



PULSE-ECHO QUANTITATIVE ULTRASOUND

BIOMARKER COMMITTEE

Agenda for Friday, April 2, 2021

11:00am – 12:00pm

Attendees: Ivan Miguel Rosado-Mendez (Co-Chair), Anthony Samir (Co-Chair), Michael Wang, (Co-Chair), Stephane Audiere, Cristel Baiu, Richard G. Barr, Paul L. Carson, Anil Chauhan, Yuling Chen, Aaron Engel, Todd Erpelding, Giovanna Ferraioli, David Fetzer, Jing Gao, Joel Gay, Zaegyoo Hah, Timothy Hall, Aiguo Han, Viksit Kumar, Roberto Lavarello, Amy M. Lex, Ted Lynch, Jonathan Mamou, Ravi Managuli, Stephen McAleavey, Kibo Nam, Gary Ng, Juvenal Ormachea, Soufiane Ouhda, Arinc Ozturk, Theodore Pierce, Michelle L. Robbin, Stephen Rosenzweig, Jonathan Rubin, Laurent Sandrin, Paul Sidhu, Timothy Stiles, Michael Thornton, Theresa Tuthill, Xiaohong Wang, Keith Wear, James Zagzebski, Nancy Obuchowski,

AIUM Staff: Kelly Phillips

AS: Anthony Samir

IRM: Ivan Rosado-Mendez

MW: Michael Wang

TOPIC	COMMENTS	ACTION ITEMS
Introduction	Welcome (IRM)	
Publication	Publication List (MW)	<ul style="list-style-type: none"> Members: Make comments, critiques, WG nominate 1 volunteer to work on position paper

Work Groups	<p>Work groups progress reports</p> <ul style="list-style-type: none"> • Attenuation WG (VK, AO, RB, GF) • Backscatter WG (AH, RL, TT) • Sound Speed WG (SR, TP) • Phantom WG (TS, DF) 	<ul style="list-style-type: none"> ○ Attenuation and Backscatter: meet to discuss attenuation compensation methods ○ Leadership (for Backscatter): make sure all vendors have addressed whether they can compute backscatter ○ All WGs: define leading authors for publications ○ Phantom WG: Discussion on containers and guidelines for phantom handling
Open Discussion	Open Discussion	<ul style="list-style-type: none"> ○ Contact QIBA leadership regarding disclosing vendors and measurements
NEXT CALL	<p>Date: May 7, 2021 Time: 11:00am, EST</p>	

- IRM: List of 9 possible publications focusing on different aspects and stages of the work of PEQUS
 - First position paper - joint publication with AIUM Liver Fat Quantification Task Force
 - Goal is to describe the goals of the 2 groups and the planned strategy to achieve the goals
 - Document shared on Basecamp
 - AS: Possible the publication plan will need to change as we go
- VK – Attenuation WG Summary
 - Drafted the first claims
 - Claim 1 – Biomarker Accuracy and Precision
 - Measuring, clinical application, reference standard, bias, precision, variables
 - Claim 2 – Biomarker Change

- Relates to intra and inter-user variability within phantoms – limitation of attenuation range, measurement protocol, patient population, what we are expecting to measure
 - Need to flesh out claims in more detail
- SR – Sound Speed WG Summary
 - Revised versions of draft summary
 - Follow up vendor survey
 - To do: finalized draft summary, summarize follow up vendor survey responses; formalize initial claims based on literature review
 - IRM: Is this WG planning to work on a publication?
 - SR: yes we are working on it
- TT – Backscatter WG Summary
 - Questions on attenuation
 - BSC has to be supported by total attenuation
 - Needs to be addressed
 - Aiguo finalized recommendation for RF data acquisition protocol
 - Drafting questions for vendors
 - Are they willing to provide RF data for outside calculations? Access to RF data?
 - To do: Feedback from vendors; continue work on summary document
- TS – Phantom WG Summary
 - Phantom properties finalized
 - Ongoing - -
 - Finalize recipes for phantom materials
 - Beads
 - Measurements of transmission of window material
 - Start production; timeline
 - Shipping containers
 - Handling guidelines
 - Begin summary document

Open Discussion

AO: Target journals for planned publications?

IRM: Considering Radiology or JUM for first position paper; others up to the working groups to decide where they feel the findings would be better transmitted to the public

KW: Often approach the journal ahead of time to gauge interest before submitting publications

IRM: Radiology and JUM will be approached regarding the position paper; great suggestion for the others

KW: Two ways to do round robin: Map each data point to the lab/manufacturer who contributed that data point; completely blind so information is not traceable - - Which are we using?

RB: Liver stiffness data was submitted to Radiology and they refused to publish the paper unless each vendor was assigned its own data set; Paper published in JUM to retain anonymity of vendors; Assume same thing would happen again with our study