

## 2015 Defense Health Information Technology Symposium

# Advancing Technology: Enhancing the Current EHR



*“Medically Ready Force...Ready Medical Force”*

**“A joint, integrated, premier system of health, supporting those who serve in the defense of our country.”**



***“Medically Ready Force...Ready Medical Force”***

# Solution Delivery Division



- **Mission:**

Deliver information technology solutions to the Military Health System through expert acquisition program management, process reengineering, training and integration activities in order to support and advance the delivery of health care to our patients.

- **Vision:**

To become the world class leader in health information technology solutions and integration.



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# Learning Objectives



- Introduce users to AHLTA Web Print (AWP) and its role in the Service Treatment Record Process
- Identify ongoing efforts within the Military's EHR to improve the user experience with Tier 1 Error reductions, and bug fixes delivered in Client Files 5 and 6
- Describe new CHCS capabilities that improve the care of Wounded Warriors, Service Members, and their families through ePrescribing (eRX) and Defense Financial Accounting System (DFAS)

# Agenda



- EHR Core Program
- AHLTA
- AHLTA Web Print
- CHCS
- DFAS
- e-Prescribe

# EHR Core Suite of IT Applications and Systems



- **AHLTA 3.3** – Documents Outpatient Care
- **Composite Health Care System (CHCS)** – Manages laboratory, radiology, and pharmacy orders
- **AHLTA Web Print (AWP)** – Allows for printing an entire AHLTA medical record
- **Defense Finance & Accounting Service (DFAS)** - Assists with benefit determination process for injured service members
- **Essentris®** - Documents inpatient care
- **ePrescribe** - Allows civilian providers to electronically transmit prescriptions to MTF pharmacies
- **EBMS** – Provides the ability to globally document and track Transfusion and Donor services

# AHLTA Overview



- AHLTA is one of the world's largest clinical information systems, providing secure 24/7 access to beneficiaries' medical records worldwide
  - Includes records of all health care services rendered, and medical exams including mental health assessments
- Gives providers quick access to information in other Military Health System (MHS) applications such as AHLTA Web Print, HAIMS, and the Virtual Lifetime Electronic Record (VLER)

# AHLTA 3.3.8 – Client Releases

## Client Files 5, 6.1, 7, and 8



- In FY15 AHLTA released three (3) Client Files for the AHLTA 3.3.8 baseline
  - 62 Field-reported tickets were resolved including:
    - 3 Patient Safety
    - 5 Tier 1 errors to improve performance and user experience
    - 6 International Classification of Disease version 10 (ICD-10) issues found during proactive testing
    - 2 Common Access Card (CAC) issues for the Application Virtualization Hosting Environment (AVHE) platform (Client File 7 only)
  
- Targeting release in 1Q FY16
  - Client File 8 – will include Allergy Sync fixes, and will resolve 5 field-reported tickets

# EHR Core Enhancements in Development



In FY16 EHR Core will release updates for Allergy Sync and Drug Allergy Module (DAM) 4.0

- **Allergy Sync:** Provides real-time synchronization of specified patient allergy data between CHCS, Essentris® and AHLTA
  - Addition of new allergy-related fields in CHCS and AHLTA
  - Allergies deleted in CHCS will no longer be overwritten by AHLTA
  
- **DAM 4.0:** Upgrade AHLTA to support the First Data Bank (FDB) DAM 4.0

# AHLTA Enhancements in Development

(FY 16 Cont'd)



- Replace the current Centers for Disease Control (CDC) growth charts for infants and children less than 2 years with the World Health Organization (WHO) growth charts
- Modifications to the existing Personnel Reliability Program (PRP) notification process
- Expanded SIG code is updated to display a leading zero for decimal fractions to comply with Joint Commission recommendations
- Add Government ID to lab labels to assist with positive patient identification
- Replace Polar Spell Check with RapidSpell, which contains a 280,000 word dictionary

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# Future AHLTA Enhancements



- In FY17 AHLTA will implement
  - ❑ Unsigned Encounters will be made visible in AHLTA’s “Previous Encounters” module across the enterprise
  
  - ❑ Enterprise List of AHLTA Patient Flags for special requirements

# AHLTA Web Print Overview



- Web based application for printing a patient's entire AHLTA medical record, or a subset of that medical record
  - ❑ Access is through the AHLTA Folder Tree
  - ❑ Users can narrow the contents by date range or clinical domain
  - ❑ Users can print a hard copy record, or print to PDF
  
- User access is managed by the Service Representatives and controlled by the assignment of an enterprise level key

# AHLTA Web Print Benefits



- Print a patient's entire medical record without having to search through multiple AHLTA modules and print each clinical domain separately
- The Patient Administration Department (PAD) office uses AWP and Health Artifact and Image Management (HAIMS) to create Service Treatment Records (STR) for upload to the Veterans Benefit Management System (VBMS)
- The Social Security Administration (SSA) uses AWP to validate disability claims filed by MHS beneficiaries

# AHLTA Web Print Enhancements



- AHLTA Web Print 1.0.0.9 was released in 1Q FY15
  - Included improved error handling capabilities to prevent printing errors caused by data exception errors
    - Reduced overall print failures by 50%
    - Helps the Services to successfully meet their STR processing goals
  
- AHLTA Web Print 2.0 is targeting release in 2Q FY16
  - Consolidate 101 servers down to 4 central servers located at DISA
  - Introduce multi-threading capability to reduce report generation wait times
  - Database table redesign for faster updates
  - Improved Computer Based Training (CBT) video and training materials

- Is the MHS original Computer-based Provider Order Entry (CPOE) system, and it serves as the core medical information system for the DoD
- Enables DoD providers to electronically order laboratory tests, retrieve test results, authorize radiology procedures, and prescribe medications with drug interaction checks

## Key Features and Benefits

- ❑ Supports multiple health care administrative activities, including patient administration, scheduling, medical service accounting, medical billing, and workload assignments
- ❑ Provides ancillary and business functions for 103 host CHCS sites supporting 500 hospitals and clinics
- ❑ Supports more than 50 MHS interfaces

# CHCS – DFAS Interface Overview

The Defense Finance & Accounting Service (DFAS) Interface provides a mechanism to ensure essential information transfers to DFAS to assist with the benefit determination process for the wounded, ill, and injured patient community returning from Theater for Garrison medical treatment.



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# CHCS – DFAS Interface Benefits



- Allows accurate and appropriate benefits, payments and compensation determination for ill or injured Service members returning to CONUS and being admitted, transferred or discharged at Garrison MTFs
- Streamlines financial compensation and termination of compensation for wounded warriors coded as battle casualties

# e-Prescribing: Overview



- e-Prescribe (eRx) allows civilian providers to electronically transmit prescriptions to MTF pharmacies for prescription processing and dispensing
  - CHCS modification to establish inbound interface for routing electronic prescriptions from the Pharmacy Data Transaction Service (PDTS) to CHCS
- Aligns MHS with the Centers for Medicare & Medicaid Services (CMS) e-Prescribing Meaningful Use Requirement
  - Addresses the growing number of civilian providers who utilize electronic prescribing as their only means of generating a prescription

# e-Prescribing: Benefits



- Increases patient safety through the reduction of translation and transcription errors due to illegible handwritten prescriptions
- Reduces fraud and abuse through reduced reliance on paper prescription pads
- Increases efficiency of prescribing and dispensing processes through electronic prescription transfer to pharmacy, eliminating the need for paper prescription drop-off
- Offers pharmacy staff the option to address prescription warnings and coordinate non-formulary drugs before the patient arrives at the pharmacy

# e-Prescribing: Future Enhancement



- Addition of Controlled Substances via e-Prescribe
  - Brings the MHS Pharmacy System into compliance with the Drug Enforcement Administration (DEA) Electronic Prescriptions for Controlled Substances (EPCS) requirements
  
  - The MHS Pharmacy system will have the capability to receive electronic prescription orders for controlled substances from civilian providers to be processed and dispensed by MTF Pharmacies

Please complete your evaluations

# Contact Information



COL Michael Greenly  
EHR Core Program Manager  
[michael.w.greenly.mil@mail.mil](mailto:michael.w.greenly.mil@mail.mil)

# Questions?



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# Back Up Slides

# System Change Requests



- All changes to AHLTA and CHCS must go through the System Change Request (SCR) Process
  - ❑ Requests are evaluated and voted on by the Functional Community
  - ❑ Functional and Design Requirements are created
  - ❑ Funding and contract vehicles are identified
  
- All forms and instructions for submitting an SCR can be found at the following link:  
<https://info.health.mil/hco/clinicsup/cim/cim/IMRL/SitePages/Requirements%20Process.aspx>