

QIBA Ultrasound Shear Wave Speed (SWS) Technical Committee

Monday, July 9, 2012; 1 PM CT

Call Summary

In attendance

Andrew Milkowski, MS (Co-Chair)

Michael Andre, PhD

Cristel Baiu, MS

Jeremy Bercoff, PhD

Paul L. Carson, PhD, (QIBA Sci. Coord)

Shigao Chen, PhD

David Cosgrove, MD

Steven E. Fick, PhD

Caterina M. Gallippi, PhD

Ken Hoyt, PhD

Thomas R. Nelson, PhD

Kathy Nightingale, PhD

Mark Palmeri, MD, PhD

Nicolas Rognin, MSc, PhD

Cedric Schmitt, PhD

Ron Tosh, PhD

Keith Wear, PhD

Clark Zhe Wu, PhD

RSNA

Fiona Miller

Julie Lisiecki

System Dependencies Subcommittee Update

- A database of clinical trial information is being developed by Drs. Palmeri, Wear, and Xie
 - Contributions may be sent to Dr. Palmeri: mark.palermi@duke.edu or Dr. Wear: Keith.Wear@fda.hhs.gov
- Mr. Cohen-Bacrie shared a presentation showing the differences between Doppler and elastography
- Group is working on an SWS table of factors that influence measurements
 - pure system dependencies
 - biological confounders
- Group goals include:
 1. Moving industry forward to establish commonalities for adoption of a standardized methodology
 2. Focus on deliverables
 3. Identification of the largest sources of variance with strategies to mitigate these

Clinical Applications Subcommittee Update

- Focus on the effects of pathology on data, listing their sources and quantities
 - May work in tandem with System Dependencies group to contribute to biological effort and impact on diagnosis
- A final draft of a European document regarding consistent use of different machines will soon be ready for review
 - Consideration to be given whether this can be adapted for system settings in the U.S. AIUM is being encouraged to produce a similar document.
 - Dr. Carson to recommend that AIUM Technical Standards Committee focus on standards not being addressed by QIBA
 - Dr. Cosgrove to identify reps from QIBA to work with AIUM committee
- Consideration being given to a second clinical application (steatosis)
 - Dr. Carson advised completion of current work first

ACR LI-RADS

- ACR LI-RADS (Liver Imaging Reporting and Data System) Committee is developing a system for standardized reporting and lexicon for US, CT and MR imaging for hepatocellular carcinoma (HCC), to be used for patient management.
 - Imaging standard based on pathological findings
 - UCSD is using descriptions from LI-RAD as a CAD tool that may incorporate quantitative numbers in the future
 - SWS not currently included in LI-RADS
- Dr. Michael Andre volunteered to act as an informal liaison to this ACR committee

Next steps:

- All welcome to send references to Dr. Palmeri: mark.palermi@duke.edu or Dr. Wear: Keith.Wear@fda.hhs.gov to collaborate on the formation of a searchable database of papers.

Next calls:

- Phantom Subcommittee - **Monday, July 16, 2012 at 1:00 PM CT** (Drs. Hall and Garra to moderate)
- System Dependencies Subcommittee - **Friday, July 20, 2012 at 11:00 AM CT** (Dr. Wear to moderate)
- QIBA US SWS Technical Committee – **Monday, July 30, 2012 at 1:00 PM CT** (Dr. Hall to moderate)

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