QIBA Lung Density Biomarker Committee (BC)
October 12, 2016 at 2 PM CT
Draft Call Summary

In attendance   **RSNA**

Sean Fain, PhD (Co-Chair)   Heather Chen-Mayer, PhD   Nancy Obuchowski, PhD   Joe Koudelik

Matthew Fuld, PhD (Co-Chair)   Stephen Humphries, PhD   Jered Sieren, BSRT (R) MR CT   Julie Lisiecki

David Lynch, MD (Co-Chair)   Philip Judy, PhD

Round 5 Project Final Report Review (Dr. Fain)

- Topics discussed included the following:
    - Physical models seemed to perform better than statistical models regarding the volume adjustment results demonstrating an improved repeatability coefficient
    - Fixed models are performing as expected
    - Use of Dr. Berend Stoel's cylindrical compressible lung phantom, which allows control of volume and density, can be used to test density change measurements
    - Slope and correlative histogram values for Perc50 and Perc15
        - Perc50 will closely represent the mean lung density
        - Perc15 in the phantom will be representative of the measure used for emphysema disease progression in the lungs

Poster for QIBA Kiosk at RSNA 2016

- Suggestions for how to organize the poster and topics to include were discussed:
    - Tying back to the Profile: techniques on how to solve issues
    - Importance of scanning correctly as the main topic with flow into other topics
    - Rationale for harmonization of scanners and scanning techniques
    - Background on the Profile and progress
        - Begins with rationale for current harmonization efforts across vendor platforms
        - Focus on: Claims, Conformance, and Field Testing
    - Breathing issues
    - Updates on the phantoms used
    - Information on volume adjustment and dose reduction
    - Addition of a diagram or figure to better illustrate certain concepts at-a-glance
    - Harmonization / Decreasing scanner variation / Improving repeatability / Dose reduction

RSNA 2016 Lung Density BC Poster – Print-ready PPT due to RSNA by October 31st

- Group to review a draft [template] of the poster on the next call, October 26th
- Please send contributions to Dr. Humphries: [HumphriesS@NJHealth.org]

Next call: Wednesday, October 26, 2016 at 2 pm CT

RNSA 2016 Reminders:

QIBA Kiosk Poster Meet-the-Expert Session for RSNA 2016:

1. Please visit the RSNA 2016 MTE Sessions [Google sign-up sheet]
2. Select your Biomarker Committee from the tabs along the bottom of the sheet
3. Type in your name next to the presentation time slot that works for you (It would be helpful for each 30 minute time slot to be filled by at least one committee member)
4. Simply close out of the document – there is NO save button - changes will automatically save for you

----

QIBA Working Meeting at RSNA 2016 {Wednesday, Nov 30th, 2:30 – 5 pm}:
Please let us know whether you plan to attend the **QIBA Biomarker Committees- Working Meeting** by responding to the [Google Form]. A response by Wednesday, October 19th would be appreciated.