

QIBA Ultrasound Shear Wave Speed (SWS) Technical Committee

Friday February 8, 2013; 11 AM CT

Call Summary

In attendance

Tim J. Hall, PhD (Co-Chair)

Brian Garra, MD (Co-Chair)

Andy Milkowski, MS (Co-Chair)

Kaisar Alam, PhD

Michael Andre, PhD

Jeffrey Bamber, PhD

Jeremy Bercoff, PhD

Paul Carson, PhD

Shigao Chen, PhD

Elaine Collins, RDMS

David Cosgrove, MD

Steven Fick, PhD

Alpana Harisinghani, MD

Christopher Hazard, PhD

Ted Lynch, PhD

Ravi Managuli, PhD, RDMS

Thomas R. Nelson, PhD

Kathy Nightingale, PhD

Mark Palmeri, MD, PhD

Nicolas Rognin, MSc, PhD

Laurent Sandrin, PhD

Cedric Schmitt, PhD

Daniel C. Sullivan, MD

Keith Wear, PhD

Hua Xie, PhD

Jim Zagzebski, PhD

Bajram Zeqiri, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Hall

Agenda: Friday, February 8, 2013; 11 AM CT

1. Status of the Phase I Phantom study of cross-platform shear wave speed measurements
2. Timeline for completion of scanning with imaging systems
3. Plans for data analysis and reporting
4. Plans for funding this effort
5. Plans for the Phase II Phantom study
6. Proposed materials for Phase II phantoms

Updates on the Phantom Study Project – Phase I

- Dr. Nightingale reported findings from initial measurements performed on phantoms at Duke University
- The goal of these measurements was to evaluate phantom uniformity, not algorithm variability
- Results showed that the phantoms were quite uniform and very close in all depth measurements (e.g., within 5%), with only 2 outliers, one of which was the larger MRE phantom
- It was recommended that that phantoms be weighed and also that measurements be aimed at the center of the phantoms
- Domestic shipments have all been delivered; two shipments to France have been delayed in customs due to paperwork
- All participants are requested to complete the measurements within a week of phantom delivery
- Care should be taken with the force used to press down on the transducer; phantoms should be kept in a Ziploc bag when not in use
- It was decided to use only adult measurement settings at this time
- Mr. Milkowski and Dr. Garra will provide a new randomization table for the two different types of phantoms (soft vs. stiff)
- Mr. Milkowski to provide revised draft protocol for measurement and reporting for circulation to tech committee.
- Consideration is being given to returning phantoms to Duke (at shipper's expense) for follow-up inter-phantom measurements
- The group also discussed sending an additional "small" phantom to Mayo/ Dr. Chen for additional site data

Action items

- Dr. Garra and Mr. Milkowski to follow up regarding updates to the measurement spreadsheet in Excel, randomization, and the revised draft protocol for measurement and reporting

Subcommittee Updates: Detailed project updates may be found on each subcommittee's page: [QIBA wiki](#)

RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible. Call participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries. [QIBA wiki](#)