

## 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)  
P. David Mozley, MD (Co-chair)  
Hubert Beaumont, PhD  
David Clunie, MBBS  
Gary Dorfman, MD  
Charles Fenimore, PhD  
Paul Garrett, MD  
David Gustafson, PhD  
Krishna Juluru, PhD  
Michael McNitt-Gray, PhD

Kevin O'Donnell  
Nicholas Petrick, PhD  
Michael Silver, PhD  
Daniel Sullivan, MD  
Ying Tang, PhD  
David Vining, MD  
Binsheng Zhao, DSc

#### RSNA

Joe Koudelik

#### 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' Volcaman 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 23<sup>rd</sup>