



## PULSE-ECHO QUANTITATIVE ULTRASOUND

### BIOMARKER COMMITTEE

Agenda for Friday, March 3, 2023

11:00am – 12:00pm

Attendees: Ivan Rosado-Mendez, Michael Wang, Jeffrey Bamber, Paul Carson, Guy Cloutier, Todd Erpelding, Raul Esquivel, J. Brian Fowlkes, Jing Gao, Joel Gay, Timothy Hall, Aiguo Han, Amy M. Lex, Kibo, Nam, Gary Ng, Theodore Pierce, Timothy Stiles, Theresa Tuthill, Keith Wear, Hayley Whitson, Peter Edmonds, Stefano Debeni, Scott Schoen, Marco Crocco

AIUM Staff: Kelly Phillips

TOPIC	COMMENTS	ACTION ITEMS
Introduction	Welcome (IRM) 3 min	
General Announcements	<ul style="list-style-type: none"> <li>- Transition from Basecamp to Google Drive (Kelly) 10 min</li> <li>-alternatives for communication (Slack?)</li> <li>- First meeting of profile writing group (IRM)</li> <li>- Thanks to members who have referred to PEQUS work (IRM)</li> <li>- Upcoming presentations (AIUM, UITC) (IRM)</li> </ul>	<ul style="list-style-type: none"> <li>- Ivan will send an email to the profile writing group for first call on 3/16 at 2pm ET</li> </ul>
Data Sharing	Update on data sharing with QI data warehouse (MW) 12 min	-before going with option 2, confirm with the vendors whether they are willing to take the responsibility of managing the data from their systems and uploading it to that QIDW
Work Groups	Work Group Progress Reports <ul style="list-style-type: none"> <li>a. Phantom (10 min)</li> <li>-Updates on phantom status (MGH team, TL)</li> </ul>	

	-Comparison of Faran calculations for newly measured bead distributions (HW, IRM) -Update on stage 3 phantoms (GF) b. Backscatter (7 min) c. Sound Speed (7 min) d. Attenuation (7 min)	
Discussion	Open discussion 4 min	
NEXT CALL	Date: April 7, 2023 Time: 11:00am, EST	

IRM – The first meeting of the profile writing group will be Thursday 3/16 at 2pm ET

MW – shared an update and options on data sharing with QIDW

### Permission to Share for Sites

Options to ensure that study sites providing the data have the necessary permission to share:

1. Study site uploads data with vendor's permission.
  - Vendor gives permission to upload for each site using their equipment
  - Every site signs the QIDW Contributor Agreement
  
2. Site sends vendor's own data to the vendor. Vendor uploads to QIDW.
  - QIDW Contributor Agreement signed by each vendor
  - Mechanism for each site to transmit data to vendor
  - A specific folder on QIDW for each vendor for uploading which only they have access to. Vendors will not be given access to another vendor's folder.

Work group updates -

Phantom WG

- New phantoms poured (Ted L)
- Initial work on using lipid (peanut oil) in a phantom as both source of scattering and attenuation (David F)
- Updates on Faran calculations – Ivan sent glass beads to a manufacturer of a Coulter Counter and Hayley W shared results

#### Backscatter WG

- Work for phantom study
  - Confirmation of standardized BSC across 3 designated sites
    - Statistical results of comparison completed (Aiguo)
    - Good agreement shown using provided attenuation
- Work on Backscatter protocol
  - Discussion on Fuji/Vevo system which has RF access but higher frequency probes
    - Decision not to move forward as higher frequency probe would require extra work from the group computing back scatter coefficient
  - Siemens system: current process is to send RF to Siemens for BSC computation
    - Working group agreed independent computation should be made
    - Need to update protocol to acquire RF data; also will need agreements to do so
- Continuing to collect info from sites on agreements with manufacturers (Firouzeh collating)

#### Sound Speed WG

- Teddy gave MGH phantom scanning update
- Manuscript status – undergoing review
- New member – Scott Schoen, MGH/CURT
- Questions about data sharing with QIDA – addressed earlier in the meeting

#### Attenuation WG

- No updates