Integrating the Imaging Workflow
By Konica Minolta

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Joe Cermin, President of Konica Minolta Healthcare IT

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Integrating the Imaging Workflow

Featured Speaker:

Joe Cermin
President, Konica Minolta Healthcare IT
A New Force in Healthcare IT!
Integrating the Imaging Workflow

Tim Kearns
Sr. Product Manager, Konica Minolta Healthcare IT
Integrating modalities with EHR maximizes workflow productivity and provides effective patient care.

Image sharing between healthcare providers and patients is essential in today’s healthcare environment.

EHR is the backbone of Meaningful Use compliance.

Imaging Challenges and Solutions:

- Costly workstations
- Time consuming image acquisition
- Managing performance
- Maximizing workflow efficiency
- Separate workstations for advanced imaging
- Acquiring 3D mammography images
- Referring physician access to images
- Patient access to their clinical data
- Meaningful Use compliance
Challenge: Costly Workstations

- Upfront investment of $50,000 to $100,000 for each diagnostic workstation
- Ongoing cost and effort in servicing and upgrading multiple workstations
Challenge: Time Consuming Image Acquisition

Typical client/server infrastructure:
• Workstations do heavy lifting of obtaining images
  • Time consuming
  • Clogs the network
  • Challenges magnified for PET, Mammo, CT, large studies
• Prior images require prefetching to load workstations
• Without prefetching, obtaining priors during exam is time consuming
• Remote access prohibitive due to network bandwidth
Challenge: Managing Performance

• How are my radiologists performing relative to targets?
• Which referring physicians are ordering the most profitable exams?
• Are there bottlenecks in workflow?
• If I do get this data, is it too late to take action?
Challenge: Maximizing Workflow Productivity

• Every facility has unique workflow requirements that need to be configured to maximize workflow productivity and profitability
• Customizing workflows are typically time consuming to setup and maintain
Challenge: Separate Workstations for Advanced Imaging

• Separate dedicated workstations for every modality can be both costly and inefficient for the radiologist
  • 3D Breast Tomosynthesis (BTO)
  • PET
  • CT
Challenge: Acquiring 3D Mammography Images

• Workstations cost $50,000 to $100,000
• Dedicated workstations inefficient for radiologists
• Remote access prohibitive due to network bandwidth
Challenge: Referring Physician Access

• Require access to schedule exams and perform insurance verification
• Require access to images and reports remotely
Challenge: Patient Access to their Clinical Data

• Typically use DVDs for images and reports
  • Compatibility issues
  • Separate media for each exam
• Fill out administrative forms (usually on paper) at every visit
• Patients*
  • Value their imaging procedures and believe that the results matter to their health
  • Very interested in receiving their imaging results in a timely fashion

*University of Michigan study reported in AuntMinnie.com 11/2/15
Challenge: Meaningful Use Compliance

• Rules for radiology have been confusing
• Do I need to purchase an EHR?
• Do I need to integrate data between my EHR and radiology solutions?
Integrating the Imaging Workflow

Steve Deaton,
Vice President, Konica Minolta Healthcare IT
Healthcare Information Technology (IT)

Primary Imaging

Advanced Imaging

PACS/RIS/EHR/Billing

Referring Physician Portal

Patient Portal

Advanced Imaging
Challenge: Costly Workstations

Solution: Zero Footprint (ZFP) Viewer

• Full diagnostic toolsets and viewing capabilities
• ...from any computer
• No downloads, plugins or installations necessary
• Software updates implemented across all users instantly

Access Anywhere
Challenge: Time Consuming Image Acquisition

Solution: Server-Side-Rendering

• Server doing all the work...not each individual workstation
• DICOM data does not need to be downloaded to the workstation
• PET, CT and 3D mammography exams open *immediately*
• No prefetching required
• 60% reduction in network usage

Access Speed
Challenge: Managing Performance

Solution: Performance Dashboard
- Track performance metrics and workload *live*
- Track information such as
  - Daily exam volume
  - Radiologist performance
  - Referring physician profitability
- Customizable for each user

Increase Accountability
Challenge: Maximizing Workflow Productivity

Solution: Custom Workflow Design Engine

• Build your own workflow based on your facility’s needs
• *Drag and drop design*

Flexible Workflow Design
Challenge: Separate Workstations for Advanced Imaging

Solution: Specialized Viewing

- Consolidated viewing for advanced imaging modalities including
  - 3D Breast Tomosynthesis (BTO)
  - PET
  - CT
  - Video
- Full PET Fusion and SUV filtering from any workstation
- MPR and MIP capabilities

Separate Dedicated Workstations Not Necessary
Challenge: Acquiring 3D Mammography Images

Solution: ZFP Mammography Viewing

- Consolidated mammography viewing from any web-enabled viewer
  - No viewer installation required
  - Zero Footprint viewer allows for diagnostic access to images everywhere*
  - Fully supports BTO image sets

Anywhere Mammography Viewing

*Requires 5MP
Challenge: Referring Physician Access

Solution: Referring Physician Portal

• **Secure, remote Web access**
• Access to
  • Images
  • Reports
  • Scanned documents
• Patient exam prep documentation
• Electronic order sign-off

Easy Access and Simple to Use
Challenge: Patient Access to their Clinical Data

Solution: Patient Portal

• Secure, remote Web access
• Access to
  • Images
  • Reports
• Complete administrative forms digitally before appointment

Easy Access and Simple to Use
Challenge: Meaningful Use Compliance

Solution: Integrated EHR for MU
- Integrated RIS, PACS and EHR
- Assists our customers in achieving **MU Stage 2** compliance

Easy Access and Simple to Use
Live Demonstration

http://12.70.252.209/VIZ/login
Imaging Challenges and Solutions

Challenges
• Costly workstations
• Time consuming image acquisition
• Managing performance
• Maximizing workflow efficiency
• Separate workstations for advanced imaging
• Acquiring 3D mammography images
• Referring physician access to images
• Patient access to their clinical data
• Meaningful Use compliance

Solutions
• Zero Footprint (ZFP) Viewer
• Server-Side-Rendering
• Performance Dashboard
• Custom Workflow Design Engine
• Specialized Viewing
• ZFP Mammography Viewing
• Referring Physician Portal
• Patient Portal
• Integrated EHR for MU
Live Q&A

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