QIBA Multi-disciplinary collaboration for plaque imaging by CT angiography

Introductory call
13 March 2018 at 11 AM CT

Call Summary

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<th>On Call</th>
<th>RSNA Staff</th>
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<tr>
<td>Andrew J. Buckler, MS (Moderator)</td>
<td>Kevin O’Donnell, MASc</td>
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<td>James Kevin DeMarco, MD</td>
<td>Peter Kitslaar, MSc</td>
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<td>Taylor Duguay, BS</td>
<td>Pál Maurovich-Horvat, MD</td>
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<td>Maros Ferencik, MD, PhD</td>
<td>Alan Moody, MBBS, FRCP, FRCR</td>
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<td>Alexander Guimaraes, MD, PhD</td>
<td>Nancy Obuchowski, PhD</td>
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<td>Rudresh Jarecha, MBBS, DNB, DMRE</td>
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Introductions:
- Mr. Buckler invited participants to introduce themselves and provide details regarding their experience with plaque imaging

Overview:
- Mr. Buckler provided background information about RSNA’s Quantitative Imaging Biomarkers Alliance (QIBA) and shared a presentation on Industrializing Biomarkers, created by Mr. O’Donnell, Co-Chair of the QIBA Process Committee

For a general overview of QIBA, please visit these links:
- QIBA Website: http://www.rsna.org/QIBA/
- QIBA Wiki: http://qibawiki.rsna.org

- Most QIBA Profiles have been single modality-based; however, if approved, a Profile for multi-modality plaque imaging (starting with CT angiography) would be a novel use case.

- Methodologies that balance complexity with modality focus under consideration include:
  - Coronary computed tomography angiography (CCTA)
  - CT angiography (CTA)

- Using the QIBA Process, QIBA Profiles seek to reduce bias and variability in measurements and find ways to mitigate them

- Sources of variance may include the following:
  - Patient (prep and biology)
  - protocol
  - imaging site
  - hardware
  - diagnostic tools / software

Action items:
- All participants on the call are asked to fill in sections of the QIBA key criteria for identifying biomarker opportunities form and return to Mr. Buckler (Andrew.Buckler@elucidbio.com) or to RSNA Staff (jlisiecki@rsna.org) by March 20th

- A timeline was established to move the draft of the biomarker committee proposal forward and is as follows:
  - 3/20: Solicit feedback from potential CT Angio TF members (1 week needed)
  - 3/27: Mr. Buckler to merge content received into a single form (1 week needed) and re-circulate to CT Angio TF members for final review/feedback
  - 4/3: Member review/feedback to Mr. Buckler (1 week needed)
  - 4/10: Mr. Buckler to collate and address feedback, and draft a final version for submission to RSNA Staff (for QIBA Steering Committee review on the April 19th call)

Next call: TBD