

QIBA DCE-MRI Phantom Data Analysis Update
Friday, April 24, 2009
10:00 AM CDT
Call Overview

In attendance:

Gudrun Zahlmann, PhD (Co-Chair)
Edward Jackson, PhD

RSNA
Linda Bresolin, PhD, MBA, CAE
Steve Drew
Fiona Miller
Susan Anderson
Joe Koudelik

General Discussion:

With the initial phantom image acquisition complete at MD Anderson CC, the discussion turned to next steps which include shipping one phantom to next site (U-Chicago) and determining the most practical data storage/sharing platform for data transfer between imaging sites and VirtualScopics.

- Dr Jackson sent revised acquisition protocol to DCE-MRI Co-chairs for comment
- Parameter information for Siemens systems needed (from U-Penn and Dr Purdy)
- Requirements of data transfer/storage/access system chosen
 - Ease of use and implementation
 - Centralized solution (database/location)
 - Users need open access to this data; a key requirement
 - Make data public (secondary/separate issue)
 - All imaging centers to forward data to one site for easy access/sharing
- Data transfer/storage/access options
 - DVD distribution
 - SFTP site
 - MIRC
 - Data disseminated storage process (open-source RSNA software)
 - Transfer mechanism with image access
 - Can define who has access; controllable
 - http protocol transfer process
- John Freymann (NIH/NCI) to be invited to participate on a technical call to discuss MIRC feasibility
 - John Perry (MIRC developer for RSNA) could be involved
 - Dr Jackson to discuss off-line with Mr Freymann
- Dr Ashton to be allowed access to images in NCIA database
- VirtualScopics could develop a SFTP site if needed
- U-Chicago to receive one phantom next week to begin Philips (New) image acquisition
- U-Penn to receive phantom once Siemens' system parameters are addressed

Next Steps:

- Dr Jackson to send updated acquisition protocol to Dr Karczmar at U-Chicago to begin prepping site
- Dr Jackson to test data transfer based on established SFTP and MIRC at MD Anderson
- Drs Zahlmann, Purdy and Rosen to work together to provide Siemens parameter data

- Dr Karczmar to contact Dina (?) at ACRIN for name of Penn physicist for additional Siemens advice/expertise
- Schedule tech call to discuss MIRC process with John Freymann (NIH/NCI), Steve Drew (RSNA), Dr Edward Ashton (VirtualScopics) and Dr Edward Jackson (MD Anderson CC) plus one representative from each scanning site
- Schedule another QIBA DCE-MRI core group call in two weeks (after MIRC discussion)

Order of phantom shipping between imaging sites

