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QIBA CT Volumetry Biomarker Committee (BC)
06 May 2021 at 1 PM (CT)
Call Summary

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In attendance   **RSNA**

Rudresh Jarecha, MBBS, DNB, DMRE (Co-Chair)	Timothy Hall, PhD	Nancy Obuchowski, PhD	Joe Koudelik
Ehsan Samei, PhD (Co-Chair)	Claudia Kirsch, MD	Kevin O'Donnell, MASc	Julie Lisiecki
Kirsten Boedeker, PhD	Annelise Malkus, PhD	Nicholas Petrick, PhD	
Heang-Ping Chan, PhD	James Mulshine, MD	Ying Tang, PhD	
Alex Guimaraes, MD, PhD			

Moderator: Mr. O'Donnell

Call for 3rd co-chair:
- A 3rd co-chair is being recruited to help lead the BC; please contact qiba@rsna.org with interest or questions
- Primary role of the co-chairs is to guide the advancement of the QIBA CT Volumetry Profile
- New perspectives are appreciated, particularly clinical expertise, if possible

Change Proposals: (Mr. O'Donnell)
- Looking at deep-learning-based algorithm reconstructions
- Next generation from iterative reconstruction will allow for faster response, lower noise, and better image resolution
- Change will impact inside assessment procedures, including filtered back projection, iterative reconstruction, and deep learning
- Dr. Samei does not think the addition of deep learning algorithms will make a dramatic change to the current Profile
- Mr. O'Donnell to draft the following language:
  - In-plane resolution assessment
  - Voxel noise assessment
  - Deep learning reconstruction
- Dr. Samei suggested using "linear" vs. "non-linear" terminology as more generic descriptions with added examples to leave the Profile open to future technology updates
- Mr. O'Donnell will distribute the updated Profile to BC members for review and comment prior to the next BC meeting, which will be planned for 4-6 weeks, via another doodle poll

  Streamlining of the Profile
- Per Process Committee recommendations, Mr. O'Donnell is working to streamline and shorten the Profile
- All essential information will be moved to the front of the Profile, focusing on conformance, essential requirements, and the checklist, with a compressed introduction
- Additional discussion and supporting material will be moved to the Appendix for reference
- The intent is to make the Profile clearer and more user-friendly
- Dr. Samei suggested adding hyperlinks within the checklist to help users skip to sections in the larger Profile
- New current practice demonstrates that following the requirements produces a meaningful payoff
- Assessor "shall" bullet point lists have been created to simplify assessment procedures
  - Drs. Jarecha and Samei need to review these bulleted lists for accuracy
- Reducing the list of checklist requirements was also discussed via prioritization
  - If possible, it would be helpful to have a simpler method to demonstrate conformance to the Profile and completion of requirements
- Dr. Samei suggested an automated form for the checklist
- An algorithmic tool across a diverse set of imaging conditions and vendors was also suggested

Action items (ongoing):
- Mr. O'Donnell to provide simplified Profile to BC members for review and comment
- Mr. O'Donnell to add AAPM open-source software links to the Profile or for use on the wiki and to link a Google document that lists acceptable phantoms for the Profile for reference

- Obtain input from Dr. Obuchowski regarding the work of Dr. Samei's group to determine if a revised coefficient of variation is needed

Next Call: To be determined