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

Friday, November 9, 2018; 11 AM CT

Call Summary

In attendance			**RSNA**
Mike Averkiou, PhD (Co-Chair)	Ged Harrison	Shigeto Ono	Joe Koudelik
Todd Erpelding, PhD, MSE (Co-Chair)	Hui Jiang, PhD	Lihong Pan, PhD	Julie Lisiecki
Paul Carson, PhD	Ravi Managuli, PhD	Thierry Rognard	
	Nancy Obuchowski, PhD	Theresa Tuthill, PhD	

Moderator: Dr. Averkiou

RSNA 2018 Poster Reviewed:

- Dr. Averkiou encouraged BC members to sign up for the Meet-the-Expert poster sessions
- Content updates to the RSNA 2018 poster included:
  - Background information regarding standardization and a reduction in variance between systems
  - A more detailed schematic of the phantom set-up including:
    - Flow phantom
    - Agent handling
    - TIC curves (similar to TIC curves for liver scans)
    - Liver scans with injected microbubbles

Talking Points for the RSNA / QIBA f2f Meeting:

- Clarify that the CEUS Profile focus is on the coefficient of variability associated with intra-scanner, not inter-scanner, test-retest results
  - The test is not a systems test; it is meant to be a standardization test to provide reproducible results
  - No decision has been made regarding an acquisition protocol, though any insights obtained will be added
- Emphasize how to get the same information from every system and extract the same parameters
- Discuss the current status of the CEUS investigations particularly with regard to amplitude corrections
  - Summarize amplitude variability with a given system
  - If possible, have a BC member phone Dr. Averkiou on their cell phone so that he can listen in

Next steps:

- More systems testing to address the amplitude and standardization issues
- Analyze data and determine from where the variability is coming
- The investigative focus will need to turn from phantom to clinical work as progress is made
- Results will be used to draft an acquisition protocol, which will be added to the Profile and published
- Details for the acquisition protocol will include:
  - Pump settings
  - Liquid concentration levels
  - Detailed instructions and measurements to replicate the phantom experiment
- Dr. Erpelding requested that Dr. Averkiou share current protocol details with BC members who would like to try the phantom experiment
  - It was noted that phantom scanning typically takes an estimated 2-4 weeks per site
- Dr. Pan had a question regarding standardization of the linear curve, which may require additional discussion

QIBA Working Meeting and Meet-the-Experts Sessions at RSNA 2018

- All are encouraged to RSVP for the QIBA Working Meeting on Wednesday, November 28th
- All are invited to volunteer for Meet-the-Expert session times

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WebEx Calls: **Dec 7**: US Coordinating Committee

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