Call Summary

In attendance
Andrew Buckler, MS (co-chair)  
Lawrence Schwartz, MD (co-chair)  
Rahul Bhotika, PhD  
Charles Fenimore, PhD  
John Fraunberger  
David Gustafson, PhD  
Philip F. Judy, PhD  
Grace Kim, PhD  
John Lu, PhD  
Michael McNitt-Gray, PhD

James Mulshine, MD  
Michael O’Neal, MD  
Nicholas Petrick, PhD  
Yuanxin Rong, MD, MPH

RSNA
Fiona Miller  
Susan Anderson, MLS  
Joe Koudelik

General
• Dr Petrick will submit data to AVT; expects initial analysis at minimum

Group 1A Data Analysis
• Drs Kim and Lu have completed preliminary data analysis and will begin writing project summary  
• Eventually need to construct summary conclusions as data analysis continues with data interpretation and logical implications  
• Dr Lu presented numerical data; also has graphical representation  
• Data segmented by nodule shape; 2 scans; 2 densities; 2 slice thicknesses; semi-automated RECIST measurements made  
• Differences in readers seen; three of six readers had experience with OncoCare volumetric tool  
• Wide variability (inter- and intra-reader variation) seen in thick and thin slice reading; relative bias increases between thick and thin slices  
• Segmentation datasets to be examined for possible explanation as to reader error  
• Thin slice is within target threshold (15% error); thick slice is beyond threshold even in this limited condition  
• Error measures based on RECIST need to be compared to actual volumes  
• Some tasks were more idealized than in clinical practice  
• Reader ‘consensus mean’ defined as average of mean from each reader  
• Orientation is important consideration re: density calculation  
• Consider abstract submission for meetings and for publication  
  o AAPM (July meeting in Philadelphia) has abstract submission deadline of March 3

Next Steps
• Dr Petrick will submit data to AVT  
• RSNA staff will distribute Drs Lu and Kim data prior to next call  
• Drs Lu and Kim to continue presentation of data  
• Continue discussion on draft FDA Briefing Document