## Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Revised Pages</th>
<th>Patch Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>11/2016</td>
<td>i-iv, 1, 3, 7-9</td>
<td>PSB<em>3</em>83</td>
<td>Updated Revision History and TOC.</td>
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<td>Added new removal information for medications requiring removal.</td>
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<td>Updated BCMA Nursing Option Menu Screen.</td>
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<td>Added explanations and new screen prints for BCMA reports containing medications requiring removal changes: Medication Administration Log.</td>
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<td>Updated Missed Medications.</td>
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<td>Updated Ward Administration Times Report and Administration Times Report by Patient screens.</td>
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<td>Updated Due List Report section and screens.</td>
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<td>Updated Patient Selection Screen.</td>
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<td></td>
<td>Updated Manual Medication Entry and screen.</td>
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<td>Updated Medication Administration History Report by Patient screen.</td>
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<td>Updated Medication Variance Log Report screen.</td>
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<td>Updated Index.</td>
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<td>(D. Connolly, PM; E. Phelps, R. Walters, Tech Writers)</td>
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<tr>
<td>12/2015</td>
<td>31-35</td>
<td>PSB<em>3</em>70</td>
<td>Removed Missing Dose Request [PSB MISING DOSE REQUEST] option.</td>
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<td>(D. Connolly, PM; E. Phelps, R. Walters, Tech Writers)</td>
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<tr>
<td>10/2004</td>
<td>iii-iv, 5, 14-18, 50, 53-54</td>
<td>PSB<em>3</em>3</td>
<td>– 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)</td>
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<td></td>
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<td></td>
<td>– Removed the reference to the Edit Medication Log in the second paragraph, and updated Exhibit 1: BCMA Nursing Option Menu Screen. (p. 5)</td>
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<td></td>
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<td></td>
<td>– 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)</td>
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<td>– Updated definition of “Not Given” and fixed typos on page. (p. 50)</td>
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<td>– 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).</td>
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<tr>
<td>07/2004</td>
<td>36, 37</td>
<td>PSB<em>3</em>5</td>
<td>– Updated the second paragraph to include the “Allergies” information. (p. 36)</td>
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<td>– Updated the “Example 25: Medication Administration History Report by Patient” to show the removal of the Reactions header and the</td>
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<td>02/2004</td>
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<td>inclusion of the ADRs header and the Allergies header. (p. 37)</td>
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<td>Original Released BCMA V. 3.0 Nursing CHUI User Manual.</td>
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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

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.


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.
## EXHIBIT 3: MEDICATION ADMINISTRATION LOG REPORT BY PATIENT

<table>
<thead>
<tr>
<th>Location</th>
<th>Activity Date</th>
<th>Orderable Item</th>
<th>Action</th>
<th>Action</th>
<th>Action Date/Time</th>
<th>Orderable Item</th>
<th>Action Date/Time</th>
<th>Drug/Additive/Solution</th>
<th>U/Ord</th>
<th>U/Gvn Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN MED B-4</td>
<td>05/11/16 17:55</td>
<td>ASPIRIN [325MG Q4H PO]</td>
<td>NSS</td>
<td>Given</td>
<td>05/11/16 17:55</td>
<td>ASPIRIN BUFFERED 325MG TAB</td>
<td>1.00</td>
<td>1.00 CAP,ORAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>05/11/16 18:06</td>
<td>SELEGILINE [13J ONCE Derm Site: ARM, LEFT UPPER]</td>
<td>NSS</td>
<td>Given</td>
<td>05/11/16 18:07</td>
<td>SELEGILINE 12MG/24HR PATCH</td>
<td>1.00</td>
<td>1.00 PATCH</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Comments:**
- 05/11/16 18:07 NSS Removed: TEST
- 05/11/16 06:40 NSS Removed: TEST

**Audits:**
- 05/11/16 18:07 NSS Field: ACTION DATE/TIME Set to 'MAY 11, 2016@18:07:06'.
- 05/11/16 18:07 NSS Field: ACTION STATUS Set to 'REMOVED' by 'NSS'.
- 05/11/16 18:06 NSS Field: ACTION DATE/TIME Set to 'MAY 11, 2016@18:06:09'.
**EXHIBIT 4: MEDICATION ADMINISTRATION LOG REPORT BY WARD**

<table>
<thead>
<tr>
<th>Location</th>
<th>Activity Date</th>
<th>Orderable Item</th>
<th>Action</th>
<th>Action</th>
<th>Start Date</th>
<th>[Dose/Sched/Route/Body Site]</th>
<th>By</th>
<th>Date/Time</th>
<th>Drug/Additive/Solution</th>
<th>U/Ord</th>
<th>U/Gvn Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>TESTPATNM, TWO</td>
<td>05/11/16 21:02</td>
<td>ACETAMINOPHEN [325MG Q8H PO]</td>
<td>LM</td>
<td>05/11/16 21:02</td>
<td>Given</td>
<td>ACETAMINOPHEN 325MG TABLET</td>
<td>1.00</td>
<td>1.00 TAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN MED B-4</td>
<td>05/11/16 18:26</td>
<td>NICOTINE [1 Q24 Derm Site: BACK, MIDDLE]</td>
<td>NSS</td>
<td>05/12/16 08:41</td>
<td>Removed</td>
<td>NICOTINE 11MG/24HR PATCH</td>
<td>1.00</td>
<td>1.00 PATCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEN MED B-4</td>
<td>05/12/16 08:42</td>
<td>LIDOCAINE [1 Q24 Derm Site: ARM, LEFT UPPER]</td>
<td>NSS</td>
<td>05/12/16 08:42</td>
<td>Given</td>
<td>LIDOCAINE 5% PATCH</td>
<td>1.00</td>
<td>1.00 PATCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orderable Item</td>
<td>Admin Activity Date</td>
<td>Admin [Dose/Sched/Route/Inj Site]</td>
<td>Drug/Solution/Additive</td>
<td>U/Ord</td>
<td>U/Gvn Unit</td>
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<tr>
<td>BCMA PATIENT, TEN (000000003)</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Ward: BCMA Rm-Bed: 401-09</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>01/14/02 09:04 CEFTAZIDIME [INFUSE OVER 30 MIN. Q12H IV Inj Site: Arm, Left Upper]</td>
<td>N3</td>
<td>01/14/02 09:04</td>
<td>CEFTAZIDIME - 1 GM DEXTROSE 5%/WATER - 50 ML</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01/14/02 09:05 POTASSIUM CHLORIDE [75 ml/hr IV Inj Site: Arm, Left Upper]</td>
<td>N3</td>
<td>01/14/02 09:05</td>
<td>POTASSIUM CHLORIDE - 20 MEQ DEXTROSE 5%/WATER - 1000 ML</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01/14/02 14:48 MOISTURIZING LOTION [ PRN TOP]</td>
<td>N3</td>
<td>01/14/02 14:48</td>
<td>DRY SKIN LOTION/ML 1.00 0.00</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>PRN Reason: C/O ITCHING PRN Effectiveness: NO RELIEF Entered By: BCMANURSE, ONE Date/Time: JAN 14, 2002@14:49:39 Minutes: 1</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>01/14/02 14:57 ACETAMINOPHEN [325-650MG Q4H]</td>
<td>N3</td>
<td>01/14/02 12:00</td>
<td>ACETAMINOPHEN 325MG TAB 2.00 3.00 TAB</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRN Reason: C/O H/A PRN Effectiveness: RELIEF Entered By: BCMANURSE, ONE Date/Time: JAN 14, 2002@14:59:01 Minutes: 179</td>
<td></td>
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<tr>
<td>BCMA PATIENT, ELEVEN (000000004)</td>
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<tr>
<td>Ward: BCMA Rm-Bed: A415-01</td>
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<tr>
<td>01/14/02 09:00 ARTIFICIAL TEARS [2 DROPS 0800-0900-1000-1100-1200-1300-1400-1500-1600-1700-1800-1900-2000-2100-2200-2300]</td>
<td>N4</td>
<td>01/14/02 09:00</td>
<td>ARTIFICIAL TEARS /ML 1.00 1.00 2 DROPS</td>
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</tr>
<tr>
<td>01/14/02 09:04 CEFTAZIDIME [INFUSE OVER 30 MIN. Q12H IV Inj Site: Arm, Right Upper]</td>
<td>N4</td>
<td>01/14/02 09:04</td>
<td>CEFTAZIDIME - 1 GM DEXTROSE 5%/WATER - 50 ML</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01/14/02 09:06 ASCORBIC ACID [500MG]</td>
<td>N4</td>
<td>01/14/02 09:06</td>
<td>ASCORBIC ACID 500MG TAB 1.00 1.00 TAB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

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**

<table>
<thead>
<tr>
<th>Order Status</th>
<th>Ver</th>
<th>Missed Date/Time Medication</th>
<th>Order Stop Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>***</td>
<td>05/11/2016@0500 NIACIN INJ,SOLN</td>
<td>05/11/2016@1813</td>
</tr>
<tr>
<td>Active</td>
<td>***</td>
<td>05/12/2016@0600 SELEGILINE PATCH</td>
<td>12/03/2016@0700</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Admin. Status: (Refused)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Comment: Refused: Nausea</td>
<td></td>
</tr>
<tr>
<td>Active</td>
<td>***</td>
<td>05/12/2016@2040 LIDOCAINE PATCH (Remove)</td>
<td>12/01/2016@0600</td>
</tr>
<tr>
<td>Active</td>
<td>***</td>
<td>05/13/2016@2100 ASPIRIN CAP,ORAL</td>
<td>07/01/2016@0800</td>
</tr>
</tbody>
</table>
### EXHIBIT 6: MISSED MEDICATIONS REPORT BY WARD

- **Order Status(es):** Active / DC'd / Expired
- **Admin Status(es):** Missing Dose / Held / Refused
- **Include Comments/Reasons**
- **Ward Location:** GENERAL MED
- **Division:** ALBANY

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

#### 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] options 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.

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
Date: MAY 23, 2016@13:09
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

EXHIBIT 5: ADMINISTRATION TIMES REPORT BY WARD

WARD ADMINISTRATION TIMES
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
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**

<table>
<thead>
<tr>
<th>Self Med</th>
<th>Sched Medication</th>
<th>Dose</th>
<th>Route</th>
<th>Given</th>
<th>@Time</th>
<th>Verifying</th>
<th>Start</th>
<th>Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UD-C</td>
<td>ASPIRIN CAP, ORAL</td>
<td>Give: 325MG Q4H</td>
<td>ORAL</td>
<td>05/11/16@1817 5/11/16 7/1/16</td>
<td>NSS/***</td>
<td>$12:00 $08:00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*ASPIRIN BUFFERED 325MG TAB</td>
<td>Admin Times: 0900-1300-1700-2100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>UD-C</td>
<td>NICOTINE PATCH</td>
<td>Give: 1 Q24</td>
<td>TRANSD</td>
<td>05/12/16@0642 5/11/16 12/1/16</td>
<td>NSS/***</td>
<td>$18:01 $06:00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>* NICOTINE 7MG/24HR PATCH</td>
<td>Admin Times: 0900</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Changes/Addendums to orders**

**OT**  
Spec  
Inst:  
Initials:  
Date:  

**OT**  
Spec  
Inst:  
Initials:  
Date:  

---

**TESTPAT,THREE**

---
**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

Order Type(s): IV / Unit Dose / Future Orders

Page 1

**Ward Location:** GENERAL MED

**Patient:** TESTPATIENT,ZERO  
DOB: JUL 10,1997 (18)

**Sex:** MALE  
Ht/Wt: */*  
Ward: GEN MED  
Room:

**Dx:** TRAUMA TO HEAD  
Last Mvmt: JUN 29,2016@12:55:52  
Type: ADMISSION

**ADRs:** No ADRs on file.

**Allergies:** No Known Allergies

---

<table>
<thead>
<tr>
<th>Med</th>
<th>Sched</th>
<th>Medication</th>
<th>Dose</th>
<th>Route</th>
<th>Given</th>
<th>@Time</th>
<th>@Time</th>
<th>Verifying</th>
</tr>
</thead>
<tbody>
<tr>
<td>UD-C</td>
<td>ASPIRIN CAP, ORAL</td>
<td>Give: 325MG Q4H</td>
<td>ORAL</td>
<td>05/23/1601252</td>
<td>5/11/16</td>
<td>7/1/16</td>
<td>ORAL</td>
<td>08:00</td>
</tr>
</tbody>
</table>

*ASPIRIN BUFFERED 325MG TAB*  
Admin Times:  
0500-0900-1300-1700-2100

| UD-C | FENTANYL PATCH | Give: 1 PATCH BID | TRANSO | 05/23/1601254 | 5/11/16 | 8/9/16 | R/O/NN |

**FENTANYL 100MCG/HR PATCH**  
Admin Times: None  
Remove Time: 2100

---

Changes/Addendums to orders

---

**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.

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

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

```
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 benzalconium chloride/benzyl alcohol/ethanol/simethicone/ aluminum hydroxide magnesium hydroxide simethicone                  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
```
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

Select Medication Administration Menu Nursing <TEST ACCOUNT> Option: 7 Enter PRN Effectiveness

Select Patient Name: B1313 BCMAPATIENT,THIRTEEN 1-1-51 0000013133
YES SC VETERAN
WARNING : You may have selected a test patient.
Enrollment Priority: GROUP 1 Category: IN PROCESS End Date:

Select Date to Begin Searching Back From: Today//
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.
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**

Notice: No validation of medications is done with this option. Entries in the Med Log created with this option will reflect this in the comments.

Select PATIENT: BCMAPATIENT.TWO 1-1-49 CAUCASIAN 000001000
YES SC VETERAN BCMAXVIDER.ONE
Select Orders From Date: Today//
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**

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

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**

<table>
<thead>
<tr>
<th>Order:</th>
<th>66U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medication:</td>
<td>NICOTINE PATCH</td>
</tr>
<tr>
<td>Dosage:</td>
<td>ONE PATCH</td>
</tr>
<tr>
<td>Schedule:</td>
<td>QDAY</td>
</tr>
<tr>
<td>Admin Times:</td>
<td>0900</td>
</tr>
<tr>
<td>Removal Times:</td>
<td>2100</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Medication Log Manual Entry - Unit Dose Order</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patient:</strong> BCMPATIENT, FOUR</td>
</tr>
<tr>
<td><strong>SSN:</strong> 000000404</td>
</tr>
<tr>
<td><strong>Medication:</strong> NICOTINE</td>
</tr>
<tr>
<td><strong>Admin Status:</strong> GIVEN</td>
</tr>
<tr>
<td><strong>Admin Date/Time:</strong> JAN 12, 2016@19:30:21</td>
</tr>
<tr>
<td><strong>Injection Site:</strong></td>
</tr>
<tr>
<td><strong>Dermal Site:</strong></td>
</tr>
<tr>
<td><strong>PRN Reason:</strong></td>
</tr>
<tr>
<td><strong>PRN Effectiveness:</strong></td>
</tr>
<tr>
<td><strong>Dispense Drugs...</strong></td>
</tr>
<tr>
<td><strong>Comment (Required):</strong></td>
</tr>
<tr>
<td>Administered as scheduled</td>
</tr>
</tbody>
</table>

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 &lt;Enter&gt;. 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 &lt;Enter&gt;.

- 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 &lt;Enter&gt; twice.
   - To return to the Main Options Menu, enter ^, and then press &lt;Enter&gt;.

### 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 &lt;Enter&gt; to access the **Medication Administration History (MAH)** [PSBO MH] option.
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

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

ADR:s: No ADRs on file.
Allergies: STRAWBERRIES

** INPATIENT ORDERS **

Location Start Date Stop Date and Time Admin Times

05/11/2016 06/01/2016 0100 0000 05/11/2016 05/12/2016
@12:00 @08:00 | 0500 | G0459 NSS |
| 0900 | G0917 NSS |
| 1300 | G1312 LM |
| 1700 | G1658 GRB |
Give: 325MG PO Q4H
| 2100 | G2100 GRB |

Removal Times: 1800 0600
RPH: NSS RN:

05/11/2016 05/31/2016 0100 05/11/2016 05/12/2016
@11:00 @18:13 | 0700 | G0100 NSS |
| 0100 | G0100 NSS |
| 1300 | G1258 LAM |
| 1900 | G1805 PQR |
Give: 7.5mg Q6H
| 0110 | G0110 NSS |
| 1300 | G1310 LAM |

***DISCONTINUED BY PHARMACIST
NSS MAY 11, 2016@18:13:44

RPH: NSS RN:

03/28/2016 05/11/2016 0100 05/11/2016 05/12/2016
@11:00 | 0700 | G0100 NSS |
| 0100 | G0100 NSS |
| 1300 | G1258 LAM |
Niacin 100MG/ML INJ Give:
| 1900 | G1805 PQR |
| 1755 | G1755 PQR |

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.

**EXHIBIT 19: MEDICATION VARIANCE LOG REPORT BY PATIENT**

<table>
<thead>
<tr>
<th>Event Date/Time</th>
<th>Event</th>
<th>Var</th>
<th>Medication</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAY 11, 2016@17:55:49</td>
<td>EARLY/LATE DOSE</td>
<td>175</td>
<td>ASPIRIN</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ward: GEN MED B-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAY 11, 2016@11:56:10</td>
<td>EARLY/LATE REMOVE</td>
<td>86</td>
<td>SELEGILINE</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ward: GEN MED B-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAY 11, 2016@07:56:07</td>
<td>EARLY/LATE REMOVE</td>
<td>-59</td>
<td>SCOPOAMINE</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ward: GEN MED B-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAY 12, 2016@09:16:55</td>
<td>EARLY/LATE DOSE</td>
<td>199</td>
<td>NICOTINE</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ward: GEN MED B-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAY 12, 2016@18:17:16</td>
<td>EARLY/LATE DOSE</td>
<td>-163</td>
<td>ASPIRIN</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ward: GEN MED B-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAY 13, 2016@12:17:38</td>
<td>EARLY/LATE DOSE</td>
<td>43</td>
<td>ASPIRIN</td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ward: GEN MED B-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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%
## Exhibit 20: Medication Variance Log Report by Ward

<table>
<thead>
<tr>
<th>Ward Location</th>
<th>Run Date: NOV 16, 2001@14:34</th>
</tr>
</thead>
<tbody>
<tr>
<td>7A SURG 010-A</td>
<td>Page: 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ward Location</th>
<th>Patient Name</th>
<th>Event Date/Time</th>
<th>Event</th>
<th>Var  Medication</th>
</tr>
</thead>
<tbody>
<tr>
<td>7A SURG 010-A</td>
<td>BCMAPATIENT.ONE</td>
<td>AUG 24, 2001@15:47:40</td>
<td>EARLY/LATE DOSE</td>
<td>227 POTASSIUM CHLORIDE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7A SURG 010-A</td>
<td></td>
<td>SEP 12, 2001@09:37:28</td>
<td>EARLY/LATE DOSE</td>
<td>-443 ACETAMINOPHEN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SEP 12, 2001@12:14:20</td>
<td>EARLY/LATE DOSE</td>
<td>434 ACETAMINOPHEN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OCT 05, 2001@15:20:55</td>
<td>EARLY/LATE DOSE</td>
<td>-340 BIPERIDEN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OCT 09, 2001@13:02:19</td>
<td>EARLY/LATE DOSE</td>
<td>242 BIPERIDEN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OCT 09, 2001@14:08:12</td>
<td>EARLY/LATE DOSE</td>
<td>308 BIPERIDEN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OCT 09, 2001@14:19:47</td>
<td>EARLY/LATE DOSE</td>
<td>319 BIPERIDEN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OCT 09, 2001@14:29:32</td>
<td>EARLY/LATE DOSE</td>
<td>329 BIPERIDEN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OCT 11, 2001@09:26:41</td>
<td>LATE PRN EFFECT</td>
<td>15 SALICYLIC ACID</td>
</tr>
</tbody>
</table>

**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
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

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>Adverse Drug Reaction.</td>
</tr>
<tr>
<td>BCMA</td>
<td>Bar Code Medication Administration.</td>
</tr>
<tr>
<td>CHUI</td>
<td>Character-based User Interface.</td>
</tr>
<tr>
<td>CPRS</td>
<td>Computerized Patient Record System.</td>
</tr>
<tr>
<td>GUI</td>
<td>Graphical User Interface.</td>
</tr>
<tr>
<td>IEN</td>
<td>Internal Entry Number.</td>
</tr>
<tr>
<td>IV</td>
<td>Intravenous.</td>
</tr>
<tr>
<td>MAH</td>
<td>Medication Administration History.</td>
</tr>
<tr>
<td>MAR</td>
<td>Medication Administration Record.</td>
</tr>
<tr>
<td>N/F</td>
<td>Non-formulary</td>
</tr>
<tr>
<td>NDC</td>
<td>National Drug Code.</td>
</tr>
<tr>
<td>PRN</td>
<td>Pro Re Nata, or “as needed.”</td>
</tr>
<tr>
<td>VDL</td>
<td>Virtual Due List.</td>
</tr>
<tr>
<td>VistA</td>
<td>Veterans Health Information Systems and Technology Architecture.</td>
</tr>
</tbody>
</table>
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 VISTA software application used in VAMCs for validating patient information and medications against active medication orders before 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 VISTA 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 and 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.
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.

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 not necessary that they do so.

The internal entry drug number entered by Pharmacy personnel into the DRUG file (#50) to identify Unit Dose and IV medications.

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 bag as Stopped or Completed.

A medication given intravenously (within a vein) to a patient from an IV Bag. IV types include Admixture, Chemotherapy, Hyperal, Piggyback, and Syringe.

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.

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.

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.

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 not 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 not 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 not 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 before it was marked as “Given.” BCMA notes the status change only in the Audit Trail section of the Medication Log (not 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 before 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.
<table>
<thead>
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<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verify</td>
<td>When a nurse or a pharmacist confirms that a medication order is accurate and complete, according to the information supplied by the provider.</td>
</tr>
<tr>
<td>Virtual Due List</td>
<td>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.</td>
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