



BAR CODE MEDICATION ADMINISTRATION

Remote Printer Configuration and Test

Announcement and Agenda

November 16-20, 2015

Bristol Bay Area Health Corporation
Kanakanak Hospital, Dillingham, AK

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) has 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 (eMAR)

(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 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 CFT Voting Members

Last Name	First Name	Title
Vacant (Vice) Curtis	Clayton, MD	VHA IHS Liaison and Information Technology (IT) Informatics
Patillo	Jackie	Acting Executive Director for Field Operations, OIT, Department of Veterans Affairs (VA)
Graves	Cathi	Senior Management Analyst, BCRO, OIA, VHA
Moore	Lori	RPMS Investment Manager, OIT, IHS
Alcorn	Deborah	BCMA Co-Federal Lead, OIT, IHS

3.3 Cross Functional Team Standing Members

Last Name	First Name	Title
Alcorn	Deborah	BCMA Co-Federal Lead, 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
Carlson	Russ	Deputy Director, BCRO, OIA, VHA
Cook	Sean	Business Analyst, Data Networks Corporation (DNC) Contractor
Corma	Stephen	Pharmacist Consultant, BCRO, OIA, VHA
Cownie	Kevin	Clinical 3 Support Team, OIT, VA

Last Name	First Name	Title
Devlin	Vitalia	Clinical Product Support Division Director, OI&T, VA
Fox	Kirk	Clinical 1 Support Team, OIT, VA
Johnson	Dale	Clinical 2 Support Team, OIT, VA
Johnson	Katie	Chair, Pharmacy Professional Specialty Group, IHS
Linville	Kathleen	Clinical Product Support, OI&T, VA
Kost	Vivian	MSC Contractor, IHS
Lyttle	Kim	Clinical 1 Support Team, OIT, VA
Mian	Naeem	Clinical 1 Support Team, OIT, VA
Nelson	Joe	VHA IHS Liaison and IT Informatics
Nixon	Graham	Applied Informatics Service (AIS), VHA
Northern	Wanda	AIS, VHA
Patten	Tracie	Chair, IHS National Pharmacy Council
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
Seburn	Cindy	Clinical 1 Support Team, OI&T, VA
Stearle	Carla	BCMA Pharmacy Consultant, OIT, IHS
Toedt	Michael	(A) Chief Medical Informatics Officer, IHS
Vinokur	Ella	Enterprise Systems Management, Health Provider Systems (Janet M. Reimer - Alternate)
Von Bibra	Linda	CIMTAC Representative, Business Owner, IHS

3.4 Subject Matter Experts: VA – BCMA

Last Name	First Name	Title
Shum	Daphen	Pharmacist, Perry Point VA Medical Center, Perry Point, MD

3.5 Subject Matter Experts, Area and Site Teams: IHS

3.5.1 Albuquerque Area Office

Last Name	First Name	Title
Darwin	Wil	RPMS-EHR CAC/Pharmacy Consultant
Lucero	Joseph	Information Management Officer
Candelaria	Jacque	Meaningful Use Coordinator
Sierra	Robert	RPMS Administrator
Townsend	Judy	Information Technology Specialist

3.5.2 Acoma-Canoncito-Laguna Service Unit San Fidel, NM

Last Name	First Name	Title
Darwin	Wil	Acting CEO
Lucero	Merlin	IMS Site Manager
Peacock	Jeremy	Inpatient Nurse
Sanders	Theresa	BCMA Coordinator
Palanki	Suryam	Pharmacist Informaticist

3.5.3 Alaska Native Tribal Health Consortium

Last Name	First Name	Title
Gosney	Kimiko	ANTHC Clinical Application Coordinator
Hill	Audra	ANTHC Clinical Application Coordinator
McIntyre	Carlene	ANTHC Pharmacy Consultant

3.5.4 Blackfeet Community Hospital, Browning, MT

Last Name	First Name	Title
Ladd	Jamie	Inpatient Pharmacy CAC & BCMA Lead
Farr	James	Night Nursing Supervisor BCMA Coordinator
Ramirez	Charlene	Day Nursing Supervisor BCMA Coordinator
St. Goddard	Shirley	IT Specialist, RPMS
Chosa	Erik	Area Pharmacy & CAC

Last Name	First Name	Title
Kuka	Verna	Area IT/RPMS Specialist
Thomas	Stacey	Pharmacy Supervisor
Sabo	Jody	Surgery Supervisor

3.5.5 Bristol Bay Area Health Corporation, Dillingham, Alaska

Last Name	First Name	Title
Thrutchley	Vincent	Clinical Application Coordinator
Olson	Kane	Pharmacy Informaticist
Mahoney	Patrick	Inpatient Nurse Manager
Darrough	Johanna	Information Technology Specialist

3.5.6 Cherokee Indian Hospital Authority, Cherokee, NC

Last Name	First Name	Title
Lambert	Wanda	BCMA Coordinator
Helm	Elizabeth	Director of Pharmacy
White	Abigail	CAC
Rogers	Grant	Information Technology Specialist

3.5.7 Cheyenne River Service Unit, Eagle Butte, SD

Last Name	First Name	Title
Lee	Joy	BCMA Co-Project Lead
Liu	Roger	BCMA Co-Project Lead
Hollow Horn	Eunice	Nursing BCMA Coordinator
Yu	Rebecca	Pharmacy Informatics
Ducheneaux	Guthrie	Clinical Application Coordinator

3.5.8 Chickasaw Nation Health System, Ada, OK

Last Name	First Name	Title
Freeze	Travis	BCMA Coordinator

Last Name	First Name	Title
Kennedy	Melissa	BCMA Coordinator
Anderson	Jesse	Information Technology
Simpson	Patrick	Information Technology

3.5.9 Chinle Comprehensive Health Care Facility, Chinle, AZ

Last Name	First Name	Title
Bird	Nick	BCMA Lead/Clinical Application Coordinator
Fields	Jeanetta	BCMA Coordinator
Chase	Renee	BCMA Coordinator
Ransom	David	Pharmacy Informaticist
Janke	Gabriella	Inpatient Pharmacy Supervisor

3.5.10 Choctaw Health Center, Philadelphia, MS

Last Name	First Name	Title
Willis	Leslie	BCMA Project Lead/Clinical Application Coordinator
McKee	Nick	Pharmacy Informaticist
Willis	Raymond	Information Technology Specialist
Blair	Kristen	BCMA Coordinator/Inpatient Nurse Manager

3.5.11 Choctaw Nation Health Systems Authority, Tahleah, OK

Last Name	First Name	Title
Steers	Randy	Director of Inpatient Pharmacy Services
Olson	Matt	Pharmacy Administrative Data Processing Applications Coordinator
Green	Ross	Project Lead/CAC
Randolph	Audrine	Information Technology Specialist

3.5.12 Claremore Indian Hospital, Claremore, OK

Last Name	First Name	Title
O'Mary	Cindy	BCMA Coordinator/BCMA Project Lead

Last Name	First Name	Title
Tricinella	Jodi	BCMA Coordinator/ Pharmacist
Battese	Kelly	Facility Leader
Murphy	Billy	Biomedical Engineer
Rhodes	Jamie	Facility Leader
Ponder	David	Information Technology Support
Welch	Nancy	Respiratory Therapist
Sanders	Dr.	(Acting) Medical Director
O'Mary	Cindy	RN Nurse Manager
Lee	Mike	Pharmacy Manager
Wilton	Cory	Clinical Application Coordinator

3.5.13 Crownpoint Health Care Facility, Crownpoint, NM

Last Name	First Name	Title
Alvarez	Lydia	BCMA Project Lead/Clinical Application Coordinator
Kalathil	Abraham	Pharmacy Informaticist
Schneider	Cody	BCMA Coordinator/Nurse Management
LaChappelle	Cameron	Pharmacy Resident
Burbank	Jimmy	Information Technology Specialist

3.5.14 Fort Defiance Indian Hospital, Fort Defiance, AZ

Last Name	First Name	Title
Benally	Brenda	BCMA Coordinator
Boress	Jonathan	BCMA Coordinator
Naglich	Mike	BCMA Coordinator
Nez	Melinda	BCMA Coordinator

3.5.15 Gallup Indian Medical Center, Gallup, NM

Last Name	First Name	Title
Platero	Marcie	Clinical Applications Coordinator
Ruddle	Andy	Nursing BCMA Coordinator

Last Name	First Name	Title
Fuller	Rachael	Clinical Application Coordinator
Culligan	Kerri	Pharmacy BCMA Coordinator
Dineyazhe	Dawn	Clinical Applications Coordinator
Valgardson	Josh	Pharmacy Informaticist
Cope	Ray	Inpatient Pharmacy Supervisor

3.5.16 Great Plains Area Office

Last Name	First Name	Title
Rauth	Leslye	Area Clinical Applications Coordinator, Sioux Falls
Hall	Martin	Information Technology Specialist, Aberdeen Area Office
Schuchardt	Jon	Area Pharmacy Consultant

3.5.17 Kayenta Hospital, Kayenta, AZ

Last Name	First Name	Title

3.5.18 Mescalero Service Unit, Mescalero, NM

Last Name	First Name	Title
Simmons	Dorlynn	Health Administrator
Murphy	Kathy	IMS Site Manager
Adams	Yolanda	Director of Nursing
Marina	Mendez	Clinical Application Coordinator
Jason	Harris	Pharmacy Informaticist

3.5.19 Mt. Edgecumbe Hospital, Sitka, AK

Part of SEARHC (Southeast Alaska Regional Health Consortium)

Last Name	First Name	Title
Apathy	Peter	Systems Transformation Project Manager
Skam	Eric	Clinical Informaticist for Pharmacy
Anderson	Bill	Information Technology Staff
Parrish	Wade	Information Technology Staff
Mercurief Barker	Jay	Information Technology Staff
Stiles	Rhonda	Information Technology Staff
Chambers	Maya	Information Technology Staff
Gosney	Kimiko	Area CAC, Alaska Native Tribal Health Consortium (Anchorage)
McIntyre	Carlene	PharmD, Area Pharmacy Consultant, Alaska Native Tribal Health Consortium (Florida)
Gale	Traci	Director of Pharmacy
Massey	Jeanne	BCMA Lead Nurse

3.5.20 Nashville Area Office

Last Name	First Name	Title
Bartlett	Robin	CAC, Pharmacy Consultant
Boykin	Max	Nurse Consultant
Eller	Jim	Information Technology Specialist
Wright	Mitch	Division of information Resources Management Director

3.5.21 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

3.5.22 Northern Navajo Medical Center, Shiprock, NM

Last Name	First Name	Title
McAtasney	Grace	Clinical ICU Coach
Krestel	Clint	BCMA Coordinator
Van Tyle	Kendall	BCMA Coordinator
Fischer	Neil	Clinical Application Coordinator
Thompson	Regina	(ICU Manager), Implementation Lead

3.5.23 Oklahoma City Area Office

Last Name	First Name	Title
Cross	Charles	Information Technology Specialist
Burchett	Max	Pharmacy Informaticist
Loving	Becky	Nurse Consultant
Patten	Tracie	Pharmacy Consultant
Rubin	Amy	Clinical Application Coordinator
Thompson	Robin	Clinical Application Coordinator

3.5.24 Phoenix Area Office

Last Name	First Name	Title
Ahasteen	Ann	Information Technology Specialist
Reyes	Rebecca	Pharmacy Consultant
Cody	Keri	Information Technology Specialist
John	Karen	Director of Clinical Informatics (Acting) Lead EHR Clinical Application Coordinator
Mosely	Elvira	Clinical Application Coordinator
Brewer	Tammy	Clinical Application Coordinator
Towne	Jana	Area Nurse Consultant

3.5.25 Phoenix Indian Medical Center, Phoenix, AZ

Last Name	First Name	Title
John	Karen	(A) Director of Clinical Informatics

Last Name	First Name	Title
Diggins	Daniel	Inpatient Pharmacist
Myers	Shannon	Acting BCMA Coordinator
Von Bibra	Lynda	Clinical Application Coordinator
Walling	Jeff	Pharmacy Informaticist
Davis	Jordon	Inpatient Pharmacist
Milkam	Anthony	Clinical Application Coordinator
Larocque	Patricia	Inpatient Director of Nursing

3.5.26 Pine Ridge Hospital, Pine Ridge, SD

Last Name	First Name	Title
Austin	Latona	BCMA Pharmacy Coordinator/ BCMA Lead
Nelson	Angela	Inpatient Pharmacy Supervisor
Sahr	Rodney	Clinical Applications Coordinator
Jacobs	Tom	BCMA IT Specialist
American Horse	Maxine	Inpatient Nursing Supervisor
Dixon	Linda	BCMA Nursing Coordinator
Schreiner	Tasheena	BCMA Nursing Coordinator
Stover	Ed	IT Specialist
Teresa	Blacksmith	OB Nursing Supervisor

3.5.27 Quentin N. Burdick Memorial Healthcare Facility, Belcourt, ND

Last Name	First Name	Title
Indvik	Kathy	BCMA Lead, CAC
Knutson	Ken	Pharmacy Informaticist
Dodd	Mary	Pharmacist
Lenoir	Nichole	Nurse Supervisor

3.5.28 Red Lake Hospital, Red Lake, MN

Last Name	First Name	Title
Spaeth	Pam	Clinical Application Coordinator
Gunderson	Cindy	Chief Pharmacist
Cook	Mary Ann	Director of Nursing
Thomas	Jeremy	Information Technology Specialist
Garrigan	Douglas	Information Technology Manager

3.5.29 Rosebud Comprehensive Health Care Facility, Rosebud, SD

Last Name	First Name	Title
Greenhagin	Carin	RN, Lead Nurse Informatics/ Acting Inpatient Supervisor
Frye	Matthew	Chief Pharmacy
Peterson	Abby	Inpatient Pharmacist
Labelle	Jeanette	Information Technology

3.5.30 Santa Fe Indian Hospital, Santa Fe, NM

Last Name	First Name	Title
Dye	Leslie	Health Administrator
Tenorio	Luke	IMS Site Manager
Bitsoie	Gary	Asst. IMS Site Manager
Palucci	Lisa	Director of Nursing
Kyle	Sheffer	Pharmacist Informaticist/CAC

3.5.31 Sells Indian Hospital, Sells, AZ

Last Name	First Name	Title
Lester	John	Clinical Application Coordinator
Wade	Karen	Chief Information Officer
Contos	Michael	Chief Pharmacist
Cerna	Pat	HIM Supervisor
Feldman	Lou	Pharmacy Informaticist
Whitman	Yolanda	Coding Supervisor

3.5.32 Whiteriver Service Unit, Whiteriver, AZ

Last Name	First Name	Title
Haigh	Randy	Clinical Applications Coordinator
Campbell	Brian	BCMA Project Lead, Director of Professional Services
Wilson	Valerie	Pharmacy BCMA Coordinator
Vangie	Pablo	Nursing BCMA Coordinator, Nursing Supervisor
Clonts	Dan	Nursing BCMA Coordinator, Assistant Nurse Supervisor
Orzel	Paula	Nursing BCMA Coordinator, Assistant Nurse Supervisor
Cloud	Beverly	Nurse, Whiteriver Phoenix Area

3.5.33 Winnebago Service Unit, Winnebago, NE

Last Name	First Name	Title
Reed	Tracy	BCMA Lead
Porter	Susan	Pharmacist
Reiser	Karen	Director of Nursing
Poignee	Theresa	Information Technology Specialist

3.5.34 Zuni Service Unit, Zuni, NM

Last Name	First Name	Title
Grizzle	Rebecca	Quality Manager

Last Name	First Name	Title
Salvador	Roxanne	RPMS Site Manager
Martinez	Keith	Information Technology Specialist
Kanesta-Brislin	Terry	Director of Nursing
Romancito	Melanie	Clinical Application Coordinator
Harker	Erica	Chief Pharmacist

4.0 Detailed Agenda

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

Monday- Friday (All Times are Alaska Time)

Start	Topic
8:30 AM	<p>BCMA Hardware and Installation</p> <ul style="list-style-type: none"> • Delineate Access Points and Workflow for BCMA Wristband Printers. • Assign PPW Secondary Menu to All Employees Identified for BCMA Wristband Workflow. • Install, configure, and test BCMA printers/scanners: <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]: <ul style="list-style-type: none"> – Finalize printer setup including printhead adjustment and move to Intended Locations.
	<p>BCMA End-to-End Testing</p> <ul style="list-style-type: none"> • Admit BCMA Demo Patient Trial using Delayed Orders. • Order Unit Dose, IV Infusion, IV Piggyback, IVP, Transdermal, Topical, and Special Medications off the BCMA Medication Training Menu. • RN Finish All Orders. • Verify and Complete Medication Orders. • Generate Wrist Band and “BCMA Option 10” Medication Bar Code Labels. • Create Mock Medication Drawers with Labels for each Patient. • Set Up Computer Work Station with Bar Code Scanner for each patient. • Conduct “End-to-End” testing for both Wrist Band, IV, and Medication Bar Codes. • Complete all identified and unfinished tasks.
5:00 PM	Adjourn

5.0 Biographical Sketches

CAPT Deborah Alcorn, MSN, RN, CPC

BCMA Deployment Specialist

IHS, OIT

Deborah has been a 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 OIA, 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, clinical applications coordinator, and pharmacy consultant.

Jaculyn Bloch

IT Specialist

Clinical 1 Support Team/Clinical Product Support

Product Development, VA

Jaci is currently working as an IT 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 IT 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**IT 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 OIA, BCRO**

Stephen Corma is a registered Pharmacist serving as the Pharmacy Consultant for the VA BCRO. 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 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 & Parameters workgroup). He also worked with Physicians, Clinical Application Coordinators, & 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, & 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 BCRO, joining them as Pharmacist Consultant in October 2013.

Kevin Cownie**IT Specialist****Clinical 3 Support Team/Clinical Project Support****Product Development, VA**

Kevin Cownie is currently an IT 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**IT 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 IT 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 IT 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

VHA, OIA

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 IT 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 the Employee Education System (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
OIT, VA

Dale Johnson is currently an IT Specialist with National Clinical Product Support, VA. Prior to national support, Dale labored as a Clinical Application Coordinator 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)
IT Specialist
Clinical 1 Support Team/Clinical Product Support
Product Development, VA

Kim Lyttle is a registered Medical Technologist and is currently an IT 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 IT Specialist at Martinsburg VAMC.

Since 2000 Kim has been assigned as an IT Specialist for the Clin 1 Support Team, CPS, PD, Department of VA. 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, 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

IT 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 OIT.

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

BCMA Deployment Lead

IHS, OIT

Captain (ret) 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 manager, 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 the 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 IT 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 Clinical Applications Coordinator. 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*1018          Apr 1, 2015 12:21 pm          PAGE 1
-----
TYPE: SINGLE PACKAGE              TRACK NATIONALLY: YES
NATIONAL PACKAGE: PIMS            ALPHA/BETA TESTING: NO

DESCRIPTION:
DGPWBD and BDG* routines, BCMA IHS Options/Routines, BCMA Terminal Type and
Device file entries, BCMA BCBU Logical Link and routines.

ENVIRONMENT CHECK: BDGP18PS          DELETE ENV ROUTINE: No
PRE-INIT ROUTINE:                   DELETE PRE-INIT ROUTINE:
POST-INIT ROUTINE:                   DELETE POST-INIT ROUTINE:
PRE-TRANSPORT RTN:

                                UP    SEND  DATA          USER
                                DATE  SEC.  COMES          OVER
                                DD    CODE  W/FILE         PTRS  RIDE
-----
3.2  TERMINAL TYPE                NO    NO    YES            NO
3.5  DEVICE                        NO    NO    YES            YES
53.7  BCMA BACKUP DATA            YES   YES   NO

ROUTINE:                          ACTION:
ALPBFRMU                            SEND TO SITE
ALPBHL2                              SEND TO SITE
ALPBINP                              SEND TO SITE
BDGICSI                              SEND TO SITE
BDGPCCCL                             SEND TO SITE
BDGSTAT2                             SEND TO SITE
DGPWBD                               SEND TO SITE
PSBIHS1                              SEND TO SITE
PSBIHS2                              SEND TO SITE
PSBIHS3                              SEND TO SITE
PSBIHS4                              SEND TO SITE
PSBIHS5                              SEND TO SITE
PSBIHS6                              SEND TO SITE

OPTION:                              ACTION:
PSBIHS BCMA BCBU                     SEND TO SITE
PSBIHS CORRECT DRUG POINTERS         SEND TO SITE
PSBIHS DRUG CHECK                     SEND TO SITE
PSBIHS DRUG IEN CHECK                 SEND TO SITE
PSBIHS MED GIVEN NDC REPORT          SEND TO SITE
PSBIHS MOB DATE                       SEND TO SITE
PSBIHS MOB TASK                       SEND TO SITE

HL LOGICAL LINK:                     ACTION:
PSB BCBU                              SEND TO SITE

INSTALL QUESTIONS:

```

```

Default Rebuild Menu Trees Upon Completion of Install: YES

REQUIRED BUILDS:

PIMS*5.3*1017

ACTION:
    Don't install, leave
    global

```

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 was distributed in BJPC Patch 10.

```

APCDMSR1 ; IHS/CMI/LAB - Cumulative Vital Measurement Report
          ;;2.0;IHS PCC SUITE;**10**;MAY 14, 2009;Build 77

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 was distributed in EHR Patch 12.

```

BEHOENPC ;MSC/IND/DKM - PCC Data Management
          ;;1.1;BEH COMPONENTS;**005003,005004,005005,005006,005007,005008,005009
          ,005010**;Sep 18, 2007

MSR+7
I XM="" S DATA=0 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 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 was distributed in APSP patch 1018.

```

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

; - 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,DLAGO,X,Y,PSIVLIM,MINS,PSJDSTP1,PSJDSTP2,A,PSJCLIN,PSJDNM,PSJ
PROV,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)

```

A.4 PSBIHS Options

```

NAME: PSBIHS BCMA BCBU                MENU TEXT: BCMA Backup Task
TYPE: run routine                    CREATOR: SADDLER,CHRIS
PACKAGE: BAR CODE MED ADMIN
DESCRIPTION: This option writes BCMA data to a HFS file. It should be
tasked to run once an hour.
ROUTINE: PSBIHS5                     SCHEDULING RECOMMENDED: YES
UPPERCASE MENU TEXT: BCMA BACKUP TASK

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

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 MED GIVEN NDC REPORT      MENU TEXT: BCMA Med Given NDC Report
TYPE: run routine                       CREATOR: SADDLER,CHRIS
PACKAGE: BAR CODE MED ADMIN
DESCRIPTION: This option is a patient report by date range of
medications administered using BCMA. It can include Order Details and/or
NDC Daily
Summary.
ROUTINE: PSBIHS4
UPPERCASE MENU TEXT: BCMA MED GIVEN NDC REPORT

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
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

```

A.5 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

```

A.6 Menu Structure

A.6.1 Place on PSJU MGR Unit Dose Medications Menu

```
BCMA PSB PHARMACY
```

A.6.2 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.6.3 Place on PSB NURSE PSB NURSE Medication Administration Menu Nursing

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

A.6.4 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.6.5 Secondary Menu for All BCMA Users

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

PSB GUI CONTEXT-USER BCMA Client Context
```

A.6.6 Secondary Menu for CAC/BCMA Coordinator

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

A.6.7 Secondary Menu for BCMA Coordinator

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

A.6.8 Secondary Menu for Nurses

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

A.6.9 Secondary Menu for Inpatient Pharmacists

BCMA PSB PHARMACY Medication Administration Menu Pharmacy

A.6.10 Key for All BCMA Users

PSB CPRS MED BUTTON

A.6.11 Key for BCMA Coordinator

PSB UNABLE TO SCAN

A.6.12 Key for CAC/BCMA Coordinator

PSB MANAGER

A.6.13 Sample RPMS Provider Setups for BCMA

Role	TIU Class1	Synonym	Secondary Menu	Keys
Physician	PHYSICIAN	(none)	PSB GUI CONTEXT USER	PSB READ ONLY
Nurse	REGISTERED NURSE	BCMA	PSB NURSE	PSB CPRS MED BUTTON
Nurse	REGISTERED NURSE	(none)	PSB GUI CONTEXT USER	PSB CPRS MED BUTTON
Nurse	REGISTERED NURSE	(none)	OR BCMA ORDER COM	PSB CPRS MED BUTTON
Pharmacist	PHARMACIST	BCMA	(none)	<none>
BCMA Coordinator	CLINICAL COORDINATOR	BCMA	PSB NURSE *if user is a Nurse	PSB MANAGER PSB UNABLE TO SCAN PSB CPRS MED BUTTON
BCMA Coordinator	CLINICAL COORDINATOR	BNUR	PSB NURSE *if user is a Pharmacist	PSB MANAGER PSB UNABLE TO SCAN PSB CPRS MED BUTTON
BCMA Coordinator	CLINICAL COORDINATOR	(none)	PSB GUI CONTEXT USER	PSB MANAGER PSB UNABLE TO SCAN PSB CPRS MED BUTTON
BCMA Coordinator	CLINICAL COORDINATOR	(none)	OR BCMA ORDER COM	PSB MANAGER PSB UNABLE TO SCAN PSB CPRS MED BUTTON
BCMA Coordinator	CLINICAL COORDINATOR	TOOL	PSB TOOL MENU ITEMS	PSB MANAGER PSB UNABLE TO SCAN PSB CPRS MED BUTTON
BCMA Coordinator	CLINICAL COORDINATOR	BPHA	PSB PHARMACY *if a Nurse	PSB MANAGER PSB UNABLE TO SCAN PSB CPRS MED BUTTON
BCMA Coordinator	CLINICAL COORDINATOR	BCMA	PSB PHARMACY *if a Pharmacist	PSB MANAGER PSB UNABLE TO SCAN PSB CPRS MED BUTTON

Role	TIU Class1	Synonym	Secondary Menu	Keys
BCMA Coordinator	CLINICAL COORDINATOR	PSB	PSB MANAGER	PSB MANAGER PSB UNABLE TO SCAN PSB CPRS MED BUTTON
Nurse Manager (not for training)	REGISTERED NURSE	BCMA	PSB NURSE	PSB MANAGER PSB UNABLE TO SCAN
Nurse Manager (not for training)	REGISTERED NURSE	(none)	PSB GUI CONTEXT USER	PSB MANAGER PSB UNABLE TO SCAN
Nurse Manager (not for training)	REGISTERED NURSE	(none)	OR BCMA ORDER COM	PSB MANAGER PSB UNABLE TO SCAN
Nurse Manager (not for training)	REGISTERED NURSE	PSB	PSB MANAGER	PSB MANAGER PSB UNABLE TO SCAN
Pharmacy Informaticist (not for training)	PHARMACIST	BCMA	PSB PHARMACY	PSB MANAGER PSB UNABLE TO SCAN
Pharmacy Informaticist (not for training)	PHARMACIST	(none)	PSB GUI CONTEXT USER	PSB MANAGER PSB UNABLE TO SCAN
Pharmacy Informaticist (not for training)	PHARMACIST	PSB	PSB MANAGER	PSB MANAGER PSB UNABLE TO SCAN

Revised 3/13/15 vmj/mra

Revised 7/22/15 cls/dka/mra/drt

A.7 Terminal Type

The following Terminal Type entries are available:

- P-TCP-ZEBR IV BCMA DATA MATRIX
- P-TCP-ZEBR MAR LABEL
- P-TCP-ZEBR UD BCMA DATA MATRIX
- P-TCP-ZEBR WRISTBAND ADULT
- P-TCP-ZEBR WRISTBAND INFANT
- P-TCP-ZEBR WRISTBAND PEDS

Note: P-TCP-ZEB IV BCMA DATA MATRIX was modified at Choctaw to print on 3.5 x 2 inch labels. Usual IV label is 3 x 3 inches.

A.8 Device File

The following Device entries are available:

- ZEB_IV_BCMA NIC |TCP|9100 BCMA
- ZEBRA2824 MAR LABEL NETWORK |TCP|9100 BCMA
- ZEB_UD_BCMA NIC |TCP|9100 BCMA
- ZEBRA2824 ADULT NETWORK |TCP|9100 BCMA
- ZEBRA2824 INFANT NETWORK |TCP|9100 BCMA
- ZEBRA2824 PEDS NETWORK |TCP|9100 BCMA

IV, UD and Infant Wristband 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

```

```
NUMBER: 434                                NAME: ZEBRA2824 INFANT
$I: |PRN|BCMA_TEST INFANT WB              TASKMAN PRINT A HEADER PAGE: NO
LOCATION OF TERMINAL: NETWORK               ASK HOST FILE: NO
ASK HFS I/O OPERATION: NO                 SUPPRESS FORM FEED AT CLOSE: YES
OPEN COUNT: 1335
OPEN PARAMETERS: "I"
MNEMONIC: WRISTBAND INFANT
SUBTYPE: P-TCP-ZEBR WRISTBAND INFANT     TYPE: TERMINAL
```

A.9 Wristband Printer

OPEN PARAMETERS fields modified to use site specific IP address:

```
NUMBER: 431                                NAME: ZEBRA2824 ADULT
$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 ADULT
SUBTYPE: P-TCP-ZEB WRISTBAND ADULT        TYPE: NETWORK CHANNEL
```

Acronym List

Acronym	Meaning
AIS	Applied Informatics Service
BCE	Bar Code Expansion
BCMA	Bar Code Medication Administration
BCRO	Bar Code Resource Office
CAH	Critical Access Hospital
CIMTAC	Clinicians' Information Management Technology Advisory Council
CMS	Centers for Medicare and Medicaid Services
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
IT	Information Technology
OIA	Office of Informatics and Analytics
OIT	Office of Information Technology
RPMS	Resource and Patient Management System
VA	U.S. Department of Veterans Affairs
VAMHCS	VA Maryland Health Care System
VHA	Veterans Health Administration