Existing Product Intake Program (EPIP)

Patch PSB\*3.0\*100

Remediation Plan



Department of Veterans Affairs

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Version 2.0

Revision History

| Date | Version | Description | Author |
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| 10/27/2017 | 2.0 | Updated patch description; added XINDEX to Appendix A and routine code to Appendix B | EPIP Project Team |
| 04/03/2017 | 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 patch PSB\*3.0\*100. This patch addresses the following NSR:

* NSR20161208 *Missing Dose Report by Division*

This NSR has been implemented locally at VA Medical Centers in Milwaukee WI, Memphis TN, and the New York/New Jersey VA Health Care Network.

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

# Patch Description

Patch PSB\*3.0\*100 enables Pharmacy personnel to display unresolved missing dose requests for a single division within a multidivisional site when using the Missing Dose Followup [PSB MISSING DOSE FOLLOWUP] option in VistA. Division selection is enabled when the site is defined as multidivisional in the MAS PARAMETER (#43) file. If the site is multidivisional, then the user can select one or all divisions when displaying missing dose requests. If the site is not multidivisional, then there is no change to existing functionality; reporting procedures and results for single-division sites are not affected by this patch.

If a user at a multidivisional site enters “O” (One) at the “Do you want ‘A’ll Divisions or just ‘O’ne Division:” prompt, then VistA displays the “Select Division:” prompt. The prompt defaults to the division used for VistA login. The user can accept the default or enter “?” to choose from a list of site divisions. The divisions available for selection are those in the MEDICAL CENTER DIVISION (#40.8) file. If a multidivisional user selects all divisions, then missing dose requests for all divisions in the MEDICAL CENTER DIVISION file are displayed.

Currently, the Missing Dose Followup option lists missing dose requests for patients across all divisions at a multidivisional site. Users must manually search through multiple screens to select patients from their division who require follow-up. This enhancement adds the new DIVAS cross reference for the BCMA MISSING DOSE REQUEST (#53.68) file, enabling the Missing Dose Followup option to sort and present file entries by status (Unresolved) and division. At the end of the installation process, this file will be re-indexed with the new cross reference. No user action is required to start the re-indexing operation.

By filtering the display of missing dose requests by division, this modification helps ensure the timely reporting and administration of missed medication doses.

## Business Epics and Sub-Epics

The Business Epics and Sub-Epics for NSR20161208 *Missing Dose Report by Division* are:

* BUSINESS EPIC 867172: Missing Dose Report By Division – For Clinicians who monitor the missing dose report to determine/validate accurate medication administration, a mechanism is needed to filter the Missing Dose Report that identifies patients by specific divisions, thereby improving safety through timely administration and enables action to be taken (if necessary) for missed doses of medication. Unlike the current report that lists all patients of multidivisional sites regardless of their division, our process promotes efficiencies by allowing clinicians to monitor the patient’s missed medication administration by the division for which they are responsible.

# Points of Contact

The VA Point of Contact (POC) for NSR20161208 *Missing Dose Report by Division* is Robert Silverman ([PII](mailto:PII)), PII

# 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://dns/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://dns/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 NSR20161208 *Missing Dose Report by Division* are in the following routines:

**Modified MUMPS routine:** PSBMD

**New MUMPS routine:** PSB3P100

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. 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 (RQM) “EPIP” Project. In order to perform testing of this VistA modification, the following tools will be leveraged: RQM, Reflections emulator, CPRS GUI v31 (1.0.30.75), 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:/DNS/vdl/](http://DNS/vdl/). Keyword searches using terms relevant to this remediation effort will be used to identify documents that might be impacted; those documents were 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:

* *Bar Code Medication Administration (BCMA) Pharmacy CHUI User Manual*
* *Bar Code Medication Administration (BCMA) Manager’s User Manual*

## Installation Guides

The *National Patch Module Patch Description* document for this remediation will provide the procedure for installing KIDS packages migrated from the test environment to the VA   
Pre-Production environments. Therefore, no Installation Guides will be updated.

## Technical Manuals

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

## 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 containing the software changes necessary to fulfill the requirements for this remediation effort. A KIDS package, along with all related documentation, will be delivered to the Contracting Office Representative (COR) for acceptance. If accepted, the KIDS package 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 60 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.

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 10, 2017@07:22:14

All Routines? No => No

Routine:

0 routines

Select BUILD NAME: PSB\*3.0\*100 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//^

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 10, 2017@07:22:34

All Routines? No => No

Routine: PSBMD

Routine: PSB3P100

Routine:

2 routines

Select BUILD NAME:

Select INSTALL NAME:

Select PACKAGE NAME:

Print more than compiled errors and warnings? YES//

Print summary only? NO//

Print routines? YES//N

Print errors and warnings with each routine? YES//

Save parameters in ROUTINE file? NO//

Index all called routines? NO//

DEVICE: ;80;60 HOME (CRT)

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 10, 2017@07:22:34

Routines: 2 Faux Routines: 0

PSB3P100 PSBMD

--- CROSS REFERENCING ---

Press return to continue:

Compiled list of Errors and Warnings May 10, 2017@07:22:34 page 1

No errors or warnings to report

--- END ---

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 routine:** PSBMD

**New MUMPS routine:** PSB3P100

**PSBMD**

**Before:**

PSBMD \* \* 246 LINES, (total 10470, comments 1454) BYTES Page 1

RSUM: old 19151963, new 90525242

UCI: VISTA,ROU Site: DNS.URL 31,2017@13:23

1 PSBMD ;BIRMINGHAM/EFC - BCMA MISSING DOSE FUNCTIONS ;11/15/12 2:54pm

2 ;;3.0;BAR CODE MED ADMIN;\*\*23,42,70\*\*;Mar 2004;Build 101

3 ;

4 ; Reference/IA

5 ; ^DIC(42/10039

6 ; ^DPT(/10035

7 ; IN5^VADPT/10061

8 ; DEM^VADPT/10061

9 ; ^XMB/10070

10 ; 52.6/436

11 ; 52.7/437

12 ;

13 ;\*70 - add new kernel variable for CO Missing Dose Printer.

14 ; use Clinc name if passed in for the new field Clinic or

15 ; assume Ward and get ien.

16 ;

17 RPC(RESULTS,PSBDFN,PSBDRUG,PSBDOSE,PSBRSN,PSBADMIN,PSBNEED,PSBUID,PSBON,PSBSCHD,PSBCLIN,PSBCLNIEN) --

;

18 ;

19 ; RPC: PSB SUBMIT MISSING DOSE

20 ;

21 ; Description:

22 ; Allows the client to submit a missing dose interactively

23 ;

24 N DFN,PSBNOW,PSBFDA,PSBIENS,PSBMD,PSBMSG

25 S PSBCLNIEN=+$G(PSBCLNIEN) ;\*70 insure numeric

26 D NEW(.PSBMD)

27 I +PSBMD(0)<1 S RESULTS(0)="-1^Unable to create missing dose request" Q

28 S PSBIENS=+PSBMD(0)\_","

29 D NOW^%DTC S PSBNOW=%

30 S PSBFDA(53.68,PSBIENS,.02)=PSBNOW

31 S PSBFDA(53.68,PSBIENS,.03)=DUZ

32 S PSBFDA(53.68,PSBIENS,.04)=DUZ(2)

33 S PSBFDA(53.68,PSBIENS,.11)=PSBDFN

34 ; Ward or Clinic - use Clinic name if passed, else get Ward ien. \*70

35 I PSBCLIN]"" D

36 .S PSBFDA(53.68,PSBIENS,1)=PSBCLNIEN

37 E D

38 .S X=$G(^DPT(PSBDFN,.1))

39 .I X]"" S X=$O(^DIC(42,"B",X,0)) S:X PSBFDA(53.68,PSBIENS,.12)=X

40 .S DFN=PSBDFN D IN5^VADPT S PSBFDA(53.68,PSBIENS,.18)=$P(VAIP(6),U,1)

41 S PSBFDA(53.68,PSBIENS,.13)=PSBDRUG

42 S PSBFDA(53.68,PSBIENS,.14)=PSBDOSE

43 S PSBFDA(53.68,PSBIENS,.15)=PSBRSN

44 S PSBFDA(53.68,PSBIENS,.16)=PSBADMIN

45 S PSBFDA(53.68,PSBIENS,.17)=PSBNEED

46 S PSBFDA(53.68,PSBIENS,.19)=PSBSCHD

47 S PSBFDA(53.68,PSBIENS,.25)=PSBUID

48 D FILE^DIE("","PSBFDA","PSBMSG")

49 L +^PSB(53.68,+PSBIENS):$S($G(DILOCKTM)>0:DILOCKTM,1:3) ; PSB\*3\*23

50 I $G(PSBUID)'="" D

51 .D PSJ1^PSBVT(PSBDFN,PSBON) K PSBADA,PSBSOLA

52 .I '$D(PSBUIDA(PSBUID)) F D PSJ1^PSBVT(PSBDFN,PSBPONX) K PSBADA,PSBSOLA Q:$D(PSBUIDA(PSBUID)) Q:PSBPONX=""

53 .F I=1:1 S PSBAD=$P(PSBUIDA(PSBUID),U,I) Q:PSBAD="" I PSBAD["ADD" S PSBADA($P(PSBAD,";",2))=""

54 .I $D(PSBADA) S X="" F I=1:1 S X=$O(PSBADA(X)) Q:X="" S PSBFDA(53.686,I\_","\_PSBIENS,.01)=X,^PSB(53.68,+PSBIENS,.

6,I,0)=I

55 .F I=1:1 S PSBSOL=$P(PSBUIDA(PSBUID),U,I) Q:PSBSOL="" I PSBSOL["SOL" S PSBSOLA($P(PSBSOL,";",2))=""

56 .I $D(PSBSOLA) S X="" F I=1:1 S X=$O(PSBSOLA(X)) Q:X="" S PSBFDA(53.687,I\_","\_PSBIENS,.01)=X,^PSB(53.68,+PSBIENS

,.7,I,0)=I

57 I $G(PSBUID)="",$G(PSBDRUG)="" D

58 .D PSJ1^PSBVT(PSBDFN,PSBON)

59 .I $D(PSBADA) S X="" F I=1:1 S X=$O(PSBADA(X)) Q:X="" S PSBFDA(53.686,I\_","\_PSBIENS,.01)=$P(PSBADA(X),U,2),^PSB(

53.68,+PSBIENS,.6,I,0)=X

60 .I $D(PSBSOLA) S X="" F I=1:1 S X=$O(PSBSOLA(X)) Q:X="" S PSBFDA(53.687,I\_","\_PSBIENS,.01)=$P(PSBSOLA(X),U,2),^P

SB(53.68,+PSBIENS,.7,I,0)=X

61 D FILE^DIE("","PSBFDA","PSBMSG")

62 L -^PSB(53.68,+PSBIENS) ; PSB83\*23

63 D SUBMIT(+PSBIENS)

64 S RESULTS(0)="1^Missing Dose Submitted^"\_+PSBIENS

65 D CLEAN^PSBVT

66 Q

67 ;

68 XQ ; Called via Kernel Menus

69 N PSBMD,PSBSAVE,DA,DIK,DR,DDSFILE,XMY,XMTEXT,XMSUB

70 D NEW(.PSBMD)

71 I +PSBMD(0)<1 W !,"Error: ",$P(PSBMD(0),U,2) S DIR(0)="E" D ^DIR Q

72 S DA=+PSBMD(0),DR="[PSB MISSING DOSE REQUEST]",DDSFILE=53.68 D ^DDS

73 W @IOF

74 I 'PSBSAVE W !,"Cancelling Request..." S DIK="^PSB(53.68," D ^DIK W "Cancelled!"

75 D:PSBSAVE SUBMIT(DA)

76 Q

77 ;

78 SUBMIT(DA) --

; Submit Request to Pharmacy

79 N PSBWRD,PSBMG,PSBPRT,CLIEN

80 S PSBWRD=$P(^PSB(53.68,DA,.1),U,2)

81 S PSBWRD=+$G(^DIC(42,+PSBWRD,44))

82 I PSBCLIN]"" S CLIEN=+$O(^PS(53.46,"B",PSBCLNIEN,""))

83 ;

84 ; Get Mail Group

85 ;

86 S PSBMG=$$GET^XPAR(PSBWRD\_";SC(","PSB MG MISSING DOSE",,"E")

87 S:PSBMG="" PSBMG=$$GET^XPAR("DIV","PSB MG MISSING DOSE",,"E")

88 S $P(^PSB(53.68,DA,0),U,5)=PSBMG ; Add MG to notification

89 ;

90 ; Get Printer - If NO printer can be found, then DO NOT print!!

91 ;\*70 - get CO printer if Clinic orders, else IM med & get IM printer

92 ; IM printer uses Variable PSB PRINTER MISSING DOSE

93 ; CO printer can come from 3 sources:

94 ; 1st from Clinic Defintion file for the specific Clinic if defined

95 ; 2nd from the Variable PSB PRINTER CO MISSING DOSE if defined

96 ; 3rd just use the IM med printer Variable.

97 ;

98 D:PSBCLIN]"" ;\*70

99 .S PSBPRT=$$GET1^DIQ(53.46,CLIEN,4)

100 .S:PSBPRT="" PSBPRT=$$GET^XPAR("DIV","PSB PRINTER CO MISSING DOSE",,"E")

101 .S:PSBPRT="" PSBPRT=$$GET^XPAR("DIV","PSB PRINTER MISSING DOSE",,"E")

102 D:PSBCLIN="" ;\*70

103 .S PSBPRT=$$GET^XPAR(PSBWRD\_";SC(","PSB PRINTER MISSING DOSE",,"E")

104 .S:PSBPRT="" PSBPRT=$$GET^XPAR("DIV","PSB PRINTER MISSING DOSE",,"E")

105 ;

106 S $P(^PSB(53.68,DA,0),U,6)=PSBPRT ; Add MG to notification

107 ;

108 ; Send the report to the specified printer

109 ;

110 D:PSBPRT]""

111 .W !,"Submitting Request To Pharmacy on device ",PSBPRT,"..."

112 .D NOW^%DTC

113 .S ZTIO=PSBPRT

114 .S ZTDTH=%

115 .S ZTDESC="BCMA - MISSING DOSE REQUEST"

116 .S ZTRTN="DQ^PSBMD("\_DA\_")"

117 .D ^%ZTLOAD

118 .W "Done!"

119 ;

120 ; Send the same stuff to the mail group

121 ;

122 D:PSBMG]""

123 .W !,"Notifying Pharmacy via Mail Group ",PSBMG,"..."

124 .D HFSOPEN^PSBUTL("MISSING DOSE")

125 .U IO D DQ(DA,1)

126 .D HFSCLOSE^PSBUTL("MISSING DOSE")

127 .S XMY("G."\_PSBMG)="",XMTEXT="^TMP(""PSBO"",$J,"

128 .S XMSUB="BCMA - Missing Dose Request"

129 .D ^XMD

130 .W "Done!"

131 Q

132 ;

133 DQ(PSBMD,PSBMM) --

; Dequeue report from Taskman

134 N PSBFLD,PSBRET

135 Q:'$D(^PSB(53.68,PSBMD,0))

136 L +^PSB(53.68,PSBMD):$S($G(DILOCKTM)>0:DILOCKTM,1:3) ; PSB\*3\*23

137 S PSBCFLD=$P(^PSB(53.68,PSBMD,.1),U,3)

138 L -^PSB(53.68,PSBMD) ; PSB\*3\*23

139 D:'$G(PSBMM) ; It is not a mail message

140 .W !,$TR($J("",75)," ","=")

141 .W !,"Report: MISSING DOSE REQUEST"

142 .W !,"Date Created: " D NOW^%DTC S Y=% D D^DIQ W Y

143 .W !,$TR($J("",75)," ","="),!

144 I $G(PSBCFLD)'="" F PSBFLD=.01,.02,.03,.04,.05,.06,.11,.12,.18,1,.13,.14,.19,.15,.16,.17 D OUT ;\*70

145 I $G(PSBCFLD)="" F PSBFLD=.01,.02,.03,.04,.05,.06,.11,.12,.18,1,.25,.15,.19,.16,.17 D OUT ;\*70

146 I $D(^PSB(53.68,PSBMD,.6)) S X=0 F S X=$O(^PSB(53.68,PSBMD,.6,X)) Q:'X W !?3,"ADDITIVE: ",$$GET1^DIQ(52.6,+^PS

B(53.68,PSBMD,.6,X,0),.01)

147 I $D(^PSB(53.68,PSBMD,.7)) S X=0 F S X=$O(^PSB(53.68,PSBMD,.7,X)) Q:'X W !?3,"SOLUTION: ",$$GET1^DIQ(52.7,+^PS

B(53.68,PSBMD,.7,X,0),.01)

148 Q

149 OUT ;

150 D FIELD^DID(53.68,PSBFLD,"","LABEL","PSBRET")

151 W !?3,PSBRET("LABEL"),":" F Q:$X>30 W "."

152 W $$GET1^DIQ(53.68,PSBMD\_",",PSBFLD)

153 I PSBFLD=.11 D

154 .N DFN,VA,VADM S DFN=$$GET1^DIQ(53.68,PSBMD\_",",.11,"I") D DEM^VADPT

155 .W !?3,$$GET^XPAR("ALL","PSB PATIENT ID LABEL")

156 .I $G(DUZ("AG"))="I" D

157 ..W ":" F Q:$X>30 W "."

158 .E D

159 ..W " (LAST 4 NUMBERS):" F Q:$X>30 W "."

160 .W VA("BID")

161 W:PSBFLD=.13 " ("\_$P($G(^PSB(53.68,PSBMD,.1)),U,3)\_")"

162 S ZTREQ="@"

163 Q

164 ;

165 NEW(RESULTS) --

; Create a new missing dose request

166 ; Called interactively and via RPCBroker

167 N DIC

168 K RESULTS

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

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

171 ; Lock Log

172 L +^PSB(53.68,0):$S($G(DILOCKTM)>0:DILOCKTM,1:3)

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

174 ; Generate Unique Entry and Create

175 F D NOW^%DTC S X=$E(%\_"000000",1,14),X=(1700+$E(X,1,3))\_$E(X,4,14),X="MD-"\_$TR(X,".","-") Q:'$D(^PSB(53.68,"B",X

))

176 S DIC="^PSB(53.68,",DIC(0)="L"

177 S DIC("DR")=".02///N;.03////^S X=DUZ;.04////^S X=DUZ(2);.07///1"

178 K D0 ;VRN

179 D FILE^DICN

180 L -^PSB(53.68,0)

181 ; Okay, setup return and Boogie

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

183 E S RESULTS(0)=Y

184 Q

185 ;

186 VAL(PSBFLDS) --

; Validate that fields in PSBFLDS are filled in

187 N PSB,PSBFLD,PSBMSG

188 F PSB=1:1 Q:$P(PSBFLDS,";",PSB)="" S PSBFLD=$P(PSBFLDS,";",PSB),PSBFLD(PSBFLD)=$$GET^DDSVAL(53.68,DA,PSBFLD)

189 I $D(PSBFLD(.21)) K:PSBFLD(.21)="N" PSBFLD(.22),PSBFLD(.23)

190 S PSB="" F S PSB=$O(PSBFLD(PSB)) Q:PSB="" D:PSBFLD(PSB)=""

191 .I '$D(PSBMSG) S PSBMSG(0)="UNABLE TO FILE REQUEST",PSBMSG(1)=" ",PSBMSG(2)="ERROR: MISSING DATA - ALL FIELDS ARE

REQUIRED"

192 .D FIELD^DID(53.68,PSB,"","TITLE;LABEL","PSB")

193 .S X=" Missing Field: "\_$S(PSB("TITLE")]"":PSB("TITLE"),1:PSB("LABEL")),PSBMSG($O(PSBMSG(""),-1)+1)=X

194 Q:'$D(PSBMSG) ; All is well

195 D MSG^DDSUTL(.PSBMSG)

196 S DDSERROR=1

197 Q

198 ;

199 FLWUP ; Follow-Up on missing dose

200 N DIR,PSBIEN,PSBX,DA,DR,DDSFILE,PSBHDR,PSBDRUG,LOC ;\*70

201 S Y="" F Q:Y="^" D

202 .K ^TMP("PSB",$J) S X=""

203 .F S X=$O(^PSB(53.68,"AS",1,X),-1) Q:'X S Y=$O(^TMP("PSB",$J,""),-1)+1,^TMP("PSB",$J,Y)=X,^TMP("PSB",$J,0)=Y

204 .I '$O(^TMP("PSB",$J,0)) W !!,"No Unresolved Missing Dose Requests Found." S Y="^" Q

205 .S PSBHDR="Currently Unresolved Missing Dose Requests"

206 .W @IOF,PSBHDR,!,$TR($J("",IOM)," ","-")

207 .F PSBX=0:0 S PSBX=$O(^TMP("PSB",$J,PSBX)) Q:'PSBX!(Y="^") S PSBIEN=^(PSBX)\_"," D

208 ..W !,$J(PSBX,2),". ",$$GET1^DIQ(53.68,PSBIEN,.01)

209 ..W ?25,$$GET1^DIQ(53.68,PSBIEN,.11)

210 ..; get correct location ;\*70

211 ..S LOC=$S($$GET1^DIQ(53.68,PSBIEN,1)]"":$$GET1^DIQ(53.68,PSBIEN,1),1:$$GET1^DIQ(53.68,PSBIEN,.12))

212 ..W ?57,LOC ;\*70

213 ..S PSBDRUG=$$GET1^DIQ(53.68,PSBIEN,.13)

214 ..I PSBDRUG]"" W !?5,PSBDRUG

215 ..I PSBDRUG="" D

216 ...W !?5,"UNIQUE ID: ",$$GET1^DIQ(53.68,PSBIEN,.25)

217 ...S X=0 F S X=$O(^PSB(53.68,+PSBIEN,.6,X)) Q:'X W !?10,"ADDITIVES: ",$$GET1^DIQ(52.6,+^PSB(53.68,+PSBIEN,.6,X

,0),.01)

218 ...S X=0 F S X=$O(^PSB(53.68,+PSBIEN,.7,X)) Q:'X W !?10,"SOLUTIONS: ",$$GET1^DIQ(52.7,+^PSB(53.68,+PSBIEN,.7,X

,0),.01)

219 ..S:$Y>(IOSL-4) Y=$$PAGE(PSBX)

220 .S:Y'="^" Y=$$PAGE(PSBX)

221 Q

222 PAGE(PSBIX) --

;

223 ;

224 N X,X1,PSBCX,PSBDX

225 S DIR("A")="Select Missing Dose Request # (<RET> to continue, '^' to quit)"

226 I PSBIX="" S DIR("A")="Select Missing Dose Request # (<RET> or '^' to quit)"

227 S DIR(0)="NO^1:"\_$S(PSBIX="":$O(^TMP("PSB",$J,PSBX),-1),1:PSBIX)\_":0"

228 D ^DIR S PSBDX=+Y

229 I PSBIX="",Y="" S Y="^" Q Y

230 I $G(DTOUT) S Y="^" Q Y

231 I Y="^" Q Y

232 I Y="" W @IOF,PSBHDR,!,$TR($J("",IOM)," ","-") Q Y

233 S (DA,PSBCX)=^TMP("PSB",$J,+Y),DR="[PSB MISSING DOSE FOLLOWUP]",DDSFILE=53.68

234 D Q Y

235 .D ^DDS

236 .I $D(^PSB(53.68,"AS",0,PSBCX)) K ^TMP("PSB",$J) S X="" F S X=$O(^PSB(53.68,"AS",1,X),-1) Q:'X S X1=$O(^TMP("PS

B",$J,""),-1)+1,^TMP("PSB",$J,X1)=X,^TMP("PSB",$J,0)=X1

237 .S PSBX=0 W @IOF,PSBHDR,!,$TR($J("",IOM)," ","-")

238 ;

239 POST ;call from 'Patient' field of screenman form PSB MISSING DOSE REQUEST

240 ;

241 N DFN

242 S DFN=X D IN5^VADPT

243 D PUT^DDSVAL(DIE,.DA,.12,$P(VAIP(5),U,2)) ; value of DIE is 53.68, BCMA MISSING DOSE REQUEST FILE called from Sc

reenMan

244 D PUT^DDSVAL(DIE,.DA,.18,$P(VAIP(6),U,1),"","I") ; value of DIE is 53.68, BCMA MISSING DOSE REQUEST FILE called

from ScreenMan

245 D REFRESH^DDSUTL

246 Q

**After:**

PSBMD \* \* 321 LINES, (total 13830, comments 2534) BYTES Page 1

RSUM: old 26048029, new 151152763

UCI: VISTA,ROU Site: DNS.URL 16,2017@15:04

1 PSBMD ;BIRMINGHAM/EFC - BCMA MISSING DOSE FUNCTIONS ; 9/26/17 3:25pm

2 ;;3.0;BAR CODE MED ADMIN;\*\*23,42,70,100\*\*;Mar 2004;Build 101

3 ;

4 ; Reference/IA

5 ; ^DIC(42/10039

6 ; ^DPT(/10035

7 ; IN5^VADPT/10061

8 ; DEM^VADPT/10061

9 ; ^XMB/10070

10 ; 52.6/436

11 ; 52.7/437

12 ; ^DG(40.8/417

13 ; 4/2171

14 ; ^DG(40.8/2817

15 ; ^VA(200/10060

16 ; ^DIC(4/10090

17 ; ^DG(43/6812

18 ;

19 ;\*70 - add new kernel variable for CO Missing Dose Printer.

20 ; use Clinc name if passed in for the new field Clinic or

21 ; assume Ward and get ien.

22 ;

23 RPC(RESULTS,PSBDFN,PSBDRUG,PSBDOSE,PSBRSN,PSBADMIN,PSBNEED,PSBUID,PSBON,PSBSCHD,PSBCLIN,PSBCLNIEN) --

;

24 ;

25 ; RPC: PSB SUBMIT MISSING DOSE

26 ;

27 ; Description:

28 ; Allows the client to submit a missing dose interactively

29 ;

30 N DFN,PSBNOW,PSBFDA,PSBIENS,PSBMD,PSBMSG

31 S PSBCLNIEN=+$G(PSBCLNIEN) ;\*70 insure numeric

32 D NEW(.PSBMD)

33 I +PSBMD(0)<1 S RESULTS(0)="-1^Unable to create missing dose request" Q

34 S PSBIENS=+PSBMD(0)\_","

35 D NOW^%DTC S PSBNOW=%

36 S PSBFDA(53.68,PSBIENS,.02)=PSBNOW

37 S PSBFDA(53.68,PSBIENS,.03)=DUZ

38 S PSBFDA(53.68,PSBIENS,.04)=DUZ(2)

39 S PSBFDA(53.68,PSBIENS,.11)=PSBDFN

40 ; Ward or Clinic - use Clinic name if passed, else get Ward ien. \*70

41 I PSBCLIN]"" D

42 .S PSBFDA(53.68,PSBIENS,1)=PSBCLNIEN

43 E D

44 .S X=$G(^DPT(PSBDFN,.1))

45 .I X]"" S X=$O(^DIC(42,"B",X,0)) S:X PSBFDA(53.68,PSBIENS,.12)=X

46 .S DFN=PSBDFN D IN5^VADPT S PSBFDA(53.68,PSBIENS,.18)=$P(VAIP(6),U,1)

47 S PSBFDA(53.68,PSBIENS,.13)=PSBDRUG

48 S PSBFDA(53.68,PSBIENS,.14)=PSBDOSE

49 S PSBFDA(53.68,PSBIENS,.15)=PSBRSN

50 S PSBFDA(53.68,PSBIENS,.16)=PSBADMIN

51 S PSBFDA(53.68,PSBIENS,.17)=PSBNEED

52 S PSBFDA(53.68,PSBIENS,.19)=PSBSCHD

53 S PSBFDA(53.68,PSBIENS,.25)=PSBUID

54 D FILE^DIE("","PSBFDA","PSBMSG")

55 L +^PSB(53.68,+PSBIENS):$S($G(DILOCKTM)>0:DILOCKTM,1:3) ; PSB\*3\*23

56 I $G(PSBUID)'="" D

57 .D PSJ1^PSBVT(PSBDFN,PSBON) K PSBADA,PSBSOLA

58 .I '$D(PSBUIDA(PSBUID)) F D PSJ1^PSBVT(PSBDFN,PSBPONX) K PSBADA,PSBSOLA Q:$D(PSBUIDA(PSBUID)) Q:PSBPONX=""

59 .F I=1:1 S PSBAD=$P(PSBUIDA(PSBUID),U,I) Q:PSBAD="" I PSBAD["ADD" S PSBADA($P(PSBAD,";",2))=""

60 .I $D(PSBADA) S X="" F I=1:1 S X=$O(PSBADA(X)) Q:X="" S PSBFDA(53.686,I\_","\_PSBIENS,.01)=X,^PSB(53.68,+PSBIENS,.

6,I,0)=I

61 .F I=1:1 S PSBSOL=$P(PSBUIDA(PSBUID),U,I) Q:PSBSOL="" I PSBSOL["SOL" S PSBSOLA($P(PSBSOL,";",2))=""

62 .I $D(PSBSOLA) S X="" F I=1:1 S X=$O(PSBSOLA(X)) Q:X="" S PSBFDA(53.687,I\_","\_PSBIENS,.01)=X,^PSB(53.68,+PSBIENS

,.7,I,0)=I

63 I $G(PSBUID)="",$G(PSBDRUG)="" D

64 .D PSJ1^PSBVT(PSBDFN,PSBON)

65 .I $D(PSBADA) S X="" F I=1:1 S X=$O(PSBADA(X)) Q:X="" S PSBFDA(53.686,I\_","\_PSBIENS,.01)=$P(PSBADA(X),U,2),^PSB(

53.68,+PSBIENS,.6,I,0)=X

66 .I $D(PSBSOLA) S X="" F I=1:1 S X=$O(PSBSOLA(X)) Q:X="" S PSBFDA(53.687,I\_","\_PSBIENS,.01)=$P(PSBSOLA(X),U,2),^P

SB(53.68,+PSBIENS,.7,I,0)=X

67 D FILE^DIE("","PSBFDA","PSBMSG")

68 L -^PSB(53.68,+PSBIENS) ; PSB83\*23

69 D SUBMIT(+PSBIENS)

70 S RESULTS(0)="1^Missing Dose Submitted^"\_+PSBIENS

71 D CLEAN^PSBVT

72 Q

73 ;

74 XQ ; Called via Kernel Menus

75 N PSBMD,PSBSAVE,DA,DIK,DR,DDSFILE,XMY,XMTEXT,XMSUB

76 D NEW(.PSBMD)

77 I +PSBMD(0)<1 W !,"Error: ",$P(PSBMD(0),U,2) S DIR(0)="E" D ^DIR Q

78 S DA=+PSBMD(0),DR="[PSB MISSING DOSE REQUEST]",DDSFILE=53.68 D ^DDS

79 W @IOF

80 I 'PSBSAVE W !,"Cancelling Request..." S DIK="^PSB(53.68," D ^DIK W "Cancelled!"

81 D:PSBSAVE SUBMIT(DA)

82 Q

83 ;

84 SUBMIT(DA) --

; Submit Request to Pharmacy

85 N PSBWRD,PSBMG,PSBPRT,CLIEN

86 S PSBWRD=$P(^PSB(53.68,DA,.1),U,2)

87 S PSBWRD=+$G(^DIC(42,+PSBWRD,44))

88 I PSBCLIN]"" S CLIEN=+$O(^PS(53.46,"B",PSBCLNIEN,""))

89 ;

90 ; Get Mail Group

91 ;

92 S PSBMG=$$GET^XPAR(PSBWRD\_";SC(","PSB MG MISSING DOSE",,"E")

93 S:PSBMG="" PSBMG=$$GET^XPAR("DIV","PSB MG MISSING DOSE",,"E")

94 S $P(^PSB(53.68,DA,0),U,5)=PSBMG ; Add MG to notification

95 ;

96 ; Get Printer - If NO printer can be found, then DO NOT print!!

97 ;\*70 - get CO printer if Clinic orders, else IM med & get IM printer

98 ; IM printer uses Variable PSB PRINTER MISSING DOSE

99 ; CO printer can come from 3 sources:

100 ; 1st from Clinic Defintion file for the specific Clinic if defined

101 ; 2nd from the Variable PSB PRINTER CO MISSING DOSE if defined

102 ; 3rd just use the IM med printer Variable.

103 ;

104 D:PSBCLIN]"" ;\*70

105 .S PSBPRT=$$GET1^DIQ(53.46,CLIEN,4)

106 .S:PSBPRT="" PSBPRT=$$GET^XPAR("DIV","PSB PRINTER CO MISSING DOSE",,"E")

107 .S:PSBPRT="" PSBPRT=$$GET^XPAR("DIV","PSB PRINTER MISSING DOSE",,"E")

108 D:PSBCLIN="" ;\*70

109 .S PSBPRT=$$GET^XPAR(PSBWRD\_";SC(","PSB PRINTER MISSING DOSE",,"E")

110 .S:PSBPRT="" PSBPRT=$$GET^XPAR("DIV","PSB PRINTER MISSING DOSE",,"E")

111 ;

112 S $P(^PSB(53.68,DA,0),U,6)=PSBPRT ; Add MG to notification

113 ;

114 ; Send the report to the specified printer

115 ;

116 D:PSBPRT]""

117 .W !,"Submitting Request To Pharmacy on device ",PSBPRT,"..."

118 .D NOW^%DTC

119 .S ZTIO=PSBPRT

120 .S ZTDTH=%

121 .S ZTDESC="BCMA - MISSING DOSE REQUEST"

122 .S ZTRTN="DQ^PSBMD("\_DA\_")"

123 .D ^%ZTLOAD

124 .W "Done!"

125 ;

126 ; Send the same stuff to the mail group

127 ;

128 D:PSBMG]""

129 .W !,"Notifying Pharmacy via Mail Group ",PSBMG,"..."

130 .D HFSOPEN^PSBUTL("MISSING DOSE")

131 .U IO D DQ(DA,1)

132 .D HFSCLOSE^PSBUTL("MISSING DOSE")

133 .S XMY("G."\_PSBMG)="",XMTEXT="^TMP(""PSBO"",$J,"

134 .S XMSUB="BCMA - Missing Dose Request"

135 .D ^XMD

136 .W "Done!"

137 Q

138 ;

139 DQ(PSBMD,PSBMM) --

; Dequeue report from Taskman

140 N PSBFLD,PSBRET

141 Q:'$D(^PSB(53.68,PSBMD,0))

142 L +^PSB(53.68,PSBMD):$S($G(DILOCKTM)>0:DILOCKTM,1:3) ; PSB\*3\*23

143 S PSBCFLD=$P(^PSB(53.68,PSBMD,.1),U,3)

144 L -^PSB(53.68,PSBMD) ; PSB\*3\*23

145 D:'$G(PSBMM) ; It is not a mail message

146 .W !,$TR($J("",75)," ","=")

147 .W !,"Report: MISSING DOSE REQUEST"

148 .W !,"Date Created: " D NOW^%DTC S Y=% D D^DIQ W Y

149 .W !,$TR($J("",75)," ","="),!

150 I $G(PSBCFLD)'="" F PSBFLD=.01,.02,.03,.04,.05,.06,.11,.12,.18,1,.13,.14,.19,.15,.16,.17 D OUT ;\*70

151 I $G(PSBCFLD)="" F PSBFLD=.01,.02,.03,.04,.05,.06,.11,.12,.18,1,.25,.15,.19,.16,.17 D OUT ;\*70

152 I $D(^PSB(53.68,PSBMD,.6)) S X=0 F S X=$O(^PSB(53.68,PSBMD,.6,X)) Q:'X W !?3,"ADDITIVE: ",$$GET1^DIQ(52.6,+^PS

B(53.68,PSBMD,.6,X,0),.01)

153 I $D(^PSB(53.68,PSBMD,.7)) S X=0 F S X=$O(^PSB(53.68,PSBMD,.7,X)) Q:'X W !?3,"SOLUTION: ",$$GET1^DIQ(52.7,+^PS

B(53.68,PSBMD,.7,X,0),.01)

154 Q

155 OUT ;

156 D FIELD^DID(53.68,PSBFLD,"","LABEL","PSBRET")

157 W !?3,PSBRET("LABEL"),":" F Q:$X>30 W "."

158 W $$GET1^DIQ(53.68,PSBMD\_",",PSBFLD)

159 I PSBFLD=.11 D

160 .N DFN,VA,VADM S DFN=$$GET1^DIQ(53.68,PSBMD\_",",.11,"I") D DEM^VADPT

161 .W !?3,$$GET^XPAR("ALL","PSB PATIENT ID LABEL")

162 .I $G(DUZ("AG"))="I" D

163 ..W ":" F Q:$X>30 W "."

164 .E D

165 ..W " (LAST 4 NUMBERS):" F Q:$X>30 W "."

166 .W VA("BID")

167 W:PSBFLD=.13 " ("\_$P($G(^PSB(53.68,PSBMD,.1)),U,3)\_")"

168 S ZTREQ="@"

169 Q

170 ;

171 NEW(RESULTS) --

; Create a new missing dose request

172 ; Called interactively and via RPCBroker

173 N DIC

174 K RESULTS

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

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

177 ; Lock Log

178 L +^PSB(53.68,0):$S($G(DILOCKTM)>0:DILOCKTM,1:3)

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

180 ; Generate Unique Entry and Create

181 F D NOW^%DTC S X=$E(%\_"000000",1,14),X=(1700+$E(X,1,3))\_$E(X,4,14),X="MD-"\_$TR(X,".","-") Q:'$D(^PSB(53.68,"B",X

))

182 S DIC="^PSB(53.68,",DIC(0)="L"

183 S DIC("DR")=".02///N;.03////^S X=DUZ;.04////^S X=DUZ(2);.07///1"

184 K D0 ;VRN

185 D FILE^DICN

186 L -^PSB(53.68,0)

187 ; Okay, setup return and Boogie

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

189 E S RESULTS(0)=Y

190 Q

191 ;

192 VAL(PSBFLDS) --

; Validate that fields in PSBFLDS are filled in

193 N PSB,PSBFLD,PSBMSG

194 F PSB=1:1 Q:$P(PSBFLDS,";",PSB)="" S PSBFLD=$P(PSBFLDS,";",PSB),PSBFLD(PSBFLD)=$$GET^DDSVAL(53.68,DA,PSBFLD)

195 I $D(PSBFLD(.21)) K:PSBFLD(.21)="N" PSBFLD(.22),PSBFLD(.23)

196 S PSB="" F S PSB=$O(PSBFLD(PSB)) Q:PSB="" D:PSBFLD(PSB)=""

197 .I '$D(PSBMSG) S PSBMSG(0)="UNABLE TO FILE REQUEST",PSBMSG(1)=" ",PSBMSG(2)="ERROR: MISSING DATA - ALL FIELDS ARE

REQUIRED"

198 .D FIELD^DID(53.68,PSB,"","TITLE;LABEL","PSB")

199 .S X=" Missing Field: "\_$S(PSB("TITLE")]"":PSB("TITLE"),1:PSB("LABEL")),PSBMSG($O(PSBMSG(""),-1)+1)=X

200 Q:'$D(PSBMSG) ; All is well

201 D MSG^DDSUTL(.PSBMSG)

202 S DDSERROR=1

203 Q

204 ;

205 CHK1 ; Start PSB\*3\*100 changes: use 'DIVAS' cross ref for multidivision sites

206 ; DUZ(2), the user's division, is set at sign-on. At multidivision sites where a user has access

207 ; to multiple divisions, allow selection of a division from the divisions defined in file #40.8.

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

209 K ^TMP("PSBMD",$J)

210 N DIR

211 W !

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

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

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

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

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

217 I Y="" Q

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

219 I Y(0)="All Divisions" D ALL Q

220 Q

221 ;

222 ALL ; user gets all divisions (current behavior); applicable to single division sites as well

223 S Y(0)="All Divisions"

224 S PSBDIV=DUZ(2)

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

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

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

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

229 S PSBMUDV=0

230 S ^TMP("PSBMD",$J)=PSBMUDV\_U\_PSBDIV\_U\_PSBNAME

231 Q

232 ;

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

234 W !

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

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

237 S DIC("B")=PSBDVNM

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

239 D ^DIC

240 ; capture the division name and number after user selection

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

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

243 S PSBDIV=PSBDPTR

244 S ^TMP("PSBMD",$J)=PSBMUDV\_U\_PSBDIV\_U\_PSBNAME

245 Q

246 ;end of changes for PSB\*3\*100

247 ;

248 FLWUP ; Follow-Up on missing dose

249 ; start PSB\*3\*100 changes

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

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

252 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

253 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

254 I PSBMUDV=1 D CHK1

255 I PSBMUDV=0 D ALL

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

257 S PSBDIV=$P($G(^TMP("PSBMD",$J)),U,2)

258 S PSBNAME=$P($G(^TMP("PSBMD",$J)),U,3)

259 ; end of changes for PSB\*3\*100

260 N DIR,PSBIEN,PSBX,DA,DR,DDSFILE,PSBHDR,PSBDRUG,LOC ;\*70

261 S Y="" F Q:Y="^" D

262 .K ^TMP("PSB",$J) S X=""

263 .;start PSB\*3\*100 changes: user did not select one division and will see all the records (single station function

ality)

264 .I $G(PSBMUDV)=0 D

265 ..F S X=$O(^PSB(53.68,"AS",1,X),-1) Q:'X S Y=$O(^TMP("PSB",$J,""),-1)+1,^TMP("PSB",$J,Y)=X,^TMP("PSB",$J,0)=Y

266 .;

267 .; user selected one division

268 .I $G(PSBMUDV)=1 D

269 ..F S X=$O(^PSB(53.68,"DIVAS",1,PSBDIV,X),-1) Q:'X S Y=$O(^TMP("PSB",$J,""),-1)+1,^TMP("PSB",$J,Y)=X,^TMP("PSB"

,$J,0)=Y

270 .;

271 .I '$O(^TMP("PSB",$J,0)) W !!,"No Unresolved Missing Dose Requests Found." S Y="^" Q

272 .I $G(PSBMUDV)=0 S PSBHDR="Currently Unresolved Missing Dose Requests"

273 .I $G(PSBMUDV)=1 S PSBHDR="Currently Unresolved Missing Dose Requests for: "\_PSBNAME

274 .;end of changes for PSB\*3\*100

275 .W @IOF,PSBHDR,!,$TR($J("",IOM)," ","-")

276 .F PSBX=0:0 S PSBX=$O(^TMP("PSB",$J,PSBX)) Q:'PSBX!(Y="^") S PSBIEN=^(PSBX)\_"," D

277 ..W !,$J(PSBX,2),". ",$$GET1^DIQ(53.68,PSBIEN,.01)

278 ..W ?25,$$GET1^DIQ(53.68,PSBIEN,.11)

279 ..; get correct location ;\*70

280 ..S LOC=$S($$GET1^DIQ(53.68,PSBIEN,1)]"":$$GET1^DIQ(53.68,PSBIEN,1),1:$$GET1^DIQ(53.68,PSBIEN,.12))

281 ..W ?57,LOC ;\*70

282 ..S PSBDRUG=$$GET1^DIQ(53.68,PSBIEN,.13)

283 ..I PSBDRUG]"" W !?5,PSBDRUG

284 ..I PSBDRUG="" D

285 ...W !?5,"UNIQUE ID: ",$$GET1^DIQ(53.68,PSBIEN,.25)

286 ...S X=0 F S X=$O(^PSB(53.68,+PSBIEN,.6,X)) Q:'X W !?10,"ADDITIVES: ",$$GET1^DIQ(52.6,+^PSB(53.68,+PSBIEN,.6,X

,0),.01)

287 ...S X=0 F S X=$O(^PSB(53.68,+PSBIEN,.7,X)) Q:'X W !?10,"SOLUTIONS: ",$$GET1^DIQ(52.7,+^PSB(53.68,+PSBIEN,.7,X

,0),.01)

288 ..S:$Y>(IOSL-4) Y=$$PAGE(PSBX)

289 .S:Y'="^" Y=$$PAGE(PSBX)

290 K ^TMP("PSB",$J),^TMP("PSBMD",$J) ; PSB\*3\*100

291 Q

292 ;

293 PAGE(PSBIX) --

;

294 ;

295 N X,X1,PSBCX,PSBDX

296 S DIR("A")="Select Missing Dose Request # (<RET> to continue, '^' to quit)"

297 I PSBIX="" S DIR("A")="Select Missing Dose Request # (<RET> or '^' to quit)"

298 S DIR(0)="NO^1:"\_$S(PSBIX="":$O(^TMP("PSB",$J,PSBX),-1),1:PSBIX)\_":0"

299 D ^DIR S PSBDX=+Y

300 I PSBIX="",Y="" S Y="^" Q Y

301 I $G(DTOUT) S Y="^" Q Y

302 I Y="^" Q Y

303 I Y="" W @IOF,PSBHDR,!,$TR($J("",IOM)," ","-") Q Y

304 S (DA,PSBCX)=^TMP("PSB",$J,+Y),DR="[PSB MISSING DOSE FOLLOWUP]",DDSFILE=53.68

305 D Q Y

306 .D ^DDS

307 .; start changes for PSB\*3\*100

308 .I $G(PSBMUDV)=0,$D(^PSB(53.68,"AS",0,PSBCX)) K ^TMP("PSB",$J) S X="" F S X=$O(^PSB(53.68,"AS",1,X),-1) Q:'X S

X1=$O(^TMP("PSB",$J,""),-1)+1,^TMP("PSB",$J,X1)=X,^TMP("PSB",$J,0)=X1

309 .I $G(PSBMUDV)=1,$D(^PSB(53.68,"DIVAS",0,PSBCX)) K ^TMP("PSB",$J) S X="" F S X=$O(^PSB(53.68,"DIVAS",1,PSBDIV,X)

,-1) Q:'X S X1=$O(^TMP("PSB",$J,""),-1)+1,^TMP("PSB",$J,X1)=X,^TMP("PSB",$J,0)=X1

310 .; stop printing header twice (old bug) by checking PSBX before setting it to zero.

311 .I PSBX>0 S PSBX=0 W @IOF,PSBHDR,!,$TR($J("",IOM)," ","-")

312 ; end of changes for PSB\*3\*100

313 ;

314 POST ;call from 'Patient' field of screenman form PSB MISSING DOSE REQUEST

315 ;

316 N DFN

317 S DFN=X D IN5^VADPT

318 D PUT^DDSVAL(DIE,.DA,.12,$P(VAIP(5),U,2)) ; value of DIE is 53.68, BCMA MISSING DOSE REQUEST FILE called from Sc

reenMan

319 D PUT^DDSVAL(DIE,.DA,.18,$P(VAIP(6),U,1),"","I") ; value of DIE is 53.68, BCMA MISSING DOSE REQUEST FILE called

from ScreenMan

320 D REFRESH^DDSUTL

321 Q

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

**PSB3P100 (New)**

PSB3P100 \* \* 14 LINES, (total 644, comments 329) BYTES Page 1

RSUM: old 541442, new 721273

UCI: VISTA,ROU Site: DNS.URL 1,2017@07:23

1 PSB3P100 --

;AITC/CR - Post installation for Patch 100 ;4/5/17 10:40 am

2 ;;3.0;BAR CODE MED ADMIN;\*\*100\*\*;Mar 2004

3 ;

4 ; This routine is used with the New-Style cross reference

5 ; 'DIVAS' in file #53.68 to re-index the entire file so that multi-division

6 ; sites can run the report 'Missing Dose Followup' by division

7 POST ; prepare entries for 'Missing Dose Followup' sorted by Status and Division

8 D BMES^XPDUTL(">>> Post-Init: Re-indexing of file #53.68 in progress...")

9 N DIK

10 S DIK="^PSB(53.68,"

11 S DIK(1)=".04^DIVAS" ; only need one field for the combined cross ref

12 D ENALL^DIK

13 D BMES^XPDUTL(">>> Post-Init completed!")

14 Q