ROI from Data-Driven Clinical Optimization



\$20 BILLION

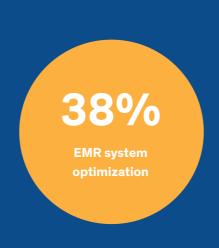
Healthcare Organizations expenditure on the adoption of Electronic Medical Record (EMR) Systems from 2008 - 2016 1

Ithough the 2009 American Recovery and Reinvestment Act gave health systems a financial incentive to achieve Meaningful Use of EMRs, many healthcare organizations have struggled to capture value. As the capabilities and sophistication of EMRs continue to grow, there is a widening divide between healthcare organizations that harness the capabilities for a competitive advantage and those that are crippled by poor usability, workflows and adoption.

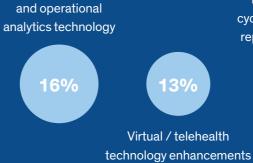
EMR ADOPTION (BASIC VS. CERTIFIED)² Basic EMR Certified EMR 2010 2011 2012 2013 2014 2015

CAPITAL INVESTMENT PRIORITIES OVER NEXT 3 YEARS

Consumer, clinical





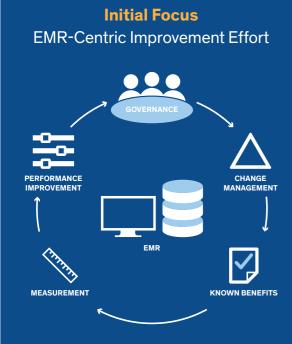


Revenue cycle systems replacement

ERP systems replacement

The Widening EMR Gap: Valuable Asset vs. Required Repository

As EMR adoption approaches maximum levels, healthcare organizations are refining EMR strategy from a short-term clinical documentation data repository to a long-term asset with substantial functionality surrounding clinical decision support, health maintenance planning and quality reporting.









Positive

Negative Consequences

- Reduced capital resources
- Higher costs
- Financial disadvantage

Replacement vs. Clinical Optimization

490 ACUTE CARE HOSPITALS

OF U.S. HOSPITAL MARKET

involved in an EMR contract decisions of some kind in 20154

200% INCREASE FROM 2014

50%

OF ALL HEALTHCARE ORGANIZATIONS

will be on their second EMR by 20204

Drivers for replacement include:







Integrated system across care settings (inpatient, outpatient)



Better system utilization



Clinical Optimization – Improving patient care through:

Efficient work





processes

staff

Better trained

Clinical Optimization Goals & Benefits⁵

As organizations seek to optimize EMRs, they need to recognize that EMRs deliver value when data can be leveraged to drive strategic decisions, improve patient care and control costs.



of time per nurse,

per shift

Save 28-36 minutes

Reduce lab test use and drug costs by 15%



Reduce average lengths of stay by 5% to 10%



Prevent 334 to 481 ADEs anually



Reduce order turnaround time by at least by 1 hour



Ensure 99% compliance with vaccinations



Reduce (67% reporting)



Improve (64% reporting)



Reduce transcriptions costs (61% reporting)

Physicians using optimized EMRs report⁶ measurable benefits:



report cost savings by eliminating management and storage of paper records

70%

report faster, more accurate service billing and overall time savings

53% report worksite

efficiency increased

Types of **Clinical Optimization**

- Functional optimization: tasking, worklists, menu, chart structure, flowsheet, preferences
- Specialty-based notes & templates
- Nomenclature harmonization: dictionary synchronization & consolidation
- HMP workflows, care guides & QSets
- Infection prevention & syndromic surveillance Automation: macros, scripting
- Integrated clinical decision support through alerting and notifications
- Specialty-based note template, chart structure, flowsheet, preferences & security
- Rationalization and consolidation of duplicative

legacy & ancillary clinical systems

or an increased infection risk)

- Clinical quality benchmarking clinical pathways from HIMSS (markers that indicate comorbidities
- Leverage full capacity and capabilities of EHR note functionality
- Alerting and notifications driving actionable insights to the point of care

Clinical Optimization Effort & ROI Matrix

| | | 3 | | | 16 | | \$ |
|---|---|---|----------------------|-------------------------|------------------------|--------|-----------------|
| ОИТСОМЕ | VALUE | LEVER | COST OPTIMIZATION | REVENUE MAXIMIZATION | QUALITY IMPROVEMENT | EFFORT | MONETARY ROI |
| Improve Caregiver Productivity & Patient Throughput | Decrease length of stay and increase the number of patients seen Access to care through greater efficiency | Charting toolsBed managementAccess to imagingDischarge planning | Little to no impact | Direct impact | Secondary impact | 4 | ssss |
| Improve Patient Safety Support | Mitigate risks associated with hospital acquired conditions, adverse drug events and readmissions | Infection control Virtual patient monitoring | Direct impact | Secondary impact | Direct impact | 3 | \$\$\$\$ |
| Streamline Key Patient Access Functions | Standardize processes and centralize quality assurance to reduce denials and limit back-end rework | Scheduling Insurance verification Registration | Little to no impact | Direct impact | Secondary impact | 3 | \$\$\$\$ |
| Reduce Variability of Care | Use the software and workflows as designed and enhance EHR and operational governance Improved Clinical Pathways Standardization on best practice workflows | Organizational change management Clinical adoption Workflow standardization Insights gathered from advanced analytics | Little to no impact | Direct impact | Secondary impact | 3 | \$\$\$\$ |
| Reduce Volume Leakage | Keep patients in network | Identification of patients' comorbidities | Little to no impact | Direct impact | Little to no impact | 2 | \$\$\$\$ |
| Improve Clinical Decision Support | Drive care delivery and manage acute and chronic diseases by evaluating the patient's problem list in clinical documentation | Automated rules & documentation | Little to no impact | Secondary impact | Direct impact | 3 | \$\$\$ |
| Improve Operations | Real-time performance tracking | Business intelligence & integrated dashboards | Little to no impact | Secondary impact | Direct impact | 4 | \$\$\$ |
| Improve Quality of Care | Enhance patient care while minimizing provider risk associated with reduced reimbursement Decrease clinical variability | Population health & disease management Quality monitoring & reporting Transparent performance metrics | Secondary impact | Little to no impact | Direct impact | 5 | \$\$\$ |
| Increase Patient Satisfaction | Increase volume of select services and procedures Enable patients to better manage their health | Wait times & throughput Access to information (patient portal, online statement review, mobile technology) | Secondary impact | Secondary impact | Direct impact | 2 | \$\$ |
| Optimize supply usage | Flag tests, orders and medications as high cost Embed alternate suggestions reducing unnecessary costs | Rules engine allows for outlining additional protocols in documentation and ordering tools | Direct impact | Little to no impact | Secondary impact | 3 | \$\$ |

Learn how we do IT at www.galenhealthcare.com/emr-clinical-optimization/ to access our clinical optimization whitepaper.