Enterprise Imaging
Building a Solutions Roadmap
Session # 114 – February 21st 2017
Louis M. Lannum, Senior Strategic Solutions Consultant
Speaker Introduction

Louis M. Lannum
Senior Strategic Solutions Consultant
Conflict of Interest

Louis M. Lannum

On February 13th I joined the Agfa HealthCare team
Agenda

• Introduction
• Strategy
• Enterprise Imaging Program
• Design
• Support – Support Models
• What Does Your Plan Look Like?
Learning Objectives

• Discuss how an organization initiates an Enterprise Imaging Strategy and the steps it takes to turn a strategy into a solution.

• Recognize the steps and processes necessary to turn the strategy into tightly aligned initiatives and executable projects.

• Explain the service and support requirements of a multi-department, enterprise imaging strategy.
Providing access to all images that have been missing from the EHR increases physician satisfaction.

Multi-modality imaging access and the ability to access and share images from across all the imaging service lines help in the treatment planning and clinical decision making.

The program aggregates all of the imaging content into a single imaging repository with a single integration point to the EHR.

At the point of care, physician can now share images with patients, engaging them in their care decisions.

There is a potential cost savings in aggregating all the department images into a single imaging storage container.
Introduction

Enterprise Imaging Building a Solutions Roadmap

Enterprise Imaging is a set of programs and initiatives designed and implemented to capture, index, manage, store, provide access to, and exchange all clinical imaging content across the healthcare enterprise.

A Foundation for Enterprise Imaging: HIMSS-SIIM Collaborative White Paper
Christopher J. Roth, Louis M. Lannum, Kenneth R. Persons
Journal of Digital Imaging Open Access Article
First Online: 31 May 2016
Strategy

Enterprise Imaging Building a Solutions Roadmap

Management of imaging content acquired or captured across the health system

Provide access to all of the content through a visualization program

Develop workflows that will allow external images to be accessible from the EHR

Align imaging support for all imaging service lines
A strategy must be developed to provide access to all of the clinical data at the point of service.
Strategy without tactics is the slowest route to victory.

Tactics without strategy is the noise before defeat.

Sun Tzu
Enterprise Imaging Program

Enterprise Imaging Building a Solutions Roadmap

Clinical
Technology
Business Alignment
Governance – Aligning the Organization
• Provide physician access to Clinical Content missing in the EHR
• Images associated with interpretation or clinical decision
• Clinical collaboration among caregivers
• Patient engagement in the clinical setting
• Supporting mobile health initiatives
- Enterprise storage and consolidation
- Images Integration with HER
- Disaster Recovery / Business Continuity
- Coordinated Image Lifecycle management
- Data Management - Standardizing the metadata
- Workflow management
- Image & Content exchange

Aligning IT infrastructure and planning with enterprise and department goals and initiatives
• Support Population Health Management Strategies
• Support of Distance Health (tele-health) initiatives
• Patient & Physician portals
• Support of e[Programs]
• Support of Mergers & Acquisitions
• Leveraging clinical / technology alignment for affiliation programs
• Department Alignment Strategies - Support model for department imaging initiatives
The coordination of multiple players in the design and implementation takes planning, resources and time.
Design
Enterprise Imaging Building a Solutions Roadmap

Technology Infrastructure
Service-Line integration
Access / Visualization Strategy
Image Exchange Strategies
Design and build an architecture to manage all imaging content

Radiology focused – storage and migration strategy
Service-Line Imaging Program

Assessment

Roadmap Development

Service – Line Integration (execution of the Roadmap)
Image Access Strategies

Enterprise Imaging Platform

- Radiology
  - PACS
  - RIS

Gastroenterology

Ophthalmology

Surgical Imaging Program

Cardiology

Dermatology
Ultrasound
Wound Care

Point-of-Care Programs

Mobile Image Strategy

Enterprise Viewer Deployment

Diagnostic Users
- Image Intensive Users
- EHR Integrated Viewer
- Remote Viewing
- Mobile Image Access

VNA

RIS

PACS

Mobile Image Access Strategies
Exchange

Consumer Portal

Patient Exchange Portal

Patient Generated Data

Image Exchange Portal

Cross-Enterprise Exchange

Facility to Facility Patient Transfer

Point-of-Care Programs

Dermatology  Ultrasound  Wound Care

Gastroenterology

Radiology PACS

Radiology RIS

Radiology

Surgical Imaging Program

Cardiology

Ophthalmology

Image Exchange

VNA
Support – Support Models

What becomes enterprise support?
What becomes department support?
Technology Support

Who will manage the new infrastructure?

Storage Infrastructure
Enterprise Application(s)
EMR & System Integration
Image Exchange Platform
Enterprise Viewer
Aligning support for all imaging service lines

Develop a management plan for Service-Lines

Department Imaging Systems

Department Imaging Application(s)

Point-of-Care Devices

Surgical Imaging Systems
Technology Support

Aligning support for all imaging service lines

Coordinate change management across the enterprise

Enterprise Change Management Process

Physician Advisory Group – Managing Changes in the EHR

Coordinated Project Management
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What Does Your Plan Look Like?
Enterprise Imaging Building a Solutions Playbook

Keeping the Strategy Alive
Providing access to all images that have been missing from the EHR increases physician satisfaction. The program begins to add to a more complete EHR by providing access to content that historically been absent during an encounter with a patient.

Multi-modality imaging access and the ability to access and share images from across all the imaging service lines help is the treatment planning and clinical decision making.

The program aggregates all of the imaging content into a single imaging repository with a single integration point to the EHR. The enterprise imaging strategy provides a technology infrastructure to capture, index, manage, store and access all imaging content across the healthcare enterprise.

At the point of care, physician can now share images with patients, engaging them in their care decisions.

There is a potential cost savings in aggregating all the department images into a single imaging storage container. Without an enterprise program to manage imaging, each department is responsible for maintaining their own storage infrastructure and disaster recovery plans.
Questions

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• Remind attendees to complete online session evaluation