



**PULSE-ECHO QUANTITATIVE ULTRASOUND
BIOMARKER COMMITTEE**

*Agenda for Friday, January 7, 2022
11:00am – 12:00pm*

Attendees: Ivan Miguel Rosado-Mendez (Co-Chair), Anthony Samir (Co-Chair), Michael Wang, (Co-Chair), Stephane Audiere, Cristel Baiu, Jeffrey Bamber, Richard G. Barr, Paul L. Carson, Guy Cloutier, Todd Erpelding, Raul Esquivel, David Fetzer, J. Brian Fowlkes, Jing Gao, Joel Gay, Timothy Hall, Aiguo Han, Viksit Kumar, Roberto Lavarello, Amy M. Lex, Tian Liu, Jonathan Mamou, Ravi Managuli, Stephen McAleavey, Kibo Nam, Gary Ng, Arinc Ozturk, Theodore Pierce, Michelle L. Robbin, Stephen Rosenzweig, Jonathan Rubin, Laurent Sandrin, Paul Sidhu, Timothy Stiles, Michael Thornton, Theresa Tuthill, Keith Wear, James Zagzebski, Firouzeh Heidari, Peter Edmonds, Hayley Whitson, Nancy Obuchowski

AIUM Staff: Kelly Phillips

TOPIC	COMMENTS	ACTION ITEMS
Introduction	Welcome (MW - 3 min)	
Position Paper	Update on Position Paper (IRM, DF – 3 min)	IRM – requesting help from membership of biomarker committee to provide images from patients using the fibroscan, fuji hitachi, Samsung, Mindray, and E-scopics; if vendors or clinicians have images, please send those along
Scanning Protocols	Update on scanning protocols (FH, AO, AS – 7 min)	FH - send follow up email to clients to see if there are any questions or need assistance; no reply from 7

		IRM - next steps are to merge the instructions provided by the working group with the instructions from each of the vendors
Work Groups	Work Group Progress Reports <ul style="list-style-type: none"> a. Phantom (10 min) b. Backscatter (10 min) c. Sound Speed (10 min) d. Attenuation (10 min) – Finalized phantom specs 	
Closing	Closing remarks/discussion (MW - 5 min)	
NEXT CALL	Date: February 4, 2022 Time: 11:00am, EST	

Phantom WG

TS –

Ongoing Work

- Small meeting with CIRS and Sun Nuclear to discuss acoustic window material and production
 - Both are now owned by Mirion Technologies
- Chose the “metallized plastic composite” window that Sun Nuclear currently uses on production phantoms
- Sun Nuclear will produce phantom container for both sets of phantoms
- Work progressing on manuscript summarizing Phantom Design

Goals for this month

- Draft of manuscript
- With finalized specifications, assist logistics of scheduling phantom production and shipping

Backscatter WG

TT –

Manuscript

- Major efforts on draft for Radiology (led by Keith Wear)
- Collecting figures

Attenuation Compensation

- Anil Chauhan analyzing (fat/muscle annotation) from images provided by Dr. Barr

Sound Speed WG

SR –

Measurement Protocol/Spreadsheet

- SoS Imaging manual in progress
- Vendors/systems/transducers/ROI recommendations finalized

Manuscript Status

- Compounding methods section completed
- Edits and figure selection ongoing
- Final section (Technical Sources of Variability) in progress

Attenuation WG

VK –

Update

- Waiting for response from vendors providing center frequency and bandwidth used in their devices
- Preparing draft for phantom study protocol
- Proof reading Radiology paper. Should be online later this month

Action Items

- Consensus on reporting attenuation value
- Discuss and finalize the phantom study protocol