QIBA DCE-MRI Update
Wednesday, September 2, 2009
11:00 am CDT
Call Overview

In attendance:

Michael H. Buonocore, MD, PhD (Co-Chair)
Jeffrey L. Evelhoch, PhD (Co-Chair)
Edward Ashton, PhD
Daniel Barboriak, MD
Orest B. Boyko, MD
Andrew Buckler, MS
H. Cecil Charles, PhD
Igor Grachev, MD, PhD
Alexander Guimaraes, MD, PhD
Edward Jackson, PhD
Michael V. Knopp, MD, PhD

Chahin Pachai, PhD
David E. Purdy, PhD
Mark Rosen, MD, PhD
Mitchell Schnall, MD, PhD
Katherine Scott, PhD
Daniel Sullivan, MD

RSNA
Susan Anderson, MLS
Joe Koudelik

Agenda
- Results from phantom study
- RSNA 2009 Annual Meeting preparation
- ACRIN collaboration model

Phantom study and data analysis update (Drs Ashton and Jackson)
- Software had difficulty analyzing T1 data for first rotation, others OK
- Large 400 mS T1 bias between MDACC and UChicago results with considerable noise
- R1 bias between MDACC and UC results increased with increasing R1
- No obvious cause, coil-loading issues or leaking spheres suggested as possibilities
- VFA run in one position proposed for MDACC using UChicago data/phantom (Dr Jackson)
- Drs Jackson, Ashton and Karczmar to discuss (GK not on call)
- UChicago data to be uploaded to the NBIA site
- Dr Ashton to determine whether Penn phantom data is uploaded to NBIA site
  - Brian Hughes to contact Dr Rosen (Penn) to follow-up if needed

RSNA 2009 Annual Meeting preparation
- Each Technical Committee to submit 1-2 posters
- Common format, e.g. colors, font, layout to be used
  DCE-MRI poster to focus only on results of phantom pilot study? More discussion needed

ACRIN collaboration model (Dr Schnall and Sullivan)
- ACRIN is open to collaboration; not seeking exclusivity
- ACRIN to be awarded by NCI 'authority' to pre-qualify cancer centers for specific imaging techniques
- ACRIN would take an 'open-book' approach by sharing data and resources with any QIBA technical committee in efforts to move the field forward
- A larger platform/group would emerge, making QIBA efforts stronger
- ACRIN and Image Metrix do share resources, but ACRIN does draw corporate lines; a distinct enterprise is recognized
- Image Metrix remains commercially funded; ACRIN remains publically funded; all funding resources are made clear
- Intellectual interactions among all players would still benefit
- ACRIN maintains the following:

- o Open academic enterprise
  - o All data is publically available (e.g. data from QIBA collaborations would be posted to NIBA)
  - o All techniques are published
  - o Protocols are posted to their website
  - o Openly cooperative
  - o ACRIN wants to provide benefit to QIBA efforts
- QIBA interested in collaborating with ACRIN; no concerns seen with the ACRIN/Image Metrix relationship as long as no exclusive relationship exists
  - o Being open and publically available is key
- Additional core labs welcome to continue collaborating

NIBIB proposal
- Decision may be delayed another 2 months; funds may not be available this fiscal year

Next Steps:
- Dr Ashton will talk with Dr Karczmar about UChicago data and about possible flip-angle problem
- Dr Jackson will do VFA run on phantom used at UChicago
- Dr Jackson will send his Excel spreadsheet to Dr Karczmar and post to the QIBA Wiki
- Discussion of DCE-MRI poster(s) for RSNA 2009 QIBA exhibit area