QIBA Volumetric CT Group 3A Update
Thursday, 10 April 2014 at 11:30 AM CT
Draft Call Summary

In attendance

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Chair</th>
<th>RSNA</th>
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<tr>
<td>Maria Athelogou, PhD</td>
<td>Chair</td>
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<td>Joe Koudelik</td>
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<td>Marios Gavrielides, PhD</td>
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<td>Leon Lenchik, MD</td>
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<td>Hubert Beaumont, PhD</td>
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<td>Adele Peskin, PhD</td>
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<td>Andrew Buckler, MS</td>
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<td>Hyun Grace Kim, PhD</td>
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<td>Heang-Ping Chan, PhD</td>
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RSNA reviewers have approved the paper.

Dr. Peskin anticipates a final version with reviewer comments will be available by Tuesday, April 15th for distribution to Drs. Athelogou and Gavrielides, and Mr. Buckler for final edits.

Radiology was proposed as the first option for submission.

Medical conferences/ additional presentation opportunities were also discussed to maximize the visibility of the 3A Challenge efforts.

Update: Paper for the Clinical Challenge

Mr. Buckler has completed the analysis and produced a first draft of the clinical challenge paper for review and comment by the QIBA CT Volumetry Technical Committee Co-Chairs, and Drs. Athelogou, Gavrielides, and Peskin.

Analysis from this paper will help to inform the claim for the QIBA CT Volumetry Profile on Advanced Disease/Tumor Volume Change

- The summary chart of reproducibility results is especially important to the claim.
- There are four components of variance to consider:
  - Subject
  - Residual (all that cannot be explained via datasets)
  - Algorithm/reader
  - Subject/tumor

It is hoped that the Clinical Challenge paper will soon be submitted for review.

Future work of Group 3A

Dr. Athelogou asked group members to consider practical suggestions for the future work of Group 3A.

Questions to consider include:

- What is the most important work that should continue?
- What are the necessary conditions and context?
- Suggestions welcome to Dr. Athelogou: Mathelogou@definiens.com.

Action items:

- Mr. O’Donnell to draft a survey for QIBA 3A Challenge participants regarding performance parameters; Dr. Athelogou to review and approve for dissemination
  - RSNA staff to follow up with Mr. O’Donnell regarding the status of this item
- Dr. Athelogou to invite a MICCAI representative to present a comparison of challenge methodologies concerning the statistical evaluation of algorithm results.
- Dr. Peskin to forward final NIST-approved draft of the paper for the first challenge (pilot + pivotal) to Drs. Athelogou and Gavrielides, and Mr. Buckler by Tuesday, April 15th.

Next call: Thursday, April 24, 2014 at 11:30 AM CT.