

## QIBA Contrast Enhanced Ultrasound (CEUS) Biomarker Committee (BC) Call

Friday, October 8, 2021; 11 AM CT

### Call Summary

#### In attendance

Mike Averkiou, PhD (Co-Chair)  
Todd Erpelding, PhD (Co-Chair)  
Sherwin S. Chan, MD, PhD  
Paul Freiburger, PhD  
Christian Greis, PhD

Connor Krolak  
Zaiyang Long, PhD  
Nancy Obuchowski, PhD  
Michelle Robbin, MD  
Nicolas Rognin, MSc, PhD

#### RSNA

Julie Lisiecki

**Moderator:** Dr. Averkiou

#### Approval of most recent call summary

- The 09-10-21 call summary was approved as presented.

#### CPT code update

- A general CPT level 3 tracking code ([0690T](#)) for quantitative tissue characterization with US, which encompasses various subspecialties, has been approved
- It will be used to document usage of quantitative ultrasound, and will ultimately be instrumental in leading to adoption of a reimbursable level 1 CPT code
- Starting January 1, 2022, all applicable imaging tests should apply this code to aid with data collection; technologists and clinicians were asked to use the code to strengthen the case for quantification and quantitative procedures
- Demonstrating that quantification with the use of microbubbles and contrast agents are being used regularly would be important for the standardization of methods and equipment in clinical applications

#### Image data linearization recommendation (Dr. Averkiou)

- Three types of data:
  - Compressed, DIOM data with values from 0-255
  - Linearized data, values in absolute scale
  - Linearized data – values in decibels
- A formal recommendation from the QIBA CEUS BC for time-intensity curve (TIC) analysis is desirable
- A formal, peer-reviewed QIBA guidance of required parameters, or a technical note based on the committee's recommendation, was discussed
  - ~ one page for *Radiology*
  - Possible adaptation of *Investigative Radiology* article
  - Support of manufacturers is critical
- Letters to the editor and position papers for *Radiology* suggested
- QIBA PEQUUS BC is doing something similar by publishing position papers for *Radiology*
- Dr. Averkiou to ask Dr. Fowlkes to advocate on the BC's behalf with QIBA Leadership
- Next steps will be to consider how to collaborate with scanner vendors to provide image data linearization
- The CEUS BC would like to convince all companies to use 'log-normal' and standardized parameters/terminology

#### Meetings

- [RSNA's 107<sup>th</sup> Scientific Assembly and Annual Meeting, Redefining Radiology](#), Nov. 28 to Dec. 2, 2021, in Chicago
- [The European Symposium on Ultrasound Contrast Imaging \(Rotterdam\)](#) January 20-21, 2022
- The [Acoustical Society of America](#) Nov. 29- Dec. 3, 2021, in Seattle

#### Action items – next call

- All are asked to invite colleagues who can contribute to CEUS BC discussions
- Dr. Averkiou to invite specific colleagues to upcoming calls based on their expertise for planned topics

### Action items (ongoing)

- Dr. Averkiou to invite manufacturer reps to discussions regarding linearized data and CEUS needs
- Dr. Averkiou plans to use the reformatted QIBA Profile Template, which centers around the Checklist, and has a streamlined introduction and executive summary
- CEUS BC SMEs are asked to get more involved with the Profile activities
- Participation from BC members with experience with the QIBA Profile-writing process is crucial
- **Endnote:** For reference details in Endnote and Excel formats, please email Connor Krolak at: [krolakc@uw.edu](mailto:krolakc@uw.edu)

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The next scheduled calls will be as follows at 11 am CT, unless otherwise noted:

11/10	Q4 US CC @ 2 pm CT
11/12	CEUS BC
12/10	CEUS BC

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RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible. Call participants are welcome to contact RSNA staff at [QIBA@RSNA.org](mailto:QIBA@RSNA.org) if their attendance is not reflected on the call summaries.

### Helpful Resources (QIBA wiki):

- [Profiles](#) | [QIBA Profile template](#) | [How to Write a QIBA Profile](#) | [Claim Guidance](#) | [US Shear Wave Speed Profile](#)
- All Profile Editors are encouraged to join the QIBA Process Committee to learn about QIBA writing tips and processes and network with other Profile Editors to exchange best practices

### QIBA Process Committee:

Kevin O'Donnell, MAsc (Chair): [KODonnell@MRU.MEDICAL.CANON](mailto:KODonnell@MRU.MEDICAL.CANON) | Michael Boss, PhD (Chair): [mboss@acr.org](mailto:mboss@acr.org)