

QIBA Ultrasound Shear Wave Speed (SWS)
Clinical Applications and Biological Targets Subcommittee Call
 Monday, 10 September 2012; 1 PM CT
Call Summary

In attendance

Claude Cohen-Bacrie, MS, (Co-Chair)
David Cosgrove, MD, (Co-Chair)
 Michael Andre, PhD
 Paul L. Carson, PhD
 Caterina Gallippi, PhD

Barry Goldberg, MD
 Tim J. Hall, PhD
 Ted Lynch, PhD
 Andrew Milkowski, MS
 Kathy Nightingale, PhD

Mark Palmeri, MD, PhD
 Nicolas Rognin, MSc, PhD
 Daniel C. Sullivan, MD
 Clark Zhe Wu, PhD

RSNA

Joe Koudelik
 Julie Lisiecki

Moderator: Claude Cohen-Bacrie, MS

Discussion

- Dr. Cosgrove provided an update on the EFSUMB Recommendations and Guidelines on the Clinical Use of Elastography
 - Information has been sorted by importance and availability of references by 25 reviewers
 - This 69-page document is scheduled for publication this year or early 2013
- Next challenge for this subcommittee will be generalizing guidelines across technologies and vendor systems
 - Standardized protocol with recommendations for mitigating system output variation needed
 - Issues raised regarding values from equipment being comparable
 - Considering use of a conversion chart to mitigate system dependencies
- Group to consider what are the circumstances or conditions under which technologies can be compared
 - Goal is to understand system differences to enable direct output comparisons without stifling innovation
 - Caution not to restrict vendor processes to achieve the goals of QIBA
- AIUM launched a new effort related to transient use of higher peak pressures to study imaging nodes that can be challenged in patient scenarios
 - Dr. Nightingale requested increased output scenarios as well as any thoughts related to this Doppler issue, be forwarded to her. (Kathy.Nightingale@duke.edu)
 - Noted was paucity of documentation in the literature demonstrating image improvement based on increased system output
- Mr. Cohen-Bacrie proposed a template to position confounders and differentiate among clinical, technical, and physical parameters
 - Identify how to deal with priority confounders: a) bibliography analysis; b) Phantom design; c) clinical protocol; d) comparative studies; etc.
 - Group referencing biopsy as a possible ground truth

Reference provided by Dr. Carson:

Factors that influence the correlation of acoustic radiation force impulse (ARFI), elastography with liver fibrosis. Simona Bota, Ioan Sporea, Roxana Sirli, Alina Popescu, Mirela Dănilă, Mădălina Sendroiu in *Medical Ultrasonography* (2011)

Upcoming QIBA US SWS Calls

Date	Time (CT)	Day	Committee/ Subcommittee	Moderator
09/24/2012	1:00 pm CT	Monday	Phantom Subcommittee	Dr. Garra
09/28/2012	11:00 am CT	Friday	System Dependencies Subcommittee	Dr. Palmeri
10/01/2012	1:00 pm CT	Monday	Clinical Applications & Biological Targets Subcommittee	Dr. Samir

Conferences:

- **International Tissue Elasticity Conference (ITEC 2012): Ultrasound – Deville, France (October 2 – 5)**
 - Dr. Hall will be giving a brief presentation on QIBA efforts.
- **IEEE Ultrasonics Symposium – Dresden, Germany (October 7-10)**

RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible Call participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries. [QIBA wiki](#)