

MEDICATION ROUTE CHANGES

RELEASE NOTES

PSS*1*88 PSJ*5*159 PSB*3*38

July 2007

UistA Health Systems Design & Development

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Introduction

There have been several patient safety incidents (PSI) reported that revolved around Medication Route information. This series of patches is designed to address the issue of the Medication Route being blank on the Bar Code Medication Administration (BCMA) Virtual Due List (VDL).

In order to correct this problem, the decision was made to always display the full medication route, rather than only an abbreviation, on the VDL and the Order Detail. During research for this PSI, it was determined that another issue existed with the Medication Route abbreviation. The decision on whether or not to prompt for an injection was based on a certain combination of characters being contained in the Medication Route abbreviation. These patches also address this issue.

Three patches work together to perform these tasks.

- Patch PSS*1*88 adds a prompt to the PSS MEDICATION ROUTES input template. A new field (#8), PROMPT FOR INJ. SITE IN BCMA, is added to the MEDICATION ROUTES file (#51.2).
- Patch PSJ*5*159 sends the value of this new field to BCMA, as well as adding the Medication Route full name to both of the BCMA Application Programming Interfaces (API)s.
- Patch PSB*3*38 uses this new information to display full name on the VDL and order detail. In addition, it uses the new information supplied to prompt.for an injection site.

Pharmacy Data Management Changes

Patch PSS*1*88 adds prompts for an injection site in Bar Code Medication Administration (BCMA) and for displaying the IVP/IVPB tab in BCMA. The screen below illustrates these prompts:

Select OPTION NAME: PSS MEDICATION ROUTES EDIT Medication Route File Enter/Edit	Medication Route File Enter/Edit
Select MEDICATION ROUTES NAME: INTRAVE 1 INTRAVENOUS IV 2 INTRAVENOUS INFILTRATION MISCELLANEOUS 3 INTRAVENOUS INH MISC IV INH MISC 4 INTRAVENOUS INHALATION MISCELLANEOUS 5 INTRAVENOUS INTRA-ARTERIAL IV IAER Press <return> to see more, 'A' to exit this list, OR CHOOSE 1-5: 1 INTRAVENOUS IV NAME: INTRAVENOUS// ABBREVIATION: IV// PACKAGE USE: ALL PACKAGES// OUTPATIENT EXPANSION: OTHER LANGUAGE EXPANSION: IV FLAG: YES// PROMPT FOR INJ. SITE IN BCMA: // DSPLY ON IVP/IVPB TAB IN BCMA? //</return>	IV IF MISC IV INH MISC

There is no default for these two new prompts. Responses can be:

- **NO** or **0**
- **YES** or **1**

Post-Install Routine

In order to assist the Pharmacy staff with the updating of the new field, a post-install routine has been added to the PSS*1*88 patch. This routine will search for all medication routes that contain **IV**, **SC**, **IM** or ... in the ABBREVIATION field (#1) of the MEDICATION ROUTES file (#51.2).

The list of medication routes is sent to the person installing the patch. The message should be forwarded to the appropriate Pharmacy personnel.

Medication Route Changes

With the installation of Patch PSB*3*38, the Coversheet display in BCMA now looks as illustrated below.

🖀 Bar Code Medication Adr	ninistration - v3.0.13.15 - Pat	ient Context is .	Joined			
File View Reports Due List	Tools Help					
Missing Dose Medication Log	Medication Admin History Allergies	CPRS Med 0	rder 📗 Flag			
PSPATIENT,ONE (MALE) SSN = 666-66-0000 DOB = 1/26/1940 (67) Height = 170cm, Weight = 7 Location = NH 4 1C-115A	'9.55kg		Virtual Due List Parame Start Time: 03/06@0700	eters: Stop Time: 03/06@0900 🔽	Schedule Types:	O 🔽 On-Cal O 🔽 One-Ime
ALLERGIES: no allergy assess	sment ADRs: No ADRs on file					
Vie <u>w</u> : Medication Overview	 Display Gridlines 					
Active [1]	,	,	,	,		,
VDL Tab Status Type ⊕ UD Active C	ASPIRIN TAB	Schedule Q6H	Dosage, Route 325 MG, BY MOUTH	Next Action MISSED 02/28@1900	Special Instructions	Order Stop Date 05/29@2400
UD Active C Future [0]	ASPIRIN TAB	Q6H	325 MG, BY MUUTH	MISSED 02/28@1900		05723@2400
Expired/DC'd [1]						
VDL Tab Status Type	Medication	Schedule	Dosage, Route	Next Action	Special Instructions	Order Stop Date
	NICOTINE T-DERMAL PATCH	Q4H	1 PATCH, TOPICAL			03/01@0928
Cover Sheet 🕒 Unit Dose 📿) IVP/IVPB O IV					
Scanner Scan	Medication <u>B</u> ar Code:			Count	BCMA Clinical Remir Activity	nders
Not Ready					PRN Effectiveness	
	WYNN,ERIC		DAYTON		Server Time: 3/6/2007 0	8:20

With the installation of Patch PSB*3*38, the Virtual Due List display in BCMA now looks as illustrated below.

🖀 Ba	ar Code Medicatio	n Administration - v3.0.13.	15 - Patient Context is	Joined			
File	View Reports Due	e List Tools Help					
] Mis	sing Dose Medicatio	n <u>L</u> og M <u>e</u> dication Admin History	Allergies CPRS Med	Order 🛛 Flag			
	PSPATIENT,ONE (MA SSN = 666-66-0000 DOB = 1/26/1940 (6 Height = 170cm, We Location = NH 4 1C-	7) ight = 79.55kg		Virtual Due List Para St <u>a</u> rt Time: 03/06@0700 ▼	Stop Time:	Schedule Types:	 ○ I On-Call ○ I One-Iime
		assessment ADRs: No ADRs		\sim			
	Ver Hsm Type		Dosage	Route	Admin Time Last Action		
G	*** C	NICOTINE T-DERMAL PATCH NICOTINE T-DERMAL SYSTE	1 PATCH M 14MG/DAY (EA)	I, Q4H TOPICAL	02/28@1300 GIVEN: 2/28	/2007@1116	
Scan	r Sheet 🔵 Unit Do					BCMA Clinical Remir	oders
Statu:		Scan Medication <u>B</u> ar Code:				tivity N Effectiveness	
		WYNN	BIC	DAYTON		Server Time: 3/6/2007 0	8-21

With the installation of Patch PSB*3*38, the Order Detail display in BCMA now looks as illustrated below.

SCMA - Display	Order					Run Date:	MAR 06,	2007@08:20 Page: 1
Patient: PSPA Sex: MALE Dx: SICK		Ht/Wt:	666-66-000 170cm/78kg : MAY 18,200	Ward:	JAN 26,1940 (67) NH 4 Rm 1C-115A ADMISSION			
ADRs: No	ADRs on file.							
	Allergy Assessment							
Orderable Item Dosage Ordered Med Route: Schedule: Type: Schedule: Q4H Admin Times: Provider: SMIRI Spec Inst:	TOPICAL CONTINUOUS 0100-0500-0900-1400-17	Start: Stop: Self Med:	02/28/2007 03/01/2007 NO					
	MAL SYSTEM 14MG/DAY (BA)	1		 				
harmacy Activ: Date:	ity Log: Feb 28, 2007@11:15:44U VERIFIED BY PHARMACIST	ser: WYNN,		 				
Activity: Field:	Feb 28, 2007@11:16:59U EDITED ADMIN TIMES 0100-0500-0900-1300-17		GRIC					
	Mar 01, 2007@09:28:24U DISCONTINUED BY PHARMA		RIC					
	Mar 01, 2007@09:28:24U EDITED (DISCONTINUED) STATUS ACTIVE	ser: WYNN,	SRIC					
Field: Old Data:		ser: WYNN,	RIC					

Inpatient Medications Changes

Patch PSS*1*88 adds the PROMPT FOR INJ. SITE IN BCMA field (#8) to the MEDICATION ROUTES file (#51.2).

PSS*1*88 also adds the prompt DSPLY ON IVP/IVPB TAB IN BCMA? field (#9) to the MEDICATION ROUTES file (#51.2).

Patch PSJ*5*159 adds two new items to the Application Programming Interface (API) from Inpatient Medications V. 5.0 to BCMA. The NAME field (#.01) and the PROMPT FOR INJ. SITE IN BCMA field (#8) from the MEDICATION ROUTES file (#51.2) are now sent in both the PSJBCMA and PSJBCMA1 APIs.

PSJ*5*159 also corrects a problem found with the API that determines whether or not a STAT order notification should be sent on an Inpatient Meds order.

NOTE: Once you have installed this patch, if you want the "STAT icon" in BCMA to function properly, you will need to define the parameter PRIORITIES FOR ACTIVE NOTIFY in the Systems Parameters in Inpatient Meds. However, you do not need to set up pagers, email, etc.