

## QIBA Ultrasound Shear Wave Speed (SWS) Technical Committee

Friday, October 11, 2013; 11 AM CT

### Call Summary

#### In attendance

Brian Garra, MD (Co-Chair)

Timothy J. Hall, PhD (Co-Chair)

Andy Milkowski, MS (Co-Chair)

Kaisar Alam, PhD

Michael Andre, PhD

Paul Carson, PhD

David Cosgrove, MD

Gilles Guenette, RDMS, RDCS, RVT

Alpana Harisinghani, MD

Ted Lynch, PhD

Ernest Madsen, PhD

Kathy Nightingale, PhD

Mark Palmeri, MD, PhD

Cedric Schmitt, PhD

Daniel Sullivan, MD

Matthew Urban, PhD

Keith Wear, PhD

Hua Xie, PhD

#### RSNA

Fiona Miller

Julie Lisiecki

**Moderator:** Dr. Garra

#### General Discussion

Summary from September 9, 2013 Tech Cttee t-con was approved as written for posting on the QIBA wiki.

#### Preparation for Phantom Study – Phase II

There will be two sets of phantoms for this next phase:

- The FDA will purchase two phantoms from CIRS, Inc. with allocated funds
  - One stiff and one soft phantom with approximately the same lossiness have been ordered.
- Siemens will purchase one set of phantoms produced by Dr. Madsen at the University of Wisconsin, Madison.
  - Two identical phantoms (one for control)

To aid in understanding the differences in results from multiple participant sites

A preliminary consensus protocol to reduce inconsistencies is desired prior to beginning the experiment

Test objects will have serial numbers for more accurate tracking

The phantoms will need to be large enough for MR and DMA applications

- Suggested size was 10 x 10 x 20 cm of lossy material
- Dr. Madsen needs some additional geometry specifications for Rheolution: [elmadsen@wisc.edu](mailto:elmadsen@wisc.edu)

Differences between manufacturer systems were identified by the preliminary analysis; Mr. Milkowski indicated that Siemens is working toward determining what changes to implement and will report back to the group

Recommendation to use all available data and resources from previous studies for the metaanalyses

#### Update on tech committee poster for RSNA 2013

The group plans to modify and re-use the poster data that was submitted for IEEE 2013

#### Subcommittee Updates

##### System Dependencies Subcommittee Update

- Preliminary data analysis has focused on teasing apart depth viscosity characterizing spectral content of the shear wave; some discrepancies in the measurements exist
- Group is working toward a comprehensive summary for team reference and use in Phase II of the Phantom Study

##### Clinical Subcommittee Update

- Dr. Cosgrove plans to follow up with Dr. Samir and Mr. Cohen-Bacrie regarding clarification of Dr. Samir's project plan
- (If needed, a time slot is being held for Monday, October 28<sup>th</sup> at 1 pm CT.)

#### Action Items:

Dr. Garra to follow up with Dr. Lynch, et al, to resolve questions prior to next phantom call on Monday, 10/21, at 1 pm CT.

Dr. Cosgrove to follow up with Dr. Samir and Mr. Cohen-Bacrie regarding a plan for the clinical project, and to inform RSNA staff whether or not a call should be scheduled for Monday, October 28<sup>th</sup> at 1 pm CT.

Project PIs to provide any milestones or additional descriptive detail to Dr. Carson before October 20<sup>th</sup>: [pcarson@umich.edu](mailto:pcarson@umich.edu).

Poster modifications are due to RSNA staff by November 1<sup>st</sup>.

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

#### RSNA 2013 Annual Meeting - QIBA Technical Committees Working Meeting:

Wednesday, December 4<sup>th</sup> | 2:30pm – 5:00pm | Chicago, McCormick Place | Room: **N129**

Please let us know whether you plan to attend by responding to the following poll:

<http://www.doodle.com/fwf76ceggb78r75b>.

We appreciate your continued support and look forward to your participation - Thank You!

**Proposed November Call Schedule:**

<i>Date</i>	<i>Time (CT)</i>	<i>Day</i>	<i>Committee/ Subcommittee</i>	<i>Moderator</i>
11/04/2013	1:00 pm CT	Monday	US SWS Technical Committee	Dr. Hall
11/15/2013	11:00 am CT	Friday	System Dependencies Subcommittee	Dr. Wear
11/18/2013	1:00 pm CT	Monday	Phantom System Testing & Measurement Subcommittee	Dr. Garra