

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

Monday, October 30, 2023; 1 PM CT

Call Summary

In attendance

David Fetzer, MD (Co-Chair)

Stephen McAleavey, PhD (Co-Chair)

Jeff Bamber, PhD

Richard Barr, MD, PhD

Paul Carson, PhD

J. Brian Fowlkes, PhD

Nancy Obuchowski, PhD

Mark Palmeri, MD, PhD

Michelle L. Robbin, MD

Michael Wang, PhD, MASc

Keith Wear, PhD

RSNA

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Fetzer

Agenda items:

- Updates on achieving Stage 3 – Clinical Feasibility
- Achieving Stage 4 – Next Steps
- Sunsetting QIBA SWS BC Committee, society support
- QIDW data

Work toward Stage 3 – ongoing

- Site feedback has been completed at UT-Southwestern (UTSW) by Dr. Fetzer and his team
- Three manufacturers have provided attestation statements: *Siemens Philips*, and *GE*
- Site feedback is still expected from Dr. Robbin and her team at UAB, using Philips scanners, and possibly from Dr. Ozturk at MGH
- At UTSW, Dr. Fetzer's technical supervisor reviewed 3 exams on 2 different systems, which were found to be in conformance, with only slight deviations in breath hold and ROI size
 - The tests have successfully proven that the steps are achievable, clinically relevant, and not burdensome
- Dr. McAleavey and his team at U-Rochester completed a total of 9 scans by 5 different sonographers (all GE)
- Total of 2 sites and 3 different manufacturers (one additional site needed)
- The checklist that is [currently posted](#) (2022-04-25, version 5) will be updated
- [Dr. Fetzer](#) to share the final version of the checklist with volunteers and RSNA staff for wiki posting
- [Dr. Fetzer](#) to email his modified checklists to Dr. Robbin
 - It was determined that phantom scanning is not required, though a 3-patient minimum would be preferred
 - Philips systems will be used to expedite the process, because the BC has their attestation statement
- Plans are to achieve Stage 3 (Clinically Feasible) before admin support ends (**December 22nd**)
 - BC vote (if all sites have completed testing) to occur before Thanksgiving with an accelerated timeline of one week.
 - It is hoped that materials for the US Coordinating Committee level vote can be distributed prior to the RSNA Annual Meeting to allow time for US CC members to review, with a timeline of one week.
- BC and CC level votes will be required
- A [Clinically Feasible Comment Resolution Tracker](#) (formerly Technical Confirmation) needed for wiki posting
- For reference on procedures: https://qibawiki.rsna.org/index.php/Committee_Procedures

Profile Legacy Plans / Future Plans

- Drs. Palmeri and Peter Edmonds have transcribed the technical sections of the Profile into [International Electrotechnical Commission \(IEC\)](#) layout, though some fine points of translation may be needed
- Clinicians will need to take responsibility for the clinical practice segments, as clinical detail has been removed from the technical standards document
- Collaborations with the [American Institute of Ultrasound in Medicine \(AIUM\)](#) and the [Society of Radiologists in Ultrasound \(SRU\)](#) are also under consideration
- Dr. Fetzer reported that the SRU has voted to change its by-laws to include sonographers and scientist members that are associated with radiology departments
 - This focus on the science of ultrasound within the field of radiology is an effort to grow the field

QIDW and Data Archives

- The [Quantitative Imaging Data Warehouse \(QIDW\)](#) will no longer be supported by RSNA after December 15, 2023
- Dr. Palmeri noted that QIBA SWS data are publicly available via the Duke library and GitHub
- [Drs. McAleavey](#) and [Palmeri](#) to do a final check for SWS data on the QIDW and ensure data have been removed and/or archived elsewhere
- Joe to make certain that Drs. McAleavey and Palmeri have access to the QIDW

Next Steps

- To prepare for Stage 3 voting, [Dr. Fetzer](#) and [co-chairs](#) to provide:
 1. Updated Profile (if any update are needed)
 2. Updated modified checklist (for wiki posting)
 3. [Clinically Feasible Excel Spreadsheet](#) of site responses (formerly Technically Confirmed) for wiki posting
- Voting at BC level (if ready) to be completed before Thanksgiving
- Voting at CC level to be initiated before RSNA 2023 and completed after RSNA 2023
- *No November call* – work to occur via email
- Work to continue on checklist implementation at UAB, and possibly MGH
- AIUM or SRU deemed appropriate to coordinate both clinical and technical activities of this BC after 2023

Next call – TBD

- Work collating Stage 3 Checklist Feedback to continue offline.

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| 11/08 | SWS BC @ 2 pm CT—no call |
| 12/13 | Q4 US Coordinating Ctte, 1 pm CT |
| 12/13 | SWS BC @ 2 pm CT – if needed |

QI Sessions and Activities at RSNA 2023:

- *Building a Quantitative Imaging Research Study*, **Tuesday**, Nov. 28, 2023, from 11 a.m. to noon CT at McCormick Place, [Room S405 \(South Bldg\)](#).
- 2023 QI Symposium Sponsored by QIBA: *Quantitative Imaging in the Era of Artificial Intelligence: Opportunities and Needs*, **Wednesday**, Nov. 29, 2023, from 2 to 4 p.m. CT at McCormick Place, Room [E253AB \(East Bldg, Lakeside\)](#).