



BAR CODE MEDICATION ADMINISTRATION (BCMA)

NURSING CHUI USER MANUAL

Version 3.0
February 2004

(Revised December 2016)

Revision History

Date	Revised Pages	Patch Number	Description
11/2016	i-iv 1 3 7-9 10-12 13-14 15, 17-18 21 24-27 29 30 40	PSB*3*83	<p>Updated Revision History and TOC.</p> <p>Added new removal information for medications requiring removal.</p> <p>Updated BCMA Nursing Option Menu Screen.</p> <p>Added explanations and new screen prints for BCMA reports containing medications requiring removal changes: Medication Administration Log,</p> <p>Updated Missed Medications.</p> <p>Updated Ward Administration Times Report and Administration Times Report by Patient screens.</p> <p>Updated Due List Report section and screens.</p> <p>Updated Patient Selection Screen.</p> <p>Updated Manual Medication Entry and screen.</p> <p>Updated Administration Time Selection and Medication Log Manual Entry screens.</p> <p>Updated Medication Administration History Report by Patient screen.</p> <p>Updated Medication Variance Log Report screen.</p> <p>Updated Index.</p> <p>(D. Connolly, PM; E. Phelps, R. Walters, Tech Writers)</p>
12/2015	31-35	PSB*3*70	<p>Removed <i>Missing Dose Request</i> [PSB MISING DOSE REQUEST] option.</p> <p>(D. Connolly, PM; E. Phelps, R. Walters, Tech Writers)</p>
10/2004	iii-iv, 5 14-18, 50 53-54	PSB*3*3	<ul style="list-style-type: none"> – Added a note in the Table of Contents and Table of Exhibits about section 3.5 and Exhibits 7-10 being moved to the GUI BCMA pkg./manual. (p. iii-iv) – Removed the reference to the Edit Medication Log in the second paragraph, and updated Exhibit 1: BCMA Nursing Option Menu Screen. (p. 5) – Removed section 3.5 and Exhibits: 7-10 and replaced with blank pages, since the Edit Medication Log functionality was removed from the CHUI BCMA and incorporated into the GUI BCMA package and the associated user manual. (p. 14-18) -- Updated definition of “Not Given” and fixed typos on page. (p. 50) – In the Index, under the “Sample Screens” and “Using the Medication Administration Menu Nursing Options” sections removed references to pages 14-18 since the Edit Medication Log functionality was removed from the CHUI BCMA and this user manual. (p. 53-54).
07/2004	36, 37	PSB*3*5	<ul style="list-style-type: none"> – Updated the second paragraph to include the “Allergies” information. (p. 36) – Updated the “Example 25: Medication Administration History Report by Patient” to show the removal of the Reactions header and the

Date	Revised Pages	Patch Number	Description
			inclusion of the ADRs header and the Allergies header. (p. 37)
02/2004			Original Released BCMA V. 3.0 Nursing CHUI User Manual.

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1 INTRODUCTION

1.1 What is BCMA?

The Bar Code Medication Administration (BCMA) V. 3.0 software includes routines and files, Phase Release changes for BCMA V. 2.0, maintenance fixes, and enhancements. The enhancements are a direct result of feedback from the BCMA Workgroup and our many end users.

BCMA software is designed to improve the accuracy of the medication administration process. By automating this process, Department of Veterans Affairs Medical Centers (VAMCS) can expect enhanced patient safety and patient care.

As each patient wristband and medication is scanned with a bar code scanner, BCMA validates that the medication is ordered, timely, and in the correct dosage — as well as electronically updates the patient's Medication Administration History (MAH) Report.

The electronic information provided by BCMA V. 3.0 improves the clinician's ability to administer medications safely and effectively to patients on wards during their medication passes. It also helps to improve the daily communication that occurs between Nursing and Pharmacy staffs.

1.2 Features of BCMA

BCMA V. 3.0 provides the following features:

- Increases medication administration accuracy.
- Improves the efficiency of the medication administration process by capturing drug accountability data.
- Records Unit Dose, IV Push (IVP), IV Piggyback (IVPB), and large-volume IVs administered to patients.
- Provides the CPRS Med Order Button, a “link” to the Computerized Patient Record System (CPRS) for electronically ordering, documenting, reviewing, and signing verbal- and phone-type STAT and NOW (One-Time) orders for Unit Dose and IV medications already administered to patients.
- Increases the information available to nursing staff at the patient point of care.
- Reduces wasted medications.
- Improves communication between Nursing and Pharmacy staffs.
- Provides a real-time Virtual Due List (VDL) of orders for medication administration.
- Records missing doses and sends the requests electronically to the Pharmacy.
- Provides a point-of-care data entry/retrieval system.
- Provides full compatibility with the existing *VISTA* system.
- Identifies Pro Re Nata (PRN) entries that require Effectiveness comments.
- Replaces the manual Medication Administration Record (MAR) with a Medication Administration History (MAH) to provide an automatic record of a patient's medication administration information.
- Provides a list of variances that identify Early or Late medication administrations and late PRN Effectiveness entries.
- Provides the ability to document the patient's pain score in BCMA and store it in the Vitals package.
- Includes removal information for medications requiring removal in addition to existing administration information.

2 ABOUT THIS MANUAL

This manual contains a description of the Character-based User Interface (CHUI) BCMA options for the Pharmacy user. It is organized around the Medication Administration Menu Pharmacy Options. It explains how to access and use each option, and provides sample screen captures and reports. An Index and a Glossary are available at the back of this manual.

2.1 Special Notations—Documentation Conventions

Responses in **boldface** type indicate what you should type at your computer screen. Example: At the “Patient/Ward:” prompt, type **P** for Patient or **W** for Ward.

Text centered between arrows represents a keyboard key that needs to be pressed for the system to capture a user response or move the cursor to another prompt. <Enter> indicates that the Enter key (or Return key on some keyboards) must be pressed. <Tab> indicates that the Tab key must be pressed. Example: Press <Tab> to move the cursor to the next prompt. Enter **Y** for Yes or **N** for No, and then press <Enter>.

Indicates especially important or helpful information.

2.2 Package Conventions

Up-arrow (caret or a circumflex)

In CHUI BCMA, you can move back to a previous screen by entering a ^ and then pressing <Enter>. Repeat this process until you locate the desired screen.

2.3 Intranet Documentation

You can locate this and other BCMA-related documentation on the Intranet, from the **VISTA** Documentation Library (VDL), at the following address. It provides background, technical information, and important user documentation.

<http://www.va.gov/vdl>

Remember to bookmark this site for future reference.

2.4 On-line Help

?, ??, ???

On-line help is available by entering one, two, or three question marks at a prompt. One question mark elicits a brief statement of what information is appropriate for the prompt; two question marks elicits more help, plus the hidden actions shown above; and three question marks will provide more detailed help, including a list of possible answers, if appropriate.

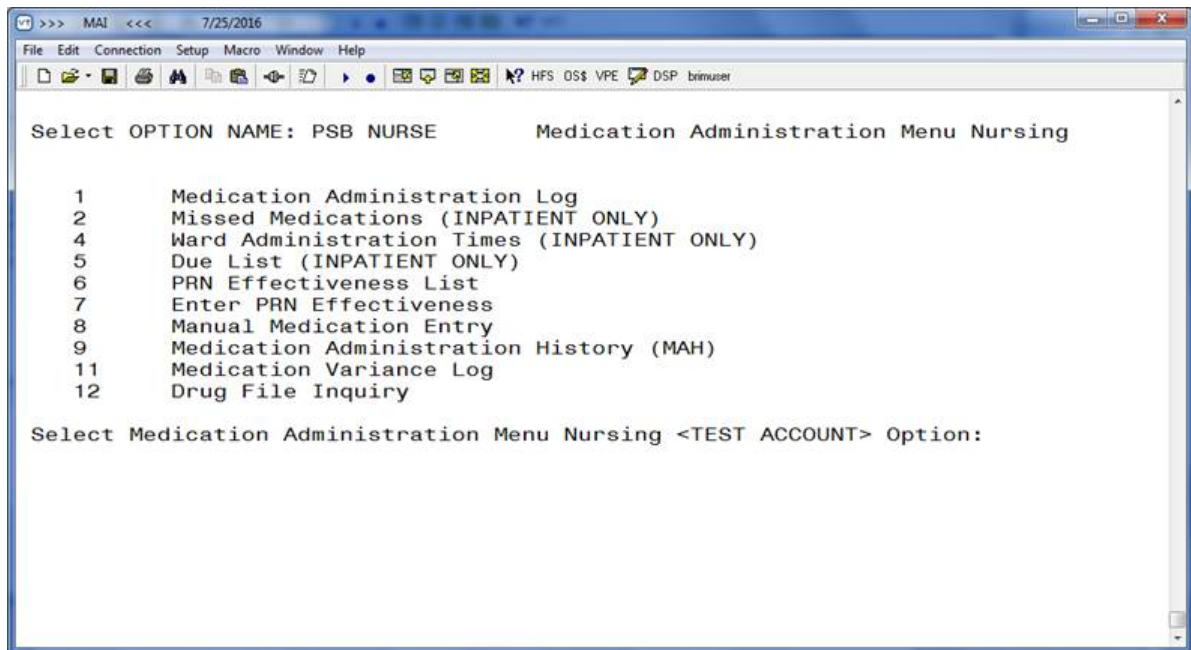
3 BCMA MENU—NURSING OPTION

3.1 Using the Medication Administration Menu Nursing Option

The BCMA Nursing Option Menu, as illustrated in Exhibit 1, lets Nursing personnel access information that has been entered via the BCMA Graphical User Interface (GUI) VDL. Because BCMA operates in real time, scanned information is available as soon as the scan is successfully completed. You can access the Nursing Option Menu from any *VISTA*-enabled terminal within the VAMC.

- Several of these options are available under both the Nursing and the Pharmacy menu options. The options that are unique to Nursing include Ward Administration Times, PRN Effectiveness List, Enter PRN Effectiveness, Manual Medication Entry, and Medication Variance Log.

EXHIBIT 1: BCMA NURSING OPTION MENU SCREEN



To select a Nursing option:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, enter the number of the desired option.
2. Press <Enter> to display the Sort Screen for the option chosen.

3.2 Using ScreenMan Format to Request a Report

Many of the Nursing options use a common screen to define selection criteria for reports, as illustrated in Exhibit 2, Report Request Using ScreenMan Format. Other options use specific screens. This section explains the screen prompts for all reports using the Report Information Sort Screen and gives instructions for entering information. Following this section are sample reports that you can run from each of the Medication Administration Menu Nursing options.

EXHIBIT 2: REPORT REQUEST USING SCREENMAN FORMAT SCREEN

Request #: ML-20040130-091538 ML

Start Date: JAN 30,2004 At: 0:01a Stop Date: JAN 30,2004 At: 11:00p

Run by Patient or Ward: Patient
Patient Name: BCMAPATIENT.ONE
Ward Location: Sort by Pt or Room-Bed

Include Comments: Yes
Include Audits: YES

Print to DEVICE: HOME
Queue To Run At: JAN 30,2004@09:15

Instructions: PF1-E Submit PF1-Q Cancel PF1-R Refresh <Ret> Re-Edit: |

Exit Save Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND: | Press <PF1>H for help Insert

Connected to 10.4.21.2 Macro | Print | Capture | Hold | VT340 | 1 hr 18 min | Row 24 | Col 10

Many of the reports can be sorted and printed in the following ways:

- By patient. The information will display chronologically.
- By ward. The system can sort the information by patient or room/bed, and display it chronologically within each patient.

To request a report using ScreenMan:

1. At the “Start Date:” prompt, type the **start date of the report**, and then press <Enter>.

Note: The cursor moves to the next prompt each time that you press <Enter>.

- To display a list or a standard date and time format, enter a ? at any date or time prompt, and then press <Enter>.

2. At the first “At:” prompt, type the **start time of the report** (in HHMM format), and then press <Enter>.
3. At the “Stop Date:” prompt, type the **stop date**, and then press <Enter>.
4. At the second “At:” prompt, type the **stop time** (in HHMM format), and then press <Enter>.

-
5. At the “Run by Patient or Ward:” prompt, type **P** for Patient or **W** for Ward, and then press <Enter>.
 - If you are sorting the report by ward, at the “Ward Location:” prompt, type the **ward designation**, and then press <Enter>. At the “Sort by Pt or Room-Bed:” prompt, type **P** for Patient or **R** for Room, and then press <Enter>.
 - If sorting the report by patient, at the “Patient Name:” prompt, type the **patient’s name or Social Security Number (SSN)**, and then press <Enter>.
 - To display a list, enter a **?** at any “Patient Name:” prompt, and then press <Enter>.
 6. At the “Include Comments:” prompt, enter **Y** for Yes or **N** for No, and then press <Enter>.
 - If a “Yes/No” prompt is blank, press <Enter> to respond No.
 7. At the “Include Audits:” prompt, enter **Y** for Yes or **N** for No, and then press <Enter>.
 8. At the “Print to Device:” prompt, type a **valid printer**, and then press <Enter>.
 9. At the “Queue to Run At:” prompt, press <Enter> to accept the date displayed, or enter a **date and time**, and then press <Enter>. The report will print at the time and date entered.
 10. At the “<RET> Re-Edit:” prompt, press **PF1** (or Num Lock), followed by **E**, to submit this report for printing. (Other available actions at this prompt are **PF1-Q** to Quit or **PF1-R** to refresh the screen.)

The screen clears and the following message displays:

Submitting Your Report Request to Taskman...Submitted!
Your Task Number Is: XXXX

- Depending on how your division is configured, either the PF1 key or Num Lock will be active. For consistency, this manual refers to the PF1 convention, but users are advised that PF1 is the same as Num Lock, if that is the active function at your VAMC.

3.3 Medication Administration Log Report

The *Medication Administration Log* [PSBO ML] option lets Nursing personnel create the Medication Administration Log Report, which provides detailed administration information and removal information for medications requiring removal for a specified date/time range. The report can be sorted and printed by patient or by ward. When printed by ward, you may sort the view by patient or room/bed. With this sort, the drug administration information will be printed chronologically within each patient.

The Medication Administration Log Report prints in a 132-column output. Exhibit 3, Medication Administration Log Report by Patient, and Exhibit 4, Medication Administration Log Report by Ward, show examples of both Medication Administration Log Reports.

Throughout this manual, the reports shown are provided for illustrative purposes only. Actual reports may be longer.

To print a Medication Administration Log Report:

1. At the Medication Administration Menu Nursing Option:" prompt, type **1**, and then press <Enter> to access the *Medication Administration Log* [PSBO ML] option.
2. See Section 3.2, "Using ScreenMan Format to Request a Report," for instructions about requesting a Medication Administration Log Report.

EXHIBIT 3: MEDICATION ADMINISTRATION LOG REPORT BY PATIENT

```

=====
Medication Log Report for May 10, 2016@00:01 to May 20, 2016@24:00
Include Inpatient and Clinic Orders
Continuing/PRN/Stat/One Time Medication/Treatment Record (Detailed Log) (VAF 10-2970 B, C, D)
Run Date: MAY 20, 2016@14:49
Log Type: INDIVIDUAL PATIENT
Page: 1

Patient: TESTPATNM,TWO          SSN:      666-23-2323          DOB:     DEC 12,1955 (60)
Sex:      MALE                  Ht/Wt:    */*              Ward:    GEN MED Rm:
Dx:      AGITATED              Last Mvmt: DEC 16,2015@17:48:10  Type:   ADMISSION

ADRs:      No ADRs on file.

Allergies: No Known Allergies
=====
Location
Activity Date  Orderable Item          Action Action          Drug/Additive/Solution  U/Ord  U/Gvn Unit
Start Date>   [Dose/Sched/Route/Body Site]  By      Date/Time
Stop Date<
=====
GEN MED B-4
05/11/16 17:55  ASPIRIN [325MG Q4H PO]  NSS      05/11/16 17:55
Given
5/11/16 10:00>  Comments: 05/11/16 17:55 NSS      Test comment          ASPIRIN BUFFERED 325MG TAB  1.00  1.00 CAP,ORAL
5/16/16 18:14:07<
Audits:      05/11/16 17:55 NSS      Field: ACTION DATE/TIME Set to 'MAY 11, 2016@17:55:49'.
              05/11/16 17:55 NSS      Field: ACTION STATUS Set to 'GIVEN' by 'NSS'.
              05/11/16 17:55 NSS      Field: DOSES GIVEN Set to '1'.
              05/11/16 17:55 NSS      Field: UNIT OF ADMINISTRATION Set to 'CAP,ORAL'.
=====
GEN MED B-4
05/11/16 18:06  SELEGILINE [13J ONCE Derm  Site: ARM, LEFT UPPER]  NSS      05/11/16 18:07
Removed
              NSS      05/11/16 18:06
Given
5/11/16 13:00>  Comments: 05/11/16 18:07 NSS      Removed: TEST          SELEGILINE 12MG/24HR PATCH  1.00  1.00 PATCH
5/11/16 18:06:09<
Audits:      05/11/16 18:06 NSS      Field: ACTION DATE/TIME Set to 'MAY 11, 2016@18:06:09'.
              05/11/16 18:06 NSS      Field: ACTION STATUS Set to 'GIVEN' by 'NSS'.
              05/11/16 18:06 NSS      Field: DOSES GIVEN Set to '1'.
              05/11/16 18:06 NSS      Field: UNIT OF ADMINISTRATION Set to 'PATCH'.
              05/11/16 18:07 NSS      Field: ACTION DATE/TIME 'MAY 11, 2016@18:06:09' deleted.
              05/11/16 18:07 NSS      Field: ACTION DATE/TIME Set to 'MAY 11, 2016@18:07:06'.
              05/12/16 18:01 NSS      Field: ACTION STATUS Set to 'REMOVED' by 'NSS'.
=====

```

EXHIBIT 4: MEDICATION ADMINISTRATION LOG REPORT BY WARD

```

=====
Medication Log Report for May 11, 2016@00:01 to May 12, 2016@24:00
Include Inpatient and Clinic Orders
Continuing/PRN/Stat/One Time Medication/Treatment Record (Detailed Log) (VAF 10-2970 B, C, D)      Run Date: MAY 20,
2016@16:46
LOG TYPE: WARD
Page: 1

Ward Location: GENERAL MED                                     Division:
ALBANY
=====
Location
Activity Date      Orderable Item          Action Action
Start Date>      [Dose/Sched/Route/Body Site]  By      Date/Time          Drug/Additive/Solution      U/Ord  U/Gvn Unit
Stop Date<
-----
TESTPATNM,TWO (000000000)
Ward: GEN MED  Rm-Bed: ***
-----
      GEN MED
05/11/16 21:02  ACETAMINOPHEN [325MG Q8H PO]  LM      05/11/16 21:02
                                           Given
5/11/16 13:00>                                     ACETAMINOPHEN 325MG TABLET      1.00      1.00 TAB
-----
      GEN MED B-4
05/11/16 18:26  NICOTINE [1 Q8H Derm Site:
                BACK, MIDDLE]          NSS      05/12/16 08:41
                                           Removed
                NSS      05/11/16 18:26
                                           Given
5/11/16 12:30>                                     NICOTINE 11MG/24HR PATCH      1.00      1.00 PATCH
-----
TESTPATNM,THREE (000000000)
Ward: GEN MED  Rm-Bed: B-4
-----
      GEN MED B-4
05/12/16 08:42  LIDOCAINE [1 Q24 Derm Site:
                ARM, LEFT UPPER]          NSS      05/12/16 08:42
                                           Given
5/11/16 18:01>                                     LIDOCAINE 5% PATCH      1.00      1.00 PATCH

```

Continuing/PRN/Stat/One Time Medication/Treatment Record (Detailed Log) (VAF 10-2970 B, C, D)
 Run Date: MAR 01, 2002@10:23
 LOG TYPE: WARD
 Page: 1

Ward Location: BCMA Division: TOPEKA, KS

Activity Date	Orderable Item [Dose/Sched/Route/Inj Site]	Admin By	Admin Date/Time	Drug/Solution/Additive	U/Ord	U/Gvn	Unit
BCMAPATIENT,TEN (000000003) Ward: BCMA Rm-Bed: 401-09							
01/14/02 09:04	CEFTAZIDIME [INFUSE OVER 30 MIN. Q12H IV Inj Site: Arm, Left Upper]	N3	01/14/02 09:04	CEFTAZIDIME - 1 GM DEXTROSE 5%/WATER - 50 ML			
01/14/02 09:05	POTASSIUM CHLORIDE [75 ml/hr IV Inj Site: Arm, Left Upper]	N3	01/14/02 09:05	POTASSIUM CHLORIDE - 20 MEQ DEXTROSE 5%/WATER - 1000 ML			
01/14/02 14:48	MOISTURIZING LOTION [PRN TOP] N3 PRN Reason: C/O ITCHING PRN Effectiveness: NO RELIEF Entered By: BCMANURSE,ONE Date/Time: JAN 14, 2002@14:49:39 Minutes: 1		01/14/02 14:48	DRY SKIN LOTION/ML	1.00	0.00	
01/14/02 14:57	ACETAMINOPHEN [325-650MG Q4H PRN PO] PRN Reason: C/O H/A PRN Effectiveness: RELEIF Entered By: BCMANURSE,ONE Date/Time: JAN 14, 2002@14:59:01 Minutes: 179	N3	01/14/02 12:00	ACETAMINOPHEN 325MG TAB	2.00	3.00	TAB
BCMAPATIENT,ELEVEN (000000004) Ward: BCMA Rm-Bed: A415-01							
01/14/02 09:00	ARTIFICIAL TEARS [2 DROPS 0600-0800-1000-1200-1400-1600-1800-2000-2200 OPH]	N4	01/14/02 09:00	ARTIFICIAL TEARS /ML	1.00	1.00	2 DROPS
01/14/02 09:04	CEFTAZIDIME [INFUSE OVER 30 MIN. Q12H IV Inj Site: Arm, Right Upper]	N4	01/14/02 09:04	CEFTAZIDIME - 1 GM DEXTROSE 5%/WATER - 50 ML			
01/14/02 09:06	ASCORBIC ACID [500MG MO-WE-FR@0900-1700 PO]	N4	01/14/02 09:06	ASCORBIC ACID 500MG TAB	1.00	1.00	TAB

3.4 Missed Medications Report

The *Missed Medications* [PSBO MM] option lets Nursing personnel print a Missed Medications Report, which includes Continuous or One-Time Unit Dose and IV Piggyback medications that were *not* administered to a patient during a medication pass. This report also includes patient demographics data, adverse drug reaction (ADR) information, ward/bed location, administration date/time, removal date/time for medications requiring removal, order number from Inpatient Medications V. 5.0, and the medication type of the missed medication. (Self-medications do *not* display on the report.) The report can be sorted and printed by ward or patient, and you can specify the date and time that the report covers.

- Information that may display on this report includes medications that were scheduled to be administered, but were *not* marked as Given, Held, or Refused. It may also include medications that have been renewed or expired shortly after the scheduled administration time, and medications requested from the Pharmacy as Missing Dose Requests. Medications placed “On Hold” and taken “Off Hold” via the Computerized Patient Record System (CPRS) or Inpatient Medications V.5.0 will display on this report with the Hold information below the medication. The Hold information applies only to administrations due within the Hold timeframe.

The “Order Num” column on the report, shown in Exhibit 6, lists the actual order number and type (i.e., Unit Dose or IV). This information is quite helpful when troubleshooting problems with BCMA.

To print a Missed Medications Report:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **2**, and then press **<Enter>** to access the *Missed Medications* [PSBO MM] option.
2. See Section 3.2, “Using ScreenMan Format to Request a Report,” for instructions about requesting a Missed Medications Report.

The reports will print in a 132-column output. Exhibit 5, Missed Medications Report by Patient, and Exhibit 6, Missed Medications Report by Ward, show examples of both Missed Medications Reports.

- You should run the Missed Medications Report by Ward after each scheduled admin time to ensure that all entries listed on this report are resolved.

EXHIBIT 5: MISSED MEDICATIONS REPORT BY PATIENT

```

=====
MISSED MEDICATIONS REPORT for May 11, 2016@00:01 to May 14, 2016@24:00
Run Date: MAY 20, 2016@15:48
Include Inpatient Orders Only
Order Status(es): Active / DC'd / Expired
Page: 1
Admin Status(es): Missing Dose / Held / Refused
Include Comments/Reasons

Patient: TESTPAT, THREE : 000-00-0000 DOB: JAN 22,1972 (44)
Sex: FEMALE Ht/Wt: */* Ward: GEN MED Rm: B-4
Dx: Undetermined back pain Last Mvmt: SEP 28,2015@11:48:24 Type: ADMISSION

ADRs: No ADRs on file.

Allergies: STRAWBERRIES
=====
Order Status Ver Missed Date/Time Medication Order Stop Date
-----
Active *** 05/11/2016@0500 NIACIN INJ,SOLN 05/11/2016@1813
Active *** 05/12/2016@0600 SELEGILINE PATCH 12/03/2016@0700
Admin. Status: (Refused)
Comment: Refused: Nausea
Active *** 05/12/2016@2040 LIDOCAINE PATCH 12/01/2016@0600
(Remove)
Active *** 05/13/2016@2100 ASPIRIN CAP,ORAL 07/01/2016@0800

```

EXHIBIT 6: MISSED MEDICATIONS REPORT BY WARD

```

=====
MISSED MEDICATIONS REPORT for May 11, 2016@00:01 to May 12, 2016@24:00
Run Date: MAY 20, 2016@15:53
Include Inpatient Orders Only
Order Status(es): Active / DC'd / Expired
Page: 1
Admin Status(es): Missing Dose / Held / Refused
Include Comments/Reasons

Ward Location: GENERAL MED
Division: ALBANY
=====

```

Order Status	Ver	Room-Bed	Patient	Missed Date/Time	Medication
DC'd (Edit)	***	B-4	TESTPAT,THREE (2223)	05/11/2016@0900	ASPIRIN CAP,ORAL
DC'd	***	B-4	TESTPAT,THREE (2223)	05/11/2016@0900	NIACIN INJ,SOLN
Active	***	B-4	TESTPAT,THREE (2223)	05/11/2016@2100	LIDOCAINE PATCH (Remove)
Active	***	B-4	TESTPAT,THREE (2223)	05/11/2016@2100	LIDOCAINE PATCH
Active	***	**	TESTPATNM,TWO (2123)	05/12/2016@0100	ACETAMINOPHEN TAB
Active	***	**	TESTPATNM,TWO (2123)	05/12/2016@0900	NITROGLYCERIN
Active	***	**	TESTPATNM,TWO (2123)	05/12/2016@0900	SELEGILINE PATCH

3.5 Edit Medication Log

Pages 14-18 referred to functionality that is no longer available in the CHUI BCMA package and has been incorporated into the GUI BCMA package and the associated user manual.

3.6 Ward Administration Times Report

The *Ward Administration Times* [PSBO WA] option lets Nursing personnel print the Ward Administration Times Report, which lists current medications, administration times, and removal times for medications requiring removal (from the earliest to the latest) due, depending on the sort criteria that you determine. This report includes patient demographics data; ADR information; plus detailed information about the order such as the medication type, dose, and route; and the administration time. It is particularly helpful to Nursing personnel to help determine when medications are administered to patients, and the frequency and number of medications administered and removed during a particular date/time.

The Ward Administration Times Report can be sorted and printed in the following ways:

- **By patient.** Each scheduled medication due to a patient and the related administration time is listed.
- **By ward.** The total number of medications due at each administration time is listed for each patient, including the number scheduled for each hour and 24-hour totals for the entire ward.

You can use the Ward Report for determining workloads on a ward.

To print a Ward Administration Times Report:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **4**, and then press **<Enter>** to access the *Ward Administration Times* [PSBO WA] option.
2. See Section 3.2, “Using ScreenMan Format to Request a Report,” for instructions about requesting a Ward Administration Times Report.

The printed report is formatted as shown in Exhibit 11, Administration Times Report by Patient, and Exhibit 12, Administration Times Report by Ward.

EXHIBIT 4: ADMINISTRATION TIMES REPORT BY PATIENT

PATIENT ADMINISTRATION TIMES		Run
Date: MAY 23, 2016@13:09		
Include Inpatient Orders Only		
ADMINISTRATION DATE: MAY 23, 2016 to MAY 23, 2016		
Page: 1		
Patient: TESTPAT,THREE	SSN: 000-00-0000	DOB: JAN 22,1972 (44)
Sex: FEMALE	Ht/Wt: */*	Ward: GEN MED Rm: B-4
Dx: Undetermined back pain	Last Mvmt: SEP 28,2015@11:48:24	Type: ADMISSION
ADRs: No ADRs on file.		
Allergies: BEE STING		
=====		
Date/Time	Self Med Medication	Dose/Route

MAY 23, 2016		
1:00a	ASPIRIN CAP,ORAL	Dosage: 325MG Route: ORAL
6:00a	FENTANYL PATCH	Dosage: 1 PATCH Route: TRANSDERMAL
6:00a	SELEGILINE PATCH	Dosage: 1 Route: TRANSDERMAL
7:00a	ASPIRIN CAP,ORAL	Dosage: 325MG Route: ORAL
12:00n (RM)	SELEGILINE PATCH	Dosage: 1 Route: TRANSDERMAL
1:00p	ASPIRIN CAP,ORAL	Dosage: 325MG Route: ORAL
=====		
TESTPAT,THREE	666-12-2223	Ward: GEN MED Room-Bed: B-4

EXHIBIT 5: ADMINISTRATION TIMES REPORT BY WARD

WARD ADMINISTRATION TIMES		Run Date: MAR 01, 2002@07:13																						
ADMINISTRATION DATE: MAR 01, 2002																								
Page: 1																								
Ward Location: BCMA	Division: TOPEKA, KS																							
=====																								
Patient Name	Administration Times																							
Room-Bed	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-----	-----																							
BCMAPATIENT,TEN																								
SSN: 000000003																								
Room-Bed: BCMA 401-09 1	4	1			1	7	1	3	1	4	3		1	6	1		1	4	1	3				
-----	-----																							
BCMAPATIENT,ELEVEN																								
SSN: 000000004																								
Room-Bed: BCMA A415-01	1	4			1	1	7	1	3	1	4	1	1	6	1		1	4	1	3				
-----	-----																							
BCMAPATIENT,FOUR																								
SSN: 000001002																								
Room-Bed: BCMA A416-01	1					4	1		1	7	1	3	1	4	1		1	6	1		1	4	1	3
-----	-----																							
Hourly Totals:	21				85	21		21	148	21	64	21	84	25		21	127	21		21	84	21	64	
Ward Total:	870																							

3.7 Due List Report

The *Due List [PSBO DL]* option lets Nursing personnel print the Due List Report in CHUI BCMA, which displays the information available from the VDL within GUI BCMA. It provides detailed information about active and future Unit Dose and IV medication orders that are “due” for administering to a patient or removal for medications requiring removal — during a timeframe that you specify — within a 24-hour period. Within the date/time range, the report may be printed by patient or by ward, and include/exclude the following:

- Continuous, PRN, On-Call, and One-Time Schedule Types
- Unit-Dose or IV medications
- Addendums

The Due List Report includes patient demographics data, ADR information, plus detailed information about an order, such as whether (or *not*) the medication is a self-med; the medication type, schedule, dose, and route; Special Instructions; administration times; remove time; Last Given date and time; Start/Stop date and time; and the individual(s) who verified the order.

- Only medications active at the time the Due List is printed will display on the report. The printed Due List and the VDL within GUI BCMA may *not* match if orders have been added, discontinued, or renewed after printing.

Complete the steps on the next page to enter information on the screen illustrated in Exhibit 13, Due List Report Request Screen.

EXHIBIT 6: DUE LIST REPORT REQUEST SCREEN

Request #: DL-20020107-142226 Due List

Start Date: JAN 7, 2002 Start Time: 8:00a Stop Time: 10:00a

Run by Patient or Ward: Ward
Patient Name:
Ward Location: BCMA Sort by Pt or Room-Bed: Patient

Include Schedule - Continuous: Yes Include Order Types - IV: Yes
PRN: No Unit Dose: Yes
On Call: Yes
One-Time: Yes Include Addendums: No

Print to DEVICE: BROWSER
Queue To Run At: JAN 7, 2002@14:22

Instructions: PF1-E Submit PF1-Q Cancel PF1-R Refresh <Ret> Re-Edit:

COMMAND: Press <PF1>H for help Insert

Connected to 10.4.21.2 | Macro | Print | Capture | Hold | VT420 | 0 hr 10 min | Row 17 | Col 76

To print a Due List Report:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **5**, and then press **<Enter>** to access the *Due List [PSBO DL]* option.
2. At the “Start Date:” prompt, type the **date**, and then press **<Enter>**.
3. At the “Start Time:” prompt, type the **time**, and then press **<Enter>**.
4. At the “Stop Date:” prompt, type a **date**, and then press **<Enter>**.
5. At the “Run by Patient or Ward:” prompt, type **P** for Patient or **W** for Ward, and then press **<Enter>**.
 - If you are sorting the report by patient, at the “Patient Name:” prompt, type the **patient's name or SSN**, and then press **<Enter>**.
 - If you are sorting the report by ward, in the ward location, type the **ward designation**, and then press **<Enter>**. At the “Sort by Pt or Room-Bed:” prompt, type **P** for Patient or **R** for Room/Bed, and then press **<Enter>**.
6. At the “Include Schedule:” prompts, enter **Y** for Yes for the desired Schedule Type(s) and **N** for No for the others and, then press **<Enter>**.
7. At the “Include Order Types:” prompts, enter **Y** for Yes or **N** for No at the “IV:” prompt and “Unit Dose:” prompt, and then press **<Enter>**. If you enter **N** for No at both prompts, no orders will print on the report.
8. At the “Include Addendums:” prompt, enter **Y** or **N**, and then press **<Enter>**. When **Y** is entered, an additional section called Changes/Addendums to Orders will print at the bottom of the report. You can use this section of the report to manually record information about a medication administration.
9. At the “Print to Device:” prompt, type the **desired printer**, and then press **<Enter>**.
10. At the “Queue to Run At:” prompt, type the **date you want** to run a report, and then press **<Enter>**. If you press **<Enter>**, the system defaults to the current date and time.
11. At the “<Ret> Re-Edit:” prompt, press the **PF1** (or Num Lock), followed by **E** (Exit) to submit the request for printing. (Other available actions at this prompt are **PF1 - Q** to Quit, or **PF1-R** to refresh the screen.)

The screen clears and the following message displays:

```
Submitting Your Report Request to Taskman...Submitted!  
Your Task Number Is: XXXX
```

The reports will print in a 132-column output. Exhibit 14, Due List Report by Patient, and Exhibit 15, Due List Report by Ward, show examples of both Due List Reports.

EXHIBIT 7: DUE LIST REPORT BY PATIENT

```

=====
MEDICATION DUE LIST for MAY 12, 2016@0200 to MAY 12, 2016@2400                Run Date: MAY 12, 2016@02:05
Include Inpatient Orders Only
Schedule Type(s): Continuous / PRN / OnCall / OneTime
Page: 1
Order Type(s): IV / Unit Dose / Future Orders

Patient: TESTPAT,THREE                :                666-12-2223                DOB: JAN 22,1972 (44)
Sex: FEMALE                Ht/Wt: */*                Ward: GEN MED Rm: B-4
Dx: Undetermined back pain                Last Mvmt: SEP 28,2015@11:48:24                Type: ADMISSION

ADRs: No ADRs on file.

Allergies: STRAWBERRIES
=====
Self Med Sched Medication Dose Route Last Given Start Date @Time Stop Date @Time Verifying Rph/Rn
-----
Administration Date: MAY 12, 2016
UD-C ASPIRIN CAP,ORAL Give: 325MG Q4H ORAL 05/11/16@1817 5/11/16 @12:00 7/1/16 @08:00 NSS/**
*ASPIRIN BUFFERED 325MG TAB Admin Times: 0900-1300-1700-2100
UD-C NICOTINE PATCH Give: 1 Q24 TRANSD ERMAL 05/12/16@0842 5/11/16 @18:01 12/1/16 @06:00 NSS/**
* NICOTINE 7MG/24HR PATCH Admin Times: 0900 Remove Time: 2100
-----
Changes/Addendums to orders
-----
CON ___ PRN ___ Drug: _____ Give: _____ Start: _____ Stop: _____
Remove: _____
OT ___ OC ___ Spec Inst: _____ Initials: _____ Date: _____
-----
CON ___ PRN ___ Drug: _____ Give: _____ Start: _____ Stop: _____
Remove: _____
OT ___ OC ___ Spec Inst: _____ Initials: _____ Date: _____
=====
TESTPAT,THREE                666-12-2223                Ward: GEN MED Room-Bed: B-4
=====

```

EXHIBIT 8: DUE LIST REPORT BY WARD

```

=====
MEDICATION DUE LIST for MAY 23, 2016@0400 to MAY 23, 2016@2400                               Run Date: MAY 23, 2016@16:02
Include Inpatient Orders Only
Schedule Type(s): Continuous / PRN / OnCall / OneTime
Page: 1
Order Type(s): IV / Unit Dose / Future Orders

Ward Location: GENERAL MED

Patient: TESTPATIENT,ZERO                               :           666-11-2348           DOB: JUL 10,1997 (18)
Sex:      MALE                                           Ht/Wt:      */*                Ward: GEN MED Rm:
Dx:      TRAUMA TO HEAD                                   Last Mvmt: JUN 29,2015@12:55:52  Type: ADMISSION

ADRs:      No ADRs on file.

Allergies: No Known Allergies
=====
Self
Med  Sched  Medication                Dose                Route  Last      Start      Stop      Verifying
                                     Give                Given          Date      Date      Date      Rph/Rn
                                     Give                Given          @Time    @Time    @Time
-----
Administration Date: MAY 23, 2016

      UD-C   ASPIRIN CAP,ORAL                Give: 325MG Q4H           ORAL  05/23/16@1252  5/11/16  7/1/16  NSS/**
                                     Admin Times:
                                     0500-0900-1300-1700-2100
                                     @12:00    @08:00
-----
      UD-C   FENTANYL PATCH                 Give: 1 PATCH BID        TRANSD  05/23/16@1054  5/11/16  8/9/16  RG/**
                                     Admin Times: None
                                     Remove Time: 2100
                                     ERMAL
                                     @09:00    @24:00
-----
Changes/Addendums to orders
-----
CON ___ PRN ___ Drug: _____ Give: _____ Start: _____ Stop: _____
                                     Remove: _____
OT ___ OC ___ Spec
Inst: _____ Initials: _____ Date: _____
-----
CON ___ PRN ___ Drug: _____ Give: _____ Start: _____ Stop: _____
                                     Remove: _____
OT ___ OC ___ Spec
Inst: _____ Initials: _____ Date: _____
=====
TESTPATIENT,ZERO                               666-11-2348                               Ward: GEN MED Room-Bed: B-2

```


3.8 PRN Effectiveness List Report

The *PRN Effectiveness List* [PSBO PE] option lets Nursing personnel print the PRN Effectiveness List Report, which lists PRN medications administered to a patient that require an Effectiveness comment. It also includes patient demographics data, ADR information, plus the PRN medication, administration date and time, and the individual(s) who administered the order. You can print the report by patient or by ward.

The system files the Effectiveness comment, after you make an entry using the *PRN Effectiveness List* [PSBO PE] option, and then select one of the medications listed on the following report. The entry will not display on the PRN Effectiveness List Report the next time that it is printed.

You can print a PRN Effectiveness List Report after a patient has been discharged.

To print a PRN Effectiveness List Report:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **6**, and then press **<Enter>** to access the *PRN Effectiveness List* [PSBO PE] option.
2. See Section 3.2, “Using ScreenMan Format to Request a Report,” for instructions about requesting a PRN Effectiveness List Report.

The printed reports are formatted as shown in Exhibit 16, PRN Effectiveness List Report by Patient and Exhibit 17, PRN Effectiveness List Report by Ward.

EXHIBIT 9: PRN EFFECTIVENESS LIST REPORT BY PATIENT

```
=====
PRN EFFECTIVENESS LIST from Feb 02, 2002@08:00 thru Feb 02, 2002@16:00      Run Date: FEB 2,2002@13:12
                                                                                               Page: 1

Patient:  BCMAPATIENT,NINE          SSN:      000-00-1013          DOB:     JAN 1,1949 (52)
Sex:      FEMALE                    Ht/Wt:    182cm/83kg         Ward:    BCMA Rm 421-1
Dx:       COPD                      Last Mvmt: NOV 27,2000@11:19:16  Type:    ADMISSION

Reactions:  STRAWBERRIES
=====
Administration Date/Time      Medication                               Administered By
-----
FEB 02, 2002@09:23:05        HALOPERIDOL                             BCMANURSE,ONE
      PRN Reason: AGITATION
FEB 02, 2002@09:23:26        ACETAMINOPHEN                           BCMANURSE,ONE
      PRN Reason: FEVER
FEB 02, 2002@09:23:51        ALUMINUM HYDROXIDE/MAG HYDROXIDE/SIMETH BCMANURSE,ONE
      PRN Reason: DYSPEPSIA
FEB 02, 2002@09:25:02        INSULIN REGULAR (HUMULIN)                BCMANURSE,ONE
      PRN Reason: ELEVATED BLOOD SUGAR

=====
BCMAPATIENT,NINE              000-00-1013                          Ward: BCMA Room-Bed: 421-1
=====
```

EXHIBIT 10: PRN EFFECTIVENESS LIST REPORT BY WARD

```
=====
PRN EFFECTIVENESS LIST  from Feb 04, 2004@00:01 thru Feb 04, 2004@24:00      Run Date: FEB 04, 2004@10:16
                                                                    Page: 1

Ward Location: NEW LOCATION
Division: ALBANY
=====
Patient          Ward Rm-Bed
Administration Date/Time      Medication          Administered By
-----
BCMAPATIENT,ONE              7A GEN MED  724-A
FEB 04, 2004@10:00:23      ACETAMINOPHEN          BCMANURSE ,ONE
PRN Reason: Fever
```

3.9 Enter PRN Effectiveness

The *Enter PRN Effectiveness* [PSB MED LOG PRN EFFECT] option lets Nursing personnel enter Effectiveness comments for PRN medications that were administered to a patient.

To enter PRN Effectiveness comments:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **7**, and then press **<Enter>** to access the *Enter PRN Effectiveness* [PSB MED LOG PRN EFFECT] option. Additional information entry prompts will display, as illustrated in Exhibit 18, Patient Selection Screen, provided below.
2. At the “Select Patient Name:” prompt, type the **patient’s name or SSN**, and then press **<Enter>**.
3. At the “Select Date to Begin Searching Back From:” prompt, press **<Enter>** to select today’s date.
 - If the medication was not administered today, a screen message will display, asking if you would like to move back one day. Press **<Enter>** to do so. This process will continue until the system reaches a date on which medications were administered. At that time, the list of medications will display as shown in Exhibit 19, Medication Selection Screen.

EXHIBIT 11: PATIENT SELECTION SCREEN

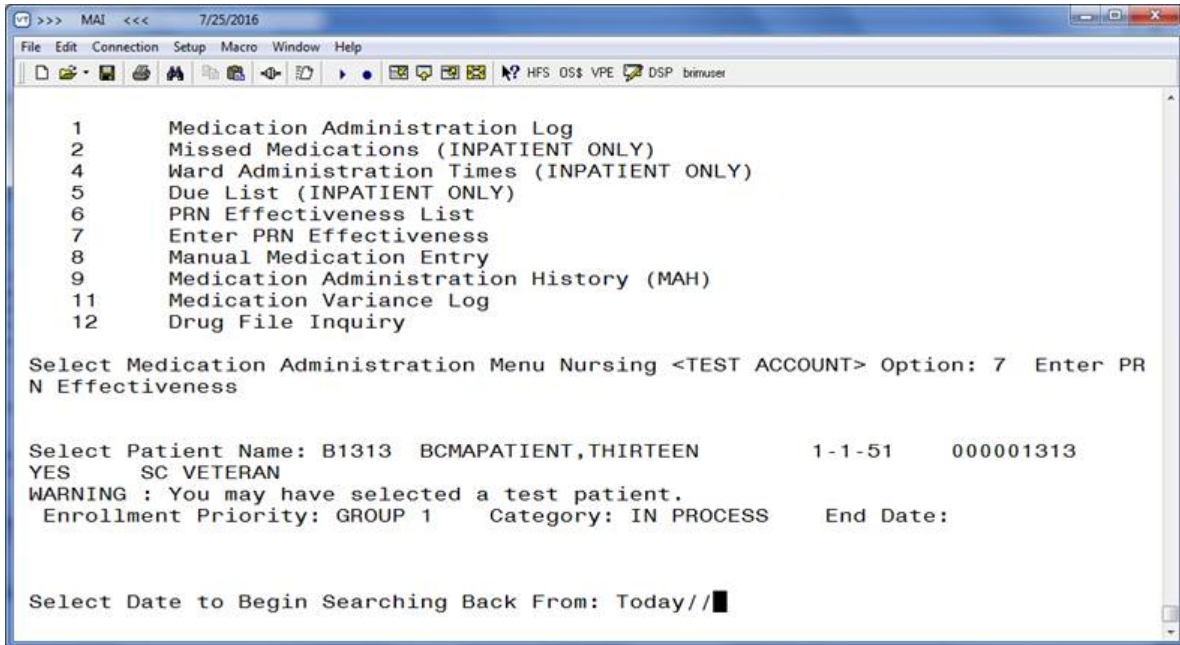
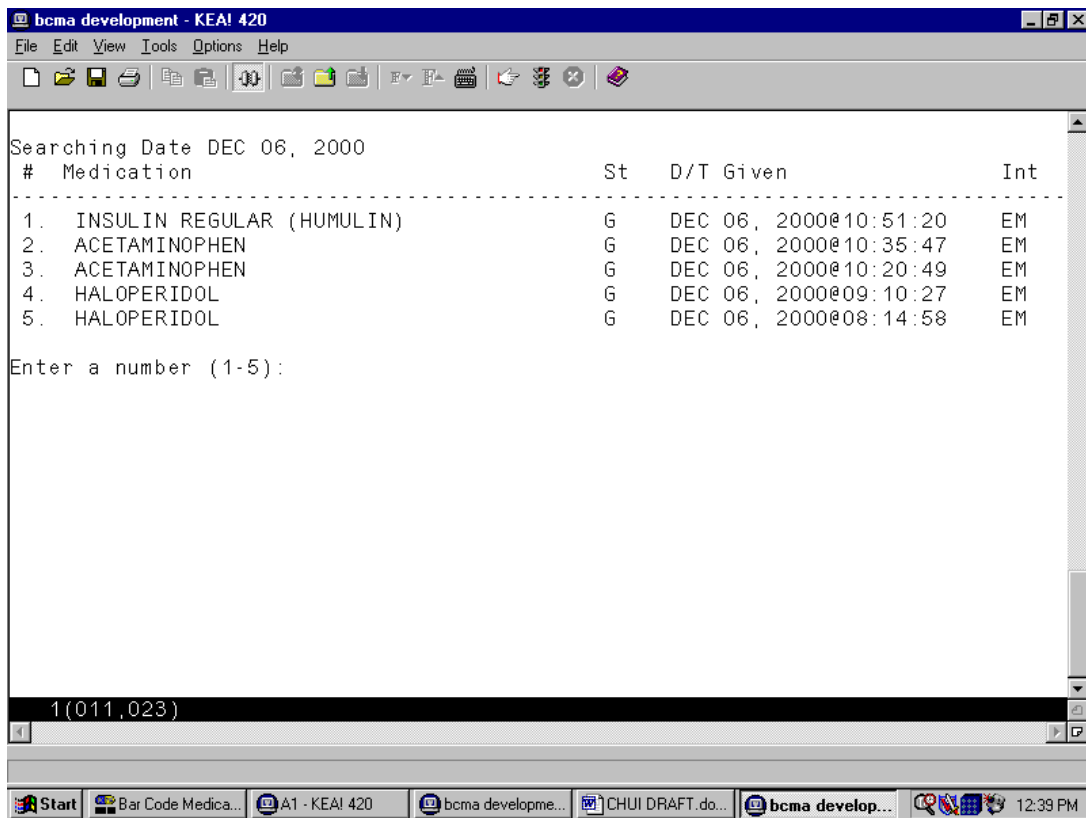


EXHIBIT 12: MEDICATION SELECTION SCREEN



4. At the “Enter a number (1-5):” prompt, type the **number** corresponding to the medication needing an Effectiveness comment, and then press <Enter>. The Effectiveness Comments Entry Screen displays, as shown in Exhibit 20, PRN Effectiveness Entry Screen.

EXHIBIT 13: PRN EFFECTIVENESS ENTRY SCREEN

PRN Effectiveness Entry

Patient: BCMAPATIENT.ONE
Location: 7A GEN MED 724-A Division: ALBANY

Medication: ACETAMINOPHEN
Administration Date/Time: JAN 30,2004@09:21:33
Administration By: BCHANURSE.ONE

PRN Reason:
Fever

PRN Effectiveness:

COMMAND: Press <PF1>H for help Insert

Connected to 10.4.21.2 Macro Print Capture Hold VT340 1 hr 24 min Row 15 Col 2

5. At the “PRN Effectiveness:” prompt, type a **comment** (up to 150 characters), and then press **<Enter>**.
 6. At the “COMMAND:” prompt, type **S** for Save, **E** to Exit, or **R** for Refresh, and then press **<Enter>**. When you save the comments, the system adds them to the PRN Effectiveness List Report.
- If you try to exit the screen and the data has not been saved, the system will display the “Save changes before leaving form (Y/N)?” prompt. If you enter **N** for No, the data will not be saved. If you enter **Y** for Yes, the changes will be saved.

3.10 Manual Medication Entry

The *Manual Medication Entry* [PSB MED LOG NEW ENTRY] option lets Nursing personnel manually create a medication administration entry for any medication order. This option will also display orders that have expired or been discontinued on the date selected. Entries for expired and discontinued orders are sometimes necessary if a patient has been transferred or discharged before the administration documentation process has been completed.

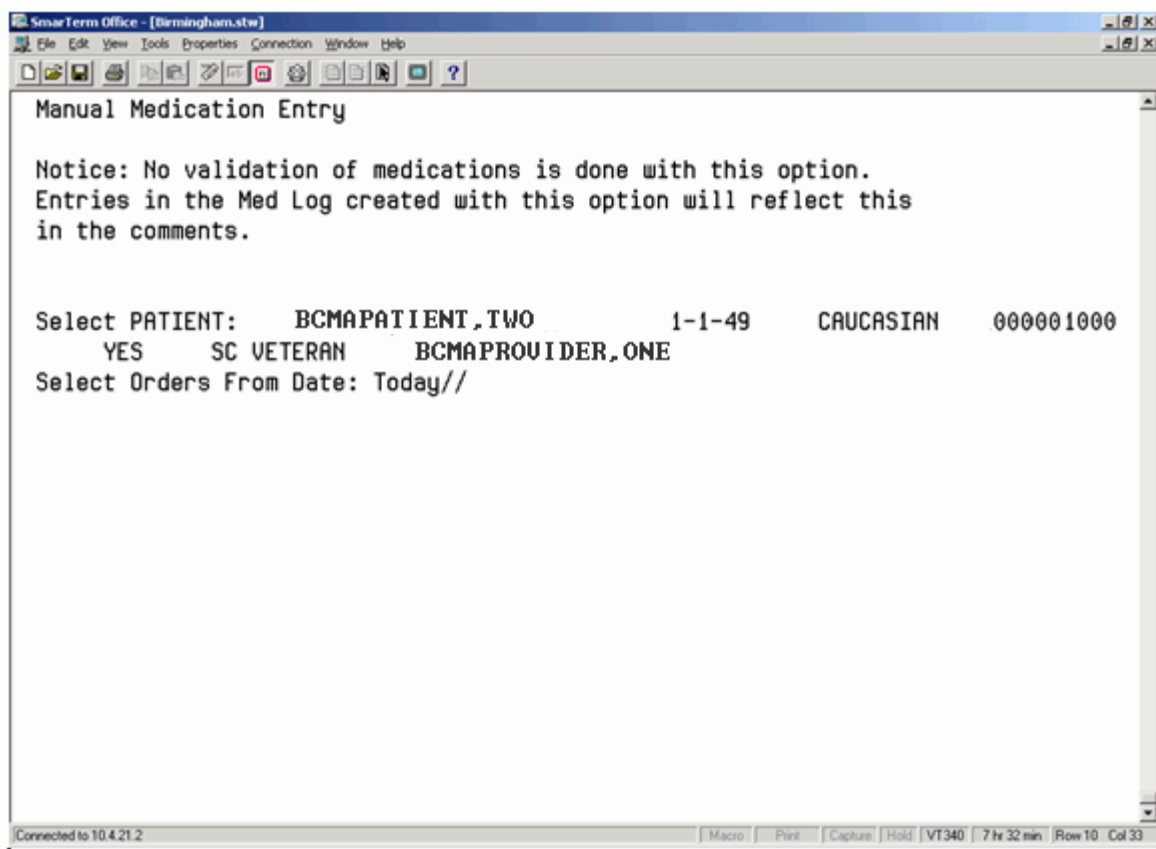
- Medication orders will not be electronically validated with the *Manual Medication Entry* [PSB MED LOG NEW ENTRY] option. However, the Medication Log will include comments and audits for any order that was entered using the *Manual Medication Entry* [PSB MED LOG NEW ENTRY] option. You should limit the use of this option.

Removal Times display after the Admin Times when the medication being manually administered and selected in the Manual Medication Entry screen for the patient is a medication requiring removal, as shown in Exhibits 22-24.

To manually create a medication administration entry for an active order:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **8**, and then press **<Enter>** to access the *Manual Medication Entry* [PSB MED LOG NEW ENTRY] option. Additional information entry prompts will display, as illustrated in Exhibit 21, Manual Medication Entry Patient Selection Screen, provided below.
2. At the “Select PATIENT:” prompt, type the **patient’s name or SSN**, and then press **<Enter>**.

EXHIBIT 14: MANUAL MEDICATION ENTRY PATIENT SELECTION SCREEN



3. At the “Select Orders From Date: Today//” prompt, press <Enter> to select today's date, or **enter a date** and then press <Enter>. A list of orders for this patient will display, as shown in Exhibit 22, Manual Medication Entry Medication Selection Screen.
4. At the “Enter RETURN to continue or '^' to exit:” prompt, press <Enter> to continue with the entry.

You can return to the Main Options Menu by entering ^, and then pressing <Enter>.

EXHIBIT 15: MANUAL MEDICATION ENTRY MEDICATION SELECTION SCREEN

Manual Medication Entry	#	Sc Medication	St
1.	C	ACETAMINOPHEN TAB	(A) Start: 01/10/2016 0800 Stop: 01/15/2016 2300
		Admin Times: 0800-1600-2400	
2.	C	CAPSAICIN PATCH	(A) Start: 01/08/2016 0900 Stop: 01/18/2016 2300
		Admin Times: 0900	
		Removal Times: 1700	
3.	C	CONCENTRATED INSULIN INJ	(A) Start: 01/10/2016 1200 Stop: 01/18/2016 2300
		Admin Times: 0600-1200-1800-2400	
4.	C	GENTAMICIN INJ,SOLN	(A) Start: 01/06/2016 1200 Stop: 01/18/2016 2300
		Admin Times: 0100-0500-0900-1300-1700-2100	
5.	C	NICOTINE PATCH	(A) Start: 01/12/2016 0800 Stop: 01/18/2016 2300
		Admin Times: 0900	
		Removal Times: 2100	
6.	O	ACETAMINOPHEN TAB	(E) Start: 12/08/2015 1324 Stop: 12/13/2015 2300
Enter a number (1-6): 5			

5. At the “Enter a number (1-6):” prompt, type the **number** that corresponds to the medication in the list, and then press <Enter>. The screen illustrated in Exhibit 23, Administration Time Selection Screen, will display.

EXHIBIT 16: ADMINISTRATION TIME SELECTION SCREEN

```
Order:          66U
Medication:     NICOTINE PATCH
Dosage:         ONE PATCH
Schedule:       QDAY
Admin Times:    0900
Removal Times: 2100

Is this the correct Order? Yes// (Yes)

Enter the DATE the medication was administered: //y ??
Enter the DATE the medication was administered: //t (JAN 12, 2016)

    Select one of the following:

        1          0900

Select Administration Time: 1 0900

Create an administration for JAN 12, 2016@09:00? Yes// (Yes)
```

6. At the “Is this the correct Order? Yes//” prompt, press <Enter> to accept the order.
 - If you enter N for No, the screen reverts to the Manual Medication Entry Medication Selection Screen, shown in Exhibit 22.

A brief Administration History for PRN medications displays up to the last four actions for the selected orderable item.

7. At the “Create an administration for this order? Yes//” prompt, press <Enter> if you want to create an administration for the PRN medication. Then enter a **PRN Reason** (1-30 characters) at the prompt that displays, and then press <Enter>.
8. At the “Select Administration Time:” prompt, type the **number** of the desired administration time from the list provided, and then press <Enter>. The administration date and time will display at the “Create An Administration:” prompt.
 - If the date and time are correct, press <Enter>.
 - If the date and time are not correct, enter N for No at the “Create An Administration:” prompt. The screen will revert to the Manual Medication Entry Medication Selection Screen, as shown in Exhibit 22. The manual entry screen displays, as shown in Exhibit 24, Medication Log Manual Entry Screen.

EXHIBIT 17: MEDICATION LOG MANUAL ENTRY SCREEN

Medication Log Manual Entry - Unit Dose Order		

Patient:	BCMAPATIENT,FOUR	SSN: 000000404
Medication:	NICOTINE	
Admin Status:	GIVEN	Admin Date/Time: JAN 12,2016@19:30:21
Injection Site:		
Dermal Site:		
PRN Reason:		
PRN Effectiveness:		
Dispense Drugs...		
Comment (Required):	Administered as scheduled	

9. At the “Admin Status:” prompt, type **G** for Given, **H** for Held, or **R** for Refused, and then press **<Enter>**.
10. At the “Admin Date/Time:” prompt, enter the **actual administration date and time**, and then press **<Enter>**.
11. At the “Injection Site:” prompt, enter a **free-text comment**, and then press **<Enter>**. This is required if the Medication Route for the medication order is defined to prompt for injection site in BCMA.
12. At the “Dermal Site:” prompt, enter a **free-text comment**, and then press **<Enter>**. This is required if the orderable item for the medication order is defined as a medication requiring removal, i.e., has “Prompt for Removal in BCMA” set to a value of 1, 2, or 3.
13. At the “PRN Reason:” prompt, enter a **free-text comment**, and then press **<Enter>**.
14. At the “PRN Effectiveness:” prompt, enter a **free-text comment**, and then press **<Enter>**.
15. At the “Dispense Drugs...” prompt, press **<Enter>**. A Dispense Drugs Popup Box will display the Dispense Drug(s) associated with this order, the number of units ordered and actually administered, and a description of the dispensed units associated with the drug name.
16. Perform the following actions:
 - Change the dispense drug if desired, and then press **<Enter>**.
 - At the “Units Given:” prompt, type a **number** between 0 and 50, and then press **<Enter>**.
 - At the “Units” prompt, type the **form being dispensed**, such as Tablet, Capsule, or Liquid. This is a free-text entry prompt used to enter the units.
 - After the Dispense Drugs information is complete, press **<Enter>** twice.
 - At the “COMMAND: Close” prompt, press **<Enter>** again to close the Dispense Drugs Popup Box.

-
17. At the “Comment (Required):” prompt, type a **free-text comment** (up to 150 characters), and then press <**Enter**>. This is a required prompt anytime an entry is creating using the *Manual Medication Entry* [PSB MED LOG NEW ENTRY] option. You must enter the reason the medication entry is being edited. This information displays on the Medication Administration Log when a user requests an audit.
 18. At the “COMMAND:” prompt, type **S** for Save, **E** for Exit, or **R** for Refresh, and then press <**Enter**>.
 - If **E** is selected, and the data has not been saved, the system will display the “Save changes before leaving form (Y/N)?” prompt. If you enter **N** for No, the data will not be saved. If you enter **Y** for Yes, the changes will be saved.
 19. The screen will display the “Enter RETURN to continue or '^' to exit” prompt.
 - To edit another medication administration entry, press <**Enter**> twice.
 - To return to the Main Options Menu, enter ^, and then press <**Enter**>.

Medication Administration History (MAH) Report

The *Medication Administration History (MAH)* [PSBO MH] option lets Nursing personnel print an MAH Report for Unit Dose and IV medication orders. This report lists a clinician’s name and initials, and the exact time that an action was taken on an order (in a conventional MAR format). Each order is listed alphabetically by the orderable item. The Date column lists three asterisks (***) to indicate that a medication was not due. This information is also noted in the Legend at the bottom of the MAH Report.

An MAH Report also includes patient demographics data, allergies and ADR information, plus detailed information about the order, such as the drug/additive/solution; the medication schedule, dose, route, and injection site; the actual administration times; removal times for medications requiring removal; the name and initials of the clinician who administered the medication; and the individuals who verified the order. It also includes information about when an order is placed “On Hold” and taken “Off Hold” by a provider, and the order Start and Stop Date/Time for the medication.

- If no parameter is defined in CPRS, the maximum date range defaults to a seven-date range. For example, a report would list the Sunday proceeding, and the Saturday following, the date that you selected for the report.
- When a student nurse is administering medications under the supervision of an instructor, and both individuals hold the appropriate security keys (i.e., PSB STUDENT and PSB INSTRUCTOR), an asterisk prints next to the student’s initials on the MAH. A legend prints at the bottom of the MAH to indicate the date/time the medication was given, along with the names of the student and the instructor.

To print an MAH Report:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **9**, and then press <**Enter**> to access the *Medication Administration History (MAH)* [PSBO MH] option.
2. See Section 3.2, “Using ScreenMan Format to Request a Report,” for instructions about requesting an MAH. Exhibit 25, MAH Report by Patient, shows an example of the MAH Report.

EXHIBIT 18: MEDICATION ADMINISTRATION HISTORY REPORT BY PATIENT

```

=====
MEDICATION ADMINISTRATION HISTORY for May 11, 2016@00:01 to May 12, 2016@09:00
Include Inpatient and Clinic Orders
Continuing/PRN/Stat/One Time Medication/Treatment Record (VAF 10-2970 B, C, D)      Run Date: MAY 20, 2016@16:14

Page: 1

Patient:  TESTPAT,NSTHREE                SSN: 666-12-2223                DOB:  JAN 22,1972 (44)
Sex:      FEMALE                          Ht/Wt:  */*                    Ward:  GEN MED Rm: B-4
Dx:      Undetermined back pain           Last Mvmt: SEP 28,2015@11:48:24  Type:  ADMISSION

ADRs:    No ADRs on file.

Allergies: STRAWBERRIES

** INPATIENT ORDERS **
=====
Location
Start Date      Stop Date      Admin          05/11/2016    05/12/2016
and Time        and Time      Times
-----
INPATIENT
05/11/2016      06/01/2016    0100           |           |
@12:00          @08:00        0500           | G0459 NSS | H0101 KRG
                | 0900         | G0917 NSS    |
ASPIRIN CAP,ORAL
ASPIRIN BUFFERED 325MG TAB 1300           | G1312 LM   |
Give: 325MG PO Q4H      1700           | G1658 GRB  |
                2100           | G2100 GRB  |
RPH:  NSS  RN:

-----
INPATIENT
05/11/2016      05/23/2016    0600           | G0609 NSS  | G0559 KRG
@09:00          @15:44        1800           | RM1803 GRB | RM1801 PRV
FENTANYL PATCH
FENTANYL 12MCG/HR PATCH
Give: 1 PATCH Q12H
Removal Times: 1800
                0600
RPH:  NSS  RN:

-----
INPATIENT
03/28/2016      05/11/2016    0100           | G0100 NSS  | G0110 NSS
@11:00          @18:13        0700           | G0659 NSS  | G0701 NSS
                1300           | G1258 LMN  | G1310 LMN
                1900           | G1805 PQR  | G1755 PQR
NIACIN INJ,SOLN
NIACIN 100MG/ML INJ Give:
7.5mg Q6H
***DISCONTINUED BY PHARMACIST
NSS MAY 11, 2016@18:13:44
RPH:  NSS  RN:          ***          ***

-----
Initial - Name Legend

Status Codes
C - Completed
G - Given
H - Held
I - Infusing
M - Missing Dose Requested
R - Refused
RM - Removed
S - Stopped
> - Scheduled administration times for the order have been changed
*** - Medication Not Due

```

3.11 Missing Dose Request

The *Missing Dose Request* [PSB MISING DOSE REQUEST] option was removed by patch PSB*3*70.

3.12 Medication Variance Log Report

With the *Medication Variance Log* [PSBO MV] option, Nursing personnel can print or display exceptions to the medication administration and removal process. The report can be run by patient, or by ward, as shown in Exhibit 29, Medication Variance Log Report by Patient, and Exhibit 30, Medication Variance Log Report by Ward.

- This report provides users with more “event” information within a selected date range, such as the type and number of events, and the total percentage of events that occurred. A variance preceded by a minus sign (such as -24) indicates the number of minutes a medication was given *before* the administration time.

To print a Medication Variance Log Report:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **11**, and then press **<Enter>** to access the *Medication Variance Log* [PSBO MV] option.
2. See Section 3.2, “Using ScreenMan Format to Request a Report,” for instructions about requesting a Medication Variance Log.

EXHIBIT 19: MEDICATION VARIANCE LOG REPORT BY PATIENT

```

=====
MEDICATION VARIANCE LOG for May 11, 2016@00:01 to May 13, 2016@24:00                               Run Date: MAY 20, 2016@16:20
Include Inpatient Orders Only
Page: 1
Patient: TESTPATIENT,FOUR                               :           666-12-2223           DOB: JAN 22,1972 (44)
Sex: FEMALE                                             Ht/Wt:      */*           Ward: GEN MED Rm: B-4
Dx: Undetermined back pain                             Last Mvmt: SEP 28,2015@11:48:24   Type: ADMISSION

ADRs:           No ADRs on file.

Allergies: BEE STING
=====
Event Date/Time      Event              Var      Medication
-----
MAY 11, 2016@17:55:49 EARLY/LATE DOSE      175      ASPIRIN
Ward: GEN MED B-4
Comments: 05/11/16 17:55 By: NSS TEST
MAY 11, 2016@11:56:10 EARLY/LATE REMOVE    86      SELEGILINE
Ward: GEN MED B-4
Comments: 03/28/16 13:39 By: NSS TEST
          05/11/16 17:56 By: NSS Removed: TEST
MAY 11, 2016@07:56:07 EARLY/LATE REMOVE   -59      SCOPOLAMINE
Ward: GEN MED B-4
Comments: 02/29/16 14:23 By: NSS TEST
          05/11/16 17:56 By: NSS Removed: TEST
MAY 12, 2016@09:16:55 EARLY/LATE DOSE      199      NICOTINE
Ward: GEN MED B-4
Comments: 05/11/16 18:16 By: NSS test
          05/11/16 18:23 By: NSS Removed: SET
MAY 12, 2016@18:17:16 EARLY/LATE DOSE     -163     ASPIRIN
Ward: GEN MED B-4
Comments: 05/12/16 18:17 By: NSS test
MAY 13, 2016@12:17:38 EARLY/LATE DOSE       43      ASPIRIN
Ward: GEN MED B-4
Comments: 05/11/16 18:17 By: NSS test
          05/12/16 08:42 By: NSS test
          05/13/16 18:22 By: NSS Removed: TEST
MAY 13, 2016@08:42:27 EARLY/LATE DOSE     -128     LIDOCAINE
Ward: GEN MED B-4
Comments: 05/12/16 08:42 By: NSS test

Total Number of Events for the reporting period is: 7.

Total number of EARLY/LATE DOSE events is 5.
Percentage of Total Events: 71%

Total number of EARLY/LATE REMOVE events is 2.
Percentage of Total Events: 29%
=====
TESTPAT,THREE                               666-12-2223                               Ward: GEN MED Room-Bed: B-4

```

EXHIBIT 20: MEDICATION VARIANCE LOG REPORT BY WARD

MEDICATION VARIANCE LOG

Run Date: NOV 16, 2001@14:34

Page: 2

Ward Location: 7A SURG

Division: ALBANY

```
=====
Ward      Patient Name      Event Date/Time  Event      Var Medication
-----
7A SURG 010-A  BCMAPATIENT,ONE  AUG 24, 2001@15:47:40 EARLY/LATE DOSE  227  POTASSIUM CHLORIDE
Ward: 7A SURG 010-A
Comments: <No Comments>
          SEP 12, 2001@09:37:28 EARLY/LATE DOSE  -443  ACETAMINOPHEN
Ward: 7A SURG 010-A
Comments: 09/12/01 09:37 By: RR
          SEP 12, 2001@12:14:20 EARLY/LATE DOSE  434  ACETAMINOPHEN
Ward: 7A SURG 010-A
Comments: <No Comments>
          OCT 05, 2001@15:20:55 EARLY/LATE DOSE  -340  BIPERIDEN
Ward: 7A SURG 010-A
Comments: <No Comments>
          OCT 09, 2001@13:02:19 EARLY/LATE DOSE  242  BIPERIDEN
Ward: 7A SURG 010-A
Comments: 10/09/01 15:06 By: VN Entry created with 'Manual Medication Entry' option.
          10/09/01 15:06 By: VN CHECKING GIVEN
          OCT 09, 2001@14:08:12 EARLY/LATE DOSE  308  BIPERIDEN
Ward: 7A SURG 010-A
Comments: 10/09/01 15:06 By: VN Entry created with 'Manual Medication Entry' option.
          10/09/01 15:06 By: VN CHECKING GIVEN
          OCT 09, 2001@14:19:47 EARLY/LATE DOSE  319  BIPERIDEN
Ward: 7A SURG 010-A
Comments: 10/09/01 15:06 By: VN Entry created with 'Manual Medication Entry' option.
          10/09/01 15:06 By: VN CHECKING GIVEN
          OCT 09, 2001@14:29:32 EARLY/LATE DOSE  329  BIPERIDEN
Ward: 7A SURG 010-A
Comments: 10/09/01 15:06 By: VN Entry created with 'Manual Medication Entry' option.
          10/09/01 15:06 By: VN CHECKING GIVEN
          OCT 11, 2001@09:26:41 LATE PRN EFFECT  15   SALICYLIC ACID
Ward: 7A SURG 010-A
Comments: <No Comments>
```

Total Number of Events for the reporting period is: 9

Total number of EARLY/LATE DOSE events is 8.
Percentage of Total Events: 89%

Total number of LATE PRN EFFECT events is 1.
Percentage of Total Events: 11%

3.13 Drug File Inquiry

The *Drug File Inquiry* [PSB DRUG INQUIRY] option lets Nursing and Pharmacy personnel check the bar-coded Internal Entry Number (IEN) Code listed on dispensed Unit Dose medications. This is particularly useful in helping resolve discrepancies when the incorrect bar code is affixed to a medication.

On a medication bar code, the IEN appears on the first line next to the Drug name. Any additional synonyms loaded into Pharmacy Data Management V. 1.0 also appear under the Synonym heading of this option.

To run a drug file inquiry:

1. At the “Select Medication Administration Menu Nursing Option:” prompt, type **12**, and then press <Enter> to access the *Drug File Inquiry* [PSB DRUG INQUIRY] option.
2. At the “Select DRUG:” prompt, as shown in Exhibit 31, Drug File Inquiry Screen 1, type the **name and dosage of the drug**, and then press <Enter>.

You can display a list by entering a ? at the “Select DRUG:” prompt, and then pressing <Enter>. The Drug File information will display, as illustrated in Exhibit 32, Drug File Inquiry Screen 2.

EXHIBIT 21: DRUG FILE INQUIRY SCREEN 1

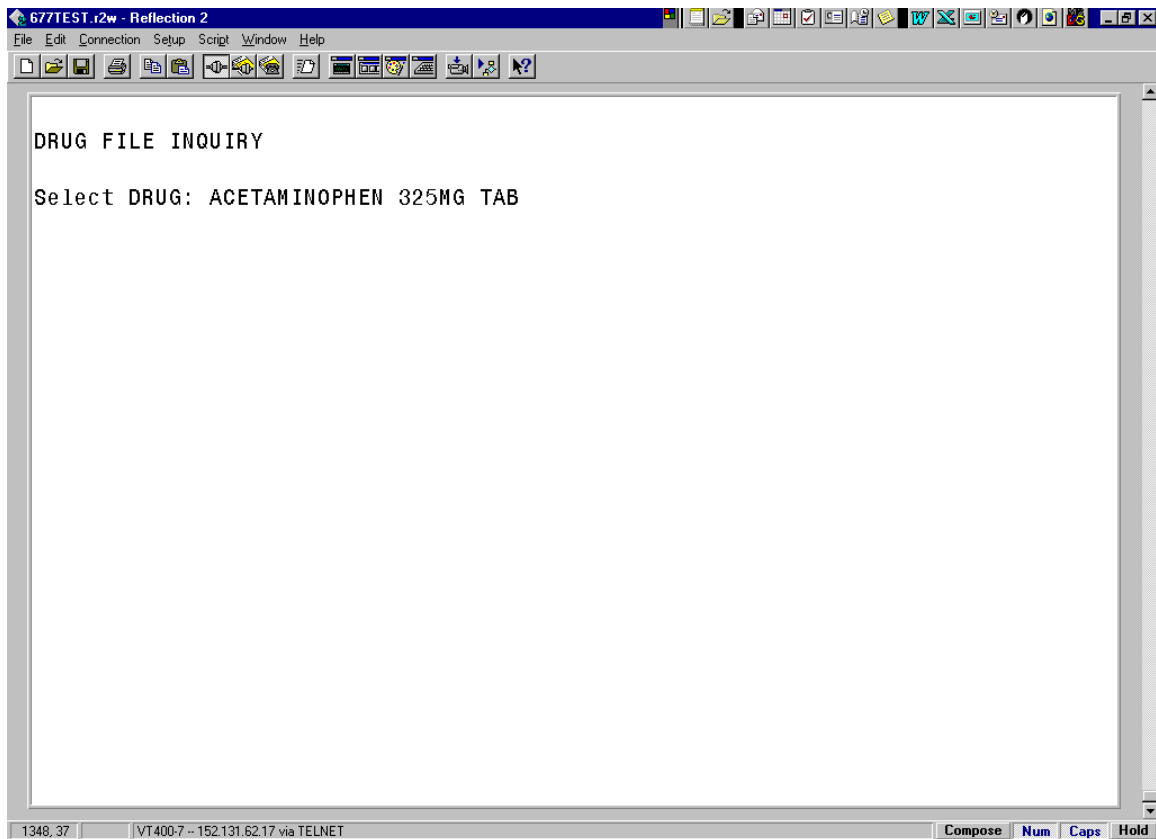
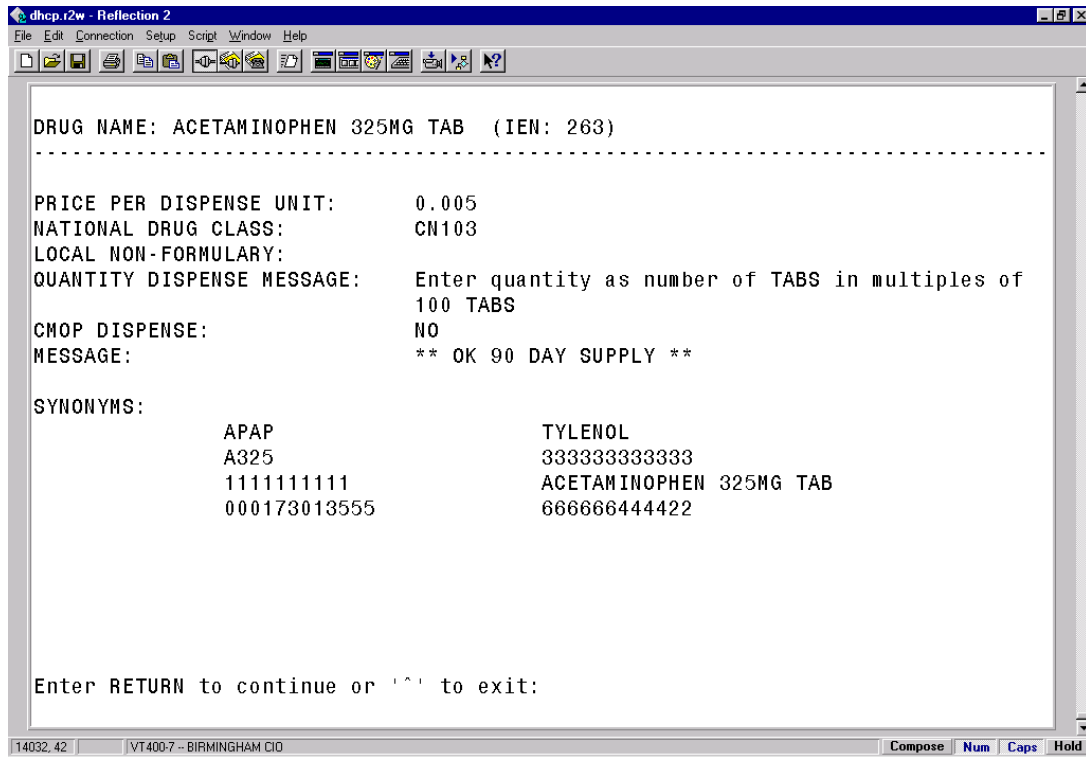


EXHIBIT 22: DRUG FILE INQUIRY SCREEN 2



- The IEN displays on the first line, to the right of the Drug Name. The IEN is unique to this drug file entry. In most cases, it is the bar-coded number on the Unit Dose packages that are created in the Pharmacy. Manufacturers' National Drug Code (NDC) bar codes may display at the "SYNONYMS:" prompt of this display. If the drug is Non-Formulary (N/F), the "Non-Formulary:" prompt will be set to N/F.

GLOSSARY

This section contains definitions for acronyms and terms used throughout this manual.

Acronyms

ADR	Adverse D rug R eaction.
BCMA	B ar C ode M edication A dministration.
CHUI	C haracter-based U ser I nterface.
CPRS	C omputerized P atient R ecord S ystem.
GUI	G raphical U ser I nterface.
IEN	I nternal E ntry N umber.
IV	I ntravenous.
MAH	M edication A dministration H istory.
MAR	M edication A dministration R ecord.
N/F	Non-formulary
NDC	N ational D rug C ode.
PRN	P ro R e N ata, or “as needed.”
VDL	V irtual D ue L ist.
VistA	V eterans H ealth I nformation S ystems and T echnology A rchitecture.

Terms

ADR	Adverse Drug Reaction. Any response to a drug which is noxious and unintended, and which occurs at doses normally used in humans for treatment, diagnosis, or therapy of a disease, or for modifying physiological functions, including toxicity caused by overdose, drug interaction, drug abuse, drug withdrawal, significant failure of expected action, food-drug interaction, or allergy.
Administration History Report	A report in CPRS that lists the date, time, and orderable item of a medication highlighted on the CPRS Meds Tab. This report is called “Medication History Report” in BCMA.
Audits	The process that tracks the activities of nurses administering medications, by recording selected types of events in the patient’s Medication Log.
BCMA	A <i>VISTA</i> software application used in VAMCs for validating patient information and medications against active medication orders <i>before</i> being administered to a patient.
Clinician	VAMC personnel who administer active medication orders to patients on a ward. In a VAMC, a number of teams may be assigned to take care of one ward, with specific rooms and beds assigned to each team.
Completed	This status for an IV bag indicates that the infusion has been completed, and the bag is being taken down or replaced with a new bag. No additional actions may be taken on a bag marked as “Completed,” other than to enter comments.
Continuous Order	A medication given continuously to a patient for the life of the order, as defined by the order Start and Stop Date/Time.
CPRS	A <i>VISTA</i> software application that allows users to enter patient orders into different software packages from a single application. All pending orders that appear in the Unit Dose and IV packages are initially entered through the CPRS package. Clinicians, managers, quality assurance staff, and researchers use this integrated record system.
Dispensed Drug	A drug whose name has the strength associated with it (e.g., Acetaminophen 325 mg). The name without the strength is called the “Orderable Item Name.”
Due List Report	A report that provides detailed information about active <i>and</i> future Unit Dose and IV medication orders that are “due” for administering to a patient during a time frame that you specify within a 24-hour period.
Given	When a medication is administered to a patient, it is considered to be “Given” and marked as such (with a “G”) in the Status column of the VDL.
GUI	Graphical User Interface. The type of interface chosen for BCMA.

Held	When a medication is not actually taken by a patient, it is considered to be “Held” and marked as such (with an “H”) in the Status column of the VDL. Reasons might include the patient being temporarily off the ward. You can select and mark multiple medications as Held on the VDL using the Right Click drop-down menu. In the case of IV bags, this status indicates that the dose was Held. The only actions available for this type of IV bag are to mark the bag as Infusing or Refused, or to submit a Missing Dose Request to the Pharmacy.
Hold	To display a medication order grayed out on the VDL until its Stop Date/Time or until it is Given. Some medical centers require that a nurse mark these order types as “Held,” although it is <i>not</i> necessary that they do so.
IEN Code	The internal entry drug number entered by Pharmacy personnel into the DRUG file (#50) to identify Unit Dose and IV medications.
Infusing	This status, for an IV bag, indicates that the bag is actively being infused. A nurse can enter a comment by right clicking on the bag. If an IV bag is scanned, the only allowable actions are to mark the IV bag as Stopped or Completed.
IV	A medication given intravenously (within a vein) to a patient from an IV Bag. IV types include Admixture, Chemotherapy, Hyperal, Piggyback, and Syringe.
MAH	A patient report that lists a clinician’s name and initials, and the exact time that an action was taken on an order (in a conventional MAR format). Each order is listed alphabetically by the orderable item. The Date column lists three asterisks (***) to indicate that a medication is not due. The report also lists information about when an order is placed “On Hold” and taken “Off Hold” by a provider, and the order Start and Stop Date/Time for the medication.
Medication Administration History Report	Also called “MAH,” A patient report that lists a clinician’s name and initials, and the exact time that an action was taken on an order (in a conventional MAR format). Each order is listed alphabetically by the orderable item. The Date column lists three asterisks (***) to indicate that a medication is not due. The report also lists information about when an order is placed “On Hold” and taken “Off Hold” by a provider, and the order Start and Stop Date/Time for the medication.
Medication History Report	A report in BCMA that lists the date, time, and orderable item of a medication selected on the VDL. This report is called “Administration History Report” in CPRS.
Medication Log Report	Also called “Med Log,” a report that lists every action taken on a medication order within a specified 24-hour period. You can choose to include Comments and Audits performed on the patient’s medication orders.

Missing Dose	A medication considered “Missing.” BCMA automatically marks this order type (with an “M”) in the Status column of the VDL after you submit a Missing Dose Request to the Pharmacy. If an IV bag displayed in the IV Bag Chronology display area of the VDL is <i>not</i> available for administration, you may mark the IV bag as a “Missing Dose” using the Missing Dose button or by right clicking the IV bag and selecting the Missing Dose command in the Right Click drop-down menu.
Missed Medications Report	A report that lists information about Continuous and One-Time Unit Dose and IV Piggyback medications that were <i>not</i> administered to a patient.
National Drug Code	Also called “NDC,” the number assigned by a manufacturer to each item/medication administered to a patient.
Not Given	The status that a scanned medication marked as “Given,” but <i>not</i> actually taken by a patient, is changed to on the VDL – by using the “Undo-Given” option. The administration will display on the VDL as it appeared <i>before</i> it was marked as “Given.” BCMA notes the status change only in the Audit Trail section of the Medication Log (<i>not</i> on the VDL).
NOW Order	A medication order given ASAP to a patient, entered as a One-Time order by Providers and Pharmacists. This order type displays for a fixed length of time on the VDL, as defined by the order Start and Stop Date/Time.
On-Call Order	A specific order or action dependent upon another order or action taking place <i>before</i> it is carried out. For example, “Cefazolin 1gm IVPB On Call to Operating Room.” Since it may be unknown when the patient will be taken to the operating room, the administration of the On-Call Cefazolin is dependent upon that event.
One-Time Order	A medication order given one time to a patient such as a STAT or NOW order. This order type displays for a fixed length of time on the VDL, as defined by the order Start and Stop Date/Time or until it is Given.
Orderable Item	A drug whose name does NOT have the strength associated with it (e.g., Acetaminophen 325 mg). The name with a strength is called the “Dispensed Drug Name.”
PRN Effectiveness List Report	A report that lists PRN medications administered to a patient that needs Effectiveness comments.
Provider	Another name for the “Physician” involved in the prescription of a medication (i.e., Unit Dose or IV) to a patient.
PSB CPRS MED BUTTON	The name of the security “key” that must be assigned to nurses who document verbal- and phone-type STAT and medication orders using the CPRS Med Order Button on the BCMA VDL.

PSB INSTRUCTOR	The name of the security “key” that must be assigned to nursing instructors, supervising nursing students, so they can access user options within BCMA V. 3.0.
PSB MANAGER	The name of the security “key” that must be assigned to managers so they can access the PSB Manager options within BCMA V. 3.0.
PSB STUDENT	The name of the security “key” that must be assigned to nursing students, supervised by nursing instructors, so they can access user options with BCMA V. 3.0. This key requires that a nursing instructor sign on to BCMA V. 3.0.
Refused	The status for an IV bag or Unit Dose to indicate that the patient refused to take the dose.
Removed	The status for a patch (i.e., Nitroglycerin, Fentanyl, or Nicotine) to indicate that it has been removed from a patient. Once removed, the letters “RM” (for “Removed”) display in the Status column of the VDL.
Schedule	The frequency at which a medication is administered to a patient. For example, QID, QD, QAM, Q4H.
Schedule Type	Identifies the type of schedule (i.e., Continuous, PRN, On-Call, and One-Time) for the medication being administered to a patient.
Security Keys	Used to access specific options within BCMA that are otherwise “locked” without the security key. Only users designated as “Holders” may access these options.
Start Date/Time	The date and time that a medication is scheduled for administration to a patient.
STAT Order	A medication order given immediately to a patient, entered as a One-Time order by providers and pharmacists. This order type displays for a fixed length of time on the VDL, as defined by the order Start and Stop Date/Time.
Status	A code used to inform a clinician about the condition or progress of a medication order. For Unit Dose and IVP/IVPB orders, status codes include G=Given, H=Held, R=Refused, M=Missing, and RM=Removed (patch removal only). For IV orders, status codes include I=Infusing, H=Held, R=Refused, S=Stopped, C=Completed, and M=Missing.
Stop Date/Time	The date and time that a medication order will expire, and should no longer be administered to a patient.
Stopped	This status, for an IV bag, indicates that the IV bag was scanned as Infusing, but was then stopped by a nurse. An IV bag may be stopped and restarted for a variety of reasons. The only actions allowed on a “Stopped” IV bag is to mark the bag as Infusing, Completed, Held, or Refused.
Unit Dose	A medication given to a patient, such as tablets or capsules.
VDL	An on-line “list” used by clinicians when administering active medication orders (i.e., Unit Dose, IV Push, IV Piggyback, and large-volume IVs) to a patient. This is the Main Screen in BCMA.

Verify	When a nurse or a pharmacist confirms that a medication order is accurate and complete, according to the information supplied by the provider.
Virtual Due List	Also called “VDL,” an on-line list used by clinicians when administering active medication orders to a patient. This is the Main Screen in BCMA.

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