Chris Ferguson RN, B.Sc.N, Vice President-Patient Care Services;
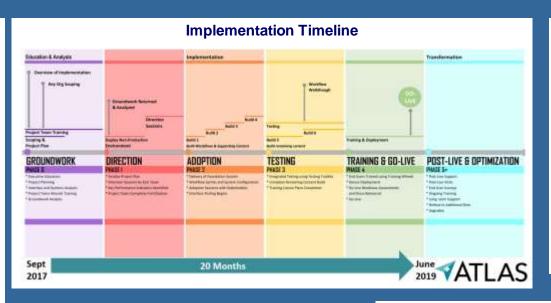
Scope of the EPIC EHR

Clinical Documentation

- Full provider and clinical documentation for inpatient, outpatient departments, including OR, Oncology, Dialysis and Emergency.
- Computerized Physician Order Entry, including blood tests, medications, therapy plans, order sets, ADT orders, etc.

Interfaces and Integrations

- Interfaces to ADUs, vital signs machines, bedside monitors, POC glucometres and urinalysis machines, as well as PACS, WTIS, etc..
- Integrations to Dialysis, anesthesia machines.

Implementation Timeline

Sept 2017 — 20 Months — June 2019 — ATLAS

Key System Feedback Loops

- BCMA – eMAR with Barcoded Medication Administration
- BPAM – Blood Product Administration Module
- Closed Loop Blood Collection (for nurses)
- BPAs – Best Practice Advisories (including med interactions, allergies, etc.)
- BPMH to AMR to DMR

HIS Benefits Framework

Patient Experience	Staff Experience	Better Value	Population Health
• Improved patient engagement • Reduced order turnaround time • Reduced adverse drug event incidence • Improved compliance with preventive care	• Improved access to healthcare data • Improved staff and physician productivity	• Reduced duplicate and unnecessary tests • Modernized IS/IT Infrastructure • Reduced costs of managing paper • Improved charge capture • Reduced hospital length of stay • Reduced drug utilization and costs	• Improved ability to manage patient populations • Improved research workflow

Benefits & Accolades

HIMSS Analytics EMRAM
EMR Adoption Model Cumulative Capabilities

STAGE	
7	Complete EMR; External HIE; Data Analytics, Governance, Disaster Recovery, Privacy and Security
6	Technology Enabled Medication, Blood Products, and Human Milk Administration; Risk Reporting; Full CDS
5	Physician documentation using structured templates; Intrusion/Device Protection
4	CPOE with CDS; Nursing and Allied Health Documentation; Basic Business Continuity
3	Nursing and Allied Health Documentation; eMAR; Role-Based Security
2	CDR; Internal Interoperability; Basic Security
1	Ancillaries - Laboratory, Pharmacy, and Radiology/Cardiology Information systems; PACS; Digital non-DICOM image management
0	All three ancillaries not installed

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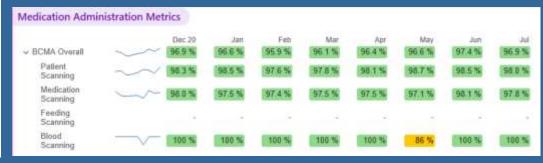
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EPICIMPLEMENTATION TIMELINE

Medication Administration Metrics

	Dec 20	Jan	Feb	Mar	Apr	May	Jun	Jul
BCMA Overall	96.9 %	96.6 %	95.9 %	96.1 %	96.4 %	96.6 %	97.4 %	96.9 %
Patient Scanning	98.3 %	98.5 %	97.6 %	97.8 %	98.1 %	98.7 %	98.5 %	98.0 %
Medication Scanning	98.0 %	97.5 %	97.4 %	97.5 %	97.5 %	97.1 %	98.1 %	97.8 %
Feeding Scanning								
Blood Scanning	100 %	100 %	100 %	100 %	100 %	86 %	100 %	100 %

Key System Feedback Loops

- **BCMA** – eMAR with Barcoded Medication Administration (scan patient, scan medication, confirm 8 rights of med admin)
- **BPAM** – Blood Product Administration Module (blood product dispensed matches to patient)
- **Closed Loop Blood Collection** (nurse scans patient, scan blood label)
- **BPAs** – Best Practice Advisories (including medication interactions, allergies, etc.)
- **BPMH → AMR → DMR** system follow-through

HIS Benefits Framework

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HIMSS Accolades – EMRAM 6 & O-EMRAM 6

Stage	HIMSS Analytics EMRAM – EMR Adoption Model Cumulative Capabilities
7	Complete EMR; Data Analytics, Governance, Disaster Recovery, Privacy & Security
6	Technology Enabled Medication, Blood Products, Risk Reporting, Full CDS
5	Physician documentation using structured templates; Intrusion/Device Protection
4	CPOE with CDS; Nursing and Allied Health Documentation; Basic Business Continuity
3	eMAR; Role-Based Security
2 - 0	CDR, Ancillaries –Laboratory, Pharmacy, Radiology/Cardiology systems, PACS