QIBA Perfusion, Diffusion and Flow – MRI Biomarker Committee (BC) Update Call
Wednesday, April 27, 2016 at 11 AM (CDT)
Call Summary

Participants

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<tr>
<th>Name</th>
<th>Role</th>
<th>RSNA</th>
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<tr>
<td>Michael Boss, PhD</td>
<td>Co-Chair</td>
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RSNA

- Michael Boss, PhD (Co-Chair)
- Jim Gimpel RT (R) (MR)
- Jason Stafford, PhD
- Joe Koudelik
- Mark Rosen, MD, PhD (Co-Chair)
- Edward Jackson, PhD
- Ying Tang, PhD
- Susan Weinmann
- Rajpaul Attariwala, MD, PhD
- Chen Lin, PhD
- Brian Taylor, PhD
- Mark Brown, PhD
- Elizabeth Mirowski, PhD
- Ona Wu, PhD
- Edward Jackson, PhD
- Ying Tang, PhD
- Susan Weinmann
- Thomas Chenevert, PhD
- Nancy Obuchowski, PhD
- Junqian (Gordon) Xu, PhD
- Caroline Chung, MD
- J. M. (Hans) Peeters, PhD
- Dewen Yang, MD, PhD
- Timothy Dondlinger
- Walter Schneider, PhD
- Qing Yuan, PhD
- Daniel Gembris, PhD

Moderator: Dr. Boss

Task Force Updates & Sign Ups – Dr. Boss

- **Task Force Updates:**
  - Rotating TF updates on PDF BC calls will be re-established
  - The goal is to maintain momentum within the TFs
  - There will be a fixed agenda for upcoming calls
  - RSNA staff to note scheduled TF updates on meeting invitations and reminders
  - This practice will commence on the next call on May 25th

- **Task Force Sign-ups**
  - Four point-people in each TF will be assigned to specific aspects of Profile development
    - Claim development
    - Literature search
    - Profile Editor (to oversee all writing assignments)
    - Groundwork projects (to oversee progress and results)
  - TF leaders were encouraged to motivate volunteers and “semi-officially” delegate responsibilities within their TF to increase efficiency and complete deliverables
  - The goal is to distribute work load to avoid strain on one or two individuals

DCE Update (Dr. Chung)

- The DCE TF will soon move on from DCE Profile Version 1 to Version 2
  - The main goal of version 2 is to incorporate 3T and parallel imaging
  - A vendor survey regarding B1 correction was conducted and valuable feedback has been received
  - With multiple Profiles specific to body-site-specific details, the aims are to:
    - Increase the efficiency of Profile development
    - Enable incorporation of body-site-specific issues and possibly adjust Claim language based on body-site-specific literature
    - Increase uptake in users referencing this resource (i.e. shorter, focused document per body site)
Each body site Profile will be reviewed together, eventually formalizing a ‘common template’ of section text that will be maintained across parallel Profiles.

Each body site will have a designee to guide Profile writing.

Body sites with which to begin a systematic literature review:

- **Brain**: Caroline Chung, Jayashree Kalpathy-Cramer
- **Head & Neck**: Mark Shiroishi, Dave Fuller
- **Liver**: Hendrik Laue
- **Prostate**: Uulke van der Heide, Mark Rosen
- **Breast**: tbd

- There was discussion of pros and cons on developing multiple Profiles or a single Profile with multiple claims:
  - If a common, overall procedure addresses multiple body sites, keeping all body sites within one Profile with multiple Claims may be more efficient.
  - There are concerns with multiple conformance procedures if separate Profiles are developed.
  - Multiple Profiles may be necessary depending upon degree to which aspects like image acquisition differ.
  - TFs were encouraged to involve vendors in the Profile-writing process as early as possible, as perspective on multiple Profiles vs. single multi-claim Profile is crucial.

- The DCE TF will begin with a Profile focused on the brain as a test case and will review other organ sites for possible integration.
- Tasks for the brain Profile to be divided among TF members on next DCE TF call.
- Profile-writing will initially be prioritized over the literature search.

**DWI Update (Dr. Boss)**

- Feedback on Claims received at the QIBA Annual Meeting has been useful.
- Discussion continued regarding the cross-sectional and longitudinal Claims being developed within the DWI Profile.
- Current available literature is not sufficient for making claims for many of the organs originally included.
- The focus of the DWI Profile was narrowed down to three organs, for which quality test-retest studies exist.
- For help with Claim language and literature search, TFs were encouraged to reference the Claims Guidance document, which can be found on the QIBA Wiki at: [http://qibawiki.rsna.org/index.php/Main_Page](http://qibawiki.rsna.org/index.php/Main_Page).
- The DWI Profile will be out for public review in early-to-mid June 2016 (or by June 8 DWI TF call).

**Next PDF-MRI Biomarker Committee Call**: May 25, 2016 at 11 AM CDT (May 11 call skipped due to ISMRM)