

QIBA CT Volumetry Biomarker Ctte (BC) Call

12 September 2016 at 11 AM CT

Draft Call Summary

In attendance:			RSNA:
Jenifer Siegelman, MD, MPH (Co-Chair)	David Gustafson, PhD	Nicholas Petrick, PhD	Joe Koudelik
Maria Athelougou, PhD	Lubomir Hadjiiski, PhD	Aria Pezeshk, PhD	Julie Lisiecki
Hubert Beaumont, PhD	Rudresh Jarecha, MBBS	Marthony Robins, PhD	
Andrew Buckler, MS	James Mulshine, MD	Lawrence Schwartz, MD	
Heang-Ping Chan, PhD	Nancy Obuchowski, PhD	Na Sun, PhD	
Paul Garrett, MD	Kevin O'Donnell, MASc	Ying Tang, PhD	
Ritu Gill, MD, MPH	Eric Perlman, MD		

Location of test-retest dataset: QIDW vs TCIA

- The *Quantitative Imaging Data Warehouse* ([QIDW](#)) is being migrated to a different platform
- No data will be uploaded until the migration is complete to ensure data integrity
 - This [RIDER Lung CT dataset](#) is not identical to data elsewhere but is specifically manipulated to be used for demonstrating conformance with the Profile
- Dr. Erickson, *Chair of the QIDW Oversight Committee*, is reaching out to TCIA leadership for their approval
 - Once posted, the TCIA will be acknowledged and Dr. Schwartz's original publication cited
- Dr. Petrick's FDA Lungman N1 phantom data are also available for upload to the QIDW
- QIDW is being migrated to new (Girder) platform; uploads are on hold until the migration is completed

Profile Checklist

- Mr. Tervé and Dr. Jarecha have been working offline with assistance from Dr. Perlman, and much progress has been made with the checklist
- Each organization type will have a dedicated feasibility assessment checklist, an Excel document with individual sheets for each 'actor' within the Profile
 - This will be the precursor to a Profile field test checklist
 - Feedback from feasibility assessment participants will be used to refine the document
 - Manufacturer feedback is still needed
- Mr. O'Donnell also mentioned the possibility of adding explicit vendor validation tasks for *future* Profiles but not this iteration, as no one wants to delay release of this Profile

RSNA 2016 Poster

- Interested volunteers willing to help with poster design are asked to contact Dr. Siegelman: jsiegelman1@partners.org
 - Overall theme and design will be similar to last year, and space will be allocated for various SME updates
 - Content suggestions included the following:
 - Update on the QIBA 3A Challenge, which will end on November 1st
 - Results / Top 3 performers could be included, along with rationale for the study
 - Larger font sizes and more graphics with less text was encouraged
 - Update on the FDA liver phantom project (Dr. Petrick)
 - Update on the phantom nodule insertion project (Dr. Samei)
 - Update on the conformance section
 - Dr. Mulshine also suggested an attention-grabbing focus regarding the need for QIBA to educate the general radiology population and clinical trialists on QIBA's value and usefulness, with a proposed topic of: "Over-Estimation of Variability at the Baseline"
 - This should demonstrate how to transition from an idea to the practical
 - An example quantifying how much better imaging measurements are using the QIBA method could be educational

- Mr. O'Donnell suggested that the poster could be divided into 2 general sections:
 - 1) Current Profile / Value Statement
 - 2) Areas for further investigation, such as texture analysis and Mr. Avila's crowd-sourced phantom data, ways to drive home the "value" of QIBA message, etc.
- Dr. Gustafson suggested soliciting volunteers for the Profile Field Test
 - A handout could be provided at the poster, along with a QR code on the poster, to explain the purpose of the field test and the group's goals
 - Possibly an electronic sign-up, e.g. a Google form, could be utilized to capture potential volunteers

Action Items

- Dr. Mulshine to follow up with Mr. Avila regarding his crowd-sourced data and whether or not these are being shared at RSNA
- Dr. Siegelman to provide poster text re the radiologist's view of quantitation
- Mr. O'Donnell to follow up with Dr. McNitt-Gray regarding wording used by AAPM as an example for disclaimer statements, if one is needed for the Profile data
- Mr. Avila had previously suggested an ad hoc call with Dr. Samei to discuss reconstruction kernels and Hounsfield Unit density changes, deep within objects, as related to the conformance procedures
- RSNA Staff will follow up with a Doodle poll to organize an engineering / physics call

Next Call: Monday, **September 19th** at 11 am CT | Profile review | Next steps