QIBA Ultrasound Shear Wave Speed (SWS) Biomarker Committee & US Coordinating Committee
Friday, May 22, 2015; 11 AM CT
Draft Call Summary

In attendance

Timothy J. Hall, PhD (Co-Chair)          Manish Dhyani, MD          Nicolas Rognin, MSc, PhD          RSNA
Andy Milkowski, MS (Co-Chair)            Flemming Forsberg, PhD     Stephen Rosenzweig, PhD          Joe Koudelik
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

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)