

QIBA Ultrasound Shear Wave Speed (SWS) Biomarker Committee

Friday, November 14, 2014; 11 AM CT

Draft call summary

In attendance

Brian Garra, MD (Co-Chair)

Timothy J. Hall, PhD (Co-Chair)

Michael André, PhD

Richard Barr, MD, PhD

Jun Chen, PhD

Shigao Chen, PhD

David Cosgrove, MD

Manish Dhyani, MD

Gilles Guennette, RDMS, RDCS, RVT

Mike MacDonald, PhD

Yasuo Miyajima, PhD

Kathy Nightingale, PhD

Anthony Samir, MD

Daniel Sullivan, MD

Matthew Urban, PhD

Michael Wang, PhD

Keith Wear, PhD

Hua Xie, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Hall

Agenda

1. Request feedback/ additional references for this year's RSNA/QIBA poster (Drs. Samir/ Dhyani)
2. Phantom Study Phase II Update
3. UPICT protocol – details needed from vendor partners
4. QIBA Working Meeting at *RSNA 2014* – Plenary Session Room: **E253AB** | Breakout Session Room for Ultrasound: **E262**

Discussion

Poster for RSNA 2014

- A near- final draft has been distributed for review
- Dr. Dhyani has requested additional feedback or references be provided to: Dhyani.Manish@mgh.harvard.edu

Phantom Study, Phase II

- Dr. Chen shared photos of the most recent phantoms which will be tested using the SSI system
- It was recommended that testers avoid the center due to depressions from the probe; Data should be unaffected, as materials are linearly elastic
- Data from the phantom studies are being used to inform the Profile, which Dr. Garra is drafting

UPICT protocol

- An updated UPICT protocol has been distributed to vendor partners; details have been provided by Toshiba
- It is hoped that other vendors will provide protocol information at the annual meeting or shortly thereafter
 - Details needed for the protocol from vendors include:
 - 1.7.1. Relative Contraindications and Remediations
 - 1.7.3. Imaging-specific Inclusion Criteria
 - 7.0 Addition information
 - 7.1.3 Data quality
 - 7.2.4 Model-Specific Parameters
 - 9.2 Methods to be used for Acquisition
 - 9.3 Additional information: Required Characteristics of Resulting Data
 - 9.4, 10.4 Platform-specific Instructions
 - 10.5 Reader Training
 - Discussion on intellectual property or patented technology info for manufacturer techniques, as concerns include:
 - not 'endorsing' a particular product
 - not disclosing patented manufacturer techniques
 - A suggested work-around solution for manufacturer protocols was:
 - referencing specific patent numbers, as these are publicly available
 - providing a succinct description of the benchmark needed for these protocols
 - Manufacturers will demonstrate that they can meet these benchmarks, akin to QIBA compliance
 - For example, Vendor A could make others aware of all patents available, without providing specific steps
 - This suggestion may require the approval of corporate lawyers

- Ultimately, the QIBA US SWS Team is working to develop the CIRS phantoms for use in compliance testing

Phantom Shipments

- Study participants are asked to provide an estimated timeline for team members following them in the queue
 - Dr. Garra requests advanced notice prior to shipping to his location to secure needed scan time and personnel
- Dr. MacDonald (GE) is interested in joining the phantom study and would like to test materials from Phase I.
 - He will pick up a Phase I phantom at UW – Madison
 - Dr. Garra would also like a Phase I phantom and will follow up with Drs. Palmeri, Nightingale, and Rouze at Duke
- **Next steps for Phase II:**
 - Philips (Bothell, WA) to Siemens (Issaquah, WA)
 - Siemens to send Set IIA phantoms to Toshiba (Redmond, WA) and / or (Tustin, CA)
 - Toshiba will then forward to Mayo (Rochester, MN)

Upcoming Schedule – {Calls Friday at 11 am CT}:

November	December
<ul style="list-style-type: none"> ▪ November 21, 2014: Clinical TFG – Dr. Samir <p>-----</p> <ul style="list-style-type: none"> ▪ November 28, 2014: No call Day after Thanksgiving (US) <p>-----</p> <ul style="list-style-type: none"> ▪ <i>RSNA 2014 begins – November 30th for attendees</i> <p>-----</p> <ul style="list-style-type: none"> ▪ December 5, 2014: No call (RSNA 2014) 	<ul style="list-style-type: none"> ▪ December 12, 2014: US SWS Biomarker Ctte Call – <ul style="list-style-type: none"> ○ De-brief from RSNA Annual Meeting ○ Discuss Phase II Phantom Study Progress <p>-----</p> <ul style="list-style-type: none"> ▪ December 19, 2014: No call (RSNA organization – wide meeting) <p>-----</p> <ul style="list-style-type: none"> ▪ <i>RSNA Offices closed – Winter Break – December 24 – January 1st</i>

[Conferences for Ultrasound](#) on QIBA Wiki have been updated (as known) for 2014 – 2015. Updates welcome.