PULSE-ECHO QUANTITATIVE ULTRASOUND BIOMARKER COMMITTEE

Agenda for Friday, September 2, 2022

11:00am – 12:00pm

Attendees: Ivan Miguel Rosado-Mendez (Co-Chair), Anthony Samir (Co-Chair), Michael Wang, (Co-Chair), Stephane Audiere, Jeffrey Bamber, Paul L. Carson, Guy Cloutier, Aaron Engel, Raul Esquivel, David Fetzer, Jing Gao, Joel Gay, Timothy Hall, Aiguo Han, Viksit Kumar, Roberto Lavarello, Ravi Managuli, Arinc Ozturk, Theodore Pierce, Michelle L. Robbin, Jonathan Rubin, , Timothy Stiles, Theresa Tuthill, Xiaohong Wang, Keith Wear, James Zagzebski, Coz Burgan, Firouzeh Heidari, Shahid, Nancy Obuchowski,

AIUM Staff: Kelly Phillips

TOPIC	COMMENTS	ACTION ITEMS
Introduction	Welcome (IRM - 3 min)	
Round Robin study guidelines	Presentation and discussion of PEQUS Round Robin study guidelines (AS – 15 min)	Will be posted to Basecamp for comment
RF Data	Discussion on RF data sharing across sites (MW – 15 min)	Co-chairs to follow up with vendors who have RF data export capability
Work Groups	Work Group Progress Reports a. Phantom (TS/DF – 5 min) b. Backscatter (TT/AH/RL – 5 min) c. Speed of Sound (ST/TP – 5 min) d. Attenuation (GF/RB/AO/VK – 5 min)	
Discussion	Open discussion/Adjourn (IRM – 7 min)	Co-chairs to work on logisitics for shipping reimbursement

NEXT CALL	Date: October 7, 2022 Time: 11:00am, EST	

IRM – General Announcements

- Proof of position paper received and addressed. Waiting for publication.
- Phantoms @ UW Madison
  - R&R assessment of 1st set of phantoms concluded (3 appraisers)
  - 1st set of phantoms to be sent to MGH today
  - 2nd set required fixing scanning window
  - References required wells for coupling medium
- Currently measuring BSCs

- Round Robin study is delayed by about 3 months – an updated schedule will be sent out

AS – Reviewed the Round Robin study guidelines

- Will post to Basecamp for comments
- Reach out to co-chairs with any issues/questions

MW - RF Data

- Identified an issue with sharing of RF data – only available on vendor systems with a research agreement most of the time – current proposal is to upload RF data to RSNA Quantitative data warehouse and restrict access to academic sites doing backscatter analysis (3 sites)
  - Sharing with 3 academic sites that do not have a research agreement may cause a problem – unique situation – will need to follow up with vendors who have RF data export capabilities and confirm whether data can be shared with those academic sites

- FH - Just a quick update on RF/IQ data. Currently, we've only received final responses from two vendors that they are willing to provide RF/IQ data. One needs to check with their team and the other one can provide the complex I/Q data, but they can't provide the code. The rest don't have the possibility, or they are not willing to participate.

Work Group Updates

DF – Phantom WG

- No additional updates from the group
- IRM – phantom C has half of BSC that final specs included (discrepancy)

TT – Backscatter WG

- Radiology paper – awaiting publication
- Work for phantom study
    - Proceeding with manual for RF collection; only slight tweak since no results recorded
    - Status of BSC computation
        - Roberto shared data with Aiguo and Claude (total of 3 computation sites)
        - Data has been collected with both a linear and a curvilinear array, with three different phantoms
        - Document created that describes the properties of the phantoms and the compensation for transmission via the protective layers in front of the phantoms
        - Collecting additional info from site on agreements with manufacturers (Firouzeh collating)

TP – Sound Speed WG

- plan to resubmit manuscript to UMB

VK – Attenuation WG

- Discussions about depth, elevational plane colliding with walls of the phantom – updated protocol posted to Basecamp
- Study includes 2 appraisers and 2 trials