



PULSE-ECHO QUANTITATIVE ULTRASOUND

BIOMARKER COMMITTEE

Agenda for Friday, July 7, 2023

11:00am – 12:00pm

Attendees: Ivan Rosado-Mendez, Michael Wang, Stephane Audiere, Richard Barr, Paul Carson, Anil Chauhan, Guy Cloutier, Marco Crocco, Todd Erpelding, Raul Esquivel Sirvant, David Fetzer, Brian Fowlkes, Jing Gao, Aiguo Han, Yassin Labyed, Amy Lex, Stephen McAleavey, Kibo Nam, Gary Ng, Arinc Ozturk, Theodore Pierce, Michelle Robbin, Stephen Rosenzweig, Jonathan Rubin, Paul Sidhu, Xiaohong Wang, Keith Wear, Jim Zagzebski, Peter Edmonds, Nancy Obuchowski, Hayley Whitson, Gudrun Zahlmann, Stefano de beni,

AIUM Staff: Kelly Phillips

TOPIC	COMMENTS	ACTION ITEMS
Introduction	Welcome (IRM)	
RSNA	RSNA refocusing of QIBA (IRM)	
Phantom Study	Update on phantom study (IRM) <ul style="list-style-type: none"> a. New leadership positions b. Status of phantom shipping c. Discussion on ROI statistics (mean vs. median) 	Share the protocol manager opportunity with trainees
Work Groups	Work Group Progress Reports <ul style="list-style-type: none"> a. Phantom b. Backscatter c. Attenuation d. Sound Speed e. Profile 	

Discussion	Open discussion	
NEXT CALL	Date: August 4, 2023 Time: 11:00am, EST	

IRM – Announcements

- RSNA quantitative imaging initiatives will be overseen by a new RSNA committee, the Quantitative Imaging Committee (QUIC)
 - Current structure of QIBA will end at the end of this calendar year
- Transition will occur within the next 6 months
- PEQUS ground work and profile drafting plans will continue as planned
- We will share more information as the transition evolves

Updates on phantom study

- Phantom shipping status
 - Set 1 @site 5:
 - Currently at University of Kansas Medical Center (A. Chauhan)
 - Next site is Rocky Vista University (K. Nam)
 - Set 2 @ site 4
 - Currently at Thomas Jefferson University (K. Nam)
 - Next site is University of Michigan (J. Rubin)
 - Reminder: Request shipping reimbursements
- Reviewed some challenges
 - Protocols are missing important information regarding:
 - How to adjust the TGC/gain
 - Report the mean vs. the median of ROI values
 - Not all sites have calibrated scales for weighing the phantoms
 - ROIs may not fit within the attenuation color maps

New Leadership Positions

- Protocol managers: F. Heidari + NEW
- Database curators: A. Ozturk and A. Chauhan

Work Group Updates

Sound Speed – TP

- Submitted review paper and accepted in UMB
- Claims profile development

Backscatter – AH

- Discussion about reverberation caused by echoes that look like bubbles in phantom A1
- MW to share the data set

Attenuation – AO

- Discussed the possibility of using the same claims as used in the profile; converge claims to attenuation? Will FU

Phantom – DF

- Continue to work with sites handling phantoms
- Planning a technical paper
- Continuing work on next generation of lipid particle based phantoms at UT Southwestern

Profile - IRM

- Defining what claims apply to each biomarker – deadline was 6/30
- Defining what claims can be completed with available information from literature review
- Defining need of systematic literature review/meta-analysis for compiling information
- Defining what claims will need to be drawn from the phantom study