QIBA CT Volumetry Biomarker Ctte (BC) Call

12 December 2016 at 11 AM CT Call Summary

In attendance:			RSNA:
Gregory Goldmacher, MD, PhD, MBA (Co-Chair)	Rudresh Jarecha, MBBS	Kevin O'Donnell, MASc	Joe Koudelik
Hubert Beaumont, PhD	Lu Jiang, PhD	Nicholas Petrick, PhD	Julie Lisiecki
Andrew Buckler, MS	Claudia Kirsch, MD	Marthony Robins, PhD	
Heang-Ping Chan, PhD	Eleni Liapi, MD, ScM	Na Sun, PhD	
Andrea Ferrero, PhD	James Mulshine, MD	Ying Tang, PhD	
Matthew Fuld, PhD	Nancy Obuchowski, PhD	Luduan Zhang, PhD	
Lubomir Hadjiiski, PhD			

Profile Update

- The Profile is in the consensus stage presently
- Initial feasibility testing will include the following components:
 - A phantom scan
 - o A patient scan
 - o Basic lesion measurements on patient scans needed
 - Access to prior scans and image sets would also be very helpful
- A few BC team members are working on the feasibility testing:
 - Columbia University: Drs. Schwartz and Zhao
 - Duke University: Drs. Samei and Robins (phantom scanning has been completed)
 - University of Chicago and Rush University Medical Center: Drs. Armato and Mulshine
- Updates from feasibility testing sites are anticipated by the end of this week; a more substantial update should be available by the Monday, December 19th call
- A future goal is to integrate the Profile into a clinical trial

Profile Publication Possibilities

- In order to get more visibility for the Profile, a publication is being planned
- The article would be 1 2 pages in length, with an explanation of the Profile's purpose, outline, and basics for conformance, etc.
- Suggestions included:
 - o A letter to the editor of appropriate journals, such as Radiology, JCO, or Clinical Cancer Research
 - o Writing two publications in parallel in a series of related articles
 - one for an imaging-based publication and
 - one for a clinical-based publication

Next Steps for the Profile

- The Profile is on its way to technical confirmation; the next step would be claim confirmation
- There is no procedure in place yet for this next step
- Dr. Obuchowski's statistical guidance will be required
- A task force to address the overall approach for claim confirmation will be formed and is comprised of the following members:
 - o Mr. Buckler
 - Dr. Goldmacher
 - o Dr. Jarecha

- Dr. Obuchowski
- o Mr. O'Donnell
- o Dr. Petrick
- o Dr. Samei
- This group will outline a plan and topics to be addressed by additional small focused teams working on manageable sections

Morphology and Texture Task Forces under Consideration for CT CC

- Drs. Ferrero, Hadjiiski, and Jarecha expressed interest in pursuing these topics as possible future biomarkers under the QIBA CT umbrella
- A time will need to be scheduled for this task force to report findings to the QIBA CT Coordinating Committee
- Lung Density BC members may be interested in joining this effort
- Dr. Hadjiiski to connect with QIN leadership regarding interest
- Output from this task force will be assessed by the CT CC; once mature, a SC request will be made to promote to BC status
- Mr. O'Donnell will share information with MITA
- Suggestions are welcome for any other professional societies or communities that are researching these topics
- A broader base of support related to the Moonshot Initiative is also recommended
- Other possible contacts to increase community endorsement included:
 - o ACR
 - o Joint Commission
 - o PINTAD
 - o Quality-of-imaging groups in general
 - o AAPM
 - o SNMMI
 - o FDA
 - o fNIH

Biomarker Qualification Update

- Additional clinical evidence for the Profile is needed for the ongoing biomarker qualification effort
- Dr. Tang volunteered to provide a brief overview presentation on the fNIH biomarker qualification efforts in January

Next Call: Monday, December 19, 2016 at 11 am CT

^{*}There will be no BC calls on Monday, December 26th or Monday, January 2nd