,PSOARRAD S AAA=$O(^PS(52.6,"AOI",PSOIEN,0)) I AAA,$D(^PS(52.6,AAA,0)) S PSOARRAD=AAA

102 F SSS=0:0 S SSS=$O(^PS(52.7,"AOI",PSOIEN,SSS)) Q:'SSS S:$D(^PS(52.7,SSS,0)) PSOARR(SSS)=""

103 S FLAG=1,UPFLAG=0 D SHEAD F ZZ=0:0 S ZZ=$O(PSOARR(ZZ)) Q:'ZZ!($G(PSOUT))!($G(UPFLAG)) S FLAG=0 D:($Y+7)>IOSL SHE

AD Q:$G(PSOUT)!($G(UPFLAG)) I ZZ W !,$P($G(^PS(52.7,ZZ,0)),"^")," ",$P($G(^(0)),"^",3)

104 G:$G(PSOUT) EN

105 G EDIT

106 SHEAD I 'FLAG W ! K DIR S DIR(0)="E",DIR("A")="Press RETURN to continue" D ^DIR K DIR I 'Y S:Y="" PSOUT=1 S:Y=0 UPFLAG=

1 Q

107 W @IOF W !?6,"Orderable Item -> ",PSOINAME,?68,"(IV)",!?6,"Dosage Form -> ",$P($G(^PS(50.606,+$P($G(^PS(50.7

,PSOIEN,0)),"^",2),0)),"^"),!,PLINE I FLAG,'$G(PSOARRAD) W !?5,"IV Solutions:",!

108 I 'FLAG W !?5,"IV Solutions:",!

109 I FLAG,$G(PSOARRAD) W !,$P($G(^PS(52.6,PSOARRAD,0)),"^")," ","(IV Additive)",! I $D(PSOARR) W !?5,"IV Solution

s:",!

110 Q

111 DTE I $D(^PSDRUG(ZZ,"I")) S Y=$P(^PSDRUG(ZZ,"I"),"^") D DD^%DT W ?50,Y K Y

112 Q

113 DTEX S Y=$G(PSSLDATE) D DD^%DT W ?50,$G(Y) K Y

114 Q

115 IVMSG ; display a message if the CORRESPONDING IV field is entered

116 ;

117 S PSSIVMSG=$P(^PS(50.7,PSOIEN,0),"^",11) I PSSIVMSG="" Q

118 S PSSIVFRM=$P(^PS(50.7,PSSIVMSG,0),"^",2) I PSSIVFRM S PSSIVFRM=$P(^PS(50.606,PSSIVFRM,0),"^")

119 S PSSIVMSG=$P(^PS(50.7,PSSIVMSG,0),"^")\_" "\_PSSIVFRM

120 W !!,"The Corresponding IV Item is currently identified as: "\_PSSIVMSG,!

121 K PSSIVFRM,PSSIVMSG

122 Q

123 UDMSG ; display a message if the CORRESPONDING UD field is entered

124 ;

125 S PSSUDMSG=$P(^PS(50.7,PSOIEN,0),"^",10) I PSSUDMSG="" Q

126 S PSSUDFRM=$P(^PS(50.7,PSSUDMSG,0),"^",2) I PSSUDFRM S PSSUDFRM=$P(^PS(50.606,PSSUDFRM,0),"^")

127 S PSSUDMSG=$P(^PS(50.7,PSSUDMSG,0),"^")\_" "\_PSSUDFRM

128 W !!,"The Corresponding UD Item is currently identified as: "\_PSSUDMSG,!

129 K PSSUDMSG,PSSUDFRM

130 Q

131 DFR(PSDOSE) --

; dosage form med routes - called by DR string at DIR+20^PSSPOIMO

132 D SETF

133 N MR,MRNODE,XX K ^TMP("PSSDMR",$J)

134 S (MCT,MR)=0 F S MR=$O(^PS(50.606,PSDOSE,"MR",MR)) Q:'MR D

135 .S XX=+$G(^PS(50.606,PSDOSE,"MR",MR,0)) Q:'XX S MRNODE=$G(^PS(51.2,XX,0)) I $P($G(MRNODE),"^",4)'=1 Q

136 .S MCT=MCT+1,^TMP("PSSDMR",$J,MCT)=$P(MRNODE,U),^TMP("PSSDMR",$J,"B",XX)=""

137 D DFRL

138 Q

139 DFRL W !!," List of med routes associated with the DOSAGE FORM of the orderable item:",!

140 S MCT=0 I '$O(^TMP("PSSDMR",$J,MCT)) W !,?3,"NO MED ROUTE DEFINED"

141 F S MCT=$O(^TMP("PSSDMR",$J,MCT)) Q:'MCT W !,?3,$G(^(MCT))

142 D EN^DDIOL(" If you answer YES to the next prompt, the DEFAULT MED ROUTE (if populated)",,"!!")

143 D EN^DDIOL(" and this list (if populated) will be displayed as selectable med routes",,"!")

144 D EN^DDIOL(" during medication ordering dialog. If you answer NO, the DEFAULT MED ROUTE",,"!")

145 D EN^DDIOL(" (if populated) and POSSIBLE MED ROUTES list will be displayed instead.",,"!") W !

146 ;K ^TMP("PSSMR",$J)

147 Q

148 PDR ; possible med routes - called by DR string at DIR+20^PSSPOIMO

149 N MCT,MR,MRNODE,XX K ^TMP("PSSMR",$J)

150 S (XX,MCT)=0 F S XX=$O(^PS(50.7,$S($G(PSVAR):PSVAR,1:PSOIEN),3,"B",XX)) Q:'XX S MRNODE=$G(^PS(51.2,XX,0)),MCT=M

CT+1,^TMP("PSSMR",$J,MCT)=$P(MRNODE,U)

151 I $O(^TMP("PSSMR",$J,0)) D

152 .W !!," List of Possible Med Routes associated with the orderable item:",!

153 .S MCT=0 F S MCT=$O(^TMP("PSSMR",$J,MCT)) Q:'MCT W !,?3,$G(^(MCT))

154 W ! K ^TMP("PSSMR",$J)

155 Q

156 PDCHK ; called by DR string at DIR+20^PSSPOIMO

157 N ANS,D,DIC,DIE,DO,DICR,DR,DIR,PSOUT,PSSDA,PSSX,PSSXA,PSSY,Q,X,Y,Z

158 S DIR(0)="PO^51.2:EMZ",DIR("A")="POSSIBLE MED ROUTES",DIR("S")="I $P(^(0),U,4)" S PSOUT=0

159 S DIR("PRE")="I X=""?"" D MRTHLP^PSSPOIMO"

160 F D PDR,^DIR D I PSOUT Q

161 .I (X="")!$D(DTOUT)!$D(DUOUT) S PSOUT=1 Q

162 .I X="@",$D(PSSY) S ANS=DA D:$$DASK Q

163 ..N DIK,DA S DA(1)=ANS,DIK="^PS(50.7,"\_DA(1)\_",3,"

164 ..S DA=$O(^PS(50.7,DA(1),3,"B",PSSY,"")) I DA="" Q

165 ..D ^DIK K PSSY,DIR("B")

166 .I Y="" W " ??" Q

167 .I $D(^PS(50.7,DA,3,"B",+Y)) D Q

168 ..I $D(DIR("B")) K PSSY,DIR("B") Q

169 ..S DIR("B")=Y(0,0),PSSY=+Y Q

170 .S PSSXA=Y(0,0),PSSX=+Y D DFR(+$P(^PS(50.7,DA,0),"^",2))

171 .I $G(PSSX) S ANS=$$ASK() I 'ANS Q

172 .S PSSDA(50.711,"+1,"\_DA\_",",.01)=+PSSX

173 .D UPDATE^DIE("","PSSDA")

174 .K ^TMP("PSSMR",$J)

175 D DP

176 Q

177 ASK() ; confirm adding the new entry

178 N DIR,X,Y W ! S DIR(0)="YO",DIR("B")="YES"

179 I $D(^TMP("PSSDMR",$J)),'$D(^TMP("PSSDMR",$J,"B",PSSX)) S DIR("B")="NO",DIR("A",1)="The selected entry does not m

atch to any of the dosage form med routes."

180 W $C(7) S DIR("A")=" Are you adding '"\_PSSXA\_"' as a new POSSIBLE MED ROUTE" D ^DIR

181 Q $S(Y=1:1,1:0)

182 DASK() ; delete possible med route

183 N DIR

184 W $C(7) S DIR("A")=" SURE YOU WANT TO DELETE ",DIR(0)="Y" D ^DIR

185 Q $S(Y=1:1,1:0)

186 MRTHLP ; help of possible med route

187 N DIC,RTE,D

188 S RTE=0 F S RTE=$O(^PS(50.7,DA,3,"B",RTE)) Q:'RTE D EN^DDIOL($P($G(^PS(51.2,RTE,0)),"^"),,"!,?4")

189 W ! D EN^DDIOL("Enter the most common MED ROUTE associated with this Orderable Item.",,"!,?5")

190 D EN^DDIOL("ONLY MED ROUTES MARKED FOR USE BY ALL PACKAGES ARE SELECTABLE.",,"!,?5")

191 Q

192 DP ; check the existence of Default Med Route & Possible Med Routes

193 N D,DIC,DIE,DO,DICR,DR,DIR,Q,X,Y,Z

194 I '$P($G(^PS(50.7,$S($G(PSVAR):PSVAR,1:PSOIEN),0)),"^",6)&('$O(^PS(50.7,$S($G(PSVAR):PSVAR,1:PSOIEN),3,0))) D

195 .S PSR(1)=" You have not selected ANY med routes to display during order entry. In"

196 .S PSR(2)=" order to have med routes displayed during order entry, you must either"

197 .S PSR(3)=" define a DEFAULT MED ROUTE and/or at least one POSSIBLE MED ROUTE, or"

198 .S PSR(4)=" answer YES to the USE DOSAGE FORM MED ROUTE LIST prompt."

199 .S PSR(5)=" \*\*WITH THE CURRENT SETTINGS, NO MED ROUTES WILL DISPLAY FOR SELECTION ",PSR(5,"F")="!!"

200 .S PSR(6)=" DURING ORDER ENTRY FOR THIS ORDERABLE ITEM\*\*"

201 .D EN^DDIOL(.PSR),EN^DDIOL(" ","","!")

202 .K DIR S DIR(0)="Y",DIR("?",1)="If you select NO, you will continue to loop back to the Default Med Route"

203 .S DIR("?")="prompt until either a selection is made or you answer YES to this prompt to proceed."

204 .S DIR("A",1)="",DIR("A",2)="The current setting is usually only appropriate for supply items."

205 .S DIR("A")="Continue with NO med route displaying for selection during order entry",DIR("B")="NO"

206 .D ^DIR K DIR W ! I 'Y!($D(DTOUT))!($D(DUOUT)) S PSSFG=1

207 .S:Y PSSFG=0

208 E S PSSFG=0

209 Q

210 ;

211 SETF ;

212 S PSSOU=0 K ^TMP("PSJMR",$J) D MEDRT^PSSJORDF($S($G(PSVAR):PSVAR,1:PSOIEN))

213 I '$D(^TMP("PSJMR",$J)) S DIE("NO^")="",PSSFG=1

214 E S PSSFG=0 K DIE("NO^")

215 Q

216 MRSEL ;

217 K ^TMP("PSJMR",$J) D MEDRT^PSSJORDF($S($G(PSVAR):PSVAR,1:PSOIEN))

218 W !,"The following Med Routes will now be displayed during order entry:"

219 N I S (PSSOU,I)=0 F S I=$O(^TMP("PSJMR",$J,I)) Q:'I W !,$P(^(I),"^",2) S PSSOU=1

220 W:'PSSOU !,"(None)"

221 W ! S PSSOU=1

222 Q

223 ;

**After**:

PSSPOIMO \* \* 223 LINES, (total 15331, comments 1129) BYTESPage 1

RSUM: old 56152601, new 144698320

UCI: VISTA,ROU Site: TEST.CHEYENNE.MED.VA.GOVMAY 24,2018@15:04

1 PSSPOIMO --

;BIR/RTR/WRT-Edit Orderable Item Name and Inactive date ;05/12/17 07:11

2 ;;1.0;PHARMACY DATA MANAGEMENT;\*\*29,32,38,47,68,102,125,141,153,159,166,172,191,189,204,

210,225\*\*;9/30/97;Build 9

3 S PSSITE=+$O(^PS(59.7,0)) I +$P($G(^PS(59.7,PSSITE,80)),"^",2)<2 W !!?3,"Orderable Item

Auto-Create has not been completed yet!",! K PSSITE K DIR S DIR("A")="Press RETURN to c

ontinue",DIR(0)="E" D ^DIR K DIR Q

4 K PSSITE W !!,"This option enables you to edit Orderable Item names, Formulary status,",

!,"drug text, Inactive Dates, Indications for Use, and Synonyms."

5 EN I $D(PSOIEN) L -^PS(50.7,PSOIEN)

6 K PSSCROSS,DTOUT,DUOUT,DIRUT

7 K DIC ; S PY=$P($G(^PS(59.7,1,31)),"^",2)

8 S PSS1="W "" ""\_$P(^PS(50.606,$P(^PS(50.7,+Y,0),""^"",2),0),""^"")\_"" ""\_$S($P($G(^PS(

50.7,+Y,0)),""^"",4):$E($P(^(0),""^"",4),4,5)\_""-""\_$E($P(^(0),""^"",4),6,7)\_""-""\_$E($

P(^(0),""^"",4),2,3),1:"""")"

9 S PSS2=" S NF=$P($G(^PS(50.7,+Y,0)),""^"",12) I NF S NF="" N/F"" W NF"

10 S DIC("W")=PSS1\_PSS2,DIC("S")="I '$P($G(^PS(50.7,+Y,0)),""^"",3)"

11 ;PSO\*7\*102;ONLY SEARCH B AND C X-REFS

12 S $P(PLINE,"-",79)="" W !! K PSOUT S DIC="^PS(50.7,",DIC(0)="QEAMZ",D="B^C" D MIX^DIC1 K

DIC,PY,D G:Y<0!($D(DTOUT))!($D(DUOUT)) END

13 S PSOIEN=+Y,PSOINAME=$P(Y,"^",2),PSDOSE=+$P(^PS(50.7,PSOIEN,0),"^",2) L +^PS(50.7,PSOIEN

):$S($G(DILOCKTM)>0:DILOCKTM,1:3) I '$T W !,$C(7),"Another person is editing this one."

Q

14 W !!!,?5,"Orderable Item -> ",PSOINAME,!?5,"Dosage Form -> ",$P($G(^PS(50.606,PSDOSE,

0)),"^"),!

15 K DIR S DIR("?")=" ",DIR("?",1)="Enter 'Yes' to see all of the Dispense Drugs, IV Additi

ves, and IV Solutions",DIR("?",2)="that are matched to this Orderable Item. IV Additive

s will be identified with"

16 S DIR("?",3)="an (A), and IV Solutions with an (S)."

17 S DIR(0)="Y",DIR("B")="YES",DIR("A")="List all Drugs/Additives/Solutions tied to this Or

derable Item" D ^DIR K DIR I Y["^"!($D(DTOUT))!($D(DUOUT)) G EN

18 I Y D DISP

19 EDIT K DIR W ! S DIR(0)="Y",DIR("A")="Are you sure you want to edit this Orderable Item",DIR(

"B")="NO",DIR("?")="Answer YES to edit the fields associated with this Orderable Item."

D ^DIR K DIR I 'Y!($D(DTOUT))!($D(DUOUT)) G EN

20 W !!?3,"Now editing Orderable Item:",!?3,PSOINAME," ",$P($G(^PS(50.606,PSDOSE,0)),"^")

21 DIR K DIR S DIR(0)="F^3:40",DIR("B")=PSOINAME,DIR("A")="Orderable Item Name" D ^DIR

22 I Y["^"!($D(DUOUT))!($D(DTOUT)) G EN

23 I X[""""!($A(X)=45)!('(X'?1P.E))!(X?2"z".E) W $C(7),!!?5,"??" G DIR

24 I X'=PSOINAME S ZZFLAG=0 D @$S('$P($G(^PS(50.7,PSOIEN,0)),"^",3):"CHECK",1:"ZCHECK") I Z

ZFLAG G DIR

25 S PSONEW=X,DIE="^PS(50.7,",DA=PSOIEN,DR=".01////"\_X D ^DIE I PSONEW'=PSOINAME W !!,"Name

changed from ",PSOINAME,!?15,"to ",PSONEW

26 S PSSDTENT=0 W ! K DIE N MFLG S PSBEFORE=$P(^PS(50.7,PSOIEN,0),"^",4),PSAFTER=0,PSINORDE

="" D

27 .;If reactivate OI, prompt to reactivate DD's only if there are any, then always give me

ssage saying OI now Active. If Inactivate, prompt to inactivate any active DD's if ther

e are any, and give message

28 .;but if OI is reactivated, and there are no activities matched to it, and user does not

want to activate the drugs, then inactivate the OI again, and give a clear message exp

laining this.

29 .W !,"This Orderable Item is "\_$S($P($G(^PS(50.7,PSOIEN,0)),"^",12):"Non-Formulary.",1:"

Formulary."),!

30 .I $P($G(^PS(50.7,PSOIEN,0)),"^",10) W !,"This Orderable Item is marked as a Non-VA Med.

",!

31 .S DIE="^PS(50.7,",DA=PSOIEN,DR=6 S PSCREATE=1 D ^DIE K DIE,PSCREATE I $D(DTOUT)!($D(Y)>

10) Q

32 .;PSS\*1\*102;ADD DRUG TEXT AS SYNONYM IS REQUESTED BY USER

33 .D ADDSYN^PSSPOIMP

34 .K DIR S DIR(0)="DO",DIR("A")="INACTIVE DATE" D D ^DIR K DIR I $G(Y)["^"!($D(DTOUT))!($

G(DUOUT)) Q

35 ..I $G(PSBEFORE) S Y=PSBEFORE D DD^%DT S DIR("B")=$G(Y)

36 .I $G(PSBEFORE),'$G(Y) W ?40,"Inactive Date deleted!"

37 .S PSSDTENT=$G(Y) I $G(Y) D DD^%DT W ?40,$G(Y)

38 .S PSSOTH=$S($P($G(^PS(59.7,1,40.2)),"^"):1,1:0)

39 .S DIE="^PS(50.7,",DA=PSOIEN N PSSFG,PSSOU

40 .S DR=".05;@1;D SETF^PSSPOIMO;.06;D DFR^PSSPOIMO(PSDOSE);10//YES;I X=""Y"" S Y=""@2"";S:

$G(DUOUT) Y=""@3"";" D

41 ..S DR=DR\_"D PDCHK^PSSPOIMO S:PSSFG Y=""@1"";S:$G(DUOUT) Y=""@3"";@2;K DIE(""NO^""),DIRU

T;D MRSEL^PSSPOIMO;.07;.08;1;12//0;15;7;S:'$G(PSSOTH) Y=""@3"";7.1;@3" ;\*191, \*225 - ad

ded field #15 for Respiratory Therapy report

42 .S PSCREATE=1 D ^DIE K DIE,PSCREATE,PSSOTH,^TMP("PSJMR",$J),^TMP("PSSDMR",$J) I $D(PSSOU

),'$G(PSSOU) D MRSEL K ^TMP("PSJMR",$J)

43 .S $P(^PS(50.7,PSOIEN,0),"^",4)=PSSDTENT,PSAFTER=PSSDTENT

44 S:PSBEFORE&('$P(^PS(50.7,PSOIEN,0),"^",4)) PSINORDE="D" S:$P(^PS(50.7,PSOIEN,0),"^",4) P

SINORDE="I"

45 I PSINORDE'="" D CHECK^PSSPOID2(PSOIEN) D

46 .I PSINORDE="D" D Q

47 ..I $O(PSSDACTI(0))!($O(PSSSACTI(0)))!($O(PSSAACTI(0))) D

48 ...W !!,"There are inactive "\_$S($O(PSSDACTI(0)):"drugs, ",1:"")\_$S($O(PSSAACTI(0)):"add

itives, ",1:"")\_$S($O(PSSSACTI(0)):"solutions,",1:""),!,"matched to this Pharmacy Order

able Item."

49 .I $O(PSSDACT(0))!($O(PSSSACT(0)))!($O(PSSAACT(0))) D

50 ..W !!,"There are active "\_$S($O(PSSDACT(0)):"drugs, ",1:"")\_$S($O(PSSAACT(0)):"additive

s, ",1:"")\_$S($O(PSSSACT(0)):"solutions,",1:""),!,"matched to this Pharmacy Orderable I

tem."

51 I $G(PSINORDE)="D" I $O(PSSDACTI(0))!($O(PSSSACTI(0)))!($O(PSSAACTI(0))) D REST^PSSPOIDT

(PSOIEN)

52 I $G(PSINORDE)="I" I $O(PSSDACT(0))!($O(PSSSACT(0)))!($O(PSSAACT(0))) D REST^PSSPOIDT(PS

OIEN)

53 S DIK="^PS(50.7,",DA=PSOIEN,DIK(1)=.04 D EN^DIK K DIK

54 K PSBEFORE,PSAFTER,PSINORDE,PSSDTENT,PSSDACT,PSSDACTI,PSSSACT,PSSSACTI,PSSAACT,PSSAACTI

55 N DIE,DA,DR ; Indications for Use fields PSS\*1\*204

56 S DIE="^PS(50.7,",DA=PSOIEN,DR="14;13" D ^DIE K DIE

57 IMMUN ;PSS\*1\*141 FOR 'IMMUNIZATIONS DOCUMENTATION BY BCMA'

58 I $O(^PSDRUG("AOC",PSOIEN,"IM000"))'["IM" G SYN ;ASK WHEN APPROPRIATE

59 W ! S DIE="^PS(50.7,",DA=PSOIEN,DR=9 D ^DIE K DIE

60 SYN I $G(Y)["^"!($G(DIRUT))!$D(DTOUT)!($D(Y)>10) G SYN1

61 W ! K DIC S:'$D(^PS(50.7,PSOIEN,2,0)) ^PS(50.7,PSOIEN,2,0)="^50.72^0^0" S DIC="^PS(50.7,

"\_PSOIEN\_",2,",DA(1)=PSOIEN,DIC(0)="QEAMZL",DIC("A")="Select SYNONYM: ",DLAYGO=50.72 D

^DIC K DIC

62 I Y<0!($D(DUOUT))!($D(DTOUT)) K:'$O(^PS(50.7,PSOIEN,2,0)) ^PS(50.7,PSOIEN,2,0) D EN^PSSP

OIDT(PSOIEN),EN2^PSSHL1(PSOIEN,"MUP") G EN

63 W ! S DA=+Y,DIE="^PS(50.7,"\_PSOIEN\_",2,",DA(1)=PSOIEN,DR=.01 D ^DIE K DIE G SYN

64 SYN1 ;File

65 D EN^PSSPOIDT(PSOIEN),EN2^PSSHL1(PSOIEN,"MUP")

66 G EN

67 END K ZZFLAG,DIC,DIR,DIE,DTOUT,DUOUT,DIRUT,FLAG,PSOINAME,PSOUT,PSDOSE,PSONEW,UPFLAG,VV,ZZ,AA

,BB,Y,AAA,SSS,PSOARR,PSOARRAD,PLINE I $D(PSOIEN) L -^PS(50.7,PSOIEN) K PSOIEN

68 Q

69 DISP N PSSLFLAG,PSSLDATE S FLAG=1 D HEAD F ZZ=0:0 S ZZ=$O(^PSDRUG("ASP",PSOIEN,ZZ)) Q:'ZZ!($G

(PSOUT)) S FLAG=0 D:($Y+5)>IOSL HEAD Q:$G(PSOUT) I ZZ W !,$P($G(^PSDRUG(ZZ,0)),"^") W

:$P($G(^PSDRUG(ZZ,0)),"^",9) " N/F" D DTE

70 Q:$G(PSOUT)

71 S (FLAG,PSSLFLAG)=0

72 F ZZ=0:0 S ZZ=$O(^PS(52.6,"AOI",PSOIEN,ZZ)) Q:'ZZ!($G(PSOUT)) D:($Y+5)>IOSL HEAD Q:$G(P

SOUT) I ZZ D

73 .S PSSLFLAG=1

74 .W !,$P($G(^PS(52.6,ZZ,0)),"^"),?31," (A) "

75 .W ?40,"Additive Strength: ",$S($$GET1^DIQ(52.6,ZZ,19)'="":$$GET1^DIQ(52.6,ZZ,19)\_" "\_$$

GET1^DIQ(52.6,ZZ,2),1:"N/A")," "

76 .S PSSLDATE=$P($G(^PS(52.6,ZZ,"I")),"^") I PSSLDATE D DTEX

77 Q:$G(PSOUT)

78 ;I $G(PSSLFLAG) W !

79 F ZZ=0:0 S ZZ=$O(^PS(52.7,"AOI",PSOIEN,ZZ)) Q:'ZZ!($G(PSOUT)) D:($Y+5)>IOSL HEAD Q:$G(P

SOUT) I ZZ D

80 .W !,$P($G(^PS(52.7,ZZ,0)),"^"),?31,$P($G(^(0)),"^",3),?42,"(S)"

81 .S PSSLDATE=$P($G(^PS(52.7,ZZ,"I")),"^") I PSSLDATE D DTEX

82 Q

83 HEAD I 'FLAG W ! K DIR S DIR(0)="E",DIR("A")="Press RETURN to continue" D ^DIR K DIR I 'Y S P

SOUT=1 Q

84 W @IOF W !,?6,"Orderable Item -> ",PSOINAME,!?6,"Dosage Form -> ",$P($G(^PS(50.606,

+$P($G(^PS(50.7,PSOIEN,0)),"^",2),0)),"^"),!!,"Dispense Drugs:"\_$S('FLAG:" (continued)"

,1:""),!,"---------------"

85 Q

86 ADDIT ;If orderable item is flagged for IV

87 S AA=$O(^PS(52.6,"AOI",PSOIEN,0))

88 S BB=$O(^PS(52.7,"AOI",PSOIEN,0))

89 I 'AA,'BB W $C(7),!,"This Orderable Item is flagged for IV use, but currently there are

no IV",!,"Additives or IV Solutions matched to this Orderable Item!" G EDIT

90 G SOL

91 CHECK ;

92 S ZZFLAG=0 F VV=0:0 S VV=$O(^PS(50.7,"ADF",X,PSDOSE,VV)) Q:'VV I VV,'$P($G(^PS(50.7,VV,

0)),"^",3) S ZZFLAG=1

93 I ZZFLAG W $C(7),!!?5,"There is already an Orderable Item with this same name and Dosage

Form",!?5,"that is not flagged as 'IV'. Use the 'DISPENSE DRUG/ORDERABLE ITEM",!?5,"MA

INTENANCE' option if you want to re-match to this Orderable Item!",!

94 Q

95 ZCHECK ;

96 S ZZFLAG=0 F VV=0:0 S VV=$O(^PS(50.7,"ADF",X,PSDOSE,VV)) Q:'VV I VV,$P($G(^PS(50.7,VV,0

)),"^",3) S ZZFLAG=1

97 I ZZFLAG W $C(7),!!?5,"There is already an Orderable Item with the same name and Dosage

Form,",!?5,"that is flagged for 'IV' use.",!

98 Q

99 SOL ;

100 K DIR S DIR(0)="Y",DIR("B")="YES",DIR("A")="List all Additives and Solutions tied to thi

s Orderable Item" D ^DIR K DIR G:Y["^"!($D(DTOUT)) EN G:Y=0 EDIT

101 H 1 K PSOARR,PSOARRAD S AAA=$O(^PS(52.6,"AOI",PSOIEN,0)) I AAA,$D(^PS(52.6,AAA,0)) S PSO

ARRAD=AAA

102 F SSS=0:0 S SSS=$O(^PS(52.7,"AOI",PSOIEN,SSS)) Q:'SSS S:$D(^PS(52.7,SSS,0)) PSOARR(SSS)

=""

103 S FLAG=1,UPFLAG=0 D SHEAD F ZZ=0:0 S ZZ=$O(PSOARR(ZZ)) Q:'ZZ!($G(PSOUT))!($G(UPFLAG)) S

FLAG=0 D:($Y+7)>IOSL SHEAD Q:$G(PSOUT)!($G(UPFLAG)) I ZZ W !,$P($G(^PS(52.7,ZZ,0)),"^

")," ",$P($G(^(0)),"^",3)

104 G:$G(PSOUT) EN

105 G EDIT

106 SHEAD I 'FLAG W ! K DIR S DIR(0)="E",DIR("A")="Press RETURN to continue" D ^DIR K DIR I 'Y S:Y

="" PSOUT=1 S:Y=0 UPFLAG=1 Q

107 W @IOF W !?6,"Orderable Item -> ",PSOINAME,?68,"(IV)",!?6,"Dosage Form -> ",$P($G(^

PS(50.606,+$P($G(^PS(50.7,PSOIEN,0)),"^",2),0)),"^"),!,PLINE I FLAG,'$G(PSOARRAD) W !?5

,"IV Solutions:",!

108 I 'FLAG W !?5,"IV Solutions:",!

109 I FLAG,$G(PSOARRAD) W !,$P($G(^PS(52.6,PSOARRAD,0)),"^")," ","(IV Additive)",! I $D(P

SOARR) W !?5,"IV Solutions:",!

110 Q

111 DTE I $D(^PSDRUG(ZZ,"I")) S Y=$P(^PSDRUG(ZZ,"I"),"^") D DD^%DT W ?50,Y K Y

112 Q

113 DTEX S Y=$G(PSSLDATE) D DD^%DT W ?50,$G(Y) K Y

114 Q

115 IVMSG ; display a message if the CORRESPONDING IV field is entered

116 ;

117 S PSSIVMSG=$P(^PS(50.7,PSOIEN,0),"^",11) I PSSIVMSG="" Q

118 S PSSIVFRM=$P(^PS(50.7,PSSIVMSG,0),"^",2) I PSSIVFRM S PSSIVFRM=$P(^PS(50.606,PSSIVFRM,0

),"^")

119 S PSSIVMSG=$P(^PS(50.7,PSSIVMSG,0),"^")\_" "\_PSSIVFRM

120 W !!,"The Corresponding IV Item is currently identified as: "\_PSSIVMSG,!

121 K PSSIVFRM,PSSIVMSG

122 Q

123 UDMSG ; display a message if the CORRESPONDING UD field is entered

124 ;

125 S PSSUDMSG=$P(^PS(50.7,PSOIEN,0),"^",10) I PSSUDMSG="" Q

126 S PSSUDFRM=$P(^PS(50.7,PSSUDMSG,0),"^",2) I PSSUDFRM S PSSUDFRM=$P(^PS(50.606,PSSUDFRM,0

),"^")

127 S PSSUDMSG=$P(^PS(50.7,PSSUDMSG,0),"^")\_" "\_PSSUDFRM

128 W !!,"The Corresponding UD Item is currently identified as: "\_PSSUDMSG,!

129 K PSSUDMSG,PSSUDFRM

130 Q

131 DFR(PSDOSE) --

; dosage form med routes - called by DR string at DIR+20^PSSPOIMO

132 D SETF

133 N MR,MRNODE,XX K ^TMP("PSSDMR",$J)

134 S (MCT,MR)=0 F S MR=$O(^PS(50.606,PSDOSE,"MR",MR)) Q:'MR D

135 .S XX=+$G(^PS(50.606,PSDOSE,"MR",MR,0)) Q:'XX S MRNODE=$G(^PS(51.2,XX,0)) I $P($G(MRNOD

E),"^",4)'=1 Q

136 .S MCT=MCT+1,^TMP("PSSDMR",$J,MCT)=$P(MRNODE,U),^TMP("PSSDMR",$J,"B",XX)=""

137 D DFRL

138 Q

139 DFRL W !!," List of med routes associated with the DOSAGE FORM of the orderable item:",!

140 S MCT=0 I '$O(^TMP("PSSDMR",$J,MCT)) W !,?3,"NO MED ROUTE DEFINED"

141 F S MCT=$O(^TMP("PSSDMR",$J,MCT)) Q:'MCT W !,?3,$G(^(MCT))

142 D EN^DDIOL(" If you answer YES to the next prompt, the DEFAULT MED ROUTE (if populated)"

,,"!!")

143 D EN^DDIOL(" and this list (if populated) will be displayed as selectable med routes",,"

!")

144 D EN^DDIOL(" during medication ordering dialog. If you answer NO, the DEFAULT MED ROUTE"

,,"!")

145 D EN^DDIOL(" (if populated) and POSSIBLE MED ROUTES list will be displayed instead.",,"!

") W !

146 ;K ^TMP("PSSMR",$J)

147 Q

148 PDR ; possible med routes - called by DR string at DIR+20^PSSPOIMO

149 N MCT,MR,MRNODE,XX K ^TMP("PSSMR",$J)

150 S (XX,MCT)=0 F S XX=$O(^PS(50.7,$S($G(PSVAR):PSVAR,1:PSOIEN),3,"B",XX)) Q:'XX S MRNODE

=$G(^PS(51.2,XX,0)),MCT=MCT+1,^TMP("PSSMR",$J,MCT)=$P(MRNODE,U)

151 I $O(^TMP("PSSMR",$J,0)) D

152 .W !!," List of Possible Med Routes associated with the orderable item:",!

153 .S MCT=0 F S MCT=$O(^TMP("PSSMR",$J,MCT)) Q:'MCT W !,?3,$G(^(MCT))

154 W ! K ^TMP("PSSMR",$J)

155 Q

156 PDCHK ; called by DR string at DIR+20^PSSPOIMO

157 N ANS,D,DIC,DIE,DO,DICR,DR,DIR,PSOUT,PSSDA,PSSX,PSSXA,PSSY,Q,X,Y,Z

158 S DIR(0)="PO^51.2:EMZ",DIR("A")="POSSIBLE MED ROUTES",DIR("S")="I $P(^(0),U,4)" S PSOUT=

0

159 S DIR("PRE")="I X=""?"" D MRTHLP^PSSPOIMO"

160 F D PDR,^DIR D I PSOUT Q

161 .I (X="")!$D(DTOUT)!$D(DUOUT) S PSOUT=1 Q

162 .I X="@",$D(PSSY) S ANS=DA D:$$DASK Q

163 ..N DIK,DA S DA(1)=ANS,DIK="^PS(50.7,"\_DA(1)\_",3,"

164 ..S DA=$O(^PS(50.7,DA(1),3,"B",PSSY,"")) I DA="" Q

165 ..D ^DIK K PSSY,DIR("B")

166 .I Y="" W " ??" Q

167 .I $D(^PS(50.7,DA,3,"B",+Y)) D Q

168 ..I $D(DIR("B")) K PSSY,DIR("B") Q

169 ..S DIR("B")=Y(0,0),PSSY=+Y Q

170 .S PSSXA=Y(0,0),PSSX=+Y D DFR(+$P(^PS(50.7,DA,0),"^",2))

171 .I $G(PSSX) S ANS=$$ASK() I 'ANS Q

172 .S PSSDA(50.711,"+1,"\_DA\_",",.01)=+PSSX

173 .D UPDATE^DIE("","PSSDA")

174 .K ^TMP("PSSMR",$J)

175 D DP

176 Q

177 ASK() ; confirm adding the new entry

178 N DIR,X,Y W ! S DIR(0)="YO",DIR("B")="YES"

179 I $D(^TMP("PSSDMR",$J)),'$D(^TMP("PSSDMR",$J,"B",PSSX)) S DIR("B")="NO",DIR("A",1)="The

selected entry does not match to any of the dosage form med routes."

180 W $C(7) S DIR("A")=" Are you adding '"\_PSSXA\_"' as a new POSSIBLE MED ROUTE" D ^DIR

181 Q $S(Y=1:1,1:0)

182 DASK() ; delete possible med route

183 N DIR

184 W $C(7) S DIR("A")=" SURE YOU WANT TO DELETE ",DIR(0)="Y" D ^DIR

185 Q $S(Y=1:1,1:0)

186 MRTHLP ; help of possible med route

187 N DIC,RTE,D

188 S RTE=0 F S RTE=$O(^PS(50.7,DA,3,"B",RTE)) Q:'RTE D EN^DDIOL($P($G(^PS(51.2,RTE,0)),"

^"),,"!,?4")

189 W ! D EN^DDIOL("Enter the most common MED ROUTE associated with this Orderable Item.",,"

!,?5")

190 D EN^DDIOL("ONLY MED ROUTES MARKED FOR USE BY ALL PACKAGES ARE SELECTABLE.",,"!,?5")

191 Q

192 DP ; check the existence of Default Med Route & Possible Med Routes

193 N D,DIC,DIE,DO,DICR,DR,DIR,Q,X,Y,Z

194 I '$P($G(^PS(50.7,$S($G(PSVAR):PSVAR,1:PSOIEN),0)),"^",6)&('$O(^PS(50.7,$S($G(PSVAR):PSV

AR,1:PSOIEN),3,0))) D

195 .S PSR(1)=" You have not selected ANY med routes to display during order entry. In"

196 .S PSR(2)=" order to have med routes displayed during order entry, you must either"

197 .S PSR(3)=" define a DEFAULT MED ROUTE and/or at least one POSSIBLE MED ROUTE, or"

198 .S PSR(4)=" answer YES to the USE DOSAGE FORM MED ROUTE LIST prompt."

199 .S PSR(5)=" \*\*WITH THE CURRENT SETTINGS, NO MED ROUTES WILL DISPLAY FOR SELECTION ",PSR(

5,"F")="!!"

200 .S PSR(6)=" DURING ORDER ENTRY FOR THIS ORDERABLE ITEM\*\*"

201 .D EN^DDIOL(.PSR),EN^DDIOL(" ","","!")

202 .K DIR S DIR(0)="Y",DIR("?",1)="If you select NO, you will continue to loop back to the

Default Med Route"

203 .S DIR("?")="prompt until either a selection is made or you answer YES to this prompt to

proceed."

204 .S DIR("A",1)="",DIR("A",2)="The current setting is usually only appropriate for supply

items."

205 .S DIR("A")="Continue with NO med route displaying for selection during order entry",DIR

("B")="NO"

206 .D ^DIR K DIR W ! I 'Y!($D(DTOUT))!($D(DUOUT)) S PSSFG=1

207 .S:Y PSSFG=0

208 E S PSSFG=0

209 Q

210 ;

211 SETF ;

212 S PSSOU=0 K ^TMP("PSJMR",$J) D MEDRT^PSSJORDF($S($G(PSVAR):PSVAR,1:PSOIEN))

213 I '$D(^TMP("PSJMR",$J)) S DIE("NO^")="",PSSFG=1

214 E S PSSFG=0 K DIE("NO^")

215 Q

216 MRSEL ;

217 K ^TMP("PSJMR",$J) D MEDRT^PSSJORDF($S($G(PSVAR):PSVAR,1:PSOIEN))

218 W !,"The following Med Routes will now be displayed during order entry:"

219 N I S (PSSOU,I)=0 F S I=$O(^TMP("PSJMR",$J,I)) Q:'I W !,$P(^(I),"^",2) S PSSOU=1

220 W:'PSSOU !,"(None)"

221 W ! S PSSOU=1

222 Q

223 ;

**PSBMMRB (New)**

PSBMMRB \* \* 143 LINES, (total 5207, comments 1148) BYTES Page 1

RSUM: old 7643512, new 27545585

UCI: VISTA,ROU Site: TEST.CHEYENNE.MED.VA.GOVJUL 30,2018@12:29

1 PSBMMRB ;AITC/CR - REPORT FOR RESPIRATORY THERAPY MEDS ; 7/30/18 11:19am

2 ;;3.0;BAR CODE MED ADMIN;\*\*103\*\*;Mar 2004

3 ;Per VA Directive 6402, this routine should not be modified.

4 ;

5 ; Reference/ICR #

6 ; WIN^DGPMDDCF/1246 (supported)

7 ; File #211.4/1529 (private)

8 ; $$GET1^DIQ/2056 (supported)

9 ; WARD^NURSUT5/3052 (supported)

10 ; ^DG(40.8/2817 (controlled)

11 ; ^DG(43/6812 (private)

12 ; File #44/10040 (supported)

13 ; ^VA(200/10060 (supported)

14 ; %ZTLOAD/10063 (supported)

15 ; %ZIS/10086 (supported)

16 ; %ZISC/10089 (supported)

17 ;

18 ;=================================================================

19 EN1 ;

20 W !!,"Report for Respiratory Therapy Medications",!

21 N D0,DIC,PSBDATA,PSBDPTR,PSBDIV,PSBDVNM,PSBNAME,PSBMUDV,PSBSTIEN,X,Y

22 K ^TMP("PSBMMRB")

23 S D0=1,PSBMUDV=$S($$GET1^DIQ(43,D0,11,"I")=1:1,1:0)

24 I PSBMUDV=1 D CHK1,EN2 Q

25 I PSBMUDV=0 D ALL,EN2 Q

26 Q

27 ;

28 EN2 I $P($G(^VA(200,DUZ,2,0)),U,4)=0 W !!,$C(7),"You have no valid divisions in the NEW PERSON file." S Y="^" Q

29 I '$O(^DG(40.8,"AD",DUZ(2),"")) W !!,$C(7),"Your NEW PERSON file division was not found in the MEDICAL CENTER DIV

ISION file." S Y="^" Q

30 I Y=""!(Y<0)!(Y="^") Q

31 S PSBDIV=$P($G(^TMP("PSBMMRB",$J)),U,2)

32 S PSBNAME=$P($G(^TMP("PSBMMRB",$J)),U,3)

33 W !

34 S %DT="AE"

35 S %DT("A")="Select date of Respiratory Therapy Meds Report (eg T or T-1, etc.): "

36 D ^%DT

37 I Y'=-1 D

38 . S RDATE=Y

39 . W !!,"Please choose a 132 character printer",!

40 . W "Queuing of this report is recommended",!

41 . S %ZIS="MQ"

42 . D ^%ZIS

43 . I POP K %ZIS W !,"Device not ready" Q

44 . I $D(IO("Q")) D

45 .. S ZTRTN="EN3^PSBMMRB"

46 .. S ZTSAVE("RDATE")=""

47 .. S ZTSAVE("PSBMUDV")=""

48 .. S ZTSAVE("PSBDIV")=""

49 .. S ZTSAVE("PSBNAME")=""

50 .. S ZTDESC("Respiratory Therapy Meds Report")=""

51 .. D ^%ZTLOAD

52 D ^%ZISC

53 D EXIT

54 Q

55 ;

56 EN3 ; create new entry; note: national routine PSBO1 is modified for a new report,

57 ; at NEW+3^PSBO1 add RT code for Respiratory Therapy Meds report

58 ;

59 D NEW^PSBO1(.PSBRPT,"RT") ;for Respiratory Therapy Meds report

60 G:$P($G(PSBRPT(0)),U)<1 EXIT

61 ; edit new entry.

62 S DA=$P($G(PSBRPT(0)),U),DIE="^PSB(53.69,"

63 S DR=".06///^S X=ION;.11///W;.15=///B;.16=///"\_RDATE\_";.17=///0001;.19=///2400"

64 L +(^PSB(53.69,DA)):30 I '$T G EXIT

65 D ^DIE

66 L -(^PSB(53.69,DA))

67 ; loop through Nursing locations, edit new entry, and print.

68 S ZZA=0 F S ZZA=$O(^NURSF(211.4,ZZA)) Q:'ZZA D

69 . N PSBWRDA,PSBSTA,PTFLAG

70 . Q:'$D(^NURSF(211.4,ZZA,3,0)) ;get out if no MAS Wards exist

71 . S ZZA1=0 F S ZZA1=$O(^NURSF(211.4,ZZA,3,ZZA1)) Q:'ZZA1 D

72 .. S D0=ZZA D WIN^DGPMDDCF Q:X'=0 ; is location active or inactive?

73 .. S ZZB=$$GET1^DIQ(211.4,ZZA,.01,"I") ; pointer to file #44

74 .. ; capture the ward name

75 .. S WARD=$$GET1^DIQ(44,ZZB,.01,"E")

76 .. D WARD^NURSUT5("L^"\_ZZA,.PSBWRDA)

77 .. Q:$G(PSBWRDA)=-1

78 .. ;

79 .. S PSBSTA=+$P(PSBWRDA(ZZA,.02),U) ; station number

80 .. I (PSBMUDV=1)&(PSBDIV'=PSBSTA) Q ; single division is default

81 .. S PTFLAG=$$GET1^DIQ(211.4,ZZA,1,"I") ; patient care status flag

82 .. I (PTFLAG["A") S ^TMP($J,WARD)=""

83 .. ;

84 ; if there are no wards in the division queried, issue a blank report

85 I '$D(^TMP($J)) D Q

86 . S PSBHDR(1)="RESPIRATORY THERAPY MEDICATIONS from "\_$$FMTE^XLFDT(DT)\_"@00:01"\_" thru "\_$$FMTE^XLFDT(DT)\_"@24:00

"

87 . S PSBWRD=""

88 . D WRDHDR^PSBORT

89 . W !,"No Medications Found"

90 . Q

91 ;

92 S WARD="" F S WARD=$O(^TMP($J,WARD)) Q:WARD="" D

93 . S DA=$P($G(PSBRPT(0)),U),DIE="^PSB(53.69,"

94 . S DR=".13///^S X=WARD"

95 . L +(^PSB(53.69,DA)):30 I '$T G EXIT

96 . D ^DIE

97 . L -(^PSB(53.69,DA))

98 . D DQ^PSBO(DA)

99 Q

100 ;

101 EXIT ; clean up.

102 K DA,DIE,DR,PSBRPT,ZZWD,ZZWD1,ZZWD2,ZZWD3,RDATE

103 K D0,ZZA,ZZA1,ZZA2,ZZB,WARD,^TMP($J),^TMP("PSBMMRB",$J)

104 Q

105 ;

106 CHK1 ; The user must have at least one division from file #40.8 in his file #200 record.

107 N DIR

108 W !

109 S DIR(0)="SB^A:All Divisions;O:One Division"

110 S DIR("?")="Select either All Divisions or One Division."

111 S DIR("A")="Do you want (A)ll Divisions or just (O)ne Division"

112 S DIR("B")="O"

113 D ^DIR K DIR I $D(DUOUT)!$D(DTOUT)!$D(DIROUT)!$D(DIRUT) Q

114 I Y="" Q

115 I Y(0)="One Division" D ONE Q ; regardless user divisions in file #200

116 I Y(0)="All Divisions" S PSBMUDV=2 ; for all divisions in a multisite setup

117 Q

118 ;

119 ALL ; user gets all divisions

120 S Y(0)="All Divisions" ; all divisions selected

121 S PSBDIV=DUZ(2)

122 S PSBSTIEN=+$O(^DG(40.8,"AD",DUZ(2),"")) ; current IEN for station

123 S Y=$$GET1^DIQ(40.8,PSBSTIEN,.01,"E")

124 I '$D(Y) S Y=DUZ(2)

125 S PSBNAME=$$NAME^XUAF4(DUZ(2))

126 S PSBMUDV=0

127 S ^TMP("PSBMMRB",$J)=PSBMUDV\_U\_PSBDIV\_U\_PSBNAME

128 Q

129 ;

130 ONE ; when user selects one division from many in file #200, look at file #40.8 for a match if available

131 W !

132 S PSBSTIEN=+$O(^DG(40.8,"AD",DUZ(2),"")) ; current IEN for station

133 S PSBDVNM=$$GET1^DIQ(40.8,PSBSTIEN,.01,"I") ;division name

134 S DIC("B")=PSBDVNM

135 S DIC("A")="Select Division: ",DIC="^DG(40.8,",DIC(0)="AEMQ",DIC("S")="I $$SITE^VASITE(,+Y)>0"

136 D ^DIC

137 ; capture the division name and number after user selection

138 S PSBNAME=$$GET1^DIQ(40.8,+Y,.01,"E")

139 S PSBDPTR=$$GET1^DIQ(40.8,+Y,.07,"I") ; pointer to file #4

140 S PSBDIV=PSBDPTR

141 S ^TMP("PSBMMRB",$J)=PSBMUDV\_U\_PSBDIV\_U\_PSBNAME

142 Q

143 ;

**PSBORT (New)**

PSBORT \* \* 183 LINES, (total 8766, comments 754) BYTES Page 1

RSUM: old 19350916, new 69496290

UCI: VISTA,ROU Site: TEST.CHEYENNE.MED.VA.GOVAUG 3,2018@09:52

1 PSBORT ;AITC/CR - REPORT FOR RESPIRATORY THERAPY MEDS ;6/29/18 2:18pm

2 ;;3.0;BAR CODE MED ADMIN;\*\*103\*\*;Mar 2004

3 ;Per VA Directive 6402, this routine should not be modified.

4 ;

5 ;SLC/KB Modified PSBOMM for Resp Therapy Meds report

6 ;

7 ; Reference/IA

8 ; EN^PSJBCMA/2828 (private)

9 ; EN^PSJBCMA2/2830 (private)

10 ; ^DPT/10035 (supported)

11 ;=========================================================

12 EN ; called from DQ^PSBO

13 N PSBSTRT,PSBSTOP,DFN,PSBODATE,PSBFLAG,PSBCNT

14 K ^TMP("PSJ",$J),^TMP("PSB",$J),^TMP("PSB1",$J)

15 S PSBSTRT=$P(PSBRPT(.1),U,6)+$P(PSBRPT(.1),U,7)-.0000001

16 S PSBSTOP=$P(PSBRPT(.1),U,6)+$P(PSBRPT(.1),U,9)

17 S PSBODATE=$P(PSBRPT(.1),U,6)

18 F DFN=0:0 S DFN=$O(^TMP("PSBO",$J,DFN)) Q:'DFN D EN1

19 D PRINT

20 K ^TMP("PSJ",$J),^TMP("PSB",$J),^TMP("PSBO",$J)

21 Q

22 ;

23 EN1 ; expects DFN,PSBSTRT,PSBSTOP from EN

24 N PSBGBL,PSBHDR,PSBX,PSBDFN,PSBDT,PSBEVDT,PSBHOUR

25 K ^TMP("PSJ",$J) S PSBEVDT=PSBSTRT

26 D EN^PSJBCMA(DFN,PSBSTRT)

27 Q:^TMP("PSJ",$J,1,0)=-1

28 S PSBX=""

29 F S PSBX=$O(^TMP("PSJ",$J,PSBX)) Q:PSBX="" D

30 .Q:^TMP("PSJ",$J,PSBX,0)=-1 ; no Orders

31 .D CLEAN^PSBVT

32 .D PSJ^PSBVT(PSBX)

33 .; check for a respiratory therapy drug

34 .Q:$$GET1^DIQ(50.7,PSBOIT,15,"I")'="Y" ;not a resp terapy drug, PSBOIT set in ^PSBVT above

35 .Q:PSBIVT="A" ; No Admix or Hyp.

36 .Q:PSBIVT="H"

37 .I PSBIVT["S",PSBISYR'=1 Q ; allow intermittent syringe only

38 .I PSBIVT["C",PSBCHEMT'="P",PSBISYR'=1 Q

39 .I PSBIVT["C",PSBCHEMT="A" Q ; allow Chemo with intermittent syringe or Piggyback type only

40 .Q:PSBONX["P" ;no pending orders

41 .I PSBSCHT="C" D Q ; Only Continuous

42 ..S (PSBYES,PSBODD)=0

43 ..S PSBDOW="SU^MO^TU^WE^TH^FR^SA" F I=1:1:7 I $P(PSBDOW,"^",I)=$E(PSBSCH,1,2) S PSBYES=1

44 ..I PSBYES,PSBADST="" Q

45 ..F I=1:1 Q:$P(PSBSCH,"-",I)="" I $P(PSBSCH,"-",I)?2N!($P(PSBSCH,"-",I)?4N) S PSBYES=1

46 ..S PSBFREQ=$$GETFREQ^PSBVDLU1(DFN,PSBONX)

47 ..I PSBFREQ="O" S PSBYES=1

48 ..I 'PSBYES,PSBADST="",PSBFREQ<1 Q

49 ..I (PSBFREQ#1440'=0),(1440#PSBFREQ'=0) S PSBODD=1

50 ..I PSBODD,PSBADST'="" Q

51 ..Q:PSBOSTS["D" ;discontinued

52 ..Q:PSBNGF ; marked DO NOT GIVE

53 ..Q:PSBOSTS="N"

54 ..Q:PSBSM ;Self med

55 ..S PSBCADM=0

56 ..I PSBADST="" S PSBADST=$$GETADMIN^PSBVDLU1(DFN,PSBONX,PSBOST,PSBFREQ,PSBEVDT) Q:PSBADST="" S PSBCADM=1

57 ..E K ^TMP("PSB",$J,"GETADMIN") S ^TMP("PSB",$J,"GETADMIN",0)=PSBADST

58 ..; invalid admin times

59 ..F Y=1:1:$L(PSBADST,"-") D

60 ...Q:($P(PSBADST,"-",Y)'?2N)&($P(PSBADST,"-",Y)'?4N)

61 ..; below is (Order Start Date, Report Date, Schedule)

62 ..Q:'$$OKAY^PSBVDLU1(PSBOST,PSBODATE,PSBSCH,PSBONX,$P(^TMP("PSJ",$J,PSBX,3),U,2),PSBFREQ,PSBOSTS) ; Screens QOD

type stuff

63 ..K PSBOACTL,TMP("PSB1",$J) D EN^PSJBCMA2(DFN,PSBONX,1) I ^TMP("PSJ2",$J,0)'=1 M PSBOACTL=^TMP("PSJ2",$J) K ^TMP(

"PSJ2",$J)

64 ..F PSBXX=0:1 Q:'$D(^TMP("PSB",$J,"GETADMIN",PSBXX)) S PSBADST=$G(^TMP("PSB",$J,"GETADMIN",PSBXX)) D

65 ...F Y=1:1:$L(PSBADST,"-") D

66 ....S PSBDT=+("."\_$P(PSBADST,"-",Y))+(PSBSTRT\1)

67 ....Q:PSBDT<PSBOST ; order Start Date

68 ....Q:PSBDT'<PSBOSP ; order Stop Date

69 ....Q:PSBDT<PSBSTRT ; report Window

70 ....Q:PSBDT>PSBSTOP ; report Window

71 ....I $D(^PSB(53.79,"AORD",DFN,PSBONX,PSBDT)) D I PSBSTUS'="N",PSBSTUS'="M" Q ; if it is on the log quit, conti

nue if status is "NOT GIVEN" or "MISSING"

72 .....S PSBINDX=$O(^PSB(53.79,"AORD",DFN,PSBONX,PSBDT,"")),PSBSTUS=$P(^PSB(53.79,PSBINDX,0),U,9)

73 ....S ^TMP("PSB",$J,DFN,PSBDT,PSBOITX,PSBONX)=""

74 ....D UDCONT

75 ....I PSBFLAG=1 S ^TMP("PSB",$J,DFN,PSBDT,PSBOITX,PSBONX)="(On Hold) "\_$$FMTE^XLFDT(PSBHDDT)

76 ....I PSBFLAG=2 S ^TMP("PSB",$J,DFN,PSBDT,PSBOITX,PSBONX)="(On Hold) "\_$$FMTE^XLFDT(PSBHDDT)\_" "\_"(Off Hold) "\_$

$FMTE^XLFDT(PSBUNHD) Q

77 .K PSBHDDT,PSBUNHD,^TMP("PSB1",$J)

78 .I PSBSCHT="O" D Q

79 ..Q:PSBOSTS["D"!(PSBOSTS="N") ; discontinued

80 ..Q:PSBNGF ; Marked DO NOT GIVE

81 ..Q:PSBSM ;self med

82 ..; is the One Time Given?

83 ..Q:PSBOSP=PSBOST ;expired one-time

84 ..Q:PSBOST'<PSBSTOP

85 ..Q:PSBOSP<PSBSTRT

86 ..S (PSBGVN,X,Y)=""

87 ..F S X=$O(^PSB(53.79,"AOIP",DFN,PSBOIT,X),-1) Q:'X D

88 ...F S Y=$O(^PSB(53.79,"AOIP",DFN,PSBOIT,X,Y),-1) Q:'Y D

89 ....I $P(^PSB(53.79,Y,.1),U)=PSBONX,$P(^PSB(53.79,Y,0),U,9)'="N",$P(^PSB(53.79,Y,0),U,9)'="M" S PSBGVN=1,(X,Y)=0

90 ..; how long does One Time remain on the this report ??

91 ..D NOW^%DTC

92 ..S PSBRMN=1

93 ..I PSBSCHT="O",PSBOSP'=PSBOST&(%>PSBOSP) S PSBRMN=0

94 ..D:('PSBGVN)&(PSBRMN)

95 ...S VAR=""

96 ...K ^TMP("PSJ2",$J),^TMP("PSB1",$J),PSBOACTL D EN^PSJBCMA2(DFN,PSBONX,1) I ^TMP("PSJ2",$J,0)'=1 D

97 ....M PSBOACTL=^TMP("PSJ2",$J)

98 ....D UDONE

99 ....I PSBFLAG=1 S VAR="(On Hold) "\_$$FMTE^XLFDT(PSBHDDT)

100 ....I PSBFLAG=2 S VAR="(On Hold) "\_$$FMTE^XLFDT(PSBHDDT)\_" (Off Hold) "\_$$FMTE^XLFDT(PSBUNHD)

101 ...S VAR=VAR\_U\_$TR($$FMTE^XLFDT(PSBOST,2),"@"," ")

102 ...S VAR=VAR\_U\_$TR($$FMTE^XLFDT(PSBOSP,2),"@"," ")

103 ...S $P(^TMP("PSB",$J,DFN,"\*\*\* ONE-TIME \*\*\*",PSBOITX,PSBONX),U,1,4)=VAR

104 ...K PSBHDDT,PSBUNHD,^TMP("PSB1",$J),PSBCNT

105 K PSBOACTL

106 Q

107 ;

108 PRINT ; print meds stored in ^TMP("PSB",$J,DFN,....

109 N DFN,PSBHDR,PSBDT,PSBOITX,PSBONX

110 ; print by Ward

111 D:$P(PSBRPT(.1),U,1)="W"

112 .S PSBHDR(1)="RESPIRATORY THERAPY MEDICATIONS from "\_$$FMTE^XLFDT($P(PSBRPT(.1),U,6)+$P(PSBRPT(.1),U,7))\_" thru

"\_$$FMTE^XLFDT($P(PSBRPT(.1),U,6)+$P(PSBRPT(.1),U,9))

113 .W $$WRDHDR()

114 .I '$O(^TMP("PSB",$J,0)) W !,"No Medications Found" Q

115 .S PSBSORT=$P(PSBRPT(.1),U,5)

116 .F DFN=0:0 S DFN=$O(^TMP("PSB",$J,DFN)) Q:'DFN D

117 ..S PSBINDX=$S(PSBSORT="P":$P(^DPT(DFN,0),U),1:$G(^DPT(DFN,.1))\_" "\_$G(^(.101)))

118 ..S:PSBINDX="" PSBINDX=$P(^DPT(DFN,0),U)

119 ..S ^TMP("PSB",$J,"B",PSBINDX,DFN)=""

120 .S PSBINDX=""

121 .F S PSBINDX=$O(^TMP("PSB",$J,"B",PSBINDX)) Q:PSBINDX="" D

122 ..F DFN=0:0 S DFN=$O(^TMP("PSB",$J,"B",PSBINDX,DFN)) Q:'DFN D

123 ...W ! ; line break between patients

124 ...S PSBDT=""

125 ...F S PSBDT=$O(^TMP("PSB",$J,DFN,PSBDT)) Q:PSBDT="" D

126 ....;W ! ; line break between admin times, double-spacing of output

127 ....S PSBOITX=""

128 ....F S PSBOITX=$O(^TMP("PSB",$J,DFN,PSBDT,PSBOITX)) Q:PSBOITX="" D

129 .....S PSBONX=""

130 .....F S PSBONX=$O(^TMP("PSB",$J,DFN,PSBDT,PSBOITX,PSBONX)) Q:PSBONX="" D

131 ......I $Y>(IOSL-5) W $$WRDHDR()

132 ......W !,+PSBONX,$S(PSBONX["U":"UD",PSBONX["V":"IV",1:"")

133 ......W ?10,$G(^DPT(DFN,.101),"\*\*")

134 ......W ?30,$P(^DPT(DFN,0),U)," (",$E($P(^(0),U,9),6,9),")"

135 ......I PSBDT["ONE-TIME" D Q

136 .......W !,PSBDT,?30,PSBOITX," ",$P(^TMP("PSB",$J,DFN,PSBDT,PSBOITX,PSBONX),U,1)

137 .......W !,"Start Date/Time: ",?30,$P(^TMP("PSB",$J,DFN,PSBDT,PSBOITX,PSBONX),U,2)

138 .......W !,"Stop Date/Time: ",?30,$P(^TMP("PSB",$J,DFN,PSBDT,PSBOITX,PSBONX),U,3)

139 .......;W ! ; stop double space

140 ......W ?74,$S(PSBDT:$$FMTE^XLFDT(PSBDT,2),1:PSBDT),?90,PSBOITX

141 ......W " ",^TMP("PSB",$J,DFN,PSBDT,PSBOITX,PSBONX)

142 Q

143 ;

144 WRDHDR() --

; ward header

145 D WARD^PSBOHDR1(PSBWRD,.PSBHDR)

146 W !,"Ord Num",?10,"Room-Bed",?30,"Patient",?74,"Admin Date/Time",?90,"Medication"

147 W !,$TR($J("",IOM)," ","-")

148 Q ""

149 ;

150 UDCONT ;

151 S PSBFLAG=0,J=1

152 K ^TMP("PSB1",$J)

153 F I=1:1:$P(PSBOACTL(0),U,4) D

154 . I $P($G(PSBOACTL(I,1)),U,4)["ON HOLD"!($P($G(PSBOACTL(I,1)),U,4)="HOLD") S ^TMP("PSB1",$J,DFN,J)="HOLD"\_U\_$E($P

($G(PSBOACTL(I,1)),U,1),1,12)

155 . I $P($G(PSBOACTL(I,1)),U,4)["TAKEN OFF HOLD"!($P($G(PSBOACTL(I,1)),U,4)["UNHOLD") S $P(^TMP("PSB1",$J,DFN,J),U,

3)="OFF HOLD"\_U\_$E($P($G(PSBOACTL(I,1)),U,1),1,12),J=J+1

156 D:$D(^TMP("PSB1",$J,DFN))&($P(PSBOACTL(0),U,4)'=1)

157 .S J=0 F S J=$O(^TMP("PSB1",$J,DFN,J)) Q:'J Q:PSBFLAG D

158 ..S PSBHDDT=$P(^TMP("PSB1",$J,DFN,J),U,2)

159 ..S PSBHDST=$P(^TMP("PSB1",$J,DFN,J),U)

160 ..S PSBOFDT=$P(^TMP("PSB1",$J,DFN,J),U,4)

161 ..S PSBOFST=$P(^TMP("PSB1",$J,DFN,J),U,3)

162 ..I PSBDT>PSBHDDT,PSBHDST="HOLD",PSBOFST'="" I PSBDT<PSBOFDT,PSBOFST="OFF HOLD" S PSBFLAG=2,PSBUNHD=PSBOFDT

163 ..I PSBDT>PSBHDDT,PSBHDST="HOLD",PSBOFST="" S PSBFLAG=1

164 K PSBCNT,TMP("PSB1",$J)

165 Q

166 ;

167 UDONE ;

168 S PSBFLAG=0,J=1

169 F I=1:1:$P(PSBOACTL(0),U,4) D

170 .I $P($G(PSBOACTL(I,1)),U,4)["ON HOLD"!($P($G(PSBOACTL(I,1)),U,4)="HOLD") S ^TMP("PSB1",$J,DFN,J)="HOLD"\_U\_$E($P(

$G(PSBOACTL(I,1)),U,1),1,12)

171 .I $P($G(PSBOACTL(I,1)),U,4)["TAKEN OFF HOLD"!($P($G(PSBOACTL(I,1)),U,4)["UNHOLD") S $P(^TMP("PSB1",$J,DFN,J),U,3

)="OFF HOLD"\_U\_$E($P($G(PSBOACTL(I,1)),U,1),1,12),J=J+1

172 D:$D(^TMP("PSB1",$J,DFN))&($P(PSBOACTL(0),U,4)'=1)

173 .S J="" F S J=$O(^TMP("PSB1",$J,DFN,J)) Q:'J Q:PSBFLAG D

174 ..S PSBHDDT=$P(^TMP("PSB1",$J,DFN,J),U,2)

175 ..S PSBHDST=$P(^TMP("PSB1",$J,DFN,J),U)

176 ..S PSBOFDT=$P(^TMP("PSB1",$J,DFN,J),U,4)

177 ..S PSBOFST=$P(^TMP("PSB1",$J,DFN,J),U,3)

178 ..I PSBOSTS="A",PSBHDST="HOLD",PSBOFST'="",'$D(^TMP("PSB1",$J,DFN,J+1)) I PSBSTOP>PSBOFDT,PSBOFST="OFF HOLD" S PS

BFLAG=2,PSBUNHD=PSBOFDT

179 ..I PSBOSTS="A",PSBHDST="HOLD",PSBOFST'="",PSBOFDT'<PSBSTOP S PSBFLAG=1

180 ..I PSBOSTS="H",PSBHDST="HOLD",'$D(^TMP("PSB1",$J,DFN,J+1)) S PSBFLAG=1

181 K PSBCNT,^TMP("PSB1",$J)

182 Q

183 ;

**PSBOHDR1 (New)**

PSBOHDR1 \* \* 37 LINES, (total 1472, comments 347) BYTES Page 1

RSUM: old 1844416, new 3387869

UCI: VISTA,ROU Site: TEST.CHEYENNE.MED.VA.GOVJUL 30,2018@11:16

1 PSBOHDR1 --

;AITC/CR - REPORT FOR RESPIRATORY THERAPY MEDS ; 7/30/18 12:32pm

2 ;;3.0;BAR CODE MED ADMIN;\*\*103\*\*;Mar 2004;Build 5

3 ;Per VA Directive 6402, this routine should not be modified.

4 ;

5 WARD(PSBWP,PSBHDR,PSBCONT,PSBDT,SRCHTXT) --

; called from PSBORT

6 ; PSBWP: Nurse Location File IEN (optional)

7 ; PSBHDR: array for header

8 ; PSBCONT: True if this is a continuation page

9 ; PSBDT: Date of Pt Information (Default to DT)

10 ; SRCHTXT: search text - optional

11 ;

12 N PSBMODE,PSBWRDA,Y

13 S:'$G(PSBDT) PSBDT=DT

14 I '$D(PSBHDR("DATE")) D NOW^%DTC S Y=+$E(%,1,12) D D^DIQ S PSBHDR("DATE")="Run Date: "\_Y

15 S:'$D(PSBHDR("PAGE")) PSBHDR("PAGE")=0

16 W:$Y>1 @IOF

17 W:$X>0 !

18 W $TR($J("",IOM)," ","=")

19 W !,$G(PSBHDR(0))

20 S PSBMODE="Include Inpatient Orders Only"

21 I $G(PSBHDR(0))]"" W !,PSBMODE

22 W $G(PSBHDR(1)),?102,PSBHDR("DATE")

23 I $G(PSBHDR(0))="" W !,PSBMODE

24 S PSBHDR("PAGE")=PSBHDR("PAGE")+1

25 W $G(PSBHDR(2)),?103,$J("Page: "\_PSBHDR("PAGE"),10)

26 F X=3:1 Q:'$D(PSBHDR(X)) D

27 . W !,PSBHDR(X)

28 . I PSBHDR(X)["Clinic Search" W $$WRAP^PSBO(21,111,SRCHTXT)

29 . I PSBHDR(X)["Ward Location" W SRCHTXT

30 I $G(PSBCONT) W !?(IOM-35\2),"\*\*\* CONTINUED FROM PREVIOUS PAGE \*\*\*"

31 I $G(PSBMUDV)=1 S X="Division: "\_PSBNAME D HDR1 Q ; Div prompt

32 I $G(PSBMUDV)=2 S X="Division: "\_"ALL" D HDR1 Q ; Div prompt

33 I $G(PSBMUDV)=0 S X="Division: "\_$$NAME^XUAF4(DUZ(2)) D HDR1 Q ; no Div prompt, single site support

34 Q

35 HDR1 ;

36 W !,X,!,$TR($J("",IOM)," ","=")

37 Q

**PSB3P103 (New)**

PSB3P103 \* \* 33 LINES, (total 1108, comments 454) BYTES Page 1

RSUM: old 1271364, new 2124804

UCI: VISTA,ROU Site: TEST.CHEYENNE.MED.VA.GOVMAY 24,2018@15:24

1 PSB3P103 --

;AITC/CR - POST INIT FOR PATCH PSB\*3\*103 ;2/27/18 9:18am

2 ;;3.0;BAR CODE MED ADMIN;\*\*103\*\*;Mar 2004

3 ;Per VA Directive 6402, this routine should not be modified

4 ;

5 ; call to: $$ADD^XPDMENU - supported by ICR #1157

6 ; BMES^XPDUTL - supported by ICR #10141

7 ;

8 POST ; set up the new option for the report 'Report for Respiratory Therapists',

9 ; the option name is [PSB RPT RESP THERAPY MEDS] and the menu receiving it is

10 ; [PSB PHARMACY]

11 ;

12 D BMES^XPDUTL("Starting Post-installation operations for patch PSB\*3.0\*103...")

13 D ADD1

14 D EXIT

15 Q

16 ;

17 ADD1 ; update menu [PSB PHARMACY]

18 N PSBOK,PSBSYN

19 S PSBSYN=12

20 S PSBOK=$$ADD^XPDMENU("PSB PHARMACY","PSB RPT RESP THERAPY MEDS",PSBSYN)

21 I PSBOK=1 D

22 . D BMES^XPDUTL("[PSB RPT RESP THERAPY MEDS] Option is part of [PSB PHARMACY]")

23 E D G ERR

24 . D BMES^XPDUTL("Couldn't add option [PSB RPT RESP THERAPY MEDS] to [PSB PHARMACY]")

25 Q

26 ;

27 ERR ; alert the user if there is an error

28 D BMES^XPDUTL("Unable to attach the menu option")

29 Q

30 ;

31 EXIT ;

32 D BMES^XPDUTL("Finished Post-installation of patch PSB\*3.0\*103.")

33 Q