QIBA Ultrasound Shear Wave Speed (SWS) Technical Committee

Monday, July 30, 2012; 1 PM CT

Draft Call Summary

In attendance			RSNA
Brian Garra, MD (Co-Chair)	Shigao Chen, PhD	Cedric Schmitt, PhD	Joe Koudelik
Tim J. Hall, PhD (Co-Chair)	David Cosgrove, MD	Daniel C. Sullivan, MD	Julie Lisiecki
Andrew Milkowski, MS (Co-Chair)	Ron Daigle, PhD	Kai E. Thomenius, PhD	
Kaisar Alam, PhD	Steven E. Fick, PhD	Keith Wear, PhD	
Michael Andre, PhD	Caterina M. Gallippi, PhD	Hua Xie, PhD	
John Benson	Barry Goldberg, MD		

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.palmeri@duke.edu or Dr. Wear: 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 23rd. 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.palmeri@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, 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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