

Draft Charge to the QIBA Ultrasound SWS Phantom Development Subcommittee (05/08/2012)

1. General Charge

The goals of this subcommittee are to determine the appropriate ultrasound elastography phantom material properties and phantom design needed to adequately assess shear wave speed measurement performance.

2. Specific duties

- a. Determine appropriate viscoelasticity measurement methods for independent verification of phantom material properties
 - i. Specify standard methods of measurement and reporting of material properties
- b. Determine whether 3D finite element simulation are needed to understand system performance (this goes into the systems subcommittee)
- c. Determine the range of desired acoustic and viscoelastic properties needed to challenge shear wave speed measurement performance
- d. Determine the temporal stability of currently available phantom materials
 - i. Establish stability standards
- e. Establish the specifics of a desired set of ultrasound phantoms for testing system performance

3. Reporting Responsibilities

- a. Provide the main committee with periodic short updates on progress toward the general charge during QIBA teleconferences which will be recorded in the minutes
- b. Provide a semi-annual written summary of activities and progress

4. Membership

- a. Select chairman and vice chairman
- b. Provide a list of members to the main committee

5. Meeting Arrangements

- a. Establish a regular meeting time for teleconferences
- b. Establish a standard structure for teleconferences

6. Staff Support

- a. Coordinate the scheduling and hosting of sub/committee t-cons
- b. As applicable, produce Tech- and Sub-Ctte call outline summaries and/or document action items
- c. Maintain a QIBA Wiki for shared committee working documents, presentations, etc.
- d. When provided, distribute working materials for committee reference