QIBA MRE Biomarker Committee Call  
Tuesday, April 14, 2015 at 3 PM CT  
Call Summary

Participants
- Patricia Cole, PhD, MD (Co-Chair)  
- Richard Ehman, MD (Co-Chair)  
- Edward Ashton, PhD  
- Alexander Guimaraes, MD, PhD  
- Nancy Obuchowski, PhD  
- Mark Palmeri, MD, PhD  
- Suraj Serai, PhD  
- Sudhakar Venkatesh, MD  
- Joe Koudelik  
- Susan Weinmann

RSNA
- Nancy Obuchowski, PhD  
- Gudrun Zahlmann, PhD

Discussion
- Dr. Obuchowski was introduced to the group, and offered her statistical expertise
- Dr. Obuchowski explained what other biomarker committees are doing in regard to metrics selection and structuring claims statements and discussed the implications of using cross-sectional and longitudinal claims
- A decision chart that could assist the group in understanding which performance metric(s) should be used in specific use cases was reviewed
- No reference standard, or ground truth, exists for liver stiffness in humans
- Five test scenarios and minimum compliance requirements for both cross-sectional and longitudinal claims were presented
- Dr. Obuchowski explained that other biomarker committees have reworded their claims – they want to know not only whether there is a change, but the magnitude of change as well
- The committee needs to decide whether they want to pursue the magnitude of change for their first Profile
- A two-phase approach was proposed, wherein:
  - Phase I: longitudinal claim (allow one year)
  - Phase II: refinement
- Literature will need to be used to guide the first phase
- The second Profile iteration will be easier than the first

Next steps / Action Items:
- Dr. Obuchowski’s presentation slides from this meeting will be distributed to the group
- The next MRE BC call will be scheduled after the QIBA Annual Meeting
- Group members to focus on literature review based on repeatability studies
- References may be emailed to Susan Weinmann, RSNA Staff: sweinmann@rsna.org
- Susan is currently maintaining a citation list that will be posted to the QIBA wiki
- The group agreed to read through the articles and then invite Dr. Obuchowski to the next meeting for further discussion
- An efficient process for studying all of the articles was proposed:
  - An initial survey to determine which articles to include in meta-analysis
  - Assign two people to each paper
  - Track the information in a spreadsheet
  - Both people collaborate to discuss how they interpreted the data
  - The group will reconvene to discuss findings in-person at the QIBA Annual Meeting