QIBA Perfusion, Diffusion and Flow – MRI Biomarker Committee (BC) Update Call  
Wednesday, March 16, 2016 at 11 AM (CDT)  
Call Summary

Participants

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<tr>
<th>RSNA</th>
<th>Name</th>
<th>Position</th>
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<tr>
<td>John Kirsch, PhD (Co-Chair)</td>
<td>Daniel Gembris, PhD</td>
<td>Kathleen Schmainda, PhD</td>
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<td>Mark Rosen, MD, PhD (Co-Chair)</td>
<td>Edward Jackson, PhD</td>
<td>Mark Shiroishi, MD</td>
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<td>Harsh Agarwal, PhD</td>
<td>Daniel Krainak, PhD</td>
<td>Ying Tang, PhD</td>
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<td>David Bennett, PhD</td>
<td>Chen Lin, PhD</td>
<td>Brian Taylor, PhD</td>
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<td>Mark Brown, PhD</td>
<td>Dariya Malyarenko, PhD</td>
<td>Ona Wu, PhD</td>
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<td>Thomas Chenevert, PhD</td>
<td>Elizabeth Mirowski, PhD</td>
<td>Junqian (Gordon) Xu, PhD</td>
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<td>Timothy Dondlinger</td>
<td>Nancy Obuchowski, PhD</td>
<td>Gudrun Zahlmann, PhD</td>
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<td>Bradley Erickson, MD, PhD</td>
<td>David Purdy, PhD</td>
<td>Yuxiang Zhou, PhD</td>
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Moderator: Dr. Rosen

Round 6 Proposals (Dr. Rosen, et al.)

- When defining the scope of each project, PIs need to take into account that funding is for only a one-year period
- DCE-TF B1 Phantom/Mapping Project  
  - The need for a B1 phantom was identified for assessing cross-vendor B1 mapping techniques
  - PIs with a plan to move forward are needed for this project
  - Ultimate goal of this B1 project
    - Develop a phantom reflective of true anatomy
    - B1 correction of T1 maps
    - Two considerations for comparison of cross-vendor techniques for B1 mapping are algorithms and maps
    - The Profiles of other QIBA groups may benefit from this information on B1 mapping
  - Information resulting from this project will be incorporated into the DCE Profile v2.0
  - B1 phantom to contain anatomically relevant dimensions and features (e.g. can we model air/bone interfaces) and the possibility of B1 and T1 measurement in a single phantom
  - The initial step will be to evaluate the potential to modify the existing DCE phantom (created in Round 1 by Dr. Jackson) to meet the needs for B1 measurement
  - Dr. Jackson is looking into the potential reuse of existing phantoms and offered to provide assistance to PIs on this project
  - Dr. Coolens & Mr. Bosca have also been discussing possibilities of using an existing phantom and repurposing it for this B1 mapping project

- Cross-modality Systematic Literature Review Process (Dr Wu):
  - Systematic literature reviews have been initiated by both DCE and DSC TFs and leaders plan to author a paper about their process
  - This project may be presented as a cross-modality proposal
  - Drs. Wu and Laue (project PIs) will discuss use of software that would make their efforts sustainable beyond one year of funding

- DSC-focused DRO (Dr Erickson):
  - Although Dr Erickson has submitted a RO1 to pursue a superset project, an opportunity exists to collect and organize data on a dedicated website making the DSC-DRO data a useful research reference
  - This would be a data/image registry-type project, not necessarily advancing the science
  - A DSC DRO project of any type would be helpful in moving the DSC Profile forward
  - PIs on this project would be Dr. Erickson and a medical physicist colleague of his
• DSC Phantom (Dr. Xu):
  o Dr. Xu proposed a 4th possible Round-6 proposal to create a phantom to analyze gradient nonlinearity contributions to ADC maps in DWI
  o This is somewhat similar to Dr. Chenevert’s current RO1, but Modus already has a phantom for this purpose

• The Round-6 submission process was outlined:
  o The proposal deadline is 4/15 (proposal form and budget sheet to be completed)
  o Because QIBA has continued to grow, the funding process may be more competitive
  o Project ideas should be solidified and the scope of each project should be defined by the next PDF-MRI call on March 30
  o Projects are to be submitted to BC leaders for input and feedback asap (March/early April)
  o Projects then move forward to CCs for review
  o Each CC reviews proposals and sends questions to PIs
  o Where required, PIs revise and re-submit proposals to CCs
  o Projects will be reviewed at the next bi-annual Cross-modality CC Leadership call in June
  o CC prioritization of all projects with recommendations will be presented to the Steering Committee for final consideration

Agenda Items Tabled until Next Call:
• Round-5 Updates
• B1 Correction – DCE TF Vendor Survey
• ECOG-ACRIN/QIN Project

Next PDF-MRI Biomarker Committee Call: March 30, 2016 at 11 AM CDT