# **QIBA Volumetric CT Group 3A Update**

Thursday, 13 December 2012 at 11:30 AM CT (GMT-5)
Call Summary

In attendance

Maria Athelogou, PhD (Chair)

Peter Bajcsy, PhD

Jovanna Danagoulian, PhD

RSNA

Guillaume Orieux, MSc

Sarah Sherlock, PhD

Julie Lisiecki

Hubert Beaumont, PhD Alden Dima, MS Ying Tang, PhD

Andrew Buckler, MS Les Folio, DO, MPH

#### **General Updates**

- Monday, February 25, 2013 has been confirmed for the QIBA 3A/QI-Bench /kickoff Meeting (Gaithersburg, MD) for the next challenge
- Study design input from potential participants via an online survey tool was suggested and endorsed by call participants
- Questions could be tabulated before the kickoff meeting to help develop an agenda

#### Proposed Data options for the clinical challenge

- Submission of actual segmentation objects recommended despite creating a challenging analysis, though output formats may vary
  - o Dr. Athelogou would prefer to keep the submission process as simple as possible
- Being an amalgamation of multiple "reference truths", the STAPLE algorithm was suggested for use across data submissions
- Establish sensitivity and specificity per STAPLE: the further away an answer is from the crowd, the worse the result
- Consideration of a reference standard available from ITK.

## Pros and Cons of potential segmentation methods discussed:

• STAPLE • P-Map

DICE
 Jaccard

Soft Staple • Rand

VOTE • Bivariate

More discussion is needed.

### **Challenge Promotion Suggestion:**

- Dr. Beaumont suggested promoting the challenge on LinkedIn for greater visibility
- Potential participants could be surveyed regarding challenge design questions and interest in participation

# Materials needed for Formal Invitation to the QIBA 3A/ QI-Bench /kickoff & next challenge

- Invitation to February 2013 workshop
- Travel logistics
- Draft agenda
- Doodle poll vote to potential participants for a more scientifically rigorous time-intensive challenge (yes or no)
- Survey link for participants to respond to targeted questions regarding design of the challenge
- "Ready-Talk" teleconference details to be provided by NIST for off-site attendees

**Next Steps:** Mr. Dima to prepare QIBA 3A Clinical Challenge Kickoff Meeting Email – to include logistics, draft agenda, Doodle poll voting link, link to online survey with questions to gauge preferences of potential clinical challenge participants.

Next call: Thursday, December 20, 2013 at 11:30 AM CT. Save-the-Date: Thursday, January 10, 2013 at 11:30 AM CT.