QIBA Volumetric CT Tech Ctte General Business Update
Monday, May 16, 2011 at 11 am CDT

Call Summary

In attendance
Andrew Buckler, MS (QIBA Program Director)  Kevin O'Donnell
P. David Mozley, MD (Co-chair)  Nicholas Petrick, PhD
Hubert Beaumont, PhD  Michael Silver, PhD
David Clunie, MBBS  Daniel Sullivan, MD
Gary Dorfman, MD  Ying Tang, PhD
Charles Fenimore, PhD  David Vining, MD
Paul Garrett, MD  RSNA
David Gustafson, PhD  Joe Koudelik
Krishna Juluru, PhD
Michael McNitt-Gray, PhD

General Discussion Items
- Dr Juluru provided an overview of one of the Cornell VolCT proposals
  - Variability of nodules; isolate of various causes of issues
  - Inter-scanner variability due to nodule sectioning (acquisition, algorithm used-multiple parameters)
  - Only for running multi simulations and analysis
  - Juluru project to help establish user guideline; based on 2 use cases
    - To evaluate the change in small nodules
    - Larger nodules – is this progressive disease?
  - Assessment of actual biological artifacts vs how the nodule was sectioned
  - Nodule a homogeneous perfect sphere, noiseless with a fixed contrast – idealized situation here
  - Will provide “real feel” performance as reference (cannot expect better performance)
  - Best we can do under ideal situations; set boundaries for expectations
- Round-1 projects by Drs Zhao (Columbia) and Richard (Duke) to continue with Round-2 funding
- Dr McNitt-Gray’s 1B extension confirmed
- Dr Kim’s statistical analysis to show variation between readers put on hold
- Dr Reeves’ Volcanman study discussed; more details concerning source of data needed
- Algorithm performance and development need more attention
- Synopsis needed listing all views related to each Round-2 proposal

Next Steps
- Confirmed project for Round-2
- Update proposal spreadsheet
- No call on May 23rd