

QIBA DCE-MRI Subcommittee Update
November 17, 2010 at 11 AM CST

Call Summary

In attendance	David E. Purdy, PhD
Gudrun Zahlmann, PhD (Co-chair)	Daniel Sullivan, MD
Edward F. Jackson, PhD (Co-chair)	
Sandeep Gupta, PhD (Co-chair)	
Orest B. Boyko, MD, PhD	RSNA
Andrew J. Buckler, MS	Fiona Miller
Jeffrey Evelhoch, PhD	Joe Koudelik
Marko Ivancevic, PhD	

Poster for RSNA 2010

- Dr. Jackson reviewed the three main sections of the poster
 - Update on Version 1 of the phantom including overall results that have been analyzed
 - Includes link to the Wiki for those who wish to access full results
 - Rationale for production of new phantom
 - Phantom design
 - Findings from relaxometry study
 - Proposed study with new phantom
 - First DCE-MRI Profile and associated Claims
- Dr. Jackson will append photographs of the two phantoms
- Line to be inserted on VIF Signal Graph
- Final edits will be made by Dr. Jackson today
- Reminder to sign up for lunch-time Meet-the-Expert sessions at: <http://doodle.com/veyzcvpp9a9c85r5>

Data Analysis

- Philips multi-frame DICOM format still proving to be problematic for VirtualScopics
- Dr. Ivancevic will reformat and export as single-frame DICOM data and resend to Dr. Ashton for analysis

Profile Discussion

Dr. Gupta reviewed proposed action items circulated on 11/17 in e-mail from RSNA staff

- Tumor size criteria of 2cm may be changed for different organ systems
- Suggested to keep wording as is for V1 and plan groundwork experiments to inform V2 of profile
- Site Selection and Qualification:
 - Dr. Jackson to provide phantom specs and procedure for site selection
- Subject Preparation
 - Minor changes to be made by Dr. Guimaraes
- Image Analysis
 - Clarification needed from Dr. Ashton regarding expressions used
 - Input needed on expressions used for SI ratios
 - Dr. Gupta to follow up with Dr. Ashton concerning data analysis
- Quality Control
 - Edits needed to make language more generic
 - Subject-specific quality control to be incorporated into Section 12
 - Dr. Gupta to ask Dr. Karczmar to review
- Imaging Section
 - Dr. Ivancevic to review by 11/23
 - RSNA staff to provide v0.9
 - Scanner-specific information to be requested from vendors for insertion at a later date
- Image Interpretation
 - Dr. Zahlmann to send request to Dr. Knopp to complete this section
 - If not possible, Dr. Gupta will provide a draft
- Risk
 - Dr. Boyko to provide by 11/23

- New ACR guidelines on Gadolinium contrast agents to be referenced
- All contributions to be sent to Dr. Gupta no later than 11/23

Public Comment Period and Trial Implementation

- Timeline needed
- Drs. Zahlmann and Gupta to finalize text before v1.0 can be released
- Mechanism needed for public comment; suggestions included
 - Corporate visits to invite company participation
 - Committee members to disseminate to qualified peers
 - Invitation to post comments on Wiki
 - Blast to membership from AAPM, ISMRM etc
- Steering Committee to discuss process at their 1/28/11 in-person meeting
- How and to whom authority is given to make final decision needs to be decided
 - Rigorous process will provide credibility
 - Input needed from Siemens and other manufacturers

Next Meetings

- Small core writing group call scheduled for 11/24
- Face-to-face meeting at RSNA on Dec 1st at 3:30-5:30 p.m., Room S103D

Next Steps:

- Dr. Jackson to finalize poster for RSNA
- Dr. Ivancevic to reformat data and export to Dr. Ashton
- Profile sections to be completed and sent to Dr. Gupta by 11/23
- Next call scheduled for: December 8, 2010 at 11 am CST (after the RSNA Annual Meeting)