

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

Wednesday, August 9, 2023; 2 PM CT

Call Summary

In attendance

David Fetzer, MD (Co-Chair)

Stephen McAleavey, PhD (Co-Chair)

Stephen Rosenzweig, PhD (Co-Chair)

Richard Barr, MD, PhD

Paul Carson, PhD

J. Brian Fowlkes, PhD

Reinhard Kubale, MD

Nancy Obuchowski, PhD

Arinc Ozturk, MD

Mark Palmeri, MD, PhD

Michelle L. Robbin, MD

Keith Wear, PhD

RSNA

Julie Lisiecki

Moderator: Dr. Fetzer

Agenda items:

- QIBA Transition recap
- Profile legacy plans
- AIUM proposed support request
- Future of SWS BC
- Working toward Stage 3 (Clinically Feasible)
- Next steps

QIBA Transition

- New RSNA committee, the Quantitative Imaging Committee (QUIC) will assume oversight of RSNA's quantitative imaging initiatives
- In-process work to be completed **by December 22nd**
- In-process Profiles to be advanced to nearest stage and/or summary or white paper of the Profile to be published
- The QUIC will review future Profiles for inclusion in the QIBA Profile library, (processes TBD)
- QUIC may initially focus on 1-3 QIBs
- Feasible BC deliverables need to be determined for 4-month window
- [QIBA Wiki](#) will continue to be accessible post-transition
- BC members are welcome to submit comments or questions to the [Future Direction of QIBA Activities Form](#)

Profile Legacy 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
 - Recommended that clinical detail be removed for future updates to the technical standards document
 - Clinicians will need to take responsibility for the clinical practice segments
- Dr. Fetzer contacted ACR to inquire about starting a new specific accreditation for SWS liver elastography
 - Aspects of the current Profile could be used in accreditation requirements
- Ultimately, a published 'Best Practices' version of the document is planned
- Another potential resource may be the [Society of Radiologists in Ultrasound \(SRU\)](#)
- A future presentation on the 'highlights' of a completed IEC standard for Shear Wave was suggested
- FDA guidance for diagnostic US references multiple standards presently, and once an IEC elastography standard is published, it would be added to FDA recommendations
- Although not required, FDA recommendations tend to be followed, which would aid standardization efforts

AIUM proposed support request

- MRI BCs are being transitioned to ISMRM and Dr. Fowlkes has had some discussions with [Ms. Glynis Harvey](#) at AIUM regarding the possibility of extending further support for SWS and CEUS
- BCs, if they wish to continue, should consider what level of administrative support would be required and let [Dr. Fowlkes](#) know as soon as possible, e.g., scheduling calls, hosting calls, taking notes, etc.
- Dr. Fowlkes wants future support to be sustainable via a temporal commitment which may require periodic renewal
- Utilizing one entity (AIUM) for all US calls may be advantageous, as there would be fewer calls overall
- AIUM has several communities, including elastography, which may provide an umbrella for SWS work

Future of SWS

- Question posed to BC members whether the SWS BC should pursue continuation in its current efforts
- Dr. Palmeri noted that participation is a fraction of what it was years ago and that meetings at major conferences, e.g., AIUM, might be sufficient
 - Demand for BCs must begin from the bottom-up, not top-down, to ensure participation
 - Interest has not kept pace with the plans outlined by leadership
- It may be possible to 'sunset' the group and reinstate it if future updates are needed
- Dr. Fowlkes noted that manufacturer engagement is critical for scanner standardization to avoid loss of momentum achieved in this area
- The group wants to see their work live on and be utilized
- BC members agreed to pursue Stage 3 for the Profile before end of the year
 - U-Rochester has completed the checklist
 - UT-Southwestern to run through the checklist for 3 patients / system
 - Drs. Ozturk and Robbin also volunteered to have their sites review the checklist
 - Amongst the volunteer sites, 3 vendors would be represented, including GE, Philips, and Siemens
- The checklist that is [currently posted](#) (2022-04-25, version 5) may not be the final version
- Dr. Fetzer to share the final version of the checklist with volunteers and RSNA staff for wiki posting

Work toward Stage 3 – Checklist Questions

- Drs. Fetzer, Ozturk, and Robbin have all volunteered to get checklist questions answered at their respective sites
- Plans are to achieve Stage 3 (Clinically Feasible) before admin support ends (**December 22nd**)
- BC and CC level votes would be required
- A [Clinically Feasible Comment Resolution Tracker](#) (formerly Technical Confirmation) needed for wiki posting
- For reference on voting timelines: https://qibawiki.rsna.org/index.php/Committee_Procedures
- Dr. Carson suggested trying to get voting completed in October

Next Steps

- Timeline for voting at BC and CC levels to be determined by co-chairs
- *No September call* – call planned for October 11th
- Work to continue on checklist implementation at UAB, UT-Southwestern, and MGH
- BC members are welcome to submit comments or questions to the [Future Direction of QIBA Activities Form](#)

Next call – *Wednesday, October 11th at 2 pm CT {2nd Wednesdays of the month}* –

- Agreed that there will be **no call in September**.
- Work collating Stage 3 Checklist Feedback to continue offline.

Excerpt from chat:

14:51:24 From Stephen McAleavey to Everyone:

Getting to Stage 3: Clinically Feasible (formerly Technically Confirmed)

- Recruit Sites to Field Test the Profile
- Plan & Coordinate Clinically Feasible (formerly Technical) Confirmation
- Collect and Resolve Feedback from sites based on their experience using the Profile
- Review & Approve then Publish Clinically Feasible (formerly Technically Confirmed) Profile
- You have reached Stage 3