QIBA PET Myocardial Blood Flow (MBF) Biomarker Committee (BC)
Monday, September 25, 2023, at 10 am CT
Call Summary
Notes derived in part from Dr. Moody's slides

In attendance		**RSNA Staff**
Jonathan B. Moody, PhD (Co-Chair)	Nancy Obuchowski, PhD	Julie Lisiecki
Ian S. Armstrong, MPhys, MSc, PhD	John O. Prior, MD, PhD	
Charles Hayden, BS, MSEE		

Moderator: Dr. Moody

Discussion
- Reviewed updates to sections 3.6, 3.7, and 3.8
- Started discussion for section 3.9

Profile updates
- Reviewed subject handling, radiopharmaceutical requirements, and vasodilator administration
    - Special multi-port catheter and needle are used that do not impede flow of either substance
    - Preferred location is antecubital and IV site should be contralateral to any pacemaker
    - Bracco's newer system has flush capability

- Section 3.9 – Image Data Acquisition requirements
    - Rubidium injection is administered with a built-in 20 second delay before the scan begins for synchronized flow
    - Prefer iterative reconstruction to deal with noise of short timeframe images
    - Motion correction frame-by-frame for shorter frames
        - Using shorter frames will reduce variability
    - Consider field of view for attenuation correction and potential patient movement
- Reconstruction
    - Temporal sampling of the frames is an aspect of reconstruction

Continue discussion on next call
- Section 3.9 (Image Data Acquisition and Reconstruction)
    - Image filtering
    - PSF modeling
- O^{15} water radiopharmaceutical recommendations needed from Dr. Harms
- Minimum requirements to meet the claim and best practices

Paper
- BC members plan to draft a paper primarily on metanalysis of test-retest data
- Dr. Obuchowski will be asked to review statistical aspects

New / ongoing action items: (please strike if complete)
- BC members welcome to comment re: transition plans to the Future Direction of QIBA Activities Form
- All – consider other papers that may have supportive data
- Dr. Moody to draft publication based on Dr. Obuchowski's meta-analysis on MBF repeatability
- Dr. deKemp to craft a bias table and review the linearity plot, looking at K^1 vs. flow values
- Dr. deKemp to approach ASNC regarding future administrative support
- Dr. Moody to work on a DRO model; will look at QIBA work with DCE-MRI
- Dynamic phantom scan protocol in Section 4 Assessment Procedures to be fine-tuned by Dr. Moody

Next call: Oct. 9, 2023, at 10 am CT (2nd & 4th Mondays) **| Future calls**: 10/23, 11/13, 11/20, 12/11, 12/18

QIBA Process Committee Resources

- **Process Committee Leaders**: Kevin O'Donnell, MASc (Chair) | Michael Boss, PhD (Co-Chair)
- **Wiki Resources**: Dashboard | Profiles | QIBA Profile template | How to Write a QIBA Profile | Claim Guidance Vetting requirements
- **Other:** QIBA Webpage | QIBA Wiki | QIBA Biomarker Committees | QIBA Organization Chart | Dropbox
- **EndNote**: To obtain access to the RSNA EndNote citations, please email: sstanfa@rsna.org.