Real-World Image Sharing for Patient-Centered Care
Overview

- Objectives and speakers
- CMS and ONC “Image Results” MU Regulations
- Radiology efforts
- Real-world perspective
- Panel discussion
Objectives

- To bring together ONC (Steve Posnack), referring physicians in the HIT Fellows group (on the Webinar), patient groups (Nick Dawson, Society for Participatory Medicine), HIT experts (Pat Ward, CIRA) and radiologists (Drs. Hirschorn and Roth) to discuss image sharing requirements, needs, efforts, and opportunities.
Speakers

- **Moderators**
  - Dr. David Hirschorn, Director of Radiology Informatics, Staten Island University Hospital & Researcher in Radiology Informatics, Massachusetts General Hospital
  - Dr. Christopher Roth, Assistant Professor of Radiology, Vice Chair, Information Technology and Clinical Informatics & Director of Imaging Informatics Strategy, Duke Medicine
Speakers

- **Panelists**
  - Nick Dawson, President, Society for Participatory Medicine, Washington, DC
  - Pat Ward, CIO, Central Illinois Radiology Associates, Peoria, IL
  - Steven Posnack, Director, Office of Standards and Technology, Office of the National Coordinator for Health IT
Welcome Webinar participants

- **ONC HIT Fellows**
  - Provide grassroots insight and critical feedback/critique of appropriateness, clarity, and effectiveness of resources, tools, and other technical assistance initiatives of the ONC and others geared towards their peers. Fellows will lend their voice and experience regarding ways providers can leverage Health IT to improve patient engagement and experience in the delivery of patient care, making Meaningful Use meaningful.

- **Patients and patient advocates**
- **HIT expert and members of the radiology community**
Meaningful Use and Certification
“Image Results”

Steven Posnack,
Director, Office of Standards & Technology
Office of the National Coordinator for Health IT
Meaningful Use Requirements (1)

- **General Policy**
  - Meaningful Use Stage 2 – Menu Set objective
  - Available to both eligible professionals and eligible hospitals

- **Objective**
  - Imaging results consisting of the image itself and any explanation or other accompanying information are accessible through Certified EHR Technology (CEHRT)

- **EP - Measure**
  - More than 10 percent of all tests whose result is one or more images ordered by the EP during the EHR reporting period are accessible through CEHRT.

- **EP – Exclusion**
  - Any EP who orders less than 100 tests whose result is an image during the EHR reporting period; or any EP who has no access to electronic imaging results at the start of the EHR reporting period.
Meaningful Use Requirements (2)

- Defined terms
  - Imaging
  - “accessible through”

- Additional Info
  - There are no limitations on the resolution of the image.
  - Storing the images natively in CEHRT is one way to make them accessible through CEHRT, but there are many other ways and native storage is not required by the objective and measure.
  - Images and imaging results that are scanned into the CEHRT may be counted in the numerator of this measure.

Certification Requirements

- 45 CFR 170.314(a)(12)
  - **Image results.** Electronically indicate to a user the availability of a patient’s images and narrative interpretations (relating to the radiographic or other diagnostic test(s)) and enable electronic access to such images and narrative interpretations.

- **Additional Info**
  - Single sign-on not required; storage by EHR technology permitted approach, but not required; context-sensitive link another option to provide access.
  - PACS system that may be presented with an EHR technology for certification not “bound” to the certification
  - If additional fees apply price transparency disclosure requirements exist
Real-World Image Sharing for Patient-Centered Care

Radiology Efforts

David Hirschorn, MD
Staten Island U Hospital
Overview

- Image sharing options today
- ACR and RSNA projects
- ACR and RSNA coordination
- Opportunities to leverage MU in the future to enhance interoperability and exchange
- Potential future options
Image Sharing today

- Film
- CDs
- Cloud
  - Hospital
    - PACS
    - VNA
  - Image sharing vendor
  - Dictation system vendor
- Health Information Exchange
- Patient
  - Personal Health Record
ACR and RSNA projects

- ACR TRIAD – Transfer of Images and Data
  - Accreditation
  - Clinical trials
  - Registries – dose
- RSNA Clinical Trial Processor
  - Import / Export / Route
  - Anonymize
  - Filter elements
  - Map elements
ACR and RSNA projects

- NIBIB/RSNA Image Sharing Project
  - Patient controlled
  - Uses IHE, but for patient controlled patient health record (PHR) transactions
  - Patients have to sign up to use it
  - Started at 5 academic institutions
  - Edge servers in hospitals
  - Established a clearinghouse
  - Engages PHRs
Image Sharing Systems Overview
ACR and RSNA coordination

- **ACR RSNA Position on Standards-based Image Sharing**
  - Improving access to medical images and reports for referring physicians and patients is a critical goal for radiology.
  - Empower them to make better care decisions
  - Reduces unnecessary radiation and overutilization
  - Standards-based methods for sharing imaging data
  - Needs to be efficient and secure
ACR and RSNA coordination

- ACR RSNA Position on Standards-based Image Sharing
  - ACR and RSNA will advocate the incorporation of standards for image sharing in requirements for certification of health IT systems promulgated by government agencies like the US ONC and accreditation organizations.
Leveraging Meaningful Use

- CMS and ONC could require that images be shared, not just results
- Could enforce standards for image sharing
  - IHE - Integrating Healthcare Enterprise
    - XDS - Cross-Enterprise Document Sharing
  - DICOM - Digital Imaging and Communication in Medicine
    - MINT 2.0 – Medical Imaging Network Transfer
    - MS-DICOM – Combine images into one object
- Could require patients to have access to their images
Future options

- Banking model
  - It’s your money
  - But you can decide who can receive access to your money
  - You can use your card in any ATM machine because there is one clearinghouse

- National patient identifier

- Data ownership
  - Can data be inherited?
  - Can data be purged?
“Gimme my damn data!”
Real-World Image Sharing: A Common Connection

Pat Ward,
CIO, Central Illinois Radiology Associates
• Central Illinois Radiological Associates, Ltd. (CIRA) has implemented a common viewing and dictation platform for reading images and dictating reports from disparate hospitals.

• The system accelerates image transmission and eliminates workflow bottlenecks to decrease turnaround times, allowing radiologists to provide higher quality care.

• The system allows the group to distribute its caseloads more effectively, ensuring all radiologists carry a full workload regardless of where they are based.
Please stand by as we transition to Pat Ward’s presentation
Next steps

Radiology practices that want to implement a system like CIRA’s should:

• Identify their workflow inefficiencies and develop a strategy for resolving those issues

• Work with software vendors to identify existing systems that can meet their needs

• Demonstrate the benefits the system will bring to both the practice and to its partner facilities
Moderated Q&A

Live meeting attendees:
Please step to the microphone to start the dialog

Webinar attendees:
Please type your question or comment in the chat window to join the conversation.