Quantitative Imaging Biomarkers Alliance (QIBA) Annual Meeting
May 6-7, 2016
Alexandria, VA

QIBA Mission

Improve the value and practicality of quantitative imaging biomarkers by reducing variability across devices, patients, and time.
Recent Activities

Evolution of Organizational structure
– Steering Committee
  • Coordinating Committees
    – Biomarker Committees
      » Task Force Groups
Maturation of Policies/procedures
– Improved consistency re: content and structure of a QIBA Profile.
– Clarified policies on governance, copyrights and IP disclosures

Current status

Profiles/Protocols
• **Completed (publicly reviewed):** CT Volumetry; FDG-PET SUV; DCE-MRI
• **Drafted:** DW-MR; Small nodule volumetry; Lung densitometry; PET amyloid; fMRI
• **In development:** Revised CT Vol (liver); Revised DCE-MRI (3T); Ultrasound SWS; DTI; MRE; DSC; MR proton density fat quant; SPECT; CT airway measurement

NIBIB funding and projects
• Currently in year 4 of funding (runs from 9/30/2014 to 9/29/2015).
• Total of 62 projects funded in Years 1 through 4
• Will need to submit new application in spring 2015 for renewed funding.
Deliverables tied to NIBIB-funded projects

<table>
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<tr>
<th>Deliverable</th>
<th>Number</th>
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<tbody>
<tr>
<td>Publications</td>
<td>12</td>
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<tr>
<td>Meeting presentations</td>
<td>15</td>
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<tr>
<td>Posters</td>
<td>10</td>
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<tr>
<td>Software programs/Datasets</td>
<td>9</td>
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<tr>
<td>Phantoms, physical or virtual</td>
<td>10</td>
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Emerging Themes

1. Be able to measure single-digit % changes
   E.g., to differentiate changes due to normal aging from gradual changes of slow, chronic diseases.

2. Think forward: Develop a Profile for possibility of future therapies where longitudinal changes by imaging biomarkers would be valuable.
Challenges

• Conformance certification processes
• Field tests/Implementation of QIBA Profiles
• Image datasets
• NIBIB contract renewal/Sustainability
• Internationalization

Evolution

• “Radiologists will change only when the pain of not changing exceeds the pain of changing.”
  
  – Bibb Allen, Jr., MD, FACR,
  – Chair of the Board of Chancellors, ACR
  – ACR Bulletin, April 2015
“Precision Medicine” has taken a long time (~20 years) to become “mainstream”.

QIBA is “Moving the Thought Needle”
The RSNA Board, Staff and I express our sincere appreciation to the many, many volunteers who have made all this happen.