

QIBA SPECT TC^{99m} Biomarker Committee (BC) Call
Tuesday, March 10, 2020, 2 PM (CT)
Call Summary
(Detailed comments from Dr. Miyaoka's notes)

In attendance:

Yuni Dewaraja, PhD (Co-chair)
Robert Miyaoka, PhD (Co-chair)
Denis Bergeron, PhD

John Dickson, PhD
Clara Ferreira

P. David Mozley, MD
Brian Zimmerman, PhD

RSNA Staff

Joe Koudelik
Julie Lisiecki

Moderator: Dr. Miyaoka

SPECT TC^{99m} Public Comment – Feedback Resolution Update

- BC members continued to address public comment feedback
- The BC plans to have Profile comments resolved by the April 14th t-con
 - Any remaining issues will be resolved before the QIBA Annual Meeting in late April

Specific Reviewer Comments Resolved:

- Knowland comment about extravasation:
 - Table 3.11.2 (~line 728; page 33) and same comment in Conformance section (page 64)
 - Suggestions were accepted and text revised
- Robinson comment regarding an issue with NIST traceable Tc-99m source:
 - Suggested Co-57 or alternative as an equivalent
 - Need reference for 8% coefficient of variation (COV) value / requirement
 - Based upon experience from most clinical trialists in the group conducting multi-site clinical trials
 - Issue with voxel size: suggest increase to 5 mm
 - Line 540, proposed change of wording from 4-10 to 4-8
- AAPM comments reviewed:
 - Table 3.2.2: Discussed within-subject coefficient of variation (WCV) numbers
 - Why 16% (line 400, page 53) and 22% elsewhere (lines 330-340; 950)?
 - More discussion is needed
 - Table 3.5.2: Overall System Performance, how often should this be checked?
 - Table 3.5.3: Accuracy, no NIST-traceable Tc-99m (change to Co-57)
 - Table 3.5.3: Issue with $\pm 2.5\%$
 - P22, L490: Concern about 8 mm resolution at 10 cm requirement
 - P23, L514: Disagree with comment
 - Table 3.6.2: Changed 4 mm to 5 mm
 - Table 3.6.2: Require iterative with CT-based corrections and resolution recovery
 - P25L561: Intravenous and arterial
 - P27L594: Question re wording: "Laying subject on a calibrator"? Clarification recommended.
 - P27L605: LEGP collimators do not meet 8 mm at 10 cm requirement
 - Require LEHR collimators; great comment; revised text.
 - P28 L620: Table 3.9.2, 4.8 mm should be 5 mm
 - P31 L685: Matrix/voxel size should be 5 mm versus 4.8 mm
 - P38 L850: Distance should be the diagonal distance of rectangular detector
 - P38 L863: Issue with placing sheet source directly on face of collimator.
 - Needs minor rewording: "directly on or over the face of the collimator."

Next BC call – Tuesday, April 14, 2020 at 2 PM CT