QIBA Volumetric CT Group 3A Update
Thursday, 27 February 2014 at 11:30 AM CT
Call Summary

In attendance

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tr>
<td>Maria Athelogou, PhD (Chair)</td>
<td>Kjell Johnson, PhD</td>
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<td>Hubert Beaumont, PhD</td>
<td>Leon Lenchik, MD</td>
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<td>Andrew Buckler, MS</td>
<td>Eric Perlman, MD</td>
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<td>Marios Gavrielides, PhD</td>
<td>Adele Peskin, PhD</td>
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<td>Lubomir Hadjiiski, PhD</td>
<td>Nicholas Petrick, PhD</td>
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<td>Rudresh Jarecha, MBBS</td>
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<td>Joe Koudelik</td>
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<td>Julie Lisiecki</td>
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Update: Status of the Paper for the Pilot/Pivotal Challenge

- The paper based on the first challenge (pilot + pivotal) is still with NIST under review.
  - Dr. Peskin to update the group on the next call.

Update: Status of the Clinical Challenge as of 2/27/2014

- Analysis of the challenge data is on track; progress has been made with secondary and tertiary analyses.
- A preliminary report on the primary analysis is anticipated by the March 13th call.
- One group did not respond to the team’s request to re-submit data due to compatibility issues resulting in limited analysis.
- Dr. Kjell Johnson reviewed some preliminary statistics.
  - The summary of his findings was as follows:
    - Repeatability analyses within groups:
      - Statistics calculated:
        - CCC: concordance correlation coefficient
        - wSubVar: Within subject variance
        - RC: Repeatability coefficient and 95% confidence bounds
        - wCV: within subject coefficient of variation
      - Figures:
        - Test-retest scatterplot
        - Bland Altman
    - Reproducibility analyses across groups:
      - Statistics calculated:
        - RDC: reproducibility coefficient
      - Figure:
        - Box and whisker plots across algorithms

Action items:

- Dr. Athelogou will contact a MICCAI representative in order to invite her/him for a presentation about comparison of challenge methodologies concerning the statistical evaluation of algorithm results.
- Dr. Peskin to follow up with NIST colleagues regarding Challenge #1 paper status.
- Next call: Dr. Kjell Johnson and Mr. Andrew Buckler will continue with the presentation of the statistical analysis results of the last challenge.

Next call: Thursday, March 13, 2014 at 11:30 AM CT.