

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

Friday, March 11, 2014; 11 AM CT

### Call Summary

#### In attendance

Brian Garra, MD (Co-Chair)

Tim J. Hall, PhD (Co-Chair)

Kaisar Alam, PhD

Michael Andre, PhD

Paul Carson, PhD

Jun Chen, PhD

Shigao Chen, PhD

Manish Dhyan, MD

Steven E. Fick, PhD

Jinfeng Jiang, PhD

Ted Lynch, PhD

Stephen McAleavey, PhD

Kathy Nightingale, PhD

Nicolas Rognin, MSc, PhD

Anthony Samir, MD

Daniel Sullivan, MD

Matthew Urban, PhD

Keith Wear, PhD

Hua Xie, PhD

#### RSNA

Joe Koudelik

Julie Lisiecki

**Moderators:** Dr. Garra and Dr. Hall

#### Discussion

- Drs. S. Chen and Nightingale may have a third proposal on evaluation of phantoms for QIBA funding consideration
- Current phantom funding provided by FDA (\$5k) and QIBA (\$20k via the Round-3 "Hall Project")
- Outline of phantom project:
  - Comparison of phantoms to human data at Duke and Mayo
  - Independent verification of phantom properties at Rheolution
  - Production of validated phantoms at CIRS, Inc.
    - CIRS would like to develop a "gold standard" for in-house phantom validation prior to production
  - Some of the details of the project remain unresolved:
    - Calibration metric using a function of shear wave speed
    - How to measure or determine exact shear wave speed
    - Goal to achieve a lossy material that simulates the properties of human tissue
- Overall purpose of phantom project is to drive US systems toward clinical compliance
  - Parameters used in acquisition measurements will need to be sufficiently robust for patient use
  - Helpful information to learn would include:
    - Magnitude of difference in acquisition parameter measurements
    - Variability among systems
    - System heterogeneity

#### Action Items:

- Drs. Carson and Lynch to follow up with RSNA staff regarding additional project proposal details today, 4/11.

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

#### Remaining calls for April:

Date	Time (CT)	Day	Committee/ Subcommittee	Moderator
04/18/2014	11:00 am CT	Friday	COMBINED: System Dependencies / Phantom Subcommittees	Dr. Palmeri
04/25/2014	11:00 am CT	Friday	US SWS Clinical Applications Subcommittee	Dr. Samir

#### Proposed Schedule for May:

Date	Time (CT)	Day	Committee/ Subcommittee	Moderator
05/02/2014	11:00 am CT	Friday	COMBINED: System Dependencies / Phantom Subcommittees	Dr. Wear
05/09/2014	11:00 am CT	Friday	US SWS Technical Committee	Dr. Hall
05/30/2014	11:00 am CT	Friday	US SWS Clinical Applications Subcommittee	Dr. Samir

[Conferences for Ultrasound](#) on QIBA Wiki