



RESOURCE AND PATIENT MANAGEMENT SYSTEM

BCMA Remote Configuration & Test

Announcement and Agenda

March 30-April 3, 2015

SouthEast Alaska Regional Healthcare Consortium
Sitka, Alaska

Office of Information Technology
Division of Information Technology

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1.0 General Information

1.1 Background

The Centers for Medicare and Medicaid Services (CMS) recently published a final rule that specifies the Stage 2 criteria that eligible professionals (EP), eligible hospitals, and critical access hospitals (CAH) must meet in order to continue to participate in the Medicare and Medicaid Electronic Health Record (EHR) Incentive Programs. Through the Stage 2 requirements of the Medicare and Medicaid EHR Incentive Programs, CMS seeks to expand the meaningful use of certified EHR technology. Certified EHR technology used in a meaningful way is one piece of a broader health information technology infrastructure needed to reform the health care system and improve health care quality, efficiency, and patient safety.

This final rule specifies the Stage 2 criteria that EPs, eligible hospitals, and CAHs must meet in order to qualify for Medicare and/or Medicaid EHR incentive payments. In addition, it specifies payment adjustments under Medicare for covered professional services and hospital services provided by EPs, eligible hospitals, and CAHs failing to demonstrate meaningful use of Certified EHR Technology and other program participation requirements. This final rule revises certain Stage 1 criteria, as finalized in the July 28, 2010 final rule, as well as criteria that apply regardless of Stage.

New Core and Menu Set Objectives and Measures for Stage 2:

Automatically track medication orders using an electronic medication administration record

(16)(i) Objective. Automatically track medications from order to administration using assistive technologies in conjunction with an electronic medication administration record (eMAR).

(ii) Measure. Subject to paragraph (c) of this section, more than 10 percent of medication orders created by authorized providers of the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period for which all doses are tracked using eMAR. (iii) Exclusion in accordance with paragraph (i)(2) of this section. Any eligible hospital or CAH with an average daily inpatient census of fewer than 10 patients.

1.2 Bar Code Medication Administration Assistive Technology

Bar Code Medication Administration (BCMA) assistive technology is a software application which is used by the Veterans Health Administration (VHA) facilities to document medication administration activities and reduce medication errors. Ensuring the software is usable is paramount to successful adoption by the end-users. The Bar Code Resource Office (BCRO), using a Cognitive Engineer/Human Factors expert, has developed a structured process for performing usability assessments of new features under development. The following information is provided as a guide to assist the BCMA Software Development team in applying a structured process to future usability assessments.

Stage 2 Eligible Hospital and Critical Access Hospital Meaningful Use Core Measure 16 of 16

Automatically track medications from order to administration using assistive technologies in conjunction with an electronic medication administration record (eMAR).

More than 10 percent of medication orders created by authorized providers of the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period for which all doses are tracked using eMAR.

Exclusion

Any eligible hospital or CAH with an average daily inpatient census of fewer than 10 patients.

1.3 Attestation Requirements

DENOMINATOR: Number of medication orders created by authorized providers in the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.

NUMERATOR: The number of orders in the denominator for which all doses are tracked using eMAR.

THRESHOLD: The resulting percentage must be more than 10 percent in order for an eligible hospital or CAH to meet this measure.

EXCLUSION: Any eligible hospital or CAH with an average daily inpatient census of fewer than 10 patients.

1.4 Certification and Standards

The following is the corresponding certification and standards criteria for electronic health record technology that supports achieving the meaningful use of this objective.

§ 170.314(16) Inpatient setting only – electronic medication administration record

(i) In combination with an assistive technology that provides automated information on the “rights” specified in paragraphs (a)(16)(i)(A) through (E) of this section, enable a user to electronically verify the following before administering medication(s):

(A) Right patient. The patient to whom the medication is to be administered matches the medication to be administered.

(B) Right medication. The medication to be administered matches the medication ordered for the patient.

(C) Right dose. The dose of the medication to be administered matches the dose of the medication ordered for the patient.

(D) Right route. The route of medication delivery matches the route specified in the medication order.

(E) Right time. The time that the medication was ordered to be administered compared to the current time.

(ii) Right documentation. Electronically record the time and date in accordance with the standard specified in § 170.210(g), and user identification when a medication is administered.

*Depending on the type of certification issued to the EHR technology, it will also have been certified to the certification criterion adopted at 45 CFR 170.314 (g)(1), (g)(2), or both, in order to assist in the calculation of this meaningful use measure.

§ 170.210(g) Synchronized clocks

The date and time recorded utilize a system clock that has been synchronized following (RFC 1305) Network Time Protocol, (incorporated by reference in § 170.299) or (RFC 5905) Network Time Protocol Version 4, (incorporated by reference in § 170.299)

2.0 Purpose of Configuration and Test

The primary purpose of this BCMA activity is to both configure and test the BCMA hardware to include printers, scanners, and labels; BCMA Resource and Patient Management System (RPMS) software, and BCMA client in preparation for Software Quality Assurance (SQA) certification and release. Prior to the testing, the software must be loaded on the BCMA Test Account and the BCMA Team should test the software for functionality. If the software is not functioning as designed, this severely compromises the ability to assess the software from a usability perspective.

Test patients with appropriate test orders need to be set up prior to testing. If the BCMA Test account is open to other users, the patients to be used for the usability testing should be isolated or assigned to a single ward to prevent non-testing users from inadvertently disturbing the patients reserved for testing. If necessary, ensure the test user account is already set-up with the same levels of access that he or she is assigned in the live/production account to ensure the user experience is as close to the live/production experience as possible.

3.0 VA-IHS BCMA Cross-Functional Team

3.1 Co-Chairs

| Last Name | First Name | Title |
|-----------|------------|--|
| Graves | Cathi | Senior Management Analyst, BCRO, Office of Informatics and Analytics (OIA), VHA |
| Taylor | David | BCMA Federal Lead, Office of Information Technology (OIT), Indian Health Service (IHS) |

3.2 Cross Functional Team

3.2.1 Voting Members

| Last Name | First Name | Title |
|-----------|-------------|--|
| Curtis | Clayton, MD | VHA IHS Liaison and IT Informatics |
| Patillo | Jackie | Acting Executive Director for Field Operations, OIT, Department of Veterans Affairs (VA) |
| Taylor | David | BCMA Federal Lead, OIT, IHS |
| Alcorn | Deborah | BCMA Co-Federal Lead, OIT, IHS |

3.2.2 Standing Members

| Last Name | First Name | Title |
|-----------|------------|--|
| Alcorn | Deborah | BCMA Nurse Consultant, OIT, IHS |
| Allen | Mike | BCMA Pharmacy Consultant, OIT, IHS |
| Bagby | Jonathan | Nurse Consultant, BCRO, OIA, VHA |
| Baylis | Randall | Clinical 1 Support Team, OIT, VA |
| Bishop | Bradley | Pharmacy Consultant, OIT, IHS |
| Bloch | Jaci | Clinical 1 Support Team, OIT, VA |
| Connolly | Barbara | Clinical 1 Support Team, OIT, VA |
| Cook | Sean | Business Analyst, Data Networks Corporation (DNC) Contractor |
| Corma | Stephen | Pharmacist Consultant, BCRO, OIA, VHA |
| Cownie | Kevin | Clinical 3 Support Team, OIT, VA |
| Darwin | Wil | Chair, IHS National Pharmacy Council |
| Devlin | Vitalia | Clinical Product Support Division Director, OI&T, VA |

| Last Name | First Name | Title |
|-----------|------------|--|
| Dial | Cornelius | Chair, Pharmacy Professional Specialty Group, IHS |
| Fox | Kirk | Clinical 1 Support Team, OIT, VA |
| Johnson | Dale | Clinical 2 Support Team, OIT, VA |
| Kost | Vivian | MSC Contractor |
| Lyttle | Kim | Clinical 1 Support Team, OIT, VA |
| Mian | Naeem | Clinical 1 Support Team, OIT, VA |
| Nelson | Joe | VHA IHS Liaison and IT Informatics |
| Patten | Tracie | Acting Principal Pharmacy Consultant, IHS |
| Ray | Kathy | Clinicians' Information Management Technology Advisory Council (CIMTAC) Chair, Business Owner, IHS |
| Saddler | Chris | BCMA IT support, OIT, IHS |
| Scott | Hugh | VHA IHS Liaison and IT Informatics |
| Stearle | Carla | BCMA Pharmacy Consultant, OIT, IHS |
| Tucker | Chris | Director, BCRO, OIA, VHA |
| Vinokur | Ella | Enterprise Systems Management, Health Provider Systems (Janet M. Reimer - Alternate) |
| Von Bibra | Linda | CIMTAC Representative, Business Owner, IHS |
| Zeller | Jan | BCMA Education Project Manager, Employee Education System (EES), OI&T, VA |

3.3 Subject Matter Experts

3.3.1 IHS Areas with Hospitals

| Last Name | First Name | Title |
|-----------|------------|--|
| Bartlett | Robin | CAC, Pharmacy Consultant, Nashville Area Office |
| Boykin | Max | Nurse Consultant, Nashville Area Office |
| Campbell | Brian | Pharmacy Consultant, Phoenix Area Office |
| Cross | Charles | Information Technology Specialist, Oklahoma City Area Office |
| Crossland | Eugenia | Clinical Nurse Informaticist, Phoenix Indian Medical Center (PIMC) |
| Dahozy | Carol | Nurse Consultant, Phoenix Area Office |
| Eller | Jim | Information Technology Specialist, Cherokee Indian Hospital Authority (CIHA) |

| Last Name | First Name | Title |
|-----------|------------|--|
| Freeze | Travis | BCMA Project Lead, Chickasaw Nation Medical Center (CNMC) |
| Grosfield | Cheryl | BCMA Coordinator, Choctaw Nation Health Services Authority (CNHSA) |
| Helm | Elizabeth | Director of Pharmacy, CIHA |
| Kennedy | Melissa | BCMA Coordinator, CNMC |
| Kuka | Verna | Information Technology Specialist, Phoenix Area Office |
| Lambert | Wanda | BCMA Coordinator, CIHA |
| Loving | Becky | Nurse Consultant, Oklahoma City Area Office |
| Mosely | Elvira | Clinical Applications Coordinator (CAC), Phoenix Area Office |
| Olson | Matt | Pharmacy Administrative Data Processing Applications Coordinator, CNHSA |
| Patten | Tracie | Pharmacy Consultant, Oklahoma City Area Office |
| Randolph | Audrine | Information Technology Specialist, CNHSA |
| Rubin | Amy | CAC, Oklahoma City Area Office |
| Simpson | Patrick | Information Technology Specialist, CNMC |
| Steers | Randy | Director of Inpatient Pharmacy Services, CNHSA |
| Toedt | Michael | Medical Director, CIHA |
| Von Bibra | Lynda | CAC, PIMC |
| Walling | Jeff | Pharmacist, PIMC |
| Wright | Mitch | Division of Information Resources Management Director, Nashville Area Office |

3.3.2 VA – BCMA

| Last Name | First Name | Title |
|-----------|------------|--|
| Shum | Daphen | Pharmacist, Perry Point VA Medical Center, Perry Point, MD |
| Strauss | Leanne | Nurse/BCMA Coordinator, VA New Jersey Healthcare System |

3.4 Area Office BCMA Teams

3.4.1 Aberdeen Area Office

| Last Name | First Name | Title |
|-----------|------------|---|
| Rauth | Leslye | CAC, Aberdeen Area Office |
| Hall | Martin | Information Technology Specialist, Aberdeen Area Office |

3.4.2 Oklahoma City Area Office

| Last Name | First Name | Title |
|-----------|------------|--|
| Rubin | Amy | CAC, Oklahoma City Area Office |
| Loving | Becky | Nurse Consultant, Oklahoma City Area Office |
| Patten | Tracie | Pharmacy Consultant, Oklahoma City Area Office |
| Cross | Charles | Information Technology Specialist, Oklahoma City Area Office |

3.4.3 Navajo Area Office

| Last Name | First Name | Title |
|-------------|------------|---|
| Ray | Kathy | CAC, Navajo Area Office |
| Yazzie | Jeannette | Nurse Consultant, Navajo Area Office |
| Kopenhaffer | Thad | Pharmacy Consultant (A), Navajo Area Office |
| Cody | Keri | Information Technology Specialist, Navajo Area Office |

4.0 Detailed Agenda

Note: Agenda is flexible and only intended to be a guide for BCMA Configuration and Test Activities. Activities are subject to change based upon unforeseen circumstances, availability of Subject Matter Experts and Professionals, technological challenges and barriers; and whatever else may arise.

Monday and Tuesday

| Start | Topic |
|------------|--|
| 8:30 AM | BCMA Hardware and Installation <ul style="list-style-type: none"> • Install, configure, and test BCMA printers/scanners – (if possible will attempt remote configuration with each site prior to onsite configuration): <ul style="list-style-type: none"> – Plug in scanner and scan setup card (each scanner has its own card). Note: Cards need to be retained in order to obtain warranty service and to reconfigure scanners as needed. – Install BCMA barcode wristband printer.[ZEBRA2824] – Test Using PRINT PATIENT WRISTBAND [DGPW PATIENT WRISTBAND PRINT]. – Install, configure, and test BCMA IV Label Printer [ZEB_IV_BCMA]. • Test using INDIVIDUAL LABELS (IV) [PSJI LBLI]. • Install, configure and test BCMA UD Label Printer [ZEB_UD_BCMA] • Test using Barcode Label Print [PSBO BZ] • Finalize printer setup including printhead adjustment and move to Intended Locations |
| 12:00 Noon | Lunch |
| 1:00 PM | BCMA Hardware and Installation (Continued) |
| 5:00 PM | Adjourn |

Wednesday

| Start | Topic |
|-------------------|--|
| 8:30 AM | <p>BCMA GUI Software Installation</p> <p>http://www.ihs.gov/bcma/includes/themes/newihstheme/display_objects/documents/resources/bcma0300.42i.pdf</p> <ul style="list-style-type: none"> • Install BCMA GUI on all workstations. (Requires Administrator Privileges): <ul style="list-style-type: none"> – BCMA Software and Documentation are provided by SQA as a controlled release. – BCMA Client Install: Unzip Broker_BCMA_42.zip – Follow the instructions found in the BCMA GUI Guide to install and configure the BCMA Client and BCMA Parameter icons (bcma0300.42o.pdf). – This Guide is copied to this document as Appendix B. – Test BCMA Client and BCMA Parameters Applications. <p>Note: When directed BCMA is activated by checking PSB Online (or set parameter PSB Online to “Yes”).</p> |
| 12:00 Noon | Lunch |
| 1:00 PM | <p>BCMA PSB3*42 RPMS and EHR Configuration</p> <ul style="list-style-type: none"> • Associate Nursing Units with MAS Wards (ADT): <ul style="list-style-type: none"> – Using Enter/Edit of FileMan NURS LOCATION file #211.4 (Create nursing unit names). and match with the WARD LOCATION file #42. <p>Note: Assess the Staffing, Geography, and Location of the Nursing Units for reports.</p> <ul style="list-style-type: none"> • Create a Mock Medication Entry for a demo patient in the BCMA Medication Log: <ul style="list-style-type: none"> – Using Enter/Edit of FileMan, in file #53.79 BCMA MEDICATION LOG. – Select a demo patient and enter a simple medication (e.g., Acetaminophen). This mock entry in the BCMA Medication Log is necessary to prevent a null subscript error that will occur if the file is empty. • Create RPMS MailMan group and members “BCMA Issues” for: <ul style="list-style-type: none"> – BCMA order problems. – BCMA missing doses. – Make the Mailman group type: Public. – Consider including one or more printers as part of the group. • Configure the EHR Parameter ORWRP REPORT LIST to Include BCMA Reports: <ul style="list-style-type: none"> – ORRP BCMA MAH. – ORRP BCMA MED LOG. • Using Enter/Edit of Fileman in file #101.24 OE/RR REPORT configure Field Max Days Back for ORRP BCMA MAH and ORRP BCMA MED LOG Max Days 30 • Confirm that TaskMan is running. • Listener XWBTCP on PORT for Broker Access must be running: <ul style="list-style-type: none"> – Menu [XWB MENU]. – Confer with RPMS site manager to identify the port number. • Ensure proper configuration with matching Station Number/Facility Number in: <ul style="list-style-type: none"> – INSTITUTION file #4 |
| 5:00 PM | Adjourn |

Thursday

| Start | Topic |
|------------|--|
| 8:30 AM | <p>BCMA Site Parameter GUI Configuration and BCMA Managers Guide)</p> <p>http://www.ihs.gov/bcma/includes/themes/newihstheme/display_objects/documents/resources/BCMA_SiteParameterGUIConfiguration.pdf</p> <p>http://www.va.gov/vdl/application.asp?appid=84</p> <p>Configure BCMA GUI Parameter Tabs for:</p> <ul style="list-style-type: none"> • Facility Tab: Check the BCMA On-Line box • Parameters Tab: <ul style="list-style-type: none"> – Output Devices: The print out can be defined at the division level only using the GUI Note: PSB PRINTER MISSING DOSE may be set for the following: <pre data-bbox="526 667 1435 905"> 1 Location LOC [choose from HOSPITAL LOCATION] 2 Division DIV [choose from INSTITUTION] Enter selection: 1 Location HOSPITAL LOCATION Select HOSPITAL LOCATION NAME: 9A-MED ----- Setting PSB PRINTER MISSING DOSE for Location: 9A-MED - -----MISSING DOSE PRINTER: [You Can Define your Printer of Choice]</pre> – Mail Groups – Reports – Bar Code Options – 5 Rights Override – Administration: require e-Sig to administer? (Suggest “No”) – Allowable time limit (in minutes): • Scheduled admin time before (suggest 60 min) • Scheduled admin time after (suggest 60 min) • PRN effectiveness entry within (suggest 240 min) <ul style="list-style-type: none"> – Virtual due list default times: (suggest 1 hour before and 1 hour after) – Include Schedule Types – Miscellaneous options: • Allowable server-client clock variance • BCMA time out (suggest 15 minutes) • Default Answer Lists tab: <ul style="list-style-type: none"> – Injection sites – Reasons given PRN – Reasons held – Reasons refused. Note: Refer to the BCMA Manager Manual for default answer list suggestions: <p>http://www.va.gov/VDL/documents/Clinical/Pharm-Bar_Code_Med_Admin_(BCMA)/psb_3_man_um_r0912.pdf</p> • IV Parameters: <ul style="list-style-type: none"> – Location – IV Type – Prompts |
| 12:00 Noon | Lunch |

Thursday (Continued)

| Start | Topic |
|--------------|---|
| 1:00 PM | <p data-bbox="386 310 1292 342">Drug File, Medication Quick Orders, and Medication Quick Order Menus</p> <p data-bbox="386 352 1425 411">http://www.ihs.gov/bcma/includes/themes/newihstheme/display_objects/documents/resources/BCMA_InpatientMedicationsMenus.pdf</p> <p data-bbox="386 422 1425 480">http://www.ihs.gov/bcma/includes/themes/newihstheme/display_objects/documents/resources/BCMA_Inpatient_OB-GYN_Menu.pdf</p> <p data-bbox="386 491 1040 522">At the end of this session participants should be able to:</p> <ul data-bbox="386 533 1398 1486" style="list-style-type: none"> <li data-bbox="386 533 1398 716">• Complete drug file clean up as needed for training scenarios and create BCMA Medication Quick Orders and Menus Note: See Appendix A <ul style="list-style-type: none"> <li data-bbox="435 632 878 663">– Create Medication Menu Headers. <li data-bbox="435 663 862 695">– Create Medication Quick Orders. <li data-bbox="435 695 1187 726">– Hang the Medication Quick Orders to the Medication Menus. <li data-bbox="386 737 1398 1409">• Create 10-12 Demo, Patient BCMA patients for testing and training: <ul style="list-style-type: none"> <li data-bbox="435 779 1398 837">– Demo, Patient BCMA Trial (to be used for all testing during configuration, test, training, and go-live). Note: “Test” will no longer work with EHR Patch 12. <li data-bbox="435 842 805 873">– Demo, Patient BCMA Alpha <li data-bbox="435 873 805 905">– Demo, Patient BCMA Bravo <li data-bbox="435 905 821 936">– Demo, Patient BCMA Charlie <li data-bbox="435 936 805 968">– Demo, Patient BCMA Delta <li data-bbox="435 968 805 999">– Demo, Patient BCMA Echo <li data-bbox="435 999 789 1031">– Demo, Patient BCMA Fox <li data-bbox="435 1031 789 1062">– Demo, Patient BCMA Golf <li data-bbox="435 1062 805 1094">– Demo, Patient BCMA Hotel <li data-bbox="435 1094 1325 1152">– Demo, Patient BCMA Instructor (to be used by BCMA Instructor during configuration, test, training, and go-live) <li data-bbox="435 1157 805 1188">– Demo, Patient BCMA Juliet <li data-bbox="435 1188 789 1220">– Demo, Patient BCMA Kilo <li data-bbox="435 1220 805 1251">– Demo, Patient BCMA Lima <li data-bbox="435 1251 805 1283">– Demo, Patient BCMA Mike <li data-bbox="435 1283 862 1314">– Demo, Patient BCMA November <li data-bbox="435 1314 805 1346">– Demo Patient BCMA Oscar <li data-bbox="435 1346 805 1377">– Demo Patient BCMA Papa <li data-bbox="435 1377 1000 1409">– Admit demo patients BCMA to inpatient unit. <li data-bbox="386 1430 1365 1461">• Enter and finish medication orders as needed for testing and training scenarios. <li data-bbox="386 1461 1195 1493">• Validate system setup is adequate for BCMA testing and training. |
| 5:00 PM | Adjourn |

Friday

| Start | Topic |
|-------------------|---|
| 8:30 AM | <p>BCMA Clinical User Accounts</p> <p>http://www.ihs.gov/bcma/includes/themes/newihstheme/display_objects/documents/resources/BCMA_RPMS_ProviderSetup.pdf</p> <p>At the end of this session participants should be able to:</p> <ul style="list-style-type: none"> • Assign BCMA Secondary Menus: <ul style="list-style-type: none"> – OR BCMA ORDER COM (Med Order Button) – PSB NURSE (Medication Administration Menu Nursing) – PSB PHARMACY (Medication Administration Menu Pharmacy) – PSB MGR (Bar Code Medication Coordinator/Administration Manager) – PSB GUI CONTEXT to each BCMA User • Allocate BCMA Keys: <ul style="list-style-type: none"> – PSB CPRS MED BUTTON for each User – PSB MANAGER to BCMA Coordinator and Nurse Managers • Load PIMS patch 1017 which includes the routine DGPWBD that contains the printer directions for printing the Wrist Band Bar Code, routine DGPMV, three Terminal Type and Device file entries for the IV, UD and Wrist Band Printers, and five options: <ul style="list-style-type: none"> – BCMA Med Order Button by Date Range – BCMA Med Order Button Night Task – BCMA Drug Synonym Check – BCMA Drug iEN Synonym Check – BCMA Drug Pointer Check • Modify routine APCDMSR1. This will later be distributed in BJPC patch 10. • Load EHR patch 12 to bring in routine BEHOENPC. • Modify routine %ZISTCP. This will later be distributed in a Kernel patch. <p>Additional Keys for Pharmacists, Students, and Instructors will be assessed on a Site-by-Site Basis.</p> |
| 12:00 Noon | Lunch |
| 1:00 PM | <p>BCMA Configuration, Test, and Super End User and Coordinator Training Final Preparation</p> <ul style="list-style-type: none"> • Admit BCMA Demo Patients • Order Unit Dose, IV Infusion, IV Piggyback, IVP, Transdermal, Topical, and Special Medications off the BCMA Medication Training Menu • Pharmacy Verify and Complete Medication Orders • Generate Wrist Band and Medication Bar Code Labels • Create Mock Medication Drawers with Labels for each Patient • Set Up Computer Work Stations with Bar Code Scanner for each patient • Conduct “End-to-End” testing for both Wrist Band and Medication Bar Codes • Prepare to configure each student for “Demo Mode Only” prior to each Super End User Class • Complete all identified and unfinished tasks |
| 5:00 PM | Adjourn – Whenever All Preparation Tasks Are Completed |

5.0 Biographical Sketches

CAPT Deborah Burkybile Alcorn, MSN, RN, CPC

BCMA Deployment Specialist

IHS OIT

Deborah has been Registered Nurse for 32 years. During this time her nursing practice led her to work in a variety of private sector hospitals, clinics, tribal facilities, and for the last 20 years in IHS. Captain Alcorn is a citizen of the Cherokee Nation of Oklahoma. She received her commission in the U.S. Public Health Service in 1988 and works from the Nashville Area Office, IHS where she had served Tribes and IHS facilities in the role of Area Managed Care Consultant. Currently she is assigned to support the implementation of the IHS EHR by assisting the IHS OIT as one of the EHR Implementation Team Consultants.

Deborah Alcorn is also a Certified Professional Coder and has worked diligently with the Nashville Area Tribes to train and certify coding professionals at the Service Unit, Tribal, and Urban levels. Health Care Compliance is another field of particular interest and work for Captain Alcorn. Deborah's knowledge and expertise in nursing has enabled her to provide assistance to IHS, Tribal, and Urban facilities from both clinical and business perspectives with a focus on quality health care service delivery.

CAPT Michael Allen, MIS, RPh

EHR Pharmacy Consultant

IHS OIT

Captain Allen is a commissioned officer in the USPHS. He came from a family of pharmacists and holds a BS degree from Idaho State University. He has a Master of Information Systems degree from University of Phoenix. He started with USPHS after working in retail pharmacy for a few years. During his years in IHS he has served in Portland Area, Phoenix Area, and currently is in Tucson Area. His duties have included, besides being a pharmacist: Site Manager, Assistant Site Manager, CAC, Pharmacy Package Administrator, and POS specialist. He serves on the Pharmacy PSG and was recently appointed to the POS Technical Advisory Group. His children are out of the house and he has one granddaughter he misses greatly. He lives in Tucson with his wife and cat.

Jonathon Bagby, MSN, MBA, RN-BC

Nurse Consultant

VHA Office of Informatics and Analytics, BCRO

Jonathan Bagby, MSN, MBA, RN-BC is a board-certified informatics nurse with over 10 years' experience with the VA, spending much of that time representing the interest of field nurses as a subject matter expert in developing the electronic medical record. Jonathan is a Nurse Consultant for the VA BCRO providing nursing informatics support and education to staff at the national level supporting over 150 VA medical centers. Prior to joining the BCRO, Jonathan worked for five years as the Nursing Informatics and BCMA Coordinator at McGuire VA Medical Center in

Richmond, Virginia and led the nursing side of numerous projects (including revising the electronic medical record orientation program for new nurses, developing an electronic report for patient handoff, developing an electronic staff scheduling assistance program, and the implementation of automated medication distribution cabinets).

Jonathan has presented topics at several national informatics conferences including Health Information Management Systems Society, VeHU, and the unSUMMIT and is a published author of several peer reviewed articles. Jonathan has an Associate of Science degree from Richard Bland College of the College of William and Mary, a Bachelor of Science in Nursing from Virginia Commonwealth University, and a Master of Science in Nursing and Business Administration in Health Care Management from the University of Phoenix. He holds a Master's Certificate in Project Management from the George Washington University School of Business and is board-certified in Informatics through ANCC. His clinical background is in medical, surgical, and orthopedic nursing and has worked as a staff nurse, nurse manager, nursing informatics/BCMA coordinator, and nurse consultant.

CDR Bradley Bishop, PharmD, MPH
Pharmacy Consultant, IHS OIT

Commander Bradley Bishop is a Commissioned Officer in the United States Public Health Service and has been in the IHS since 2001. Commander Bishop received his Doctor of Pharmacy from the University of Tennessee College of Pharmacy and Master of Public Health from the University of Massachusetts-Amherst. He has been assigned to Sells, AZ; Tahlequah, OK; Tucson Area Office; and IHS Headquarters as a pharmacist, chief pharmacist, CAC, and pharmacy consultant.

Jaculyn Bloch
Information Technology Specialist
Clinical 1 Support Team/Clinical Product Support
Product Development, VA

Jaci is currently working as an Information Technology Support Specialist with the VA. She started her career in 1984 as a Licensed Practical Nurse at the St. Cloud VA Health Care System working on the Nursing Home Care Unit. Jaci transferred to pharmacy, where she worked for 15 years as a registered pharmacy technician in all areas of the pharmacy including inpatient, outpatient, controlled substance management, inventory management, and procurement. She has worked as Vista Applications Coordinator (Automated Data Processing Application Coordinator - ADPAC) in the Pharmacy and Business Office service line acting as the liaison between the service and Information Resource Management (IRM).

In 2008, she joined the VISN 23 IT Department as a Vista Applications Support Specialist for the Vista pharmacy packages providing Vista and COTS pharmacy support for all sites in VISN 23. Since 2011, Jaci has been working as an Information Technology Specialist for the Clin 1 Support Team, CPS, PD, Department of VA.

Jaci's duties include reviewing and releasing software and supporting the Vista pharmacy packages including Inpatient, Outpatient, Controlled Substances, Drug Accountability, BCMA and CMOP. Jaci is currently working on several projects and workgroups including Electronic Prescribing of Controlled Substances, IMR V, IMR VI and BCMA for IHS.

Barbara Connolly
Information Technology Specialist
Clinical 1 Support Team/Clinical Product Support
Product Development, VA

Barbara Connolly has been a member of the Clinical 1 Product Support team since 1998. In this capacity she has supported BCMA, Inpatient Medications and Outpatient Pharmacy and CMOP. She has been actively supporting BCMA since its inception in 1999. Prior to her position with Product Support she was the Data Manager for Primary care at the Albany VAMC. She was responsible for the management of the Primary Care teams and provided upper management with a variety of reports centered around provider work load. She mentored graduate school interns who were earning a degree in Public Health. Barbara also worked for 10 years as an IT Specialist for the Albany VAMC supporting a large variety of applications and developing local software.

Sean Cook (Contractor)
Applications Systems Analyst
DNC

Sean Cook is an Applications Systems Analyst with DNC and has worked on contract with the IHS since 2010. His professional experience in Pharmacy spans more than a decade and includes in-depth experience in interoperability, automation, and team leadership. Sean spent several years with Omnicare, the largest long term care pharmacy in Northern Illinois and a year with Provident Hospital of Cook County, Chicago. Prior to coming to Albuquerque, he provided systems and programming support for six pharmacies at Columbia St. Mary's in Milwaukee.

Stephen Corma, BS Pharm, RPh
Pharmacist Consultant
VHA Office of Informatics and Analytics, Barcode Resource Office

Stephen Corma is a registered Pharmacist serving as the Pharmacy Consultant for the U.S. Department of Veterans' Affairs Barcode Resource Office. He joined the VA in 1990 after spending 7 years as a staff pharmacist in various private sector hospitals. He began his VA career at the Wilkes-Barre VA Medical Center in Wilkes-Barre, PA and has performed in a variety of roles which included staff Pharmacist (both inpatient and outpatient), Inpatient Pharmacy Supervisor, Assistant Chief of Pharmacy, Acting Chief of Pharmacy, and ADPAC.

Stephen became interested in informatics with the initial roll out of Barcode Medication Administration (BCMA) and worked closely with the BCMA site

coordinator, Pharmacy and Nursing staff to successfully implement through site set up, training, and ongoing support. He was selected as a site team member for the National BCMA Collaborative Breakthrough Series to optimize BCMA use. He has also participated on various national VHA Pharmacy Benefits Management work groups (medication reconciliation as site POC, and Systems and Parameters workgroup). He also worked with Physicians, CACs, and Clinical Pharmacists to create computerized order sets for various clinical pathways such as severe sepsis, diabetes management, hypertension, and anticoagulation. In his supervisory capacity, Stephen was responsible for oversight of Pharmacy Service programs which included expansion of Clinical Pharmacy services, budget control, planning, inventory management, staffing, performance, and quality assurance activities.

Stephen is a graduate of St. John's University, College of Pharmacy and Allied Health where he earned his Bachelor of Science degree in Pharmacy. He is also the newest addition to the Barcode Resource Office, joining them as Pharmacist Consultant in October 2013.

Kevin Cownie
Information Technology Specialist
Clinical 3 Support Team/Clinical Project Support
Product Development, VA

Kevin Cownie is currently an Information Technology Support Specialist with the VA. Prior to working for the VA he was an Application Programmer for a manufacturing company and a member of the Air National Guard. He has 25 years of service with the VA which included seven years as Chief, IRM service. He joined national support as a member of the National Database Integration Team. This team was responsible for integrating numerous VA Hospital databases. Currently as a member of the Clin 3 Support Team he is responsible for supporting and releasing software for BCMA Contingency, Clinical Procedures, Functional Independence Measurement, Home Based Primary Care, Medicine, My HealthVet, National Database Integration, QUASAR, Radiology, Spinal Cord, Suicide Hotline and Vista Imaging. He was heavily involved in the development of the BCMA Contingency package and more recently the startup of the Valley Coastal Bend Hospital along with the realignment of clinics in VISN 1.

Kirk Fox
Information Technology Specialist
Clinical 1 Support Team/Clinical Product Support
Product Development, VA

Kirk Fox has 22 years of service with the VA; he is currently a member of Clinical 1 Support Team since 2008 as an Information Technology Support Specialist. In this position, Kirk has been charged with releasing and supporting software, including but not limited to BCMA, Inpatient Medications (both Unit Dose and IV Medications), and Outpatient Pharmacy packages.

Kirk has been involved with BCMA since version 1, at a site level and as active role in the BCMA Multi-Disciplinary for VISN 2 (five Integrated VA Medical Centers in New York). Additional VISN 2 roles include Application Support and Team Lead Application Support for BCMA for VISN 2. This position provided the opportunity to work on many projects assisting in the Development of National BCMA Contingency Plan, and the creation of BCMA Reports.

Prior roles in the VA include: Nurse Service 6 years, Medical Administration Service 2 years, and Information Technology Specialist for the last 14 years.

A firm believer in Gene Kranz's statement, "I don't care about what anything was DESIGNED to do, I care about what it CAN do."

Cathi Graves

Management Analyst, BCRO

Veterans Health Administration

Office of Informatics and Analytics

Health Informatics

With over 27 years of VA experience, Cathi Graves is the senior Management Analyst for the BCRO. Cathi is an accomplished professional with in depth knowledge of project management, contract management, information systems training, information systems support, and hospital executive support. Ms. Graves is consistently recognized by peers for her ability to manage the strategic implementation of information technology systems within the VA. As part of the BCRO management team, Ms. Graves provides Project Management and Contract Management oversight, as well as business operations management support, overseeing the contractual aspects of the Bar Code Expansion-Positive Patient Identification (BCE-PPI) Project. Her project management and training development expertise serve as an integral part of the BCRO work efforts to assist, implement and operationalize the use of VA's BCMA and BCE-PPI applications.

Ms. Cathi Graves earned her Project Management Certificate from Baldwin Wallace College and a Master's certificate in Project Management from The George Washington University in March 2004. Ms. Graves began her VA career in 1985 at the Dallas VA Medical Center transitioning from Executive Assistant to the Associate Director to Computer Assistant within the IRM Office. In 1991, Ms. Graves transitioned to the Dallas IRM Field Office, National IRM Training Directorate, and was responsible for various Practicum Programs, planning, and delivery of VA National IRM Chiefs Conferences. She also provided oversight for the National IRM Training Program and provided contract oversight for national VMS System Management Training for IS professionals. Ms. Graves also provided National VistA Support for the Fiscal Management Team to support IFCAP, Pharmacy, and Fee Basis VistA applications.

In 1996, Ms. Graves joined EES, as the National Education Project Manager for BCMA, Voluntary Service System, Patient Advocate Tracking System, Blind

Rehabilitation V5.0, Veterans Personal Finance System, VistA Blood Establishment Computer Software, and the Medical Information Security Service. Ms. Graves also served as a National Education Project Manager for CPRS. In her Education Project Manager roles Ms. Graves was responsible for the management of all aspects of national training program development and execution. National training development and execution activities have included the delivery of training plans, objectives, and curricula, as well as overall management of SMEs/trainers and education assistant staff. In 1999, Ms. Graves was responsible for the planning and delivery of five national face-to-face training sessions for over 1,500 VA train-the-trainer staff, to support the deployment of BCMA. In her role, Ms. Graves frequently represented the Director on OI national workgroups including representatives from VACO Senior Executive offices in the establishment of goals/objectives, processes, and tools as the VA moved from VistA to a HealtheVet architecture.

Dale K. Johnson, BSN, RN

IT Specialist, Clinical Product Support Team 2

Office of Information and Technology, VA

Dale Johnson is currently an Information Technology Specialist with National Clinical Product Support, VA. Prior to national support, Dale labored as a CAC at VA Salt Lake City Health Care System for 10 years. Dale was the Lead CAC and handled a variety of issues at the VA Hospital. He has previously been involved in training IHS facilities in regards to shared applications with the VA VistA health record; consults, notes, clinical reminders and his group was recognized for this support.

Dale has worked as a Registered Nurse at the Salt Lake VA Telemetry unit, Acute Medicine and Recovery. This experience gives him a working knowledge as an end user of an Electronic Medical Record. Dale Started at the VA in 1991 after 4 years in the United States Marines. He is a strong advocate for Veteran issues. In his spare time he likes reading and writing about himself in the third person or can be found camping with his family whenever time and weather permits.

Kim M. Lyttle, BS, MT(ASCP)

Information Technology Specialist

Clinical 1 Support Team/Clinical Product Support

Product Development, VA

Kim Lyttle is a registered Medical Technologist and is currently an Information Technology Support Specialist with the VA. She has several years of experience as a Medical Technologist in the private sector. She has over 26 years of service within the VA, including six years as a Medical Technologist, and seven years as an Information Technology Specialist at Martinsburg VAMC.

Since 2000 Kim has been assigned as an Information Technology Specialist for the Clin 1 Support Team, CPS, PD, Department of Veterans Affairs. Kim has been charged with releasing and supporting software, including but not limited to BCMA,

Inpatient Medications (both Unit Dose and IV Medications), Pharmacy Data Management, Dental, Surgery, Drug Accountability, and Controlled Substances. Kim released BCMA Version 2.0, and was one of the primary release people for IMR IV. She has received multiple awards and accolades for her work, especially with BCMA. She is currently working on several projects and workgroups including SQWM, IMR V, IMR VI, Patient Safety for BCMA and Inpatient Medications, the BCMA workgroup, the Inpatient Medications Workgroup, Bar Code Expansion (BCE), and BCMA for IHS.

Phil Odle, MSN, RN-BC

Informatics Nurse Specialist/BCMA-Coordinator

Marion Illinois Veterans Administration Medical Center

Phil Odle obtained his Bachelor of Science in Nursing from Oklahoma Baptist University. While living in Shawnee, OK, he worked for almost ten years at Children's Hospital of Oklahoma in the Pediatric ICU and Post-Anesthesia Care Unit until 1991. During his time at Children's, he was a co-investigator on research in Parental Stressors in Neonatal and Pediatric ICU's and co-author of the published article based on that research.

He has been employed as a Registered Nurse in the VA since 1991. He began his VA career as a staff nurse in the Intensive Care Unit. He has held many positions within the facility, including ICU Nurse Manager, Clinic Float Nurse, Nursing Supervisor, and now he is the facility BCMA-C and Informatics Nurse Specialist. He was introduced to BCMA when it was first released to the VA in 1999. Beginning with his assignment as a Train-the-Trainer for version 2, he took on additional responsibilities with BCMA. He led a BCMA Collaborative Team related to Finishing After-hours Medication Entries to assist VA facilities which did not have 24/7 Pharmacy coverage. In 2012, he was one of several coordinators to serve as Mentors for a pilot program of virtual Mentoring for new BCMA coordinators, a project that was sponsored by the VA BCRO. He obtained a Master of Science in Nursing (Nursing Informatics) degree from Walden University. He is board certified in Nursing Informatics. In addition to duties at his local facility, Mr. Odle serves on several regional and national committees and task forces, such as field-based Subject Matter Expert for the VA BCRO Oversight Board, Applied Informatics Service Issue Brief Review Team, Clinical Procedures Flowsheet Terminology team, Clinical Information Systems/Anesthesia Record Keeping team, BCMA Web-Based Training team, and Nursing Informatics Field Alliance.

Chris Saddler, RN

Information Technology Specialist

IHS OIT

Chris Saddler began working for IHS in 1980 as a Nurse Epidemiologist at the Alaska Native Medical Center. In 1984, she joined the fledgling IHS RPMS Development Team. She was responsible for the initial development of the VA's Laboratory package and instrument interfaces for IHS. Transferring to OIT National Programs in

2003, her initial assignment was upgrading the Radiology package for EHR. Other projects included the upgrade to Kernel v 8 and other infrastructure packages, PCC+, Vista Imaging, Women's Health, and serving as IHS Database Administrator for two years. She provided technical support for EHR deployment in Alaska, and continues to support multi-division and urban sites.

Daphen Shum, BS Pharm, RPh

Pharmacy Supervisor/Informaticist at Perry Point Division

BCMA Coordinator, VA Maryland Health Care System (VAMHCS)

Pharmacy Clinical Specialist, VHA PBM Clinical Informatics/Pharmacy Reengineering

Daphen Shum is a registered pharmacist working in a variety of roles within the VA. She has over 31 years of service in the VA, with a few years working as a hospital pharmacist in the private sector. Her VA career started as a Pharmacy Technician. After becoming a pharmacist, when was involved in the initial implementation of DHCP / VISTA. She was involved as an ADPAC / Informaticist soon after she started working at VAMC Perry Point in 1988, in addition to working in both the inpatient and outpatient pharmacy areas. She was involved in the implementation of BCMA in 2000 and was appointed BCMA Coordinator in 2005. She was involved on the team from VAMHCS, selected as a part of the national BCMA Collaborative Breakthrough Series, to facilitate the resolution of issues to optimize the use of BCMA. Other BCMA projects include a VISN 5 Pharmacist BCMA training initiative, BCMA Cross-Functional Team and BCMA Web-based Training Planning team. Current projects include iEHR Pharmacy SME, iEHR Bar Coding SME and BCMA for IHS.

LCDR Carla Stearle, PharmD, BCPS, NCPS

ePrescribing EHR Pharmacy Consultant, IHS OIT

Lieutenant Commander Carla Stearle is a Commissioned Officer in the United States Public Health Service and has been in the IHS since 2004. She received her Bachelor of Science Degree in Biology from Penn State University in 2000 and her Doctor of Pharmacy degree from the University of Maryland College of Pharmacy in 2004. Carla completed a pharmacy practice residency at W.W. Hastings Cherokee Nation Indian Hospital in 2004 and remained at Hastings as a staff pharmacist until 2009. During her years at Hastings she was a member of both the local EHR implementation team and the local Medication Safety Team. She is now employed as an ARRA Pharmacy Consultant with the OIT.

CAPT (ret) David R. Taylor, MHS, RPh, PA-C, RN

BCMA Deployment Lead

IHS OIT

Captain Taylor is a retired Commissioned Officer in the United States Public Health Service and is a certified physician assistant, registered pharmacist, and registered nurse. He holds more than 36 years of public health, clinical, and clinico-administrative experience in the IHS as both a Commissioned Officer and Federal Employee. Mr. Taylor has served as a pharmacist, physician assistant, quality

manger, risk manager, and compliance officer for the Pine Ridge, South Dakota and Cherokee, North Carolina Indian Hospitals. He has also served as an HIV/AIDS/STD consultant, performance improvement consultant, pharmacy consultant, diabetes clinical consultant, and RPMS health informatics consultant for the Nashville Area IHS. Since 2002 David Taylor has been assigned to IHS OIT as a National Medical Informatics Consultant and has been charged with both training and deployment of the Meaningful Use of an EHR throughout the entire Indian Health Care system. David was awarded the PHS Meritorious Service Medal in recognition for his accomplishments in the EHR arena during his Commission.

Catherine Whaley, PMP (Contractor)
EHR and BCMA Project Manager
DNC

Catherine Whaley is a DNC Project Manager based in Tucson, AZ. She holds an AAS in Accounting and an AA in General Studies from Anoka-Ramsey Community College with a PMP Certification from PMI. Her experience includes over 20 years of Information Technology including customer support, software development, design and development of classroom training documentation, training/instruction/facilitation, testing, business analysis, and project management. She has participated in the requirements gathering efforts and developed requirements for multiple applications. Since she started with IHS in 2010, she has worked as Project Lead for the 2012 Meaningful Use Certification project, Project Manager of the Stage 1 Meaningful Use Team and most recently Project Manager for the EHR Deployment and Training, eRx Deployment and BCMA projects.

Jan-Erik R. Zeller, RN-BSN, MBA-TM
Education Project Manager
EES, VHA

Jan-Erik Zeller is currently a Project Manager with the EES Clinical IT Applications Division charged with developing and implementing education and training plans involving various VHA clinical applications projects. He specializes in clinical applications such as the BCMA, BCE, Simulation and CPRS packages. His professional career consists of eight years of IT experience followed by eight years of working as a registered nurse in the Neuro-Trauma and Surgical ICUs and three years working as a CAC. He has served as a Subject Matter Expert for numerous clinical applications and Root Cause Analyses. Over the years he has assisted with and presented at various health care related conferences.

Appendix A: BCMA PSB3*42 RPMS and EHR Configuration Notes

A.1 BCMA Setup at Choctaw Nation Health Services Authority

```

PACKAGE: PIMS*5.3*1017      Jan 12, 2014 8:07 pm      PAGE 1
-----
TYPE: SINGLE PACKAGE              TRACK NATIONALLY: YES
NATIONAL PACKAGE: PIMS           ALPHA/BETA TESTING: NO

DESCRIPTION:
DGPV, DGPWBD routines, BCMA IHS Options/Routines, BCMA Terminal Type and
Device file entries

ENVIRONMENT CHECK: BDGP17PS              DELETE ENV ROUTINE: No
PRE-INIT ROUTINE:                      DELETE PRE-INIT ROUTINE:
POST-INIT ROUTINE: POST^BDGP17PS        DELETE POST-INIT ROUTINE: No
PRE-TRANSPORT RTN:

FILE #      FILE NAME      UP      SEND  DATA      USER
DATE      SEC.  COMES  SITE  RSLV  OVER
DD      CODE  W/FILE DATA PTRS RIDE
-----
3.2      TERMINAL TYPE      NO      NO    YES      MERG  NO    NO
3.5      DEVICE              NO      NO    YES      MERG  YES   NO

ROUTINE:              ACTION:
  DGPMV                SEND TO SITE
  DGPWBD                SEND TO SITE
  PSBIHS1               SEND TO SITE
  PSBIHS2               SEND TO SITE
  PSBIHS3               SEND TO SITE

OPTION:              ACTION:
  PSBIHS CORRECT DRUG POINTERS  SEND TO SITE
  PSBIHS DRUG CHECK             SEND TO SITE
  PSBIHS DRUG IEN CHECK        SEND TO SITE
  PSBIHS MOB DATE              SEND TO SITE
  PSBIHS MOB TASK              SEND TO SITE

INSTALL QUESTIONS:
Default Rebuild Menu Trees Upon Completion of Install: YES
    
```

A.2 Issues from Cherokee

- When a PCC Vitals date ended in zero, it was interpreted as a string rather than a numerical date. Fix will be distributed in BJPC Patch 10.

```

APCDMSR1 ; IHS/CMI/LAB - Cumulative Vital Measurement Report
SETUT+3
S EVDATE=+$E(EVDATE,1,12) ;IHS/OIT/FBD - 7/16/2013 - ADDED '+' TO FORCE
SORTING BY NUMERIC DATE VALUE
    
```

- The BCMA GUI Vitals Cumulative report erred because entries were being created with a null value. Fix will be distributed in EHR Patch 12.

```
BEHOENPC ;MSC/IND/DKM - PCC Data Management
MSR+7
I XM="" S DATA(1)="" Q ;IHS/VA/KF 07172013 Patch for to not create
measurement for a Null Value
```

- The routine %ZISTCP contained a modification for IHS Patient Chart that should be removed. Fix will be distributed in a Kernel patch.

```
%ZISTCP ;ISC-SF/RWF - DEVICE HANDLER TCP/IP CALLS ;06/23/2004
;ROUTINE CONTAINS IHS MOD AT CONT+4 AND LONT+11
CONT+4
;line below changed from "-M" to "S" for GUI Patient Chart
;O NIO:(IP:SOCK:"S":512:512):TO G:'$T NOOPN ;Make work like DSM
O NIO:(IP:SOCK:"-M":512:512):TO G:'$T NOOPN ;Make work like DSM
;IHS/OIT/CLS 01/08/2014

LONT+11
;line below changed from "-M" to "S" to work with GUI Patient Chart
;U NIO:(:"S") ;Work like DSM
U NIO:(:"-M") ;Work like DSM ;IHS/OIT/CLS 01/08/2014
```

A.3 Notes from Claremore

A.4 Notes from Claremore and Cherokee Nation

- An RN Finish key error was observed at Claremore and Cherokee Nation. Phil Salmon and Carlene McIntyre found that the VA experienced this same issue and addressed it in a patch. Phil made the patch mods to the routine, PSIVORFB. Fix will be distributed in APSP patch 1018.

```
EBCI>D ^%RI

Input routines from Sequential
Device: C:\PSIVORFB.RSA
Parameters? "RS" =>

File written by Cache for Windows using %RO on 17 Mar 2014 1:21 PM
with extension INT and with description:

( All Select Enter List Quit )

Routine Input Option: ALL Routines

If a selected routine has the same name as one already on file,
shall it replace the one on file? No => Yes
Recompile? Yes => Yes
Display Syntax Errors? Yes => Yes

PSIVORFB.INT^@

1 routine processed.
```

```

Cache for Windows^INT^^~Format=Cache.S~^RAW
%RO on 17 Mar 2014 1:21 PM
PSIVORFB^INT^1^63263,48049^0
PSIVORFB ;BIR/MLM-FILE/RETRIEVE ORDERS IN ^PS(55 ;17-Mar-2014 13:20;DU
; ;5.0; INPATIENT MEDICATIONS
; **3,18,28,68,58,85,110,111,120,134,213,161,1010,1015,1018** ;16 DEC 97;Build 50
;
; Reference to ^PS(50.7 is supported by DBIA #2180.
; Reference to ^PS(51.2 is supported by DBIA #2178.
; Reference to ^PS(52.6 is supported by DBIA #1231.
; Reference to ^PS(52.7 is supported by DBIA #2173.
; Reference to ^PS(55 is supported by DBIA #2191.
; Reference to ^PS(51.1 is supported by DBIA #2177.
; Reference to ^PSUHL is supported by DBIA #4803.
;
; Modified - IHS/CIA/PLS - 12/05/03 - Line NEW55+3
; - IHS/MSC/PB - 4/25/12 - added line tag OFFSET
; - IHS/MSC/PB - modified line GTDRG+6 to add the stability offset value
to
; the DRG array for each additive and solution
; - IHS/MSC/PB - 2/11/13 added line OFFSET+5 to add a default value of
seven days if the offset is 0
; - IHS/MSC/PLS - 03/17/14 - Added change to NEW55 and LIMSTOP EP from
Vista PSJ*5.0*273
;
NEW55 ; Get new order number in 55.
N
DA,DD,DO,DIC,DLAYGO,X,Y,PSIVLIM,MINS,PSJDSTP1,PSJDSTP2,A,PSJCLIN,PSJDNM,PSJPROV,PSJWARD,PSJPAO,PSJALRT
I $D(^PS(55,+DFN)), '$D(^PS(55,+DFN,0)) D ENSET0^PSGNE3(+DFN)
; IHS/MSC/PLS - 03/17/14 - Added logic from PSJ*5.0*273
I $G(PSJORD) ["V"!($G(PSJORD) ["P"], $G(P(2)))] " D
.I '$G(PSIVSITE) S PSIVSN=$P(P("IVRM"), "^") D ENCHK^PSIVSET
.D LIMSTOP(.PSJDSTP1, .PSJDSTP2)
I ($G(PSJORD) ["P"!($G(PSJORD) ["V"]))&$G(PSIVLIM) I
$ $CMPLIM(PSJORD,PSJDSTP1,PSJDSTP2) D
. D
.. S PSJPROV=DUZ I PSJORD["P" S PSJPROV=$P($G(^PS(53.1,+PSJORD,0)), "^", 2)
.. I PSJORD["V" S PSJPROV=$P($G(^PS(55,DFN,"IV",+PSJORD,0)), "^", 6)
.. D NOW^%DTC S XQA(PSJPROV)=" ,XQAID="PSJ, "_DFN_" ; "_PSJPROV_" ; "_%,XQADATA="
.. D
... I PSJORD["P" S A=$G(^PS(53.1,+PSJORD,"DSS"))
... I PSJORD["V" S A=$G(^PS(55,PSGP,"IV",+PSJORD,"DSS"))
... S PSJCLIN=$P(A,"^") I PSJCLIN[" S PSJCLIN=$P(^SC(PSJCLIN,0),"^")
.. S A=$G(^DPT(DFN,0)),PSJWARD=$G(^(.1))
.. S XQAMSG=$P(A,"^") ("_">$E($P(A,"^"))_">$E($P(A,"^",9),6,9)_") :
["_">$S(PSJWARD) " :">$E(PSJWARD,1,10), $G(PSJCLIN)] " :">$E(PSJCLIN,1,10), 1:"UNKNOWN")_] "
.. S A=$O(DRG("AD",0)) I A] " S A=DRG("AD",A)
.. I A=" S A=$O(DRG("SOL",0)) I A] " S A=DRG("SOL",A)
.. S PSJDNM=$P(^PS(50.7,+P(A,"^",6),0),"^")
.. S XQAMSG=XQAMSG_PSDNM_" your DURATION not used for stop date/time"
.. D SETUP^XQALERT
.. S
PSJALRT=$ $FMTDUR^PSJLIVMD($S(PSJORD["P":$P($G(^PS(53.1,+PSJORD,2.5)), "^", 4), PSJORD["
IV":$P($G(^PS(55,DFN,"IV",+PSJORD,2.5)), "^", 4), 1:"UNK"))
; IHS/CIA/PLS - 12/05/03 - Reapplied IHS fix for HRN lookup
; S DIC="^PS(55," ,DIC(0)="LN",DLAYGO=55,(DINUM,X)=+DFN D ^DIC Q:Y<0
S DIC="^PS(55," ,DIC(0)="LN",DLAYGO=55,DINUM=+DFN,X="`_"_+DFN D ^DIC Q:Y<0
LOCK0 F L +^PS(55,DFN,"IV",0):$S($G(DILOCKTM)>0:DILOCKTM,1:3) I Q

```

```

S ND=$S($D(^PS(55,DFN,"IV",0)):^(0),1:"^55.01") F DA=$P(ND,"^",3)+1:1 W "." I
'D(^PS(55,DFN,"IV",DA)) S
$P(ND,"^",3)=DA,$P(ND,"^",4)=$P(ND,"^",4)+1,^PS(55,DFN,"IV",0)=ND Q
L +^PS(55,DFN,"IV",+DA):$S($G(DILOCKTM)>0:DILOCKTM,1:3) E G LOCKO
S ^PS(55,DFN,"IV",+DA,0)=+DA,^PS(55,DFN,"IV","B",+DA,+DA)="
L -^PS(55,DFN,"IV",0) S ON55=+DA_V"
I $G(PSJALRT)]" S PSIVAL="IV LIMIT OVERRIDDEN ("_$G(PSJALRT)_): ALERT
SENT",PSIVALT="",PSIVREA="E" D
.D LOG^PSIVORAL S P("LIMIT")="",P("OVERRIDE")=1 K IVLIM,IVLIMIT
.S $P(^PS(55,DFN,"IV",+ON55,2.5),"^",4)=" S:$G(PSJORD)["P"
$P(^PS(53.1,+PSJORD,2.5),"^",4)="
.K PSIVAL,PSIVREA,PSIVALT
Q
SET55 ; Move data from local variables to 55.
I 'D(ON55) W !,"*** Can't create this order at this time ***" Q
N DA,DIK,ND,PSIVACT,PSIVDUR
S: $D(P(21)) (P(21),P("21FLG"))=" S ND(0)=+ON55,P(22)=$S(VAIN(4):+VAIN(4),1:.5) F
X=2:1:23 I $D(P(X)) S $P(ND(0),U,X)=P(X)
S ND(.3)=$G(P("INS")),ND(2.5)=" N X S X=$S($G(PSGORD):PSGORD,1:$G(ON)) I X D
.N PKG S PKG=$E(X,$L(X)) S PKG=$S(PKG="V": " "IV" " ,PKG="U":5,PKG="P": "P",1:"")
Q:PKG="
.S PSIVDUR=$GETDUR^PSJLIVMD(DFN,+X,$E(X,$L(X)),1) Q:PSIVDUR="
.I $G(IVLIMIT) S ND(2.5)="^^^_PSIVDUR K IVLIMIT Q
S
$P(ND(0),U,17)="A",ND(1)=P("REM"),ND(3)=P("OPI"),ND(.2)=$P($G(P("PD")),U)_U_$G(P("DO
"))_U_+P("MR")_U_$G(P("PRY"))_U_$G(P("NAT"))_U_U_$G(P("PRNTON"))
F X=0,1,2.5,3,.2,.3 S ^PS(55,DFN,"IV",+ON55,X)=ND(X)
; PSJ*5*213 - if Piggyback, intermittent syringe, or
; intermittent chemotherapy, and frequency is null, attempt to
; set frequency again based on P(15),PSGS0XT, and piece 3 of ZZND if they exist.
; If this still is null, attempt to re-set based upon the schedule name.
I $G(P("IVCAT"))="I"!($P($G(ND(0)),U,4)?1(1"P",1"S",1"C"))&($P($G(ND(0)),U,15)="")
D
. I $P($G(ND(0)),U,4)="S",$P($G(ND(0)),U,5)'=1 Q ;Not intermittent syringe
. I $P($G(ND(0)),U,4)="C",$P($G(ND(0)),U,23)?1(1"A",1"H") Q ;Not chemo piggyback
or syringe
. I $P($G(ND(0)),U,4)="C",$P($G(ND(0)),U,23)="S",$P($G(ND(0)),U,5)'=1 Q ;Not
intermitent chemo syringe
. S
$P(^PS(55,DFN,"IV",+ON55,0),U,15)=$S($G(P(15))'="":P(15),$G(PSGS0XT)'="":PSGS0XT,$P(
$G(ZZND),"^",3)'="":$P(ZZND,"^",3),1:$GETFRQ($P($G(ND(0)),U,9))) K PSJFRQ,PSJSKED
S
$P(^PS(55,DFN,"IV",+ON55,2),U,1,4)=P("LOG")_U_+P("IVRM")_U_U_P("SYRS"),$P(^2),U,8,1
0)=P("RES")_U_$G(P("FRES"))_U_$S($G(VAIN(4):+VAIN(4),1:""))
S X=^PS(55,DFN,0) I $P(X,"^",7)=" S
$P(X,"^",7)=$P($P(P("LOG"),"^"),".),$P(X,"^",8)="A",^(0)=X D LOGDFN^PSUHL(DFN)
S $P(^PS(55,DFN,"IV",+ON55,2),U,11)=+P("CLRK")
S:+$G(P("CLIN")) $P(^PS(55,DFN,"IV",+ON55,"DSS"),"^")=P("CLIN")
S:+$G(P("APPT")) $P(^PS(55,DFN,"IV",+ON55,"DSS"),"^",2)=P("APPT")
S:+$G(P("NINIT")) ^PS(55,DFN,"IV",+ON55,4)=P("NINIT")_U_P("NINITDT")
;IHS/MSC/PB - 4/25/12 line below modified to set the 9999999 node to the stability
offset value
S:$G(P("OFFSET")) ^PS(55,DFN,"IV",+ON55,9999999)=$G(P("OFFSET"))
I '$G(PSIVCHG)!($G(PSJREN)&($G(PSIVCHG)=2)) I $G(P("PON")),P("PON")'=ON55 D
. N X S
X=$S(P("PON")["P": "^PS(53.1,+P("PON"),12,0)",P("PON")["V"&$G(PSJREN): "^PS(55,DFN,"
"IV",+P("PON"),5,0)",1:""]) Q:X="
. I $O(@X) S %X=X,%Y="^PS(55,"_DFN_", "IV", "_ON55_",5," D %XY^%RCR
F DRGT="AD", "SOL" D PUTD55
K DA,DIK S DA(1)=DFN,DA=+ON55,DIK="^PS(55,"_DA(1)_" , "IV", , PSIVACT=1 D IX^DIK
I $G(PSJCOM),$G(PSJCOMSI),$G(PSJORD)["V" K PSJCOMSI N PSJCHILD,PSJOEORD S
PSJOEORD=0 F S PSJOEORD=$O(^PS(55,"ACX",PSJCOM,PSJOEORD)) Q:'PSJOEORD D

```

```

. N PSJCHILD S PSJCHILD=0 F S PSJCHILD=$O(^PS(55,"ACX",PSJCOM,PSJOEORD,PSJCHILD))
Q: PSJCHILD S PSJCHILD(+PSJCHILD)=PSJCOM
. S PSJCHILD=0 F S PSJCHILD=$O(PSJCHILD(PSJCHILD)) Q: PSJCHILD D
.. Q: PSJCHILD=PSJORD K DR,DA,DIE,ORD S
DR="31////" _$P($G(P("OPI")), "^", 1, 2), DA(1)=DFN
.. N ON,ON55 S (ON,ON55)=+PSJCHILD_"V" S:+$G(PSJPINIT)'>0 PSJPINIT=DUZ S
PSIVALT=1,PSIVAL="COMPLEX ORDER" D ENTACT^PSIVAL D
... I $P($G(^PS(55,DFN,"IV",+ON55,3)), "^")'=$P(P("OPI"), "^") S P("FC")="OTHER PRINT
INFO^" _$P($G(^3)), "^") _U_$P(P("OPI"), "^") D GTFC^PSIVORAL
... I $D(^PS(55,DFN,"IV",+ON55,0)) S ^PS(55,DFN,"IV",+ON55,3)=P("OPI") D
EN1^PSJHL2(DFN,"XX",ON55)
Q
;
PUTD55 ; Move drug data from local array into 55
K ^PS(55,DFN,"IV",+ON55,DRGT) S
^PS(55,DFN,"IV",+ON55,DRGT,0)=$S(DRGT="AD": "^55.02PA", 1: "^55.11IPA")
F X=0:0 S X=$O(DRG(DRGT,X)) Q: 'X D
.S
Y=^PS(55,DFN,"IV",+ON55,DRGT,0), $P(Y,U,3)=$P(Y,U,3)+1, DRG=$P(Y,U,3), $P(Y,U,4)=$P(Y,U,4)+1
.S ^PS(55,DFN,"IV",+ON55,DRGT,0)=Y, Y=$P(DRG(DRGT,X),U) _U_$P(DRG(DRGT,X),U,3)
S: DRGT="AD" $P(Y,U,3)=$P(DRG(DRGT,X),U,4) S ^PS(55,DFN,"IV",+ON55,DRGT,+DRG,0)=Y
Q
GT55 ; Retrieve data from 55 into local array
K DRG,DRGN,P S: ' $D(ON55) ON55=ON S P("REN")="", Y=$G(^PS(55,DFN,"IV",+ON55,0)) F
X=1:1:23 S P(X)=$P(Y,U,X)
S P("21FLG")=P(21)
S
P("PON")=ON55, PSJORIFN=P(21), P(6)=P(6) _U_$P($G(^VA(200,+P(6),0)), U), (DRG,DRGN)="", P("REM")=$G(^PS(55,DFN,"IV",+ON55,1))
S
Y=$G(^PS(55,DFN,"IV",+ON55,2)), P("LOG")=$P(Y,U), P("IVRM")=$P(Y,U,2) _U_$P($G(^PS(59.5,+ $P(Y,U,2),0)), U)
S
P("CLRK")=$P(Y,U,11) _U_$P($G(^VA(200,+ $P(Y,U,11),0)), U), P("RES")=$P(Y,U,8), P("FRES")=$P(Y,U,9), P("SYRS")=$P(Y,U,4), P("OPI")=$G(^PS(55,DFN,"IV",+ON55,3))
S P("INS")=$G(^PS(55,DFN,"IV",+ON55,.3))
S
P("CLIN")=$P($G(^PS(55,DFN,"IV",+ON55,"DSS")), "^"), P("APPT")=$P($G(^PS(55,DFN,"IV",+ON55,"DSS")), "^", 2)
S P("DTYP")=$S(P(4)="" : 0, P(4)="P" ! (P(23)="P") ! (P(5):1, P(4)="H" : 2, 1:3)
D: ' $D(PSJLABLE) GTPC(ON55) S
ND=$G(^PS(55,DFN,"IV",+ON55,.2)), P("PD")=$S($P(ND,U): $P(ND,U) _U_$OIDF^PSJLMUT1(+ND) _U_$P($G(^PS(50.7,+ND,0)), U), 1: "") , P("DO")=$P(ND,U,2), P("PRY")=$P(ND,U,4), P("NAT")=$P(ND,U,5), (PSJCOM,P("PRNTON"))=$P(ND,U,8)
I P("PRY")="D", '+P("IVRM") S
P("IVRM")=+$G(PSIVSN) _U_$P($G(^PS(59.5,+ $G(PSIVSN),0)), U)
S
P("MR")=$P(ND,U,3), ND=$G(^PS(51.2,+P("MR"),0)), P("MR")=P("MR") _U_$S($P(ND,U,3)] "" : $P(ND,U,3), 1: $P(ND,U)) D GTCUM
D GTDRG,GTOT^PSIVUTL(P(4))
N ND2P5 S ND2P5=$G(^PS(55,DFN,"IV",+ON55,2.5)) D
.S P("DUR")=$P(ND2P5,"^",2)
.S P("LIMIT")=$P(ND2P5,"^",4)
.S P("IVCAT")=$P(ND2P5,"^",5)
K ; Kill and exit.
K FIL,ND
Q
GTDRG ; Get drug info and place in DRG(.
F DRGT="AD", "SOL" S FIL=$S(DRGT="AD": 52.6, 1: 52.7) F Y=0:0 S
Y=$O(^PS(55,DFN,"IV",+ON55,DRGT,Y)) Q: 'Y D
.; naked ref below refers to line above

```

```

.S DRG=$G(^Y,0),ND=$G(^PS(FIL,+DRG,0)),(DRGI,DRG(DRGT,0))=$G(DRG(DRGT,0))+1
.;IHS/MSC/PB 4/25/12 modified to add stability offset value to the DRG array for
each additive and solution
.;S
DRG(DRGT,+DRGI)=+DRG_U_$P(ND,U)_U_$P(DRG,U,2)_U_$P(DRG,U,3)_U_$P(ND,U,13)_U_$P(ND,U,
11)
.S
DRG(DRGT,+DRGI)=+DRG_U_$P(ND,U)_U_$P(DRG,U,2)_U_$P(DRG,U,3)_U_$P(ND,U,13)_U_$P(ND,U,
11)_U_$P($G(^PS(FIL,+DRG,9999999)), "^")
Q
;
GTCUM ; Retrieve dispensing info.
S
ND=$G(^PS(55,DFN,"IV",+ON55,9)),P("LF")=$P(ND,U),P("LFA")=$P(ND,U,2),P("CUM")=$P(ND,
U,3)
Q
;
GTPC(ON) ; Retrieve Provider Comments and create "scratch" fields to edit
Q
;
SETNEW ; Create new order and set
D NEW55,SET55
Q
;
CMLIM(PSJORD,PSJDSTP1,PSJDSTP2) ; Compare stop date of order against IV Limit
I $P($G(^PS(53.1,+PSJORD,0)), "^",25)]" D CHKD Q:PSJPAO 0
I $G(PSJDSTP1),$E(+PSJDSTP1,1,11)'=$E(+P(3),1,11),+PSJDSTP2'+P(3) Q 1
Q 0
;
LIMSTOP(PSJDSTP1,PSJDSTP2) ; Calculate default stop date using IV Limit
; Output: PSJDSTP1 - Default stop using duration only
; PSJDSTP2 - Default stop using duration and IV parameters for time
S PSIVLIM=$$GETLIM^PSIVCAL(DFN,PSJORD)
I 'PSIVLIM,PSIVLIM]" S PSIVLIM=$$GETMIN^PSIVCAL(PSIVLIM,DFN,PSJORD)
I PSIVLIM]" D
. S MINS=$$GETMIN^PSIVCAL(PSIVLIM,DFN,PSJORD),PSJDSTP1=$$FMADD^XLFTD(P(2),0,0,MINS)
. S
X=$P(PSJDSTP1,"."),PSJDSTP2=X_$S($P($G(PSIVSITE),"^",14)="":.2359,1:".")_P(PSIVSITE,
"^",14))
Q
;
GETFRQ(PSJSKED) ;Get frequency using name of schedule
I PSJSKED=" K PSJSKED Q ""
S (PSJCNTX,PSJFRQ)="
I $D(^PS(51.1,"APPSJ",PSJSKED)) F S PSJCNTX=$O(^PS(51.1,"APPSJ",PSJSKED,PSJCNTX))
Q:PSJCNTX=" D Q:$G(PSJFRQ)'=""
. I $P($G(^PS(51.1,PSJCNTX,0)),U,3)'="" S PSJFRQ=$P(^PS(51.1,PSJCNTX,0),U,3)
K PSJCNTX
Q PSJFRQ
;
CHKD ;Check for a previous active order and compare the duration
N PSJPO,A,PSJDUR
S PSJDUR=$$GETLIM^PSIVCAL(DFN,PSJORD)
S PSJPAO=0,PSJPO=PSJORD
CHKDR S PSJPO=$P($G(^PS(53.1,+PSJPO,0)), "^",25) Q:PSJPO="
I PSJPO["P" G CHKDR
I PSJPO["V" S PSIVLIM=$$GETLIM^PSIVCAL(DFN,PSJPO) I PSJDUR'=PSIVLIM S PSJPAO=1 Q
G CHKDR
OFFSET ; IHS/MSC/PB - 4/25/12 - Added to get the minimum offset value for setting
expiration date on IV labels
; needs DRG array set in PSIVORFA. Piece 7 has the offset value for the solution or
additive

```

```

S II="" ,OFFSET=31 F S II=$O(DRG(II)) Q:II="" S JJ=0 F S JJ=$O(DRG(II,JJ))
Q:JJ '>0 D
.Q:$P(DRG(II,JJ),"^",7)="
.S:$P(DRG(II,JJ),"^",7)<OFFSET OFFSET=$P(DRG(II,JJ),"^",7)
S:$G(OFFSET)=31 OFFSET=0
Q

```

A.5 PSBIHS Options

```

NAME: PSBIHS CORRECT DRUG POINTERS          MENU TEXT: BCMA Drug Pointer Check
TYPE: run routine                          CREATOR: SADDLER,CHRIS L
PACKAGE: BAR CODE MED ADMIN
DESCRIPTION: This option checks for consistency of drug file pointers. Items
on this report will not scan in BCMA.

This report looks at the following files for 'Correct Drug Pointers'
Drug File (50)
Pharmacy Orderable Item (50.7)
IV Additive (52.6)
IV Solution (52.7)
ROUTINE: PSBIHS3
UPPERCASE MENU TEXT: BCMA DRUG POINTER CHECK
NAME: PSBIHS DRUG CHECK                    MENU TEXT: BCMA DRUG SYNONYM CHECK
TYPE: run routine                          CREATOR: SADDLER,CHRIS L
PACKAGE: BAR CODE MED ADMIN
DESCRIPTION: This option checks the Drug file for duplicate synonyms as part
of the Drug file cleanup for BCMA.
ROUTINE: PSBIHS2
UPPERCASE MENU TEXT: BCMA DRUG SYNONYM CHECK

NAME: PSBIHS DRUG IEN CHECK                MENU TEXT: BCMA DRUG IEN SYNONYM CHECK
TYPE: run routine                          CREATOR: SADDLER,CHRIS L
PACKAGE: BAR CODE MED ADMIN
DESCRIPTION: This option checks a specific drug in the Drug file using its
IEN to search for other entries that match or contain the IEN as its synonym.
ROUTINE: SCANNER^PSBMLTS
UPPERCASE MENU TEXT: BCMA DRUG IEN SYNONYM CHECK

NAME: PSBIHS MOB DATE                     MENU TEXT: BCMA Med Order Button by Date Range
TYPE: run routine                          CREATOR: SADDLER,CHRIS L
PACKAGE: BAR CODE MED ADMIN
DESCRIPTION: This option runs a routine that finds the med orders that were
entered into the system using the BCMA Med Order Button in EHR/CPRS. It allows
the user to select a date range.
ROUTINE: PSBIHS1
UPPERCASE MENU TEXT: BCMA MED ORDER BUTTON BY DATE

NAME: PSBIHS MOB TASK                     MENU TEXT: BCMA Med Order Button Night Task
TYPE: run routine                          CREATOR: SADDLER,CHRIS L
PACKAGE: BAR CODE MED ADMIN
DESCRIPTION: This option runs a routine that finds the med orders that were
entered into the system using the BCMA Med Order Button in EHR/CPRS. It does
not allow the user to select a date range. It should be scheduled to be run daily
after midnight and before the day shift begins. It will report the previous day's
MOB orders.
ROUTINE: NTASK^PSBIHS1                    SCHEDULING RECOMMENDED: YES
UPPERCASE MENU TEXT: BCMA MED ORDER BUTTON NIGHT TA

```

```

NAME: PSBIHS CORRECT DRUG POINTERS      MENU TEXT: BCMA Drug Pointer Check
TYPE: run routine                        CREATOR: COSEN,RICHARD L
PACKAGE: BAR CODE MED ADMIN
DESCRIPTION: This option checks for consistency of drug file pointers. Items
on this report will not scan in BCMA.

This report looks at the following files for 'Correct Drug Pointers'
Drug File (50
Pharmacy Orderable Iten (50.7)
IV Additive (52.6)
IV Solution (52.7)
ROUTINE: PSBIHS3
UPPERCASE MENU TEXT: BCMA DRUG POINTER CHECK
    
```

A.6 TaskMan Schedule/Unschedule Option

```

PSBIHS MOB TASK BCMA Med Order Button Night Task Schedule to be run daily after
midnight. Specify printer.

                        Edit Option Schedule
Option Name: PSBIHS MOB TASK
Menu Text: BCMA Med Order Button Night Task          TASK ID: 5550554
-----

QUEUED TO RUN AT WHAT TIME: SEP 15,2013@01:00

DEVICE FOR QUEUED JOB OUTPUT: TALRXIP;P-HPIII-P12;96;58

QUEUED TO RUN ON VOLUME SET: TAL

                        RESCHEDULING FREQUENCY: 1D

                        TASK PARAMETERS:

                        SPECIAL QUEUEING:
    
```

A.7 Menu Structure

A.7.1 Place on PSJU MGR Unit Dose Medications Menu:

```

BCMA PSB PHARMACY
    
```

A.7.2 Place on PSB PHARMACY Medication Administration Menu Pharmacy menu:

```

BMOB PSBIHS MOB DATE          BCMA Med Order Button by Date Range
CDP  PSBIHS CORRECT DRUG POINTERS  BCMA Drug Pointer Check
DSYN PSBIHS DRUG CHECK          BCMA DRUG SYNONYM CHECK
DIEN PSBIHS DRUG IEN CHECK      BCMA DRUG IEN SYNONYM CHECK
    
```

A.7.3 Place on PSB NURSE PSB NURSE Medication Administration Menu Nursing

```
BMOB PSBIHS MOB DATE BCMA Med Order Button by Date Range
```

A.7.4 Edit PSBO BL Label Print option:

```
Select Menu Management Option: Edit options
Select OPTION to edit: PSBO BL Label Print
NAME: PSBO BL// ^OUT OF ORDER MESSAGE
OUT OF ORDER MESSAGE: USE OPTION 10
LOCK: ^
```

A.7.5 Secondary Menu for All BCMA Users:

```
OR BCMA ORDER COM OR BCMA ORDER COM VERSION 1.
```

```
PSB GUI CONTEXT-USER BCMA Client Context
```

A.7.6 Secondary Menu for CAC/BCMA Coordinator:

```
PSB PSB MGR Bar Code Medication Administration Manager
[locked with PSB MANAGER key]
```

A.7.7 Secondary Menu for BCMA Coordinator:

```
TOOL PSB TOOL MENU ITEMS BCMA GUI Tool Menu Items
```

A.7.8 Secondary Menu for Nurses:

```
BCMA PSB NURSE Medication Administration Menu Nursing
```

A.7.9 Secondary Menu for Inpatient Pharmacists:

```
BCMA PSB PHARMACY Medication Administration Menu Pharmacy
```

A.7.10 Key for All BCMA Users:

```
PSB CPRS MED BUTTON
```

A.7.11 Key for BCMA Coordinator:

```
PSB UNABLE TO SCAN
```

A.7.12 Key for CAC/BCMA Coordinator:

| |
|-------------|
| PSB MANAGER |
|-------------|

A.8 Terminal Type

IV Terminal Type modified for Choctaw to print on 3.5 x 2 inch labels. Usual IV label is 3 x 3 inches.

| | |
|--|--|
| NAME: P-TCP-ZEB IV BCMA DATA MATRIX | RIGHT MARGIN: 60 |
| FORM FEED: # | PAGE LENGTH: 84 |
| BACK SPACE: \$C(8) | |
| NUMBER: 1 | CTRL CODE ABBREVIATION: FI |
| FULL NAME: FORMAT INITIALIZATION | CONTROL CODE: W "^XA",!, "^LH0,0^FS",! |
| NUMBER: 2 | CTRL CODE ABBREVIATION: SB |
| FULL NAME: START OF BARCODE | |
| CONTROL CODE: W "^BY2,3.0,100,^FO500,15^BXN,,200,,,," | |
| NUMBER: 3 | CTRL CODE ABBREVIATION: ST |
| FULL NAME: START OF TEXT | |
| CONTROL CODE: W "^FO",PSJBARX,"",PSJBARY,"^A0N,25,25" S PSJBARY=PSJBARY+25 | |
| NUMBER: 4 | CTRL CODE ABBREVIATION: EB |
| FULL NAME: END OF BARCODE | |
| CONTROL CODE: W !!, "^FO",450,"",115,"^A0N,20,20","^FB200,,,C,^FD",PSJBCID,"^F S" S LINE=LINE+1,PSJBARY=15 | |
| NUMBER: 5 | CTRL CODE ABBREVIATION: STF |
| FULL NAME: START OF TEXT FIELD | CONTROL CODE: W "^FD" |
| NUMBER: 6 | CTRL CODE ABBREVIATION: SBF |
| FULL NAME: START OF BARCODE FIELD | CONTROL CODE: W "^FD" |
| NUMBER: 7 | CTRL CODE ABBREVIATION: ETF |
| FULL NAME: END OF TEXT | CONTROL CODE: W "^FS" |
| NUMBER: 8 | CTRL CODE ABBREVIATION: SL |
| FULL NAME: START LABEL | |
| CONTROL CODE: W "^XA",! S PSJBARY=15,PSJBARX=60 | |
| NUMBER: 9 | CTRL CODE ABBREVIATION: EL |
| FULL NAME: END OF LABEL | CONTROL CODE: W "^XZ" |
| NUMBER: 10 | CTRL CODE ABBREVIATION: EBT |
| FULL NAME: END OF BARCODE | CONTROL CODE: W "^FS" |
| NUMBER: 11 | CTRL CODE ABBREVIATION: SM |
| FULL NAME: START OF MED ROUTE | |
| CONTROL CODE: S PSJBARY=PSJBARY-20 W "^FO",PSJBARX,"",PSJBARY,"^A0N,25,25",!! | |
| NUMBER: 12 | CTRL CODE ABBREVIATION: EM |
| FULL NAME: END OF MED ROUTE | CONTROL CODE: S PSJBARY=PSJBARY+25 |
| NUMBER: 13 | CTRL CODE ABBREVIATION: SMF |
| FULL NAME: START MED ROUTE FIELD | CONTROL CODE: W "^FD" |
| NUMBER: 14 | CTRL CODE ABBREVIATION: EMF |
| FULL NAME: END MED ROUTE FIELD | CONTROL CODE: W "^FS" |
| NUMBER: 15 | CTRL CODE ABBREVIATION: EBF |
| FULL NAME: END BARCODE FIELD | CONTROL CODE: W "^FS" |
| NAME: P-TCP-ZEB UD BCMA DATA MATRIX | RIGHT MARGIN: 60 |
| FORM FEED: # | PAGE LENGTH: 84 |
| BACK SPACE: \$C(8) | |
| NUMBER: 1 | CTRL CODE ABBREVIATION: SL |
| FULL NAME: START LABEL | CONTROL CODE: W !,"^XA",!, "^LH0,0^FS" |
| NUMBER: 2 | CTRL CODE ABBREVIATION: EL |
| FULL NAME: END OF LABEL | CONTROL CODE: W "^XZ" |
| NUMBER: 3 | CTRL CODE ABBREVIATION: ST |
| FULL NAME: START TEXT | |
| CONTROL CODE: W !,"^FO"_PSBTYPE_"^A0N,30,20^CI13^FR^FD"_TEXT_"^FS" | |

```

NUMBER: 4                                CTRL CODE ABBREVIATION: SB
FULL NAME: START OF BARCODE
CONTROL CODE: W "^BY2,3.0,75,^FO59,80^BXN,,200,,,,^FD"_PSBBAR_"^FS" W !,"^A0N,
30,20^FB100,,,C,^FO50,160,^FD"_PSBBAR_"^FS"
NUMBER: 5                                CTRL CODE ABBREVIATION: STF
FULL NAME: START OF TEXT FIELD
CONTROL CODE: S PSBTYP=$S(PSBTLE="PSBDRUG": "20,15",PSBTLE="PSBDOSE": "20,50",P
SBTLE="PSBNAME": "275,60",PSBTLE="PSBWARD": "275,90",PSBTLE="PSBLOT": "275,120",PSB
TLE="PSBEXP": "275,150",PSBTLE="PSBMFG": "400,150",PSBTLE="PSBFCB": "275,180",1:"0,
0")
NAME: P-TCP-ZEB WRISTBAND                RIGHT MARGIN: 60
FORM FEED: #                             PAGE LENGTH: 84
BACK SPACE: $(8)
NUMBER: 1                                CTRL CODE ABBREVIATION: FI
FULL NAME: FORMAT INITIALIZATION         CONTROL CODE: W "^XA^PW203^LH0,0",!
NUMBER: 2                                CTRL CODE ABBREVIATION: SL
FULL NAME: START OF LABEL                CONTROL CODE: S DGY=510,DGX=7,CPSPID=0
NUMBER: 3                                CTRL CODE ABBREVIATION: EL
FULL NAME: END OF LABEL                  CONTROL CODE: W "^XZ"
NUMBER: 4                                CTRL CODE ABBREVIATION: STF
FULL NAME: START TEXT FIELD              CONTROL CODE: W "^FB450,1,,L,^FD"
NUMBER: 5                                CTRL CODE ABBREVIATION: ETF
FULL NAME: END TEXT FIELD                CONTROL CODE: W "^FS"
NUMBER: 6                                CTRL CODE ABBREVIATION: SHR
FULL NAME: START PID
CONTROL CODE: W "^FO",DGX,"",",DGY,"",",^FWR^A0B,20,20" S DGX=DGX+20
NUMBER: 7                                CTRL CODE ABBREVIATION: EHR
FULL NAME: END PID                       CONTROL CODE: W "^FS"
NUMBER: 8                                CTRL CODE ABBREVIATION: EB
FULL NAME: END BARCODE                   CONTROL CODE: W "^FS"
NUMBER: 9                                CTRL CODE ABBREVIATION: SBF
FULL NAME: START BARCODE FIELD           CONTROL CODE: W "^FD"
NUMBER: 10                               CTRL CODE ABBREVIATION: EBF
FULL NAME: END BARCODE FIELD             CONTROL CODE: W "^FS"
NUMBER: 11                               CTRL CODE ABBREVIATION: SLIN1
FULL NAME: START LINE 1
CONTROL CODE: W "^FO",DGX,"",",DGY,"",",^A0B,30,30" S DGX=DGX-40
NUMBER: 12                               CTRL CODE ABBREVIATION: ELIN1
FULL NAME: END LINE 1                    CONTROL CODE: W "^FS"
NUMBER: 13                               CTRL CODE ABBREVIATION: SLIN2
FULL NAME: START LINE 2
CONTROL CODE: W "^FO",DGX,"",",DGY,"",",^A0B,20,20" S DGX=DGX-20
NUMBER: 14                               CTRL CODE ABBREVIATION: ELIN2
FULL NAME: END LINE 2                    CONTROL CODE: W "^FS"
NUMBER: 15                               CTRL CODE ABBREVIATION: SLIN3
FULL NAME: START LINE 3
CONTROL CODE: W "^FO",DGX,"",",DGY,"",",^A0B,20,20" S DGX=DGX-20
NUMBER: 16                               CTRL CODE ABBREVIATION: ELIN3
FULL NAME: END LINE 3                    CONTROL CODE: W "^FS"
NUMBER: 17                               CTRL CODE ABBREVIATION: SLIN4
FULL NAME: START LINE 4
CONTROL CODE: W "^FO",DGX,"",",DGY,"",",^A0B,20,20"
NUMBER: 18                               CTRL CODE ABBREVIATION: ELIN4
FULL NAME: END LINE 4                    CONTROL CODE: W "^FS"
NUMBER: 19                               CTRL CODE ABBREVIATION: SBALL
FULL NAME: BARCODE ALL
CONTROL CODE: W "^BY2,3.0,75,^FO100,"_DGY1_"^FWR^BxB,,200,,,,"
NUMBER: 20                               CTRL CODE ABBREVIATION: EBALL
FULL NAME: END BAR ALL                    CONTROL CODE: W "^FS"
NUMBER: 21                               CTRL CODE ABBREVIATION: SB128
FULL NAME: BAR CODE 128

```

```

CONTROL CODE: W "^BY1.5,2.0^FO35,200^BCB,40,Y,N,N"
NUMBER: 22                                CTRL CODE ABBREVIATION: EB128
FULL NAME: END BAR 128                    CONTROL CODE: W "^FS"
NUMBER: 23                                CTRL CODE ABBREVIATION: PTDT
FULL NAME: PRINT DATE
CONTROL CODE: W "^FO",DGX,"",350,"", "^A0B,20,20" S DGX=DGX-20
NUMBER: 24                                CTRL CODE ABBREVIATION: EPTDT
FULL NAME: END PRINT DATE                 CONTROL CODE: W "^FS"
    
```

A.9 Device File

IV and UD printers - \$I and OPEN PARAMETERS fields modified to use Windows/DataRay software.

```

NUMBER: 194                                NAME: ZEB_IV_BCMA
$I: |PRN|BCMA_TESTIV                       VOLUME SET(CPU): TAL
LOCATION OF TERMINAL: NIC                     ASK HOST FILE: NO
ASK HFS I/O OPERATION: NO                   SUPPRESS FORM FEED AT CLOSE: YES
OPEN COUNT: 146                             OPEN PARAMETERS: "I"
MNEMONIC: IV
SUBTYPE: P-TCP-ZEB IV BCMA DATA MATRIX
TYPE: TERMINAL

NUMBER: 433                                NAME: ZEB_UD_BCMA
$I: |PRN|BCMA_TESTUD                       TASKMAN PRINT A HEADER PAGE: NO
VOLUME SET(CPU): TAL                       LOCATION OF TERMINAL: NIC
ASK HOST FILE: NO                          ASK HFS I/O OPERATION: NO
OPEN COUNT: 142                             OPEN PARAMETERS: "I"
MNEMONIC: UNIT DOSE
MNEMONIC: UD
SUBTYPE: P-TCP-ZEB UD BCMA DATA MATRIX
TYPE: TERMINAL
LAST SIGN-ON USER (c): CHANNEL,HEATHER N
    
```

A.10 Wristband Printer

OPEN PARAMETERS fields modified to use site specific IP address:

```

NUMBER: 431                                NAME: ZEBRA2824
$I: |TCP|9100                               TASKMAN PRINT A HEADER PAGE: NO
VOLUME SET(CPU): TAL                       LOCATION OF TERMINAL: NETWORK
ASK HOST FILE: NO                          ASK HFS I/O OPERATION: NO
SUPPRESS FORM FEED AT CLOSE: YES           OPEN COUNT: 1363
OPEN PARAMETERS: ("172.16.14.88":9100:"ACS":512:512)
MNEMONIC: WRISTBAND
SUBTYPE: P-TCP-ZEB WRISTBAND                TYPE: NETWORK CHANNEL
    
```

| | | | |
|--|------------|--------------------------------------|--------------------------------------|
| Pharmacy Informaticist (not for training) | PHARMACIST | PSB PHARMACY PSB GUI Context User | PSB MANAGER PSB UNABLE TO SCAN |
|--|------------|--------------------------------------|--------------------------------------|

Acronym List

| Acronym | Meaning |
|---------|--|
| ADT | Admission, Discharge, and Transfer |
| BCE | Bar Code Expansion |
| BCE-PPI | Bar Code Expansion-Positive Patient Identification |
| BCMA | Bar Code Medication Administration |
| BCRO | Bar Code Resource Office |
| CAH | Critical Access Hospital |
| CIHA | Cherokee Indian Hospital Authority |
| CIMTAC | Clinicians' Information Management Technology Advisory Council |
| CMS | Centers for Medicare and Medicaid Services |
| CNHS | Choctaw Nation Health Services Authority |
| CNMC | Chickasaw Nation Medical Center |
| DNC | Data Networks Corporation |
| EES | Employee Education System |
| EHR | Electronic Health Record |
| eMAR | electronic Medication Administration Record |
| EP | Eligible Professional |
| IHS | Indian Health Service |
| IRM | Information Resource Management |
| OIA | Office of Informatics and Analytics |
| OIT | Office of Information Technology |
| PIMC | Phoenix Indian Medical Center |
| RPMS | Resource and Patient Management System |
| SQA | Software Quality Assurance |
| VA | U.S. Department of Veterans Affairs |
| VAMHCS | VA Maryland Health Care System |
| VHA | Veterans Health Administration |