



AIUM/QIBA  
Ultrasound Volume Blood Flow  
Biomarker

CALL SUMMARY - 01-05-2017

Attendance:

Brian Fowlkes, Oliver Kripfgans, Ted Lynch, Jon Rubin, Paul Carson, Ted Hall, Steven Pinter, Jeng Gao, Shigao Chen, Ravi, Inder, Maryjean (Gammex), Matt Bruce, AIUM Staff - Kathi Minton

I. Review by Brian Fowlkes

- Discussed when the phantom would be available. The phantom is heading to Birmingham, Alabama the middle of this month.. Discussed where it should go next and when and who is going.

II. Discussion, Today's Agenda

- Brian discussed what is on the agenda for today's meeting. Paul Carson asked for the group to provide him with bullet points on the progress for the upcoming QIBA conference in May. Oliver has updates related to the work he is doing on the Siemen platform. Brian has updates related to another possible platform that they can use in the future. Ravi is interested in discussing what the schedule is for the next site. No one else had any other topics for discussion.

III. Discussion on General Updates

- Brian talked about the round robin that is scheduled to go to Birmingham, Alabama on May 16-17th . Steven is headed down. Michele Robbin could not be on the call today. The phantom is scheduled to go there. A second phantom is in the lab now and being checked out. They will do a side by side comparison before it ships to Birmingham. Brian explains that this gives them the latitude to send things out to other places more quickly and also to make sure we have the manpower. No other general updates were added.

#### IV. Discussion on Phantom testing, Ultrasound machines (Platforms)

- Oliver has questions for Jeng Gao from Cornell. She is doing the work on the Siemens scanner. No one is the phone call who will participate using the GE logic 9. Tim Hall said he was not aware of any plans to do testing on the phantom in Wisconsin. Jim Zagzebski is not on the call but does have plans for testing. Brian thought that Wisconsin could be another GE site. Maryjean from Gemmax is on the phone call and is aware that Jim Zagzebski is planning to do some testing with the phantom but does not know of any dates right now. Oliver wanted to know what systems that they will be using..They discussed bugs, screen size, macro function, scripts, and how to make it easier to collect data. Oliver will find out who will be participating with the GE logic 9 and will figure this out in his institution. Tim Hall will follow up with an email.
- Oliver discusses data from the Siemens scanner. Progress has been made. Oliver is looking at a series of data that was recorded from Siemens regarding changing gain settings on the volume flow and recommendations for setting up the machines to compute volume flow correctly. Discussed what Siemens machine and transducer was used. Oliver will follow up with this. Brian asked Oliver if he needed another Siemens site. The Siemens machine that they will use will need special software installed. Discussed about the Siemens equipment in detail. The machines need to be power tested before it can be used on human subjects. There are no plans to use human subjects as a part of the short term QIBA process. There are 3 possible sites that are in a condition for testing, Cornell, Wisconsin and U of M. All three sites will do testing on Siemens. Wisconsin may use the GE logic 9.
- Brian had a quick update that he has been working with some of his colleagues from the Voluson side of GE in Austria, on the possibility of using the e10 Platform for volume flow. This is not part of the QIBA process yet. Hopefully in the next few weeks they will have this worked out. Hitachi ultrasound machine was briefly discussed and Ravi will get more information. There was not a representative from Toshiba on the call today. Matt Bruce from Seattle said he talked to Dan Skyva and Todd at Toshiba and they are looking for some help. Oliver said that he will follow up with an email to Todd and Matt Bruce. Brian said that Toshiba is looking for another site and that all came out from the AIUM meeting. The Phillips Epic 7 with the x61 was then discussed, All the Platform were mentioned.
- One of the things they need to do for the annual meeting is to highlight the process of funding the project

#### V. Discussion, QIBA dashboard “Volume Blood Flow, Profile name: Measurement of Volume Blood Flow in Renal Transplants”

- Paul said that they were going to have a document draft ready for internal review by September 17, 2017
- Public comment version by March 2018

- Publicly Reviewed Version TBA
- Literature Publication, Submission of publication on the phantom by September 2017
- Brian discussed testing on platforms, implementation on platforms. September 2017 might not be feasible.
- Funding is only available till September.
- The group is encouraged to set a taskforce to work on the profile group. Brian said there are 2 groups, phantom and profile group.
- Excel sheet was updated by Paul Carson
- Meta-analysis Literature Aggregation June 2017, Perform Meta-analysis August 2017, Assess findings against Claim TBA
- Tim reviews the annual meeting which includes a steering meeting. At the meeting there is a discussion about the growth of QIBA and how can we fund this effort.
- Brian asks Tim and Paul what they need from us. Tim needs a sketch or images from the existing phantoms. Tim would like them to specifically address the goal and progress of the project. Tim said these are things the steering committee would want to know. Brian said this is the first time volume flow has been presented to this larger group and Tim agreed. Tim said last year they described the new biomark committee. Brian now understands what they need. Tim said this needs to be done quickly. Brian said the presentation at the AIUM and what Oliver presented. has a lot of this information on this. Tim asked Brian to share this with him. Oliver will send Tim any additional information he needs.

VI. Meeting adjourned with no action items.

- Next meeting will be scheduled for June. Kathi will set that up.