



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **BCMA Super User Training, Pharmacy Training, and Go Live**

## **Announcement and Agenda**

March 15 - 20, 2015

Phoenix Indian Medical Center  
Phoenix, AZ

Office of Information Technology  
Division of Information Technology  
Albuquerque, New Mexico

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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 (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 Training

BCMA is an integral part of the Electronic Health Record. Nurses administer medications, including IV piggy-back medications and IV large-volume medications through BCMA. All information is documented with a time stamp for improved accuracy of clinical information. The documented administration information is available throughout the medical center to any clinician or pharmacist as part of the integrated health record. Pharmacy and nursing staff members must collaborate closely with information management staff, if the medication administration arm of a hospital care system is to work optimally; just as rapid computer response time is crucial to the success of a computerized medication administration system. The purpose of this activity is to provide BCMA training to the BCMA Super User.

### 2.1 BCMA Coordinator

The BCMA Coordinator is responsible for developing and implementing processes to improve the safety, efficacy, and efficient of medication management processes associated with BCMA. BCMA Coordinators should understand how the software functions and how pharmacy's finishing of orders affects what appears in BCMA. Coordinator responsibilities include but are not limited to:

- Acts as a liaison between the IHS Bar Code Resource Office and facility level management.
- Serves as a liaison between administration, clinical staff, and IT regarding BCMA medication management process.
- Monitors and reports effectiveness of change outcomes to local management and national oversight groups.
- Recommends local procedural and policy changes as appropriate.
- Test and verifies updates, patches, and new releases of BEMC prior to activation.
- Disseminates information to end users on policies and procedures.
- Facilitates training, installation, maintenance, and overall use of BCMA throughout the hospital.
- Provides user support to nursing, pharmacy, and other service lines by troubleshooting operational issues.
- Plans and ensures initial ongoing training for all BCMA users, students, and temporary staff.
- Designs, develops, updates, and maintains training documents within the facility.
- Actively participates in local facility multidisciplinary committee.
- Participates in the national BCMA conference calls and training initiatives.
- Develops, implements, and monitors a performance improvement plan for the medication management process as it relates to BCMA.

## 2.2 BCMA Multidisciplinary Committee

The BCMA Multidisciplinary Committee provides ongoing multidisciplinary support to implement any necessary changes to improve the proper use of the software, affect oversight and maintenance of equipment, and provide guidance on business-related processes. This committee should meet monthly to resolve BCMA issues and is often a sub-committee of the Pharmacy and Therapeutics Committee. The BCMA Multidisciplinary Committee which comprise end users and affiliates who can act as change agents at the local facility. Both the BCMA Coordinator and BCMA Multidisciplinary Committee work together to ensure patient safety is optimized, and this teamwork is central to BCMA success.

BCMA Multidisciplinary Committee Responsibilities include but are not limited to:

- Oversee medication manage process and interdependencies.
- Create accountability and an ownership approach to BCMA use.
- Guide facility or health care direction.
- Assess, treats, and standardizes clinic, technical and operational direction.
- Recommend policy and procedural changes to optimize BCMA use.
- Centralize and streamlines systems and process channels.
- Provide guidance to facility sponsors and end users.
- Support and maintains best practice models.
- Provide early warning of performance deficiencies and makes recommendations for improving performance to achieve business results.
- Facilitate alignment of BCMA performance objectives with facility or health care system strategic goals.

BCMA Multidisciplinary Committee Membership should include:

- BCMA Coordinator
- Clinical applications coordinator
- End users authorized to administer medications
- Information technology
- Inpatient pharmacy
- Union representatives if applicable
- Performance improvement
- Patient safety
- Respiratory therapy (if applicable)
- Chief of medical staff
- Nurse management

## 2.3 BCMA End User and Super User

A BCMA End User is an individual who uses BCMA for medication administration in a patient care setting.

A BCMA Super User is an individual who uses BCMA for medication administration in a patient care setting and also serves as a support resource to other BCMA users.

Verified medication orders become available in the nursing staff's point-of-care BCMA. The Virtual Due List (VDL) is the electronic counterpart of an eMAR, and is used to display medications and the appropriate administration time frame for each. Medications may be scanned and administered, following a medication orders verification by an end user nurse authorized to administer medications.

As a handheld bar code reader registers each medication, the software verifies the correct medication was ordered, administered on time, and measured in the correct dosage, while at the same time documenting the actual administration of the medication. This process ensures the *Five Rights* universal standard of medication administration is maintained. Once the medication administration procedure has been completed for a particular timeframe, the nurse uses the Missed Medication function to generate a report of omitted medications and takes steps to resolve any reported discrepancies.

Recording and reporting features of BCMA include:

- **VDL:** Records medications that need to be administered to a patient within the specific time parameters. These include active Continuous, PRN, On-Call, One-Time medication orders.
- **Due List Report:** Provides detailed information about active and future Unit Dose and IV Medication orders that are due for administering to a patient, within a specific timeframe during a 24-hour period.
- **Medication Administration History (MAH) Report:** Lists the patient's Unit Dose and IV medication orders and any actions taken on the order.
- **Medication Log Report:** Displays a detailed history of actions taken on a patient's medication orders.
- **Missing Dose Requests:** Automatically alerts Pharmacy personnel of a Missing Dose order by printing requests for reissuing on a designated printer in the Pharmacy. This method minimizes the nurses' workload disruption to the Pharmacy and Nursing workflow. An email notification is also sent from the BCMA to the Pharmacy when a Missing Dose Request is submitted by a clinician.
- **Missed Medications Report:** Includes Continuous and One-Time Unit Dose and IV Piggyback medications that were not administered to a patient during a medication pass, within a specific timeframe, during a 24-hour period. This Report also includes Missing Dose Requests submitted to the Pharmacy.

- **PRN Effectiveness List:** Identifies PRN or *as needed* medication doses that require Effectiveness comments after they are given.
- **Medication Variance Log:** Logs medications given outside the medication administration window as Early or Late (depending on the site parameter settings), including the time it was scanned, and the reason it was administered early or late, any comments from the nurse, late PRN Effectiveness documentation, and event totals and percentages.
- **Patient Record Flag (PRF) Report:** Prints detailed information about any active PRF assignments associated with the current patient record.
- **Cover Sheet-Medication Overview Report:** Displays and groups active, expired or discontinued, and future expiring orders.
- **Cover Sheet-PRN Overview Report:** displays and groups active, expired or discontinued and future expiring orders with a schedule type of PRN for the current patient or by selected patients on a ward. For each group, the total number of orders per group is displayed in brackets next to the group heading.
- **Cover Sheet-IV Overview Report:** Displays and groups IV bag information on active, expired, and discontinued orders for the current patient or by selected patients on a ward. For each group, the total number of IV bags per group is displayed in brackets next to the group heading.
- **Cover Sheet-Expired/DC'd/Expiring Orders Report:** Displays and groups expired and discontinued orders, as well as orders that will expire for the current patient or by selected patients on a ward. For each group, the total number of IV bags per group is displayed in brackets next to the group heading.
- **Medication Therapy Report:** Includes information similar to the Medication History Report but does not require a patient record to be open. The report allows searching by VA Drug Class, Orderable Item, or Dispense Drug within a specified date range and selected search criteria. This report can be run for the current patient or by selected patients on a ward.
- **IV Bag Status Report:** Provides status on IV bags, excluding available bags, by patient or by selected patients on a ward. This report allows the user to include/exclude completed, infusing, stopped, missing, held and refused IV bags. In addition, the user can include bags for which no action has been taken on order.
- **Unable to Scan (Detailed) Report:** Provides detailed information related to each *unable to scan* event for a selected ward/nurse unit, or for all wards. The report includes patient, date/time of unable to scan event, location, type of bar code failure, drug, user's name, reason for scanning failure and optional comments. The user can specify report selection criteria including start and stop date/time, type of scanning failure, and the unable to scan reason, in addition to up to three levels of sort fields.

- **Unable to Scan (Summary) Report:** Provides totals and percentages of wristband and medication bar codes scanned and when scanning is bypassed. The report will include totals and percentages for total wristband scanned, total wristbands bypassed, total medications scanned, and total medications bypassed. The user will be able to print the reports for the entire facility, by nurse unit/location or by ward.

## 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
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)
Kompkoff	Jeanette	RPMS Acting Investment Manager, OIT, IHS
Taylor	David	BCMA Federal Lead, 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 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
Carlson	Russ	Acting Director, BCRO, OIA, VHA
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
Dial	Cornelius	Chair, Pharmacy Professional Specialty Group, IHS
Fox	Kirk	Clinical 1 Support Team, OIT, VA
Johnson	Dale	Clinical 2 Support Team, OIT, VA

Last Name	First Name	Title
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
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), OIT, VA

### 3.4 Subject Matter Experts (IHS Areas with Hospitals)

Last Name	First Name	Title
Bartlett	Robin	Clinical Applications Coordinator, 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)
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 Application Coordinator, Phoenix Area Office
Olson	Matt	Pharmacy Administrative Data Processing Applications Coordinator, CNHSA

Last Name	First Name	Title
Patten	Tracie	Pharmacy Consultant, Oklahoma City Area Office
Randolph	Audrine	Information Technology Specialist, CNHSA
Rubin	Amy	Clinical Applications Coordinator, 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	Clinical Application Coordinator, PIMC
Walling	Jeff	Pharmacist, PIMC
Wright	Mitch	Division of Information Resources Management Director, Nashville Area Office

### 3.5 Subject Matter Experts (VA – BCMA)

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

### 3.6 Albuquerque Area Office BCMA Team

Last Name	First Name	Title
Alexander	Elaine	Nurse Consultant
Candelaria	Jacque	Meaningful Use Coordinator
Darwin	Wil	RPMS-EHR CAC/Pharmacy Consultant
Lucero	Joseph	Information Management Officer

### 3.7 Great Plains Area Office BCMA Team

Last Name	First Name	Title
Hall	Martin	Information Technology Specialist, Great Plains Area Office
Rauth	Leslye	Clinical Applications Coordinator, Great Plains Area Office
Schuchardt	John	Pharmacy Consultant, Great Plains Area Office
		Nurse Consultant, Great Plains Area Office

### 3.8 Mt. Edgecumbe Hospital (Sitka, AK) BCMA Team

Part of Southeast Alaska Regional Health Consortium.

Last Name	First Name	Title
Anderson	Bill	Information Technology Staff
Apathy	Peter	Systems Transformation Project Manager
Chambers	Maya	Information Technology Staff
Gale	Traci	Director of Pharmacy
Gosney	Kimiko	Area CAC, Alaska Native Tribal Health Consortium (Anchorage)
Heston	Teresa	Information Technology Staff
Langdorf	Brad	Chief Nursing Officer
McIntyre	Carlene	PharmD, Area Pharmacy Consultant, Alaska Native Tribal Health Consortium (Florida)
Mercurief Barker	Jay	Information Technology Staff
Parrish	Wade	Information Technology Staff
Skan	Eric	Clinical Informaticist for Pharmacy
Stiles	Rhonda	Information Technology Staff

### 3.9 Nashville Area Office BCMA Team

Last Name	First Name	Title
Bartlett	Robin	Clinical Applications Coordinator, Pharmacy Consultant
Boykin	Max	Nurse Consultant
Wright	Mitch	Division of information Resources Management Director , Nashville Area Office

### 3.10 Navajo Area Office BCMA Team

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

### 3.11 Oklahoma City Area Office BCMA Team

Last Name	First Name	Title
Burchett	Max	Pharmacy Informaticist, Oklahoma Area

Last Name	First Name	Title
Cross	Charles	Information Technology Specialist, Oklahoma City Area Office
Lambeth	Jonathan	Information Technology Specialist, Oklahoma Area
Loving	Becky	Nurse Consultant, Oklahoma City Area Office
Patten	Tracie	Pharmacy Consultant, Oklahoma City Area Office
Rubin	Amy	Clinical Applications Coordinator, Oklahoma City Area Office
Thompson	Robin	Asst. Clinical Applications Coordinator, Oklahoma Area

### 3.12 Phoenix Area Office BCMA Team

Last Name	First Name	Title
Ahasteen	Ann	IT Specialist
Campbell	Brian	Acting Pharmacy Consultant
Cody	Keri	BCMA Coordinator (now Phoenix Area)
Dahozy	Carol	Nurse Consultant
John	Karen	Director of Clinical Informatics (Acting) Lead EHR Clinical Application Coordinator
Mosely	Elvira	Clinical Application Coordinator
Tennyson	Shawn	IT Specialist

### 3.13 PIMC BCMA Team

Last Name	First Name	Title
Diggins	Daniel	Inpatient Pharmacist
Von Bibra	Lynda	Clinical Application Coordinator
Walling	Jeff	Pharmacist

## 4.0 Referenced Documents

### 4.1 Background

This agenda has been developed over a period of time, during which a number of documents were developed to assist in the process of BCMA configuration. These documents were previously included as appendices to the Agendas for Configuration and Test.

These documents have been sufficiently developed that they have been split off from the agenda and are stand-alone files. These files are available from the IHS BCMA website at <http://www.ihs.gov/bcma/resources/>. They are now referenced in this agenda by their current names.

### 4.2 Historical Cross-Reference

Table 4-1 serves as a cross-reference between the previous and current names for the referenced documents.

Table 4-1: Historical Cross-references

Former Appendix Name	Current Document Title	Current File Name
Appendix A: BCMA End-User Training (Brief)	End User Training	BCMA_EndUserTraining.pdf
Appendix B: BCMA Coordinator and/or Pharmacy to Teach Site Specific Special Situations Standard Bar Codes	Pharmacy Detailed Training	BCMA_PharmacyDetailed Training.pdf
Appendix C: BCMA Pharmacy Training Detailed Agenda	Unit Dose Tab Example	BCMA_UnitDoseTab Example.pdf
Appendix D: BCMA GUI Unit Dose Tab	Med Display Trouble Shooting	BCMA_MedDisplay Troublshooting.pdf
Appendix E: Inpatient Medications Incorrectly Displaying	Competencies Checklist	BCMA_Competencies Checklist.pdf
Appendix F: Sample - BCMA Competency	Nurse Competencies Checklist	BCMA_NurseCompetencies Checklist.pdf
Appendix G: Sample - BCMA Nursing Competency	Pharmacy Inpatient Checklist	BCMA_PharmacyInpatient Checklist.pdf
Appendix H: Sample - BCMA Inpatient Pharmacy Checklist	Pharmacist Trouble Shooting	BCMA_Pharmacist Troublshooting.pdf
Appendix I: BCMA Troubleshooting for Pharmacists	Drug Issue Trouble Shooting	BCMA_DrugIssue Troublshooting.pdf

<b>Former Appendix Name</b>	<b>Current Document Title</b>	<b>Current File Name</b>
Appendix J: BCMA Drug Issues	Unable To Scan FileMan Script	BCMA_UnableToScanFileManScript.pdf
Appendix K: FileMan to Identify Meds Unable to Scan	Scanning Trouble Shooting	BCMA_ScanningTroubleshooting.pdf
Appendix L: BCMA Basic Troubleshooting for Scanning Failures	Timely Admin Policy Sample	BCMA_TimelyAdminPolicySample.pdf
Appendix M: Timely Administration of Scheduled Drugs	HS-VA SOP	I BCMA_IHS-VA_SOP.pdf
Appendix N: IHS and VA Collaborative Standard Operating Procedure	End User Training	BCMA_EndUserTraining.pdf

## 5.0 Detailed Agenda

**All Times are Mountain Daylight Time  
Saturday**

### 5.1 Course Section Key

- BCMA Super User Training Section A
- BCMA Pharmacy Training Section B
- BCMA Coordinator Training Section C

Time	Topic
<b>6:00 PM</b>	<p><b>BCMA Super User Training (Section A - Session 1)</b></p> <p>At the end of this session participants should be able to:</p> <ul style="list-style-type: none"> <li>• Define BCMA roles, user configuration, and terms that often cause confusion.</li> <li>• Demonstrate correct Nurse Order verification in EHR.</li> <li>• Access the BCMA Application: <ul style="list-style-type: none"> <li>– Access the BCMA Application from the computer desktop.</li> <li>– Open the patient's medical record.</li> <li>– Access the Reports menu to print out the Medication Due List.</li> <li>– Scan the patient's wristband correctly.</li> <li>– Confirm the correct patient.</li> <li>– Resize columns.</li> <li>– Identify the relative components of the VDL.</li> <li>– Access BCMA Clinical Reminders.</li> <li>– Identify the relative components of the Cover Sheet functionality.</li> </ul> </li> <li>• Administer Medications: <ul style="list-style-type: none"> <li>– Access medication details.</li> <li>– Assess scanner status.</li> <li>– Submit a missing dose.</li> <li>– Scan medications.</li> <li>– Add a comment.</li> <li>– Chart medications as Not Given, Refused, or Held.</li> <li>– Scan a PRN medication.</li> <li>– Refresh the Due List.</li> <li>– Enter multiple orders and multiple orders of the same medication.</li> <li>– Enter early/late medications.</li> <li>– Enter multi-dose containers.</li> <li>– Enter injection site.</li> <li>– Scan an On-Call medication.</li> <li>– Enter PRN effectiveness.</li> <li>– Enter removal of patches.</li> <li>– Assess Scanning of wrong medication.</li> <li>– Print Missed Medication Report.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Administer IV &amp; IV Piggyback Medications:             <ul style="list-style-type: none"> <li>– Administer IV medications.</li> <li>– Administer IV Piggyback medications.</li> <li>– Access the BCMA Read-Only function.</li> <li>– Access the IV Piggyback Tab.</li> </ul> </li> </ul> <p>Use the Edit Med Log function.</p> <ul style="list-style-type: none"> <li>• Manage Scanning Failures:             <ul style="list-style-type: none"> <li>– Access BCMA Managing Scanning Failures</li> <li>– Unit Dose</li> <li>– IVPB</li> <li>– IV Fluids</li> <li>– Limited Access</li> </ul> </li> <li>• Use Other Features:             <ul style="list-style-type: none"> <li>Med order button All reports function</li> </ul> </li> </ul>
<b>10:00 PM</b>	<b>Adjourn</b>

**Sunday**

<b>Time</b>	<b>Topic</b>
<b>8:00 AM</b>	<p><b>BCMA Pharmacy Training (Section B-Session 2)</b></p> <p><b>Order Entry Process</b></p> <p>At the end of this session participants should be able to:</p> <ul style="list-style-type: none"> <li>• Set up BCMA Roles &amp; User Configuration</li> <li>• Break down the RPMS EHR Order Entry Process: <ul style="list-style-type: none"> <li>– Order entry via Medication Dialog</li> <li>– Order entry via Quick Orders</li> <li>– Unit Dose Orders</li> <li>– IV Orders to include IV Push, IV Piggyback, and IV Infusion</li> </ul> </li> </ul>
<b>Continued</b>	<p><b>BCMA Pharmacy Training (B-2)</b></p> <p><b>Finishing Orders</b></p> <p>At the end of this session participants should be able to Finish orders:</p> <ul style="list-style-type: none"> <li>• Administration Time</li> <li>• Start/Date Time</li> <li>• Now Orders</li> <li>• Complex Orders</li> <li>• Sliding Scale</li> <li>• Fill on Request</li> <li>• IV Label Reprint vs. New Label</li> <li>• PCA Infusion</li> <li>• Auto-cancellation</li> <li>• Order Verification</li> <li>• Pharmacist Auto-verification</li> <li>• Contingency Plan</li> <li>• Changing Dispense Drug on Verified Order</li> <li>• Provider Comments and/or Special Instructions</li> <li>• IV Push</li> <li>• IV Piggyback</li> <li>• IV Admixture</li> <li>• Hyperalimentation (TPN)</li> </ul>

<b>Continued</b>	<p><b>BCMA GUI (B-2)</b></p> <p>At the end of this session participants should be able to use the BCMA GUI:</p> <ul style="list-style-type: none"> <li>• Full vs. Read Only Access</li> <li>• Virtual Due List</li> <li>• BCMA GUI Tabs (Unit Dose, IVP/IVPB, IV)</li> <li>• Cover Sheet</li> <li>• Fractional Dose or Multiple Dose</li> <li>• Missing Dose Request</li> <li>• Medication not Displaying in BCMA</li> <li>• Unable to Scan Medication</li> <li>• Unable to Scan Patient Wristband</li> <li>• Wrong Dispensed Dose</li> <li>• User Bypassing Scanning</li> <li>• Using BCMA in Isolation Rooms</li> <li>• Run Managing Scanning Failures (MSF) Report</li> <li>• CPRS Med Order Button</li> </ul>
<b>Continued</b>	<p><b>Special Considerations (B-2)</b></p> <p>At the end of this session participants should be able to examine Special Considerations:</p> <ul style="list-style-type: none"> <li>• First Dose (TJC)</li> <li>• Variable Doses (Policy Consideration)</li> <li>• Variable Schedule (Policy Consideration)</li> <li>• Flagged Orders</li> </ul>
<b>Continued</b>	<p><b>Troubleshooting (B-2)</b></p> <p>At the end of this session participants should be able to compare and contrast troubleshooting issues:</p> <ul style="list-style-type: none"> <li>• Scanners</li> <li>• Bar Code Scan but Error Message "Drug not Found"</li> <li>• Drug File Inquiry (PSB DRUG INQUIRY)</li> <li>• Synonym Ender/Edit (PSS SYNONYM EDIT)</li> <li>• PSD Patients on Specific Drugs (PSJ PDV)</li> <li>• Bar Code Quality</li> <li>• IV Bag Labels</li> <li>• Order not Appearing on BCMA VDL</li> </ul>
<b>Continued</b>	<p><b>BCMA Reports (B-2)</b></p> <p>At the end of this session participants should be able to generate BCMA Reports:</p> <ul style="list-style-type: none"> <li>• BCMA Unable to Scan (Detailed) on BCMA GUI</li> <li>• Missing Dose Follow-up (PSB MISSING DOSE FOLLOWUP)</li> </ul> <p>Pick List Menu (PSJU PLMGR)</p>
<b>12:00 PM</b>	<b>Lunch</b>

<b>1:00 PM</b>	<b>BCMA Coordinator Training (Section C - Session 3)</b> At the end of this session participants should be able to: <ul style="list-style-type: none"><li>• Examine BCMA Parameters</li><li>• Utilize BCMA Mail Groups</li><li>• Generate MSF Reports for managing scanning failures</li><li>• Examine policies and procedures for use of Med Order Button and monitor through use of Med Order Button Reports</li></ul> Apply use of Edit Med Log – medications anyone has entered.
<b>5:00 PM</b>	<b>Supper</b>
<b>6:00 PM</b>	<b>BCMA Super User Training (Section A - Session 4)</b> See Objectives from BCMA Super User Training (A-1)
<b>10:00 PM</b>	<b>Adjourn</b>

**Monday**

Time	Topic
8:00 AM	<b>BCMA Coordinator Training (Section C - Session 5)</b> See Objectives from BCMA Coordinator Training (Session C-3)
12:00 PM	<b>Lunch</b>
	<b>BCMA Pharmacy Training (Session B - Session 6)</b> See Objectives from BCMA Pharmacy Training (Session B-2)
5:00 PM	<b>Supper</b>
6:00 PM	<b>Super User Training (Section A - Session 7)</b> See Objectives from Super User Training (Session A-1)
10:00 PM	<b>Adjourn</b>

**Tuesday**

Time	Topic
8:00 AM	<b>BCMA Super User Training (Section A - Session 8)</b> See Objectives from Super User Training (Session A-1)
12:00 PM	<b>Lunch</b>
1:00 PM	<b>BCMA Super User Training (Section A - Session 9)</b> See Objectives from BCMA Pharmacy Training (Session A-1)
5:00 PM	<b>Supper</b>
6:00 PM	<b>BCMA Pharmacy Training (Section B - Session 10)</b> See Objectives from BCMA Pharmacy Training (Session B-1)
10:00 PM	<b>Adjourn</b>

**Wednesday**

Time	Topic
8:00 AM	<b>BCMA Super User Training (Section A – Session 11)</b> See Objectives from Super User Training (Session A-1)
12:00	<b>Lunch</b>
1:00 PM	<b>BCMA Super User Training (Session A – Session 12)</b> See Objectives from Super User Training (Session A-1)
2:00 PM	<b>BCMA Go Live and Troubleshooting</b>
5:00 PM	<b>Supper</b>
10:00 PM	<b>Adjourn</b>

**Thursday**

Time	Topic
7:00 AM	<b>BCMA Go Live and Troubleshooting (continued)</b>
1:00 PM	<b>BCMA Closeout with PIMC Leadership</b>
11:00 PM	<b>Adjourn</b>

**Friday**

Time	Topic
7:00 AM	<b>BCMA Go Live and Troubleshooting (cont.)</b>
12:00 PM	<b>Lunch</b>
10:00 PM	<b>Adjourn Whenever Troubleshooting and Problem Solving are Complete.</b>

## 6.0 Biographical Sketches

**CAPT Deborah Alcorn, MSN, RN, CPC**

**EHR Deployment Specialist, IHS Office of Information Technology**

**United South and Eastern Tribes (USET) Regional Extension Center**

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 Indian Health Service. CAPT 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, Indian Health Service 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 Indian Health Service Electronic Health Record by assisting the IHS Office of Information Technology 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 CAPT. Alcorn. Deborah's knowledge and expertise in nursing has enabled her to provide assistance to Indian Health Service, 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 Office of Information Technology**

**USET Regional Extension Center**

CAPT 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, Bar Code Resource Office****U.S. Department of Veterans Affairs**

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 U.S. Department of Veterans Affairs' Bar Code Resource Office providing nursing informatics support and education to staff at the national level supporting over 150 VA medical centers. Prior to joining the Bar Code Resource Office, 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 (HIMSS), 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 Office of Information Technology**

CDR Bradley Bishop is a Commissioned Officer in the United States Public Health Service and has been in the Indian Health Service since 2001. CDR 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****Information Technology Specialist****Clinical 1 Support Team/Clinical Product Support****Product Development, Department of Veterans Affairs**

Jaci is currently working as an Information Technology Support Specialist with the Department of Veterans Affairs. 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 (ADPAC) in the Pharmacy and Business Office service line acting as the liaison between the service and 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, Department of Veterans Affairs**

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, Data Networks Corporation (DNC)**

Sean Cook is an Applications Systems Analyst with DNC and has worked on contract with the Indian Health Service 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****U.S. Department of Veterans Affairs**

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 Automated Data Processing Coordinator (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 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, Department of Veterans Affairs**

Kevin Cownie is currently an Information Technology Support Specialist with the Department of Veterans Affairs. Prior to working for the Department of Veterans Affairs 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 Department of Veterans Affairs which included seven years as Chief, Information Resource Management 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 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 HealtheVet, 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, Department of Veterans Affairs**

Kirk Fox has 22 years of service with the Department of Veterans Affairs; 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, Bar Code Resource Office****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 Information Resource Management (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 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 with NT&EO, 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, Department of Veterans Affairs**

Dale Johnson is currently an Information Technology Specialist with National Clinical Product Support, Department of Veterans Affairs. 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)****Information Technology Specialist****Clinical 1 Support Team/Clinical Product Support****Product Development, Department of Veterans Affairs**

Kim Lyttle is a registered Medical Technologist and is currently an Information Technology Support Specialist with the Department of Veterans Affairs. She has several years of experience as a Medical Technologist in the private sector. She has over 26 years of service within the Department of Veterans Affairs, 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 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****Information Technology Specialist, IHS Office of Information Technology**

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 Office of Information Technology****USET Regional Extension Center**

LCDR Carla Stearle is a Commissioned Officer in the United States Public Health Service and has been in the Indian Health Service 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 Office of Information Technology.

**CAPT (ret) David R. Taylor, MHS, RPh, PA-C, RN**  
**EHR Training and Deployment Manager, IHS Office of Information Technology**  
**USET Regional Extension Center**

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 Indian Health Service. Since 2002 David Taylor has been assigned to the Indian Health Service Office of Information Technology as a National Medical Informatics Consultant and has been charged with both training and deployment of the Meaningful Use of an Electronic Health Record 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.

**Chris Tucker, RPh**  
**Director, Bar Code Resource Office**  
**Veterans Health Administration, Office of Informatics and Analytics**  
**Health Informatics**

Chris L. Tucker, RPh, is the Director of the BCRO within the VHA OIA. His office provides strategic direction and oversight for BCMA and other bar code technology applications such as Clinical Laboratory, Anatomic Pathology, and Transfusion Verification. He received his pharmacy degree from Kansas University in 1979 and a Masters Certificate in Project Management from George Washington University's School of Business and Public Management in 2003.

Mr. Tucker has been an Industry Adviser in the Prescription for Change Series, First Do No Harm for the Clinical Initiatives Center of the Advisory Board Company, Washington, DC. He was a member of the Executive Council for the Patient Safety Reporting System administered by the National Aeronautics and Space Administration Ames Research Center from 2003 through 2009. Mr. Tucker co-chaired the Product Identification (GTIN) Workgroup for GS-1 US Healthcare from 2008 through 2012 working together with healthcare leaders to adopt and use standards that will help organizations share data, promote accuracy, and work more efficiently to improve patient safety and lower healthcare costs through healthcare track and trace technology standardization.

He has been involved in software development and performance management for medication administration bar coding since 1994, assisting in the development of the BCMA prototype software at the Topeka VA Medical Center. BCMA has received two National Performance Review Awards from then Vice-President Al Gore. Mr. Tucker was a USA Today - RIT Quality Cup Finalist in 2000, and received the HIMSS Article of the Year Award in 2002. His Office has received a Way Paver Award from the UnSummit in 2006 and a Cheers Award from the Institute of Safe Medication Practices in 2009. Mr. Tucker's has authored the following publications concerning the use of point of care medication administration technology:

- "Using BCMA Software to improve Patient Safety in Veterans Administration Medical Centers." *Journal of Healthcare Information Management*, vol 16, No.1,pg 46-51
- "VA pursues Bar Code Quality." *American Journal of Health-System Pharmacists*, July 2004
- "Using Point of Care to Reduce Medication Errors." *Understanding Health Communications Technologies*, edited by Michigan State University's Institute of Health Care Studies in collaboration with Kansas University Medical School's Health and Technology Outreach. Josey-Bass Publishers, September 2004
- "The VA's Multidisciplinary Approach to Bar Coded Medication Administration Implementation." *Pharmacy Purchasing and Products*, May 2009, vol 6, no.5
- "Quality-monitoring Program for Bar-Code-Assisted Medication Administration." *American Journal of Health System Pharmacy*, June 2009, Vol. 66

### **Catherine Whaley, PMP (Contractor)**

#### **EHR and BCMA Project Manager**

Catherine Whaley is a Data Networks Corporation 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****Veterans Health Administration**

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 Bar Code Medication Administration, Bar Code Expansion, 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.

## Acronym List

<b>ADPAC</b>	Automated Data Processing Application Coordinator
<b>ADT</b>	Admission, Discharge, and Transfer
<b>BCE-PPI</b>	Bar Code Expansion-Positive Patient Identification
<b>BCMA</b>	Bar Code Medication Administration
<b>BCRO</b>	Bar Code Resource Office
<b>CAH</b>	Critical Access Hospital
<b>CIHA</b>	Cherokee Indian Hospital Authority
<b>CIMTAC</b>	Clinicians' Information Management Technology Advisory Council
<b>CMS</b>	Centers for Medicare and Medicaid Services
<b>CNHSA</b>	Choctaw Nation Health Services Authority
<b>CNMC</b>	Chickasaw Nation Medical Center
<b>DNC</b>	Data Networks Corporation
<b>EES</b>	Employee Education System
<b>EHR</b>	Electronic Health Record
<b>eMAR</b>	electronic Medication Administration Record
<b>EP</b>	Eligible Professional
<b>HIMSS</b>	Health Information Management Systems Society
<b>IHS</b>	Indian Health Service
<b>IRM</b>	Information Resource Management
<b>MAH</b>	Medication Administration History

<b>MSF</b>	Managing Scanning Failures
<b>MU</b>	Meaningful Use
<b>OIA</b>	Office of Informatics and Analytics
<b>OIT</b>	Office of Information Technology
<b>PIMC</b>	Phoenix Indian Medical Center
<b>PRF</b>	Patient Record Flag
<b>RPMS</b>	Resource and Patient Management System
<b>SQA</b>	Software Quality Assurance
<b>USET</b>	United South and Eastern Tribes
<b>VA</b>	Department of Veterans Affairs
<b>VAMHCS</b>	VA Maryland Health Care System
<b>VDL</b>	Virtual Due List
<b>VHA</b>	Veterans Health Administration