

QIBA SPECT TC^{99m} Biomarker Committee (BC) Call
Tuesday, January 15, 2019, 2 PM (CT)
Call Summary

In attendance:

Robert Miyaoka, PhD (Co-Chair)

Yuni Dewaraja, PhD (Co-Chair)

John Dickson, PhD

P. David Mozley, MD

RSNA Staff

Joe Koudelik

Julie Lisiecki

Moderator: Dr. Miyaoka

Timeline for TC^{99m} BC Profile

- It is the goal of the group to finalize the Profile for public comment release by the end of 1Q2019
- The group aims to start work on conformance testing by the end of 2Q2019 and make significant progress by the QIBA Annual Meeting in June 2019

Sections Needing Work:

- Minor edits to be incorporated by Dr. Miyaoka prior to release for public comment
- Discussion of section 3.6.1 – technical parameters need more details in the discussion section
- Quantification of target concentration: Is this still needed or would total activity in a volume of interest (VOI) be more useful?
- Section 3.1 – Staff qualifications
 - Current text is a remnant from the CT VOI Profile used as a template
 - Is volume of interest (VOI) consistency acceptable?
 - This is not an assessment procedure
- Table 3.2.2 –
 - Reference to assessment procedure 4.3
- Appendix D: Model-specific instructions and parameters to be removed
- Table D.1 for Acme Medical SPECT/ CT scanner (*image system parameters*) needs details for the following:
 - Crystal size
 - Gantry rotation speed
 - Scan field of view (FOV)
 - Collimator sensitivity
- Table D.2 for Acme Medical SPECT/CT scanner (*reconstruction software*) needs details for the following:
 - Reconstructed slice width
 - Number of distance bins
 - Number of angular bins
 - Iterations / subsets
 - Post filtering or smoothing filter?
- Appendix E: Conformance Checklists
 - Decide on actors and separate checklists for each

Work Assignments for section editors / mini-task forces per Dr. Miyaoka for TC^{99m}:

- claims sans CVs: Moz/Nancy, et al (mozley@gmail.com)
- image acquisition: Yuni Dewaraja, et al (yuni@med.umich.edu)
- image recon: Eric Frey, et al (efrey@jhmi.edu)
- image analysis: Robert Miyaoka, et al (rmiyaoka@uw.edu)
- QA: Denis Bergeron/Brian Zimmerman, et al (denis.bergeron@nist.gov)

Next steps

- All are asked to review the following sections for discussion on the next call:
 - 3.1 – Staff qualifications
 - Current text is for CT Image Analyst
 - Table 3.2.2 – Assessment procedure 4.8
 - Appendix E: Conformance Checklists
 - Decide on actors and separate checklists for each

Next call – 2nd Tuesday of February (February 12, 2019 at 2 pm CT)