

**QIBA Ultrasound Shear Wave Speed (SWS)
Phantom-System Measurement Testing**
Monday, August 12, 2013; 1 PM CT
Call Summary

In attendance

Brian Garra, MD (Co-Chair)	Steven Fick, PhD	Mark Palmeri, MD, PhD
Timothy J. Hall (Co-Chair)	J�r�mie Fromageau, PhD	Anthony Samir, MD
Paul Carson, PhD	Ted Lynch, PhD	Cedric Schmitt, PhD
Shigao Chen, PhD	Stephen McAleavey, PhD	Daniel Sullivan, MD
David Cosgrove, MD	Andy Milkowski, MS	Keith Wear, PhD

RSNA

Fiona Miller
Julie Lisiecki

Agenda, August 12, 2013, Monday, 1 pm CT

1. Brief summary of key findings from elastic phantom measurement study -- Milkowski, Hall
2. Depth dependence study results -- Shigao Chen
3. Further discussion of questions - issues from the elastic phantom study --- Everyone
 - a. Failure of measurement at 7cm for one Philips system but not for another
 - b. How lossy was the material used in the elastic phantom tests? More than expected?
 - c. Are dispersion data consistent with results of mechanical measurements of the material?
4. Update on material for phase 2 phantom construction and materials --- Garra, Hall
5. Review of simulation software project and status --- Palmeri
6. Review of Clinical study project ---- Samir
7. Other items
8. Adjourn

Summary/Action Items:

Results from Phase I of the Phantom Study were presented at the July 2013 IEEE/UFCF joint symposium.

- o Preliminary analysis indicated differences existing between phantoms, thus making a gold standard difficult
- o The ultimate goal is a calibrated lossy phantom
- o The group is still working to resolve questions regarding phantom depth dependencies, as well as discrepancies between SWS systems

Drs. Palmeri and Samir presented brief overviews of their proposed QIBA research projects
Group to begin planning for experiments on lossy materials (Phase II) and create a timetable

Item for future discussion:

- o PDF Article *Multimodal Phantom of Liver Tissue* was provided by Dr. Schmitt for discussion
- o **Note from Dr. Schmitt:** *There is a need for a new material (stable, reproducible, etc.) to be used for building liver phantoms. We recently discovered a new material which is used as a multimodal phantom for US and MRI imaging. This material is a wax gel (candle gel) and is used to mimic liver tissue (see article in the attached file). I would like to share this with other members of the committee to discuss further.*

Proposed September Call Schedule:

Date	Time (CT)	Day	Committee/ Subcommittee	Moderator
9/09/2013	1:00 pm CT	Monday	US SWS Technical Committee	Mr. Milkowski
9/16/2013	1:00 pm CT	Monday	Phantom System Testing & Measurement Subcommittee	Dr. Garra
9/20/2013	11:00 am CT	Friday	System Dependencies Subcommittee	Dr. Palmeri

RSNA 2013 Annual Meeting - QIBA Technical Committees Working Meeting:

Wednesday, December 4th | 3:00pm – 5:00pm | Chicago, McCormick Place | Room: TBD

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

<http://www.doodle.com/fwf76cegg78r75b>.

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

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