

MHS GENESIS -

Transforming the Military Health System

Major General Lee Payne, USAF, MC, CFS MHS Functional Champion















Disclosures



Presenter has no interest to disclose

History of DoD EHRs



1979

In 1979, the Department of Defense started its journey toward electronic health care documentation with computerized physician order entry which allowed physicians to record prescribed medications and view alerts for drug allergies or adverse interactions.



1988 - 1992

The Composite Health Care System development began in 1988. The Department of Defense's initial health record system made the technological leap from paper to electronic order entry. It also focused on delivering a military treatment facility-centric electronic health record that supported computerized physician order entry and integrated outpatient ancillary services. CHCS worlwide deployment began in 1992.



Forces Driving Transformation





Readiness Focus

MHS GENESIS A Tool for Transformation



- Enhancing Patient Safety & Quality
- Reducing Unwanted Variation
- Creating True High Reliability
- Standardize our Processes ——
- Enhancing Readiness
- Better System Performance

"Automotive industry ...
minimal variation yet high
quality. It's a paradox ...
rigorous adherence to
standards unlocks
innovation and creativity."

DEPSECDEF Shanahan Nov 2018

MHS GENESIS can be a lever for the larger MHS Transformation

What Does MHS GENESIS Bring?



- Inpatient/Outpatient/Dental/Portal Integration
- Barcode Blood/Medication Administration Safety!
- Highly Configurable System Avoids Customization
- Robust Civilian Healthcare Data Exchange
- Regular System Updates As Enhancements Added
- Secure Patient Data DoD-level Cybersecurity
- Modernized data analytics to improve point of care clinical decision support & enterprise decision making

What We Learned @ IOC



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Technical Readiness

- Ensure close coordination between DISA, J6, and the DHMSM PMO to get <u>MED-COI</u> deployed, tested, and ready for the site
- Resolve Medical Device Connections/ATO's

Change Management

- Study user role assignments and permissions at the enterprise level
- Communicate workflows, bridging knowledge gaps from old to new processes, early in the transition
- Maintain continuous leadership communication and buy-in



Training Methodology

- Improve the training approach and content, and tie it more closely to workflows
- Improve subject matter expertise across the enterprise on MHS GENESIS



System Management

- DHA team to Support/Improve
- Prioritize issues (safety, readiness) and sort by Solution Owner (technical, functional)
- Communicate to end users

Pay It Forward



- IOC Sites helped map system configuration for future waves
- IOC Sites Transferred Knowledge and Experience to Wave Travis
 - Exchange of Staff Before/During/After Go-Live
 - Phone a Friend
- IOC Sites hosted our team for a series of Sprint Sessions

What We Learned @ Wave Travis





Technical Readiness

- Ensuring sites know where to properly place hardware
- Configuring specialized equipment (workflow enablers, specialized workstations, CCEs)

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Change Management

- Internal governance structure at MTFs streamlined how issues are reported and resolved
- Development of a resources guide for MTF Commanders



Training Methodology

- Instructor Led Training (ILT)
 variances between the train
 domain and the production
 domain
- Computer Based Training (CBT)
 needs to be further optimized to
 work more quickly



System Management

- Address the timely execution, quality, and lack of key functions for User Role Assignments
- Dentrix scalability

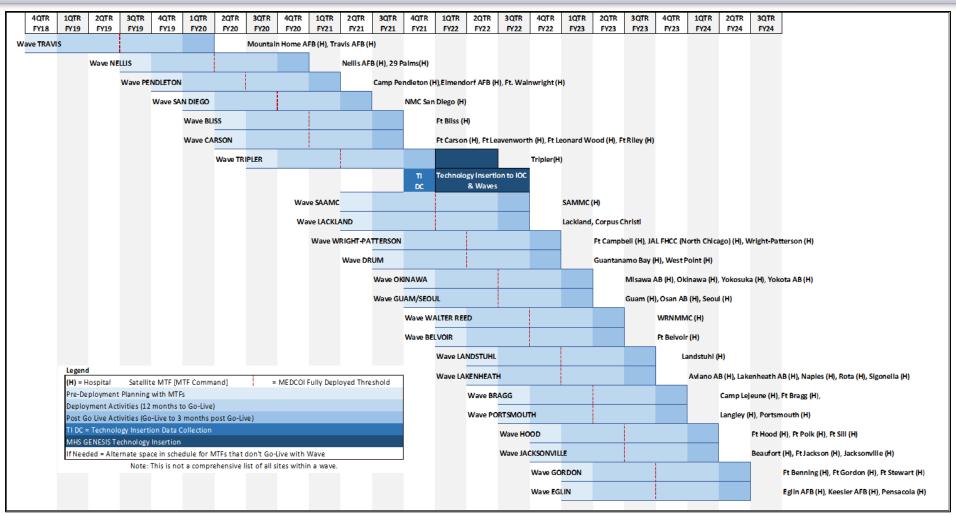
Planning and Preparation for Wave Nellis (Oct 2019)



		Status Across Wave NELLIS Sites									
	Site Readiness Criteria	Ft Irwin	29 Palms	Beale	Edwards	Nellis	Los Angeles	Vandenberg	Fallon	Port Hueneme	1 st Dental
Infrastructure	Network Deployment										
	Medical Device Deployment										•
	Hardware Deployment										
MGMT	Local Management and Communication										
	Resourcing of Implementation Roles	-				-	-				
S	Technical Workflow Analysis										
adines	Implementation Training (Jan 2020)										
User Readiness	Competency / Workflow Assessment (May 2020)										
	Post Go-Live Support and Sustainment										
Usability	Data Collection Workbook (DCW) (including cutover)										
Usal	Go-Live Manpower Requirements Resourced										

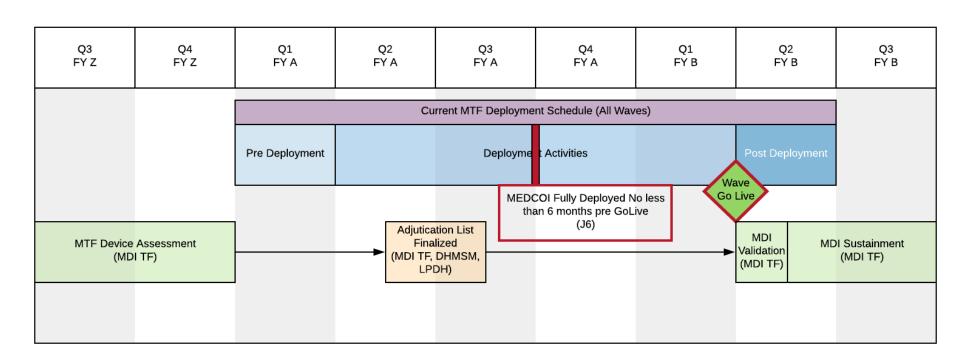
Simultaneous MHS GENEIS Activity





Medical Device Integration and Network improvements





DoD/VA Leading the Way for 20M Americans



- Close Collaboration between DoD and VA
 - Acquisition Strategy
 - Business Processes
 - Clinical Workflow
 - Including: Departments agreeing to follow the same clinical practice guidelines (such as breast cancer screening, colon cancer and echocardiograms for heart failure patients)
- We will change U.S. medicine
 - Quality, Safety, Efficacy: We've already shortened the time Cerner Updates Immunizations Changes from ACIP/CDC
 - Cybersecurity
 - Research Opportunities

HealtheIntent

Population Health Management



HealtheRegistries

- · Manage Gaps in Cares and HCCs
- Increase Quality Outcomes
- · Physician and Practice Scorecards
- Custom and Standard Registries and measures
- · Point of Care Tool

HealtheAnalytics

- · Network Analysis, Post Acute and Quality Dashboard
- Contract and Financial Contract Scorecard
- Claims and Enrollment Reporting
- Tableau Dashboards and BO Reports
- Custom Algorithms

- Risk Score
- Reporting
- Care Gaps
- Longitudinal Record
- Single Data Platform

HealtheCare

- Candidate Identification and Stratification
- Custom Algorithms
- Manage Case Lifecycle
- Document Assessment
- Document Conversations
- · Communication with Providers
- Integration with EMR Measure Productivity

HealtheIntent Record

(aggregation and normalization of patient data)

MHS GENESIS RevCycle

The Business of Health Care Delivery



RevX – A clinically-driven revenue cycle

- Enhanced patient identification process
- Other health insurance discovery
- Integrated coding capabilities with auto-suggested coding
- Claims scrubbing and clearinghouse functionality
- Patient statement generation

Supports

- Enterprise-wide standardization
- Itemized financial accounting at the patient-level
- Third party and inter-agency billing
- DoD and VA beneficiary access and healthcare management

What to expect...



- Focus on Patient Safety & Quality
- Change Technology
- Change Workflow
- Learning Curve
- Adoption Barriers
- Unexpected Challenges

Vision for the Future







Questions