QIBA Ultrasound Shear Wave Speed (SWS) Biomarker Committee (BC)

Call in lieu of QIBA AM Breakout Session

Friday, September 11, 2020; 9 – 10:30 AM CT *Call Summary*

In attendance

Brian Garra, MD (Co-Chair) S. Kaisar Alam, PhD Karen Alton, BS, RDMS, RVT Jun Chen, PhD Rik Hansen, PhD Ravi Managuli, PhD, RDMS Nancy Obuchowski, PhD Arinc Ozturk, MD Mark Palmeri, MD, PhD Anthony Samir, MD, MPH Jacques Souquet, PhD Theresa Tuthill, PhD **RSNA** Joe Koudelik Julie Lisiecki

Moderator: Dr. Garra

Timothy Hall, PhD

• The call summary notes from June 5, 2020 were approved as presented

Public Comment Resolution:

- Dr. Garra is finalizing public comment resolution and the conformance checklist for the Profile
- A note regarding the checklist will be added to the beginning of the Profile, to draw attention to its ease of use
- Once comments have been addressed, Dr. Garra will submit them (in revised spreadsheet format), along with a clean version of the Profile, for posting on the QIBA wiki <u>Comment Resolutions Page</u>
- BC and CC voting will follow in efforts to publish the Profile as "Consensus" (Stage 2)

Next Version of the Profile:

- BC members discussed the possibility of collecting more data, as significant changes have been made to equipment
- There was also some discussion regarding the need for more transducer data
- The team is also interested in exploring trends in a given system and potential systemic bias
- Further discussion on upcoming calls may include how to quantify system variability
- Dr. Hall encouraged Dr. Garra to join Process Committee calls to share ideas regarding simplification / enhanced usability of Profiles

Non-Invasive Biomarkers of Metabolic Liver Disease (NIMBLE) Study:

- Dr. Samir noted that the NIMBLE study will implement the full SWS Profile and potentially help the Profile attain technically confirmed and claim confirmed status
- Dr. Ozturk drafted an imaging protocol for the study based on the QIBA SWS Profile; Dr. Garra volunteered to review the protocol for consistency with the Profile requirements
- Dr. Samir intends to use CIRS phantoms from previous QIBA studies to comply with the Profile, as the NIMBLE budget does not allow for phantoms
- The elastic phantoms may require re-hydration and calibration by CIRS
- Dr. Ozturk will follow up with CIRS to confirm that the correct phantom set (via serial numbers) is currently at MGH

Shear Wave Speed Manuscript (Dr. Palmeri):

- Dr. Palmeri mentioned that he re-submitted his manuscript to the Journal of Ultrasound in Medicine (JUM)
- Manufacturer involvement is critical to QIBA activities and it is important that manufacturers know in advance how their data will be shared, i.e., what is revealed about vendor performance
- Dr. Palmeri shared some new plots that may help to inform the next version of the Profile, as the data demonstrate that more investigation of variability between systems may be needed

Profile Approval Process: See voting and balloting process links: http://qibawiki.rsna.org/index.php/Process

QIBA US Schedule: tentative next call – Friday, October 16th at 11 am CT