



Cumberland
consulting group

Beyond Go-Live: Achieving HIT System Optimization

FEBRUARY 23, 2012



Definition

- Optimization is defined as:
 - An act, process, or methodology of making something (as a design, system, or decision) as fully perfect, functional, or effective as possible... *(Merriam-Webster)*
 - The procedure or procedures used to make a system or design as effective or functional as possible... *(TheFreeDictionary.com)*
- For an EHR system, this can be defined as:
 - Enhancing or “fine-tuning” the functionality of a system to suit the needs of a particular end-user or medical specialty
 - Maximizing the effectiveness of a system so that end-users can get the most out of a system while spending as little time as possible in the system

Some Thoughts on Optimization

- EHR adoption is just the beginning; to ensure that you are getting the most out of your system, ongoing optimization is necessary
- During implementation, focus on getting your initial sites live and resolving issues identified during the go-live period
- End-users don't always know what they want/need until they have worked in a system for a while

"In effect, we climbed out of the horse and buggy into a Model T," - David Levin, MD, CMIO Sentara and vice president of medical informatics

Industry Guiding Principals

- Offer post-Live training opportunities
 - “How can I get through my day *faster*?”
- Solicit feedback from all levels
- Enhance build and provide additional features when appropriate
- Establish a dashboard to measure productivity
- Incorporate optimization into your maintenance program
 - Monitor and install vendor software upgrades

“You cannot possibly adapt technology to everyone's workflow. You must provide a solid baseline with a plan to optimize.” – James Walker, MD Chief Health Information Officer, Geisinger Health System

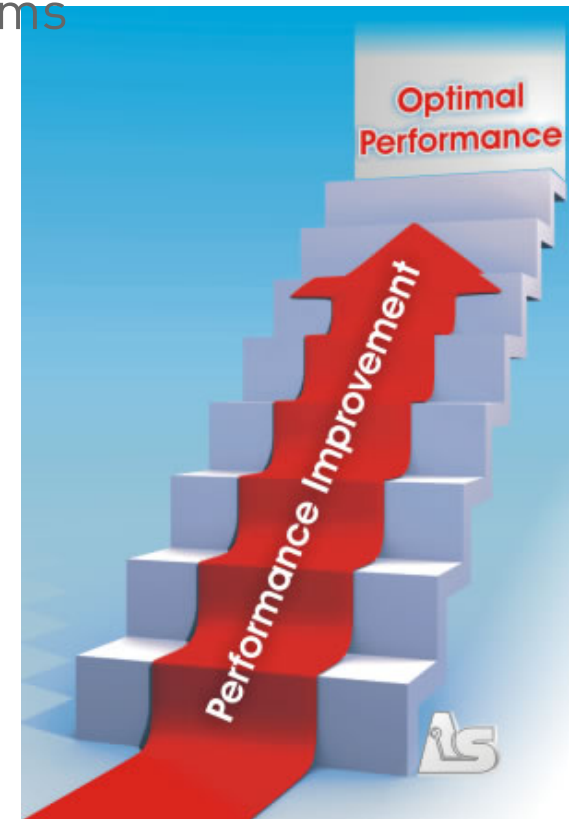
Two Approaches to Deploying Clinical Systems

1. *“Get it nearly perfect before go-live”*
 - Involves heavy customization upfront to cater to individual workflows
 - Initially, end-users may be satisfied because their EHR mimics their current workflows
 - Introduces risk of automating inefficient paper processes
 - Requires optimization to occur at the physician or practice level, typically requiring additional time and resources
2. *“Deploy standard functionality upfront; optimize later”*
 - Allows end-users to get comfortable with the basics before introducing advanced functionality
 - Provides ability to optimize across a group
 - Better manages scope creep

We believe the second approach delivers better results , faster and with less risk.

Goals of Optimization

- Improve patient safety
- Enhance workflows to maximize an EHR system's value
- Initiate advanced end-user education programs
- Increase productivity and efficiency
- Increase end-user adoption and satisfaction



Source: Gardner, Elizabeth. "User Unfriendly" Health Data Management, February 2012. Available online at www.healthdatamanagement.com.

Achieving HIT System Optimization

Lessons Learned

Establish Clear Objectives

- Begin thinking about your organization's strategic goals and implementation objectives
- Identify operational processes that need to change with an EHR:
 - New patients
 - Referrals
 - Scheduling
 - Medication ordering/administration
- Design with the end-user in mind
- Technology is important, but it's about the clinical processes and workflows
- One of the biggest issues with clinical information systems is that they require clinicians to adhere to standard workflows and clinical protocols to be effective

Implementation To Do's

- Tailor during implementation:
 - Non-electronic workflows
 - Preference lists based on top 25 diagnoses
 - Communication templates (e.g., letters)
 - “Must-Have” reports
 - Progress notes to the extent that they cover basic workflows
 - Barcode Medication Administration
 - Order sets
- Validate system content
 - Clinical monitoring mechanisms
 - Orders
- Focus on the 20% of cases that represent 80% of your solution (Pareto Principal applies broadly in this world)

Critical Success Factors – During Implementation

- Perform a thorough current-state analysis
- Set and manage expectations
- Enlist strong physician champions who are involved in the decision-making process
- Conduct meaningful validation sessions
- Drive standardization from the ground up (e.g., standard naming conventions lead to more efficient system maintenance)
- Manage scope
- Involve end-users throughout the process to promote buy-in
- Track optimization issues separately from system issues and make it clear that these will be reviewed after go-live

Post-Live To Do's

- Optimize after go-live:
 - Introduce advanced documentation
 - Refine existing and build “nice to have” reports
 - Validate new workflows
 - Enhance progress note templates based on end-user feedback
 - Implement advanced clinical monitoring systems
 - Initiate chart prompts based on documentation
 - Deploy patient portal
 - Potentially add bells and whistles (e.g., iPad, iPhone and Android apps)
- Solicit end-user feedback and deliver crowd pleasers early and often

Critical Success Factors – Post-Go-Live

- Allocate resources for both support and optimization
- Differentiate between break-fix issues and optimization requests
- Prioritize optimization items with the end-users
- Communicate!
 - End users need to know that there's a plan to optimize
 - Be clear regarding what will be optimized soon vs. later
 - Meet regularly with end-users to review progress
 - Continuously educate
 - Document feedback, new items, resolutions
- Group optimization items logically ("like with like")
 - Primary care optimization should span primary care
 - "Like" specialties should be grouped together as well

Managing Post-Live Optimization

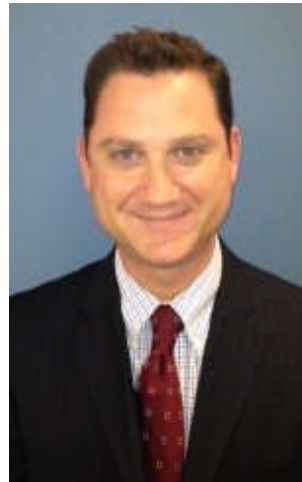
- Non-clinical systems in healthcare
 - Solid foundation for implementation and support
 - IT owns and maintains the process
- Clinical systems in healthcare
 - Newer initiative with advanced clinical functions
 - Clinical Informatics serves as the custodian of the process
 - What happens if you don't have a Clinical Informatics group?
- Leveraging Health IT to support clinical process improvement
 - Who should drive clinical optimization and support?

Panelists



Divya Shroff, MD, FHM

Chief Clinical Transformation
Officer & VP Clinical Services
Group, HCA



Jeff Sturman

VP of Information
Technology, Memorial
Healthcare System



Brian Junghans

Partner, Cumberland
Consulting Group



Cumberland
consulting group

www.cumberlandcg.com