Operationalizing MHS GENESIS

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Disclosures

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Learning Outcomes

At the conclusion of this activity, participants will be able to:

1. Relate to MHS GENESIS and its related solution areas
2. Recognize the value added from incorporating a user-focused EHR
3. Summarize the benefits of MHS GENESIS from a user perspective

- Review the MHS and DHA leverage governmental, academic, and civilian partnerships to deliver improved readiness, health, and value from “lessons learned” from NDAA 17/19 organizational transition activities as MHS is prioritizing value in all of its initiatives to ensure that every dollar is spent effectively to deliver better health and better care and how the DHA strategy directly supports the MHS Goal of Measuring and Improving Health Outcomes of the Population We Serve

- Describe the difficulties facing the MHS and how MHS GENESIS is addressing these problems, Identify how MHS GENESIS is improving the MHS, examine the implications of an Electronic Health Record (EHR) for MTF providers and commanders, recognize the utility in analyzing patient data to improve care.

- Explain how the DHA Research and Development supports the mission of providing a medically ready force and a ready medical force, and provide an overview of funding streams and an understanding the importance of collaboration, educational partnerships, and the DHA's innovation group
## Agenda

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### Clinical

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<tr>
<th>Functional Area</th>
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<th>High Level Description</th>
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<tr>
<td>Acute Care</td>
<td>PowerChart Inpatient</td>
<td>Supports enterprise-wide viewing of Clinical information for Electronic Medical Record / Clinical Data Repository, Order Management, and Document Management</td>
</tr>
<tr>
<td>Ambulatory Care</td>
<td>PowerChart Ambulatory</td>
<td>PowerChart Ambulatory is comprised of viewing of Clinical information in the Ambulatory setting. This includes documentation for physicians, orders, and billing in the Ambulatory settings.</td>
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<tr>
<td>Emergency Care</td>
<td>FirstNet</td>
<td>Automates functions performed in the ED – triage, tracking, orders and documentation. PowerNote ED is the physician documentation component.</td>
</tr>
<tr>
<td>Perioperative</td>
<td>SurgiNet</td>
<td>Provides automation for the following major functions: staff assignment, schedule access, pre-anesthesia documentation, remote monitoring and Management Reporting. Provides point-of-care surgical information system that automates, organizes, and streamlines workflow including pre-op, intra-op, (excluding Anesthesia), and PACU recovery.</td>
</tr>
<tr>
<td>Patient Portal</td>
<td>MHS Genesis Patient Portal</td>
<td>A patient portal enables a patient to interact with their healthcare providers over a secure internet connection. Some functionality of a patient portal includes scheduling appointments, registering the patient in the system, requesting prescription refills, view results and images, and pay accounts.</td>
</tr>
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</table>
MHS GENESIS utilizes modules such as workflow MPages and PowerForms, which align directly with provider workflows.

This increases efficiency in viewing and creating documentation, as well as ordering.

Quick Orders allows providers to rapidly select orders that are frequently used in an inpatient setting without having to search for them.
Ambulatory Care (PowerChart Ambulatory)

• In the Ambulatory Provider workflow, the provider can scroll down through the MPage and review/document information in the appropriate order of a standard clinic visit workflow

• Auto Texts allow providers to quickly pull in information from parts of the patient record
FirstNet is the dedicated module in MHS GENESIS for providing Emergency and Urgent care.

- Interactive tracking board for high-level awareness of events in the Emergency Department
- Labs, Rads, and clinical event statuses are visible to the user through standardized icons and allow for single click results review and ordering

Documentation is coordinated from intake/triage to patient discharge that includes a visit summary and patient education material.
- SAAnesthesia and Perioperative Documentation allow for all Anesthesia and Perioperative Nursing documentation to flow into the patient’s chart.
- This improves communication to the entire care team of important perioperative medications and event.
Patient Portal

MHS GENESIS Patient Portal allows health information access and communication tools

- Viewing clinical notes from medical visits to include:
  - Lab / test results
  - Radiology reports
- Secure messaging with healthcare team
- Requesting prescription renewals
- Scheduling appointments
- Looking up information on health concerns, medications

https://patientportal.mhsgenesis.health.mil
ANCILLARY
### Ancillary

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<tr>
<td>Laboratory and Anatomic Pathology</td>
<td>PathNet</td>
<td>Provides a fully-automated, closed-loop workflow that simplifies the processes of laboratory including: specimen tracking, patient and management reporting, data and user security, and quality assurance functions.</td>
</tr>
<tr>
<td>Pharmacy/Medication Management</td>
<td>PharmNet</td>
<td>Provides access to information from the time of medication ordering through administration. It allows for tracking of medication throughout a patients inpatient and outpatient encounters.</td>
</tr>
<tr>
<td>Radiology</td>
<td>RadNet</td>
<td>Manages and automates the workflow and operation of a Radiology Department.</td>
</tr>
<tr>
<td>Health Information Exchange</td>
<td>Health Information Exchange</td>
<td>Offers a network that focuses on the secure exchange of critical patient summaries within the clinician’s workflow via a suite of open source solutions.</td>
</tr>
<tr>
<td>Dental</td>
<td>Dentrix</td>
<td>One-stop-shop dental solution that allows for quick access to the medical record and integration of other non-MHS GENESIS products, such as JLV and PACS systems. Dental clinic notes are also synced and visible to medical providers in PowerChart.</td>
</tr>
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MHS GENESIS utilizes PathNet modules to automate clinical functions across the spectrum of laboratory operations.

- Chemistry
- Hematology
- Coagulation
- Blood Bank Transfusion
- Helix (Genetics and Molecular Diagnostics)
- Urinalysis
- Immunology / Serology
- Toxicology
- Microbiology

**Note:** These orders are from two different encounters and locations, but they are conveniently grouped together.
Pharmacy/Medication Management (PharmNet)

- Provides access to information from the time of medication ordering through administration
- Tracks medication throughout a patient's inpatient and outpatient encounters
- Major Benefit: A closed-loop, integrated medication process. The majority of medication ordering is bi-directional; medication orders can be entered, reviewed, modified, and d/c'ed from the CPOE platform or PharmNet. Cannot overstate the benefits of having every clinician utilize the same database!
Radiology (RadNet)

- Allows management and automation of workflows and general operation of a Radiology Department
- Major benefit of solution is ability to view films without leaving the workflow or system
Radiology (RadNet): Upcoming Features
Health Information Exchange

- Provides a network that focuses on the secure exchange of critical patient summaries within the clinician’s workflow via a suite of open source solutions.
Dentrix Enterprise

MHS GENESIS utilizes Dentrix Enterprise (DXE) as the all-in-one dental solution. DXE not only allows quick access to the medical record, but also allows the integration of other non-MHS GENESIS products such as JLV and PACS systems. Additionally, dental clinical notes are now synced and visible to medical providers in PowerChart.

Dental Capabilities include:

- Appointment Book
- Dental Record/Notes
- Ledger f/3rd party claims
- Periodontal Probing
- Treatment Planner
- Odontogram
- Integration with Millennium
- Integration with X-ray PACS
- Updates Dental Readiness Class
REVENUE CYCLE
### Revenue Cycle

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<td>Scheduling &amp; Appointing</td>
<td>RevCycle</td>
<td>Appointment and resource scheduling for the enterprise or department. (Front Office tool).</td>
</tr>
<tr>
<td>Patient Registration</td>
<td>RevCycle</td>
<td>Registration process including – Admission, Discharge, Transfer, Pre-Admission.</td>
</tr>
<tr>
<td>Health Information Management</td>
<td>PowerChart/RevCycle</td>
<td>Software that supports patient data management, report transcriptions, chart requests / release of information, document completion / deficiency management. (Middle Office tool).</td>
</tr>
<tr>
<td>Coding and Billing</td>
<td>RevCycle</td>
<td>Module that draws charge data from clinical process to generate claims, invoices, and statements; provides the financial office with ability to view, manage, and assess patient accounts. (Back Office tool).</td>
</tr>
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</table>
Scheduling and Appointing (RevCycle)

• New GUI based interface allows for seamless appointment and resource scheduling for the enterprise or department
Patient Registration (RevCycle)

- Covers the whole patient registration process including Admission, Discharge, Transfer, and Pre-Admission
Health Information Management (PowerChart/RevCycle)

- Enables patient data management, report transcriptions, chart requests/release of information, and document completion/deficiency management
Coding and Billing (RevCycle)

- Module that draws charge data from clinical process to generate claims, invoices, and statements; provides the financial office with ability to view, manage, and assess patient accounts
- Future Coding and Billing Solution will be Cerner Patient Accounting Module (CPAM)
MANAGEMENT TOOLS
### Management Tools

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<td>System Analytics</td>
<td>Lights-On &amp; Cerner Advance</td>
<td>Lights On Network and Cerner Advance are two cloud-based analytical platforms that utilize enterprise-level data to improve system operations, and end-user experiences.</td>
</tr>
<tr>
<td>Data Reporting</td>
<td>Discern Reporting Portal</td>
<td>Discern Reporting Portal is a front end user tool intended for use by directors, managers, and supervisor level personnel to create reports they can use to inform their daily activities.</td>
</tr>
<tr>
<td>Population Health</td>
<td>PowerInsight (Current) Healtlntent (Future)</td>
<td>A cloud based, programmable population health management platform that is vendor-agnostic. The platform enables health care systems to aggregate, transform and reconcile data across the continuum of care, creating a longitudinal health record. Allows for scaling at a population level while facilitating health and care at a person and provider level</td>
</tr>
<tr>
<td>Staffing</td>
<td>Cerner Clairvia</td>
<td>A comprehensive demand management solution for healthcare staffing that includes web based dashboards for key stakeholders and data integration.</td>
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Lights On Network /Cerner Advance

- Cloud-based analytical platforms
- Utilize enterprise-level data to improve system operations, and end-user experiences
Discern Analytics Portal

- The MTF Information Portal is a dashboard created in the Discern Reporting Portal that allows MTF Commanders to quickly access productivity and commonly followed metrics for their respective commands.
PowerInsight/HealtheIntent

- Reporting and analysis tool that allows users to access data from Cerner Millennium
- Data can be presented in reports with simple tables or documents with drillable charts. Supports visual analytics
- Reports can be pushed to a web site for viewing by an entire clinical community and scheduled to execute off hours or at set intervals
- Cerner HealtheIntent is a cloud-based, programmable population health management platform that is vendor-agnostic
Clairvia

- Comprehensive demand management solution for healthcare staffing
- Includes web based dashboards for key stakeholders and data integration
- Major Benefit: Leverages outcomes, interventions, and observations to create a custom workload calculation based on each patient’s acuity level
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