



**PULSE-ECHO QUANTITATIVE ULTRASOUND
BIOMARKER COMMITTEE**

Agenda for Friday, December 2, 2022

11:00am – 12:00pm

Attendees: Ivan Miguel Rosado-Mendez (Co-Chair), Anthony Samir (Co-Chair), Michael Wang, Cristel Baiu, Guy Cloutier, David Fetzer, Brian Fowlkes, Jing Gao, Tim Hall, Aiguo Han, Viksit Kumar, Roberto Lavarello, Amy Lex, Jonathan Mamou, Stephen McAleavey, Gary Ng, Arinc Ozturk, Theodore Pierce, , Stephen Rosenzweig, , Timothy Stiles, , Theresa Tuthill, Keith Wear, James Zagzebski, Nancy Obuchowski, Marco Crocco, Mark O’Leary, Baptiste Heriard, Adrien Besson,

AIUM Staff: Kelly Phillips

TOPIC	COMMENTS	ACTION ITEMS
Introduction	Welcome (IRM)	
RSNA	RSNA meeting summary (IRM)	
Next Steps	Update and next steps (IRM)	<ul style="list-style-type: none"> ○ 1. Meeting next week to go over protocols again and address anything unclear. Phantoms shipped to next site ○ 2. Ship envelopes to the next site ○ 3. Sites are receiving updated versions of the software for measuring the biomarkers from the

		different vendors. Important that the versions used are the same or that the algorithm/data acquisition strategies do not change if the system is updated. Ask vendor to provide a letter of attestation that even if the version updated, the algorithm being used is the same.
Work Groups	Work Group Progress Reports <ul style="list-style-type: none"> a. Phantom b. Backscatter c. Sound Speed d. Attenuation 	
Discussion	Open discussion	
NEXT CALL	Date: January 6, 2023 Time: 11:00am, EST	

IRM – gave summary of what was discussed at RSNA meeting

- Instructions were posted on Basecamp for measuring cylinders
 - o Review the document and send comment to Ivan

Workgroup Updates

Backscatter WG – TT

- Work for phantom study
 - o Work on Backscatter Protocol
 - Clarified that all sites need to scan both reference phantoms
 - Discussion on setting dependency of RF data
 - On most systems the RF data are unaffected
 - Fuji system has RF access on the VisualSonics system (preclinical)
 - o Status of BSC computation
 - Two computation sites have computed BSC on Siemens S300; awaiting statistical results of comparison
 - o Continuing to collect info from sites on agreements with manufacturers (Firouzeh collating)

Phantom WG – DF

- Tim and David planning on a technical note publication and outline; initial paragraphs have been sent to Tim
- Working with initial sites looking at integrity of the phantoms – separation on the cylinders – images reviewed by Ted and shouldn't impact the acoustic properties of the center of the phantom – ok to move forward
- Phantom handling document – adding things to look for, storage, cleaning, integrity, no warming pads
- Stability of hockey pucks - membrane detaching
- Temperature – measure phantom and the room temp
- Discussed Phase 2 – join the phantom WG calls and LFQ calls if you are looking to participate

Attenuation WG – VK

- Working on phantom study protocol – did not meet last month

Sound Speed WG – TP

- Plan to have the paper submitted by the end of the month
- Protocol – troubleshooting challenges at MGH with devices and software
 - o Firouzeh is working on making some updates to the protocol for the E-scopics device
 - o Issues with Fibroscan device because it damages the phantom membrane; use of standoff pad