



AIUM/QIBA Ultrasound Volume Blood Flow Biomarker

Summary 19-October-2020

Attendees: Brian Fowlkes, Stephen Pinter, Cristel Baiu, CY Lee, Jim Zagzebski, Jing Gao, Jon Rubin, Megan Russ, Nicole Lafata, Ravi Managuli, Rimon Tadrass, Shriram Sethuraman, Sibol Li, Todd Erpelding. AIUM Staff - Therese Cooper

Action items in red

1. Review of Previous Call Summary

1.1. Action Items

- 1.1.1. Discussion of 2D spectral Doppler in QIBA Phantom – Stephen has the data but has not been able to evaluate it.
- 1.1.2. Draft profile for BC by September 9 (original attempt) – Draft language from the clinical group is done and draft language to be put into the profile by each of the other groups soon.
- 1.1.3. Therese to set up the profile Basecamp group to include all of the BC
- 1.1.4. Abstracts for Ground Work Studies
 - 1.1.4.1. Funding sources to be identified by QIBA leadership
 - 1.1.4.1.1. Includes NIH, NIST, etc.
 - 1.1.4.1.2. NIST has interest in a “phantom library”
 - 1.1.4.1.3. SBOR and STTR mechanisms are being considered. **If you have an idea for an abstract let Brian know.**
 - 1.1.4.2. About 100-to-250 words is typical.
 - 1.1.4.3. Deadline is somewhat flexible (originally Aug. 31)
 - 1.1.4.4. Administrative support could be provided by RSNA
 - 1.1.4.5. Possible support for proposal development

2. Update on VBF Profile Discussions

2.1. Subgroup Discussions

- 2.1.1. Clinical Rationale and Performance
 - 2.1.1.1. Mark Lockhart and Jon Rubin
 - 2.1.1.2. Update from Jon: Has draft language and already incorporated into the profile. Waiting for the other subgroups to submit. This group can't do anything more until the other subgroups finish their parts. Brian mentioned that it was

felt we couldn't cover every clinical example because the use of ultrasound would be too ubiquitous over time.

2.1.2. Quality Assurance and Phantoms

2.1.2.1. Jim Zagzebski and Shriram Sethuraman

2.1.2.2. Update from Shriram: Draft of all the sections as well as the phantom design (AV fistula, umbilical, and also a new section for general Doppler QA purposes) also a new section on training which is different than what was there previously. The intent for this groups next call would be to make a few more changes and following that call we should be able to distribute to a broader audience. Brian pointed out that accurate velocities and area for the **gausses formula**? is critical

2.1.3. Image Acquisition and Analysis

2.1.3.1. Oliver Kripfgans, Stephen Pinter, and Jim Jago (member)

2.1.3.2. Update from Stephen: Working on the profile with a lot of the content. Need to go through and fine tune and clean it up. Planning a meeting with Jim Jago to go over the image acquisition section. Progress has slowed down a little in the past couple of weeks. Content is there. One major additions image acquisition we need to add figures regarding position of the c surface relative to the transducer, sample images from different machines regarding location of the c surface and how we want the user/sonographer/radiologist position the vessel in order to make the correct estimate...these are items that require figures: Sibb has helping to collect figures to illustrate to the user what we expect in setting up the image acquisition for the user. Nothing right now that we need feedback for from the larger group. Brian stated it would be useful to get manufacturer input for those that have VF and take part of this subgroup... Brain asked how specific the steps for acquiring the data properly within the profile versus what needs to be in the manufacture protocol. Stephen answered that we can advise manufacturers to include figures in the protocol section and then include a very generic figures in the profile section. Brian said make sure the profile completely generic and would apply across the board. Stephen did answer that the text is generic and will try to carry that through to the figures as well. **(please re-read, not sure where there was confusion between profile and protocol)**

2.1.3.3. Discussed the round robin

3. Matters Arising

Next Profile meeting is October, 28, 2020.

Next VBF BC meeting TBD