

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

Friday, February 24, 2017; 11 AM CT

Call Summary

In attendance			RSNA
Mike Averkiou, PhD (Co-Chair)	Todd Erpelding, PhD, MSE	Beth McCarville, MD	Julie Lisiecki
Paul Carson, PhD	Tim Hall, PhD	Nancy Obuchowski, PhD	
Shigao Chen, PhD	Kirstin LaConte	Theresa Tuthill, PhD	
David Cosgrove, MD	Ying Luan, PhD	Nikolay Tzaribachev, MD	

Moderator: Dr. Averkiou

CEUS Task Force (TF) Updates (Dr. Averkiou)

- A summary of recent Quantification Analysis Software and Literature Review TF calls was provided
- A [doodle poll](#) was sent out to TF members to determine the first meeting of each group
- Upcoming meetings are scheduled for March 9th; WebEx details will be distributed soon

Scheduling

- A more amenable time for European TF participants is under consideration, RSNA Staff will try to find some open time slots earlier in the day for regular TF calls
- Once TFs become more active, alternate methods of collaboration can be considered, e.g., [Google docs](#) or [Dropbox](#)
- It was also suggested that WebEx calls could be recorded, pending approval from QIBA leadership/participants,
- More vendor participation needed on the calls

Literature Search / Profile

- [Sara Keller](#) at UW has volunteered to serve as the Mendeley “librarian” for the CEUS citation listings and PDF articles on [Mendeley](#)
- The library is public now and anyone with a Mendeley account can log in
- Anyone adding papers is asked to categorize and tag items as they are added
- Dr. Averkiou and Sara Keller plan to privatize the Mendeley database soon and suggest that all new interested participants watch short video tutorials (2-3 minutes each)
 - Anyone interested in joining the Mendeley group can email RSNA Staff at jlisiecki@rsna.org

Quantification of Analysis Software TF

- The following must be considered:
 1. Linearization of data
 2. Software may be either online or offline
 - A checklist including parameters for the different software manufacturers is being developed by Dr. Averkiou, for review
 - Drs. Averkiou and Hoyt will make phantoms available for groundwork studies
 - The goal will be to use software that works on multiple systems for multiple tasks, capable of generating the same output data
 - Dr. Hall stressed that it will be important to select parameters that are system-independent
 3. Curve fit model
 4. What quantification parameters to extract
 5. Comparison between results from different software
 6. Industry participation is critical
 7. It has been decided that the first clinical application will be the liver, and phantom data will be used

- For more detail, please see Dr. Averkiou's notes on the [QIBA wiki](#)

DCE-MRI Collaboration

- Dr. Tzaribachev mentioned that collaboration with [QIBA DCE-MRI](#) might prove helpful with respect to the group's dynamic range questions and determining how parameters are extracted and measurements are performed
- He intends to follow up with Dr. Laue regarding this topic and will report back findings to Dr. Averkiou
- Dr. McCarville also volunteered to connect Dr. Tzaribachev with a colleague who has similar experience with DCE-MRI
 - RSNA Staff to provide contact emails

Ultrasound CEUS BC QIBA wiki page: http://qibawiki.rsna.org/index.php/Ultrasound_CEUS_BC

WebEx Calls:

Please **SAVE-the-DATES** for the following CEUS Task Forces – per doodle poll results:
{Dates / times may change per co-chair preference.}

- Imaging Systems: Thursday, **March 9th** @ 1 pm CT
 - Basic Science: Thursday, **March 9th** @ 3 pm CT
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- **Mar 03:** US Systems/ Phantom Task Force (Dr. Wear, *pending availability*)
 - **Mar 10:** US SWS Clinical Task Force (Dr. Samir, *pending availability*)
 - **Mar 17:** US SWS Biomarker Committee (Dr. Garra, *pending availability*)
 - **Mar 24:** CEUS BC (*Moderator TBD*)
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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.