Review of February 26th US SWS BC call notes

- Notes were approved as written

Clinical Task Force/Profile Update

- The group is investigating whether there is a way to calculate the least significant difference to determine what is most important in the detection of change
- Drs. Dhyani, Garra, and Samir are working on a clinical testing protocol to help determine final values for the Profile
- Clinical confounders and technologist behaviors are still being considered
- MRE (at ultrasound-relevant frequency such as 160Hz) will be the gold standard for Profile values
- Cross-scanner standardization methods still need to be addressed in the Profile
- Remaining manufacturer and regulatory issues need to be addressed
- Setting a Profile performance bar for vendor systems is needed

Systems/Phantoms Task Force Update

- Currently, the phantoms are in Europe for their final scans, under the supervision of Remi Souchon
- Based on initial data analysis, the following:
  - MR measurements are in good agreement with US at higher than clinical MRE frequency
  - MRE elasticity results depend on phantom temperature
  - As materials warmed, the materials softened
  - Based on these observations, there is some concern about sources of variation due to temperature in the phantom
  - Phase II phantoms will go to University of Wisconsin for evaluation of temperature dependence of SWS

QIBA f2f Meeting at AIUM

- The QIBA US Volume Blood Flow BC met at AIUM on Saturday, March 19th and worked on their Profile
- Dr. Barr and Mr. Guenette agreed to lead the Contrast Enhanced Ultrasound (CEUS) effort
  - A formal QIBA biomarker proposal is needed for QIBA SC consideration/approval
  - In the meantime, the group may begin work as a task force
  - A project proposal for funding may also be prepared and submitted, pending approval; the project proposal deadline is April 15th
  - Four phantoms are currently under consideration for the effort
Round 6 Request for Proposals

- The primary goal for QIBA is to advance / enhance the Profile documents or conformance per NIBIB objectives

- Dr. Urban has a proposal on “Examining Bias in Visco-Elastic Media” to include the following:
  - translating group and phase velocity
  - evaluation of SWS estimate bias caused by several choices in processing including
    - point measurements
    - time to peak
    - correlation measurements
  - methods for extrapolating US results to MRE results

Action item:

- All to consider potential Round-6 projects – Project proposals that have been approved by the US SWS Co-Chairs are due to RSNA Staff by April 15th (qiba@rsna.org) with completed forms and budget sheets

- Dr. Hall to follow up with Dr. Jackson regarding what is/not within Round-6 project scope regarding clinical studies (i.e., what is allowed: preparing imaging protocols, analyzing data, etc.)

Meetings: (Fridays, 11 am CT):

April:

- Apr 01: Systems/ Phantom Task Force
- Apr 08: Clinical Task Force
- Apr 15: CEUS Task Force Leadership
- Apr 22: US SWS BC
- Apr 29: No call