

QIBA Ultrasound Shear Wave Speed (SWS) Biomarker Committee & US Coordinating Committee

Friday, May 22, 2015; 11 AM CT

Draft Call Summary

In attendance

<i>Timothy J. Hall, PhD (Co-Chair)</i>	Manish Dhyani, MD	Nicolas Rognin, MSc, PhD
<i>Andy Milkowski, MS (Co-Chair)</i>	Flemming Forsberg, PhD	Stephen Rosenzweig, PhD
S. Kaisar Alam, PhD	J. Brian Fowlkes, PhD	Anthony Samir, MD
Michael André, PhD	Zaegyoo Hah, PhD, MBA	Anne Shelchuk, PhD
Mike A. Averkiou, PhD	Wesley Lee, MD	Daniel Sullivan, MD
Richard Barr, MD, PhD	Ted Lynch, PhD	Theresa Tuthill, PhD
Paul Carson, PhD	Mike MacDonald, PhD (GE)	Matthew Urban, PhD
Jun Chen, PhD	Yasuo Miyajima, MS	Kirk Wallace, PhD
Shigao Chen, PhD	Kathy Nightingale, PhD	Michael Wang, PhD, MASC
Wui K. Chong, MD	Mark Palmeri, MD, PhD	Keith Wear, PhD
Elaine Collins, RDMS	Patrick Ploc	Hua Xie, PhD

RSNA

Joe Koudelik
Susan Weinmann

Moderator: Dr. Hall

Review of May 1st US SWS BC call notes

- Approved as written

QIBA Organizational Structure (Dr. Hall)

- The revised QIBA organizational structure was briefly presented, including committee procedures and responsibilities

Round-5 US SWS Funded Project Proposals

- Dr. Palmeri discussed his project proposal titled, "Analysis of Sources of US SWS Measurement Inter-System Variability"
- Dr. Samir discussed his project proposal titled, "Establishing the Effect of Protocol Deviations on Least Detectable Change on Serial Somoelastography"

Proposed New Ultrasound Biomarkers

- New biomarkers were initially suggested at AIUM 2015
- Need to select an application where the technology is mature in efforts to promote biomarker development
- A single target can be expanded to additional targets in the future
- Contrast Enhanced Ultrasound (CEUS) - Biomarker (Dr. Hall for Dr. Barr)
 - Need a systematic evaluation re procedures and reproducibility between imaging sites
 - Big pharma companies are very interested
 - May collaborate with AIUM, which is using CEU agents
- Volume Blood Flow - Biomarker (Dr. Fowlkes)
 - Using 3D US to quantitate volumetric flow is especially useful for umbilical flow rate
- Sub-Harmonic-Aided Pressure Estimation (SHAPE) – Biomarker (Dr. Forsberg)
 - For diagnosing portal hypertension
- Ultrasound Spatial Measurements - Biomarker (Dr. Hall for Dr. Garra)
 - Serial volume measurement accuracy needs to be updated, e.g., for bladder volume, etc.
 - Will eventually expand to the kidney
- Hope to get additional funding/admin support from AIUM
- US Coordinating Committee needs to decide how many biomarkers to choose in the scope of limited resources (e.g., funding and admin support)
 - Historically, funding has been divided roughly equally among QIBA modalities

Action items:

- The selection process and ballot to choose a new biomarker will be reviewed on the June 5th call
- A document compiling questions taken at the 2015 QIBA Annual Meeting for the new US biomarker committee will be distributed after this call

May Ultrasound SWS Call (Fridays, 11 am CT):

- **May 29:** Clinical Applications Task Force (Dr. Samir)

June (proposed)

- **June 5:** ***US Coordinating Committee Call** – NEW Biomarker proposals and Round-5 Projects under consideration*
- **June 12:** US SWS Biomarker Ctte (Dr. Hall)
- **June 19:** QIDW Demo for US SWS Biomarker Ctte (Dr. Palmeri)
- **June 26:** Clinical Applications Task Force (Dr. Samir)