QIBA DCE-MRI Technical Committee Update
Wednesday, June 08, 2011 at 11 AM CDT

Call Summary

In attendance
Gudrun Zahlmann, PhD (Co-Chair) | Gregory Kaczmars, PhD
Edward Jackson, PhD (Co-Chair) | Hendrik Laue, PhD
Michael Boss, PhD | Chen Lin, PhD
Orest Boyko, MD | Thorsten Persigehl, MD
Andrew Buckler, MS | Mark Rosen, MD, PhD
Martin Buechert, PhD | John Waterton, PhD
Daniel Gembris, PhD | RSNA
Alexander Guimaraes, MD, PhD | Joe Koudelik
Marko Ivancevic, PhD

DCE-MRI Profile Overview (Dr Guimaraes)

- Imaging Quality Control (Section 12) reviewed
- Specific requirements/qualification for image acquisition sites discussed
- Specific section references to be located in the Appendices for a “clean read”
- Power injection recommendation proposed, but not prescriptive or “How To”
- Technologist vs. anatomical expert (physician) oversight of acquisitions
  - Medical professional to be responsible for image integrity
- Phantom imaging requirements discussed
  - Dr Jackson to provide range of relaxation values for the QIBA phantom currently used
  - Tissue vs. vascular compartments to be addressed
  - Dr Jackson to forward literature rational for T1 values to Dr Guimaraes for incorporation
- Dr Ashton to provide additional data for current QIBA phantom to support signal stability text
- Coronal vs. oblique scanning planes discussed; acquisition sites to document both TE and TR for acquisitions
- “Imaging analysis center” too ambiguous (Section 12.2.4); analysis preferred and recommended at a single site for multi-site trials

Next steps:

- Dr Guimaraes to:
  - read through the Profile action items (bullets) for accuracy
  - complete Profile formatting with Mr Buckler’s assistance
  - follow up with Dr Ashton concerning signal/image stability data for the current QIBA phantom as well as the best way to determine this stability
  - follow up with Dr Barboriak for R1 precisions details (references)
- Dr Jackson to forward literature rational for T1 values to Dr Guimaraes for incorporation
- Profile development time frame discussed:
  - June 14th Deadline - Dr Guimaraes to format the Profile with Mr Buckler’s assistance for the “pre-review” process
  - June 17th Deadline - Deadline for pre-final Profile review; forward to “core” group of for a “final read” exercise
  - June 24th Deadline - Final read completed by core group (Drs Zahlmann, Jackson, Guimaraes and Rosen); final comments/feedback to be incorporated by Dr Guimaraes (June 24-29)
  - June 30th Deadline - DCE-MRI Profile v1.0 ready for Public Comment
- Next call scheduled for Wednesday, June 22, 2011 at 11 am CDT