

## QIBA PET Myocardial Blood Flow (MBF) Biomarker Committee (BC)

Monday, July 24, 2023, at 9 am CT

Call Summary

*Notes derived in part from Dr. Moody's slides*

### In attendance

Jonathan B. Moody, PhD (Co-Chair)

Charles Hayden, BS, MSEE

Nancy Obuchowski, PhD

Jennifer Renaud, MSc, BEng

### RSNA Staff

Julie Lisiecki

**Moderator:** Dr. Moody

### The following topics were discussed:

- Call time change
- Review of changes to sections 3.4 - 3.6
- Dropbox

### Discussion

- Call time change will be made for one hour later, 10 am CT
- Reviewed updates to sections 3.4, 3.5, and 3.6
- Minimum requirements to achieve technical claims
- Stating alternatives that could improve performance
- Need input from technologist regarding conducting scans
- Re: subject handling, add more prescriptive requirements, e.g., not placing an IV in the hand
- Suggest adding "best practice" recommendations to highlight important things that could get overlooked, such as the side of the pacemaker that connects to the heart and capturing bolus details
- Need Dr. Prior's input regarding patient handling
- Focus on vasodilators, as they are important for clinical use

### Continue discussion on next call

- Sections 3.8 (Vasodilator Administration) and 3.9 (Image Data Acquisition)
- Radiopharm administration requirements (3.7)
- O<sup>15</sup> water radiopharmaceutical recommendations needed from Dr. Harms
- Dr. Prior's recommendations needed for patient handling (3.6)
- Minimum requirements to meet the claim and best practices

### **Ongoing action items:** (please strike if complete)

- BC members are welcome to submit comments / questions about transition plans to the [Future Direction of QIBA Activities Form](#)
- Dr. Moody to try to find a technologist willing to discuss requirements, e.g., patient motion, etc.
- Dr. Armstrong – Review QA requirements before next call and work on section 3.4.2 (table specifications)
  - Consider adding another row for general PET scanner QA
- All – consider other papers that may have supportive data
- Dr. deKemp to provide names and email addresses of new members to be added
- Dr. Moody to draft publication based on Dr. Obuchowski's meta-analysis on MBF repeatability
- Dr. Moody to start drafting the Radiologist (Actor) checklist per the [streamlined Profile template](#)
- Dr. Moody to work on protocol design tables and share papers to shared drive
- Dr. deKemp to craft a bias table and review the linearity plot, looking at K<sup>1</sup> vs. flow values
- Dr. Moody to work on a DRO model; will look at QIBA work with DCE-MRI
- Review needed for 3.3 Product Validation, 3.4 Periodic QA, and 3.7 Pharmaceutical Administration
- Dynamic phantom scan protocol in Section 4 Assessment Procedures to be fine-tuned by Dr. Moody

**Next Call:** August 14, 2023, at 10 am CT (2<sup>nd</sup> and 4<sup>th</sup> Mondays) – new time, one hour later

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### 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](mailto:sstanfa@rsna.org).