QIBA CT Volumetry Biomarker Ctte (BC) Call
12 December 2016 at 11 AM CT
Call Summary

In attendance:

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<th>Gregory Goldmacher, MD, PhD, MBA (Co-Chair)</th>
<th>Rudresh Jarecha, MBBS</th>
<th>Kevin O'Donnell, MASc</th>
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Profile Update

- The Profile is in the consensus stage presently
- Initial feasibility testing will include the following components:
  - A phantom scan
  - A patient scan
  - 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:
  - A letter to the editor of appropriate journals, such as Radiology, JCO, or Clinical Cancer Research
  - 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:
  - Mr. Buckler
  - Dr. Goldmacher
  - Dr. Jarecha
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:
  - ACR
  - Joint Commission
  - PINTAD
  - Quality-of-imaging groups in general
  - AAPM
  - SNMMI
  - FDA
  - 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*