

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

Monday, September 11, 2023, at 10 am CT

Call Summary

Notes derived in part from Dr. Moody's slides

In attendance

Rob deKemp, PhD (Co-Chair)

Jonathan B. Moody, PhD (Co-Chair)

Martin Lodge, PhD

RSNA Staff

Julie Lisiecki

Moderator: Dr. Moody

Discussion

- Reviewed updates to sections 3.4, 3.5, and 3.6

Profile updates

- Reviewed subject handling, radiopharmaceutical requirements, and vasodilator administration
 - QA should be done with tracer intended for perfusion imaging
 - Peer reviewed thresholds from literature are acceptable
 - Use locally available tracer (¹⁸F, ¹³N-ammonia, ⁸²Rb, or ¹⁵O-water)
 - Should use torso phantom with cardiac insert
- Augmenting adenosine helped to overcome the effects of caffeine
 - Consider if exercise can aid with compensating for caffeine

Continue discussion on next call

- Sections 3.8 (Vasodilator Administration) and 3.9 (Image Data Acquisition)
- Will need to review some overlap in subject handling for section 3.8
- Radiopharmaceutical administration requirements (3.7)
- O¹⁵ water radiopharmaceutical recommendations needed from Dr. Harms
- Minimum requirements to meet the claim and best practices

New / ongoing action items: (please strike if complete)

- Dr. Moody to propose some items for sections 3.7 and 3.8; will circulate updated draft
- 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 K¹ vs. flow values
- 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: September 25, 2023, at 10 am CT (2nd and 4th Mondays) – **new time, one hour later**

Future calls: 9/25, 10/9, 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.