QIBA CT Small Lung Nodule (SLN) Biomarker Ctte (BC) Call

**Inaugural call**

13 November 2017 at 11 AM CT

**Call Summary**

**In attendance:**

<table>
<thead>
<tr>
<th>RSNA:</th>
<th>In attendance:</th>
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<tbody>
<tr>
<td>Fiona Miller</td>
<td>Samuel G. Armato III, PhD (Co-Chair)</td>
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<td>Joe Koudelik</td>
<td>David S. Gierada, MD (Co-Chair)</td>
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<td>Julie Lisiecki</td>
<td>James L. Mulshine, MD (Co-Chair)</td>
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<td>Raja Subramaniam, PhD</td>
<td>Rick Avila, MS</td>
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<td>David Yankelevitz, MD</td>
<td>Marios Gavrielides, PhD</td>
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<td>Lifeng Yu, PhD</td>
<td>Maryellen Giger, PhD</td>
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<td>Nancy Obuchowski, PhD</td>
<td>Artit Jirapatnakul, PhD</td>
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**Moderator:** Dr. Mulshine

**Overview:**

- Dr. Mulshine explained the transition of the group from Task Force to Biomarker Committee and provided an update on the status of the Profile and related efforts
- Leadership will be preserved during this transition (Drs. Armato, Gierada and Mulshine)
- Due to the timeliness of lung cancer screening efforts worldwide, the BC wants to lead the way with setting image quality standards and the integration of process improvements
  - Advocacy partner groups include:
    - International Association for the Study of Lung Cancer (IASLC)
    - Prevent Cancer Foundation
- Mr. Avila provided a technical overview of the conformance procedures for the Profile, all of which have been documented and will be posted for group access on the QIBA wiki
  - Information in the Profile has been translated into user-friendly context for real-world ease of use and adoption by community facilities (i.e., those sites without the academic support of large imaging centers or clinical trialists)
  - A combination of methods is used, including theoretical calculation, analytical interpretation, and modeling
  - Units for two different communities have been provided in both PSF Sigma (Point-Spread-Function) and MTF 50 (Modulation Transfer Function)
  - CT scanner vendors and software developers have been asked to test the protocols
  - 90+ phantoms will soon be distributed for testing

**Profile:**

- A few minor updates need to be made to language provided by Dr. Obuchowski
- Pending updates to the comment resolution log and some minor updates, leadership indicated they were ready to hold a BC vote on publishing the Profile as a “consensus” document per the QIBA Profile Stages
  - The reviewer comment / resolution spreadsheet will be circulated along with the latest Profile as reference
- SLN leadership is hopeful that the IASLC will adopt the CT Small Lung Nodule Profile in their lung cancer screening efforts
- Updated items will be posted on the BC wiki page: [http://qibawiki.rsna.org/index.php/CT_Small_Lung_Nodule_Biomarker_Ctte](http://qibawiki.rsna.org/index.php/CT_Small_Lung_Nodule_Biomarker_Ctte)

**Action items:**

- A timeline was established to move the vote forward and is as follows:
  - Mr. Avila to provide minor revisions to BC members by Thursday, 11/17/2017
  - E-ballot to be distributed to voting members of the BC (those on the inaugural call) by Thursday, 11/17/2017
  - BC vote results to be tabulated by Tuesday, 11/21/2017