Agenda

- Mission
- Continuum of Care
- Electronic Health Records
- Focus Areas for Improvement
- Potential Value of Structured Data
- Virtual Lifetime Electronic Record
- Wrap Up
Mission

Provide the right information to the right customers at the right time to improve and maintain the health status of our beneficiaries across the entire continuum of health care operations.
Healthcare Is Local… Information Is Global
Electronic Health Records

Problem

Solution
## Current Electronic Health Record

**Family of Systems**

### DoD Electronic Health Record

Available to authorized users

<table>
<thead>
<tr>
<th>Garrison Outpatient Documentation</th>
<th>Theater Documentation</th>
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<tbody>
<tr>
<td>More than 135 Million outpatient clinical encounters captured electronically</td>
<td>More than 3 Million outpatient clinical encounters captured electronically</td>
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<td>Deployed at 30 sites, covering 67% of DoD’s inpatient beds</td>
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Focus Areas for Improvement

- Speed
- Reliability
- Usability
- Efficiency
- Interoperability
- Capability speed-to-market
- Health record completeness
Speed and Reliability

1. AHLTA (Desktop) - “Last Mile”
2. CHCS Server
3. AHLTA Local Cache Server (LCS)
4. Network (DISA)
5. Clinical Data Repository (CDR)

Base Entry Point

Montgomery, Alabama
Usability and Efficiency

Single Sign-On and Context Management
- Users log in once and have access to multiple systems
- Select a patient once and active clinical applications display patient’s data

Graphical User Interface
Interoperability and Capability Speed-to-Market

A flexible, modular backbone will improve interoperability, enabling faster delivery of needed information and capabilities as identified within the Functional Community.
More Complete Patient Records

• Current records include core clinical data for patient care
• Functional Community identifying additional data types needed
• Improved architecture and infrastructure can enable plug-and-play
• Images and artifacts will be among the first data types added

Global visibility of images and scanned or attached artifacts
Structured Data Collected Once, Used Many Times

Collected Once

Structured Data Repository

Stored Centrally

- Beneficiary Self-Care Management
  - Personal Health Record

Available Globally

- Provider Care
  - Patient Record, Safety Alerts, Best Practice Reminders

- Business Decisions
  - Health System Management

- Research
  - Clinical Practice Guidelines

- Command and Control
  - Health Surveillance

- Billing Processes
  - Coding, 3rd-Party Collections

Patient Visit (Point of Care)

Standardized, Computable Data
# External Interoperability

## Problem

More than 60% of care in the Military Health System is purchased from civilian sources, yet......

Only 8% of hospitals have basic electronic medical systems, and...

Only 17% of physicians use electronic records

## Solution

Develop a Virtual Lifetime Electronic Record (VLER) for beneficiaries by leveraging current efforts led by the Department of Health and Human Services
Virtual Lifetime Electronic Record and the Nationwide Health Information Network
Questions?