

QIBA COPD/Asthma Strategic Plan Working Group Update

August 11, 2011 at 2 PM CDT

Call Summary

In attendance

Philip Judy, PhD (Co-chair)
John Newell, Jr, MD (Co-chair)
Andrew Buckler, MS
Sean Fain, PhD

Eric Hoffman, PhD
David Lynch, MB
Jered Sieren
Daniel Sullivan, MD

RSNA

Joe Koudelik
Julie Lisiecki

I. Progress Reports

- Dr. Judy gave an update regarding progress of the test object (phantom)
 - Exploring cone beam and large collimation issues
 - Working with Drs. Chen-Mayer and Li on these topics
- Dr. Hoffman /Mr. Sieren are working with Mr. Chan to analyze the data object using a linear mixed effect model
- Mr. Buckler gave an overview of how QIBA groups have structured their projects demonstrating the use of Gantt charts and the biomarker roadmap
 - QIBA group activities have interdependencies
 - Activities build groundwork
 - Certain deadlines and obligations must be met for work to proceed
 - Milestones may need to be documented for the NIBIB contract

II. Proposed “Quantitative CT of the Lung” meeting in conjunction with STR meeting (*Society of Thoracic Radiologists*)

- Dr. Lynch, with input from Jonathan Goldin, has put together a draft agenda for a one-day meeting for Quantitative CT of the Lung colleagues
- Would like the input of the group on speaker selections (not invited yet)
- STR will provide CME for this one-day meeting for Quantitative CT of the Lung
- Group did not have a scientific home at any of the larger meetings; this seems like a good opportunity to get the dedicated working groups to move the whole field forward
- If successful, this may become a yearly event at STR
- Dr. Judy felt this would be a good collaborative opportunity to invite partners at NIST and AAPM
- Dedicated volunteer coordinator will be needed
- Possibility of rotating this one-day meeting for Quantitative CT of the Lung among 3 meetings:
 - STR, AAPM, RSNA

III. Where to Begin with Strategic Plan Updates

- Dr. Judy would like to begin with clinical activities and a retrospective analyses of the data
- Questions to consider:
 - Will plan be in terms of a biomarker qualified for drug development? Or
 - Individual patient management? Or
 - Both?

IV. Possibility of three protocols

- Comprehensive assessment of parenchyma and airways
 - (Will a reduced radiation dose result in a tradeoff in performance?)
- Composite protocol – parenchyma / airway simultaneously
- Trade-off protocol – dose and performance
- Idealized comprehensive protocol? (parenchyma airway trapping and sample slices)

Next steps:

- Dr. Newell to follow up with Mr. Buckler regarding Gantt charts/ project examples
- Group in Iowa (Drs. Newell and Hoffman, Mr. Sieren) to draft a preliminary protocol using the UPICT template prior to the next mtg

Next calls:

- Next COPD/Asthma TC update call: *Wednesday, August 24, 2011 at 2 PM CDT*
- Next COPD/Asthma Strategic Plan WG update call: *Thursday, August 25, 2011 at 2 PM CDT*
- Next COPD/Asthma LDCRS WG update call: *Wednesday, August 31, 2011 at 2 PM CDT*