



## AIUM/QIBA Ultrasound Volume Blood Flow Biomarker

### Summary 01-August-2022

Attendees: Brian Fowkles, Kourosh Kalayeh, Cristel Baiu, Jim Zagzebski, Jing Gao, Jonathan Rubin, Megan Russ, Michelle Robbin, Nicole Lafata, Paul Carson, Rimon Tadross, Oliver Kripfgans, Mark Lockhart

AIUM Staff: Haylea Weiss

1. Review of Previous Call Summary – 18-July-2022
2. Previous Action Items
  - 2.1. Abstracts for Groundwork Studies. Future plans for direct comparison between 3D volume flow and 2D volume flow in the contexts of the AVF for dialysis access. Potential for phantom studies comparing 2D and 3D directly. Megan R. is interested in contributing to groundwork studies but mentioned not having any 3D transducers. This will be a potential limitation for site participation. There is a potential of doing some Round Robin measurements at professional meetings, i.e., RSNA and AIUM. Would need to examine the logistics, recognizing that systems may not be using released software. Brian mentioned building an app in MATLAB and hopes to have that up and running in the near future.
    - 2.1.1. Consider contacting company about their ability and interest in participating in a possible round robin in the future when systems are ready.
    - 2.1.2. Also need to determine what specifically will be gained. This needs to be an effort that would be expected to result in a publishable outcome.
  - 2.2. Brian F.'s new analysis of the results from the Zonnebeld et al. reference. These results are now incorporated into the Profile text. We will need to determine if there is any additional information (appendix) that would need to be provide related to this analysis. Consider whether there might be interest by the authors in an additional related publication.
  - 2.3. Brian to set up groups to divide tasks related to reviewing section 4 in context of the rest of the profile.
  - 2.4. Kourosh will examine extracting the peak velocities throughout the tube and its value along the length of the tube.

3. Update on Phantom Modeling
  - 3.1. Review recent modeling
  - 3.2. Examine considerations for phantom construction
  
4. Update on VBF Profile Discussions
  - 4.1. Review of current draft and updates from Profile Task Group
    - 4.1.1. Profile
    - 4.1.2. Checklist
  
5. Action items

Next full BC meeting is scheduled for Monday September 5, 2022 at 12:30pm ET. **But this is Labor Day so need to consider shifting to September 12.**

Next Profile meeting is Wednesday August 10, 2022 at 10:00 am ET.