

QIBA Contrast Enhanced Ultrasound (CEUS) Biomarker Committee (BC) Call

Friday, March 8, 2019; 11 AM CT

Call Summary

Additional notes provided by Dr. Averkiou

In attendance

Mike Averkiou, PhD (Co-Chair)	Eric Juang	Lihong Pan, PhD
Paul Carson, PhD	Reinhard Kubale, MD	Thierry Rognard
Christian Greis, PhD	Zaiyang Long, PhD	Theresa Tuthill, PhD
Tim Hall, PhD	Wayne Monsky, MD, PhD	Stephanie Wilson, MD

RSNA

Joe Koudelik
Julie Lisiecki

Moderator: Dr. Averkiou

Discussion items:

- The analysis for the variability study has been completed and no more data are being collected (data will eventually be made available to anyone interested). The variability results were reviewed.
- The amplitude standardization procedure was presented and discussed. More discussion is needed on the specific parameters (including bubble concentration) for this approach. Most participants were in agreement with this approach. There were no objections or concerns.
- Vuebox and Siemens are evaluating the slightly higher amplitude variability with the new Siemens Acuson Sequoia system
- Results for typical TIC curves were shared with all BC members
- The phantom setup can be reviewed [here](#)
 - Four systems have been used for comparison: iu22, EpiQ, GE LOGIQ E9, and Siemens Acuson Sequoia
- The goal of the variability study is standardization and to determine what needs to be adjusted among systems, software, etc., in order to provide reproducible results; the study is not a performance comparison of systems or analysis software packages.
- Technical specifications will be standardized in efforts to improve clinical performance

Proposed Next Steps / Action items:

- Dr. Averkiou plans to send an email to BC members asking for a BC consensus vote to adopt the prescribed calibration method discussed on the last few calls
- He has provided wording for BC members to review, including the proposed amplitude standardization steps
- Feedback on the proposed amplitude standardization from industry partners would be appreciated **by April 5th** to Dr. Averkiou: MAverk@uw.edu.
- The QIBA Sustainability Implementation Group (SIG) has drafted a letter to request support from Pharma and iCROs
- BCs were requested to identify fundable groundwork projects that would enhance Profile development in the range of ~\$50k-\$150k
- Proposals for funded groundwork projects may be sent to Drs. Hall, Garra, and Carson **prior to the next CEUS BC call on April 12th**: tjhall@wisc.edu; bgarra@gmail.com; Brian.Garra@fda.hhs.gov; pcarson@umich.edu

The next scheduled QIBA ultrasound calls will be as follows at 11 am CT:

- **4/12/2019** CEUS BC call
 - (no SWS call due to AIUM, though a f2f meeting will occur at AIUM)
- **4/26/2019** US Coordinating Committee, Quarter 2 call

RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible Call participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries.