

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

Monday, July 30, 2012; 1 PM CT

Draft Call Summary

### In attendance

**Brian Garra, MD (Co-Chair)**

**Tim J. Hall, PhD (Co-Chair)**

**Andrew Milkowski, MS (Co-Chair)**

Kaisar Alam, PhD

Michael Andre, PhD

John Benson

Shigao Chen, PhD

David Cosgrove, MD

Ron Daigle, PhD

Steven E. Fick, PhD

Caterina M. Gallippi, PhD

Barry Goldberg, MD

Cedric Schmitt, PhD

Daniel C. Sullivan, MD

Kai E. Thomenius, PhD

Keith Wear, PhD

Hua Xie, PhD

### RSNA

Joe Koudelik

Julie Lisiecki

### Approval of last call summary, 07.09.2012

#### Subcommittee Updates

- Dr. Wear - *System Dependencies Subcommittee*
  - A database of systems data protocols is being developed to compare for variability and eliminate all but the most important variables. Contributions may be sent to Dr. Palmeri: [mark.palermi@duke.edu](mailto:mark.palermi@duke.edu) or Dr. Wear: [Keith.Wear@fda.hhs.gov](mailto:Keith.Wear@fda.hhs.gov)
  - Dr. Palmeri is also working on the web-based *Mendeley* database for references: <http://www.mendeley.com/>
- Dr. Cosgrove - *Clinical Applications Subcommittee*
  - The group had its inaugural call on Monday, July 23<sup>rd</sup>. Its focus will be on the effects of pathology on data, listing their sources and quantities, working in tandem with the Systems Dependencies Subcommittee
- Dr. Hall – *Phantom System Measurement Testing Subcommittee*
  - Best options for candidate materials discussed, including variations of agar-gel dispersion and polyvinyl alcohol cryogel

#### Template for Data Gathering / Goal-directed Research (Dr. Garra)

- From the standpoint of variability affecting SWS and data gathering using ultrasound, the process begins with organizing the data into quantities that are
  - known
  - partially known
  - poorly known and requiring more extensive research
- The next step would be to use the results of the data gathering to draft functional requirements for phantoms, as well as instrumentation and clinical acquisition, taking into account the quantities or factors known to heavily influence SWS.
- Proposals for actual phantoms, instrumentation, and clinical acquisition would be drafted to fit the functional requirements; minimal requirements yet to be determined
- Move past the draft phase to verification after getting comments from a wider community, per the QIBA procedure.
- More emphasis on possible solutions to improve intra- and inter-vendor reproducibility and variability will be added to draft template by Dr. Garra.
- Template to be used to create a roadmap, with timelines and factors for each subcommittee, tying draft charges together under one umbrella
- Spreadsheet to begin tracking parameters to be drafted by Dr. Garra and Mr. Milkowski

#### Next steps:

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

#### Next calls:

- Phantom Subcommittee - **Monday, August 6, 2012 at 1:00 PM CT** (Drs. Hall and Garra to moderate)
- System Dependencies Subcommittee - **Friday, August 10, 2012 at 11:00 AM CT** (Dr. Palmeri to moderate)
- Clinical Applications Subcommittee – **Monday, August 13, 2012 at 1:00 PM CT** (Dr. Cosgrove to moderate)

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