

QIBA Ultrasound Shear Wave Speed (SWS) Technical Committee

Monday, September 17, 2012; 1 PM CT

Call Summary

In attendance

Brian Garra, MD (Co-Chair)

Tim J. Hall, PhD (Co-Chair)

Michael Andre, PhD

Paul Carson, PhD

Shigao Chen, PhD

Claude Cohen-Bacrie, MS

Elaine Collins, RDMS

David Cosgrove, MD

Steven E. Fick, PhD

Alpana Harisinghani, MD

Ted Lynch, PhD

Steve Metz, PhD

Kathy Nightingale, PhD

Mark Palmeri, MD, PhD

Nicolas Rognin, MSc, PhD

Cedric Schmitt, PhD

Gale Sisney, MD

Keith Wear, PhD

Hua Xie, PhD

RSNA

Fiona Miller

Joe Koudelik

Julie Lisecki

Moderator: Dr. Garra

- 08 24 2012 QIBA US SWS Technical Committee call summary was approved – to be posted to the QIBA wiki

RSNA 2012 Poster for Ultrasound

- The hard -copy poster is **due to RSNA by November 1st**
- First draft of the poster layout to be prepared by Mr. Cohen-Bacrie for committee review within the next two weeks
- Suggested content:
 - Introductory slides from a PowerPoint presentation for *the International Tissue Elasticity Conference*
 - Suggested focus should be technical committee projects, results and features discovered to-date
- **Action item:** Each subcommittee to send important project details **to Mr. Cohen-Bacrie by Sept 26th**.
 - Include concrete outcomes, where possible
- Recommendations for formatting:
 - Include figures, illustrations
 - Minimal text with good amount of white space for ease of reading

Mendeley Tagging Update

- Dr. Palmeri's student has tagged almost all of the papers submitted, except for the 15-10 newest
 - There are 12-15 active tags being used currently
 - Members are encouraged to email Dr. Palmeri if a tag is incorrect, rather than making a correction
 - Updating of database with tags will require 2-3 passes to make sure that associated data is correct.
 - Dr. Palmeri is tagging for confounding factors and adding these items to the spreadsheet.
 - A legend may need to be created
- A spreadsheet has been created to combine data from papers in Google Docs; this can be shared with members who provide a gmail address to Dr. Palmeri (mark.palmeri@duke.edu).
 - A standardized format for citations is needed; RSNA staff to provide boilerplate

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

Clinical Applications and Biological Targets Subcommittee Update

- Dr. Cosgrove sent two papers for group review by October 1st; Comments welcome to: d.cosgrove@csc.mrc.ac.uk
- Group working to develop guidelines on different applications under the elastography umbrella
- Goal: common reference system to compare different technologies and differentiate the frequency range
 - Feedback from Dr. Nightingale and AIUM to build a case will be helpful
 - Dr. Fick confirmed that NIST would be willing to assist with statistical support
- Group is also working on an abstract for AIUM, due by September 27th.

Phantom –System Measurement Testing Subcommittee Update

- A variety of phantom material types have been reviewed; more information regarding specific dimensions is needed:
 - Size of loss modulus to affectively test systems
 - What is being measured and how it is being measured in a variety of liver tissues
 - Cross-system multi-laboratory measurements
- Next steps are to discuss which direction should be followed by the subcommittee
 - Possibility of two materials for study and evaluation
 - Volunteer inter-laboratory comparison

System Dependencies Subcommittee Update

- Frequency ranges for different devices with most important sources or variability are needed from manufacturer representatives, including **center of frequency** and **bandwidth**
- Possibility of a reference table was suggested in order to compare phantom results generated on multiple machines

Next steps:

- References for the searchable database of papers to be sent to Dr. Palmeri: mark.palmeri@duke.edu or Dr. Wear: Keith.Wear@fda.hhs.gov .
- Clinical Applications and Biological Targets Subcommittee to discuss measurement comparison issues.
- Mr. Cohen-Bacrie to make preparations for the poster; RSNA staff to send a reminder to Subcommittee Co-Chairs
- RSNA staff to circulate a Doodle poll to the technical committee to sign up for “Meet-the-Experts” poster sessions
- RSNA staff to provide citation format

Upcoming QIBA US SWS Calls

Date	Time (CT)	Day	Committee/ Subcommittee	Moderator
09/28/2012	11:00 am CT	Friday	System Dependencies Subcommittee	Dr. Palmeri
10/01/2012	1:00 pm CT	Monday	Clinical Applications & Biological Targets Subcommittee	Dr. Samir

Conferences:

- **International Tissue Elasticity Conference (ITEC 2012): Ultrasound – Deville, France (October 2 – 5)**
 - *Dr. Hall will be giving a brief presentation on QIBA efforts.*
- **IEEE Ultrasonics Symposium – Dresden, Germany (October 7-10)**

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](#)