QIBA Proton Density Fat Fraction Biomarker Committee (PDFF BC) Update Call
Thursday, June 6, 2019 at 3 PM (CT)
Call Summary

Participants
Scott Reeder, MD, PhD (Co-chair)
Mustafa Bashir, MD
Mark Bydder, PhD
Gavin Hamilton, PhD
Walter Henderson, BA
Harry Hu, PhD
Samir Sharma, PhD
Claude Sirlin, MD
RSNA
Joe Koudelik
Susan Stanfa

Moderator: Harry Hu, PhD

Review of Previous Call Summary
• The 05.02.2019 call summary was approved as presented

Multi-Vendor Calimetrix Phantom Study Update (Dr. Hu)
• LipoQuant is a protocol routinely used in many clinical trials and is suggested based on hepatology expertise, not imaging expertise; it may not be relevant for the purposes of this study
  o Dr. Hernando has been reacquiring images on University of Wisconsin’s 1.5T GE scanner with and without parallel imaging to determine the cause of variability
  o It was confirmed that the phantom will not be returned to San Diego (no benefit)
  o Two additional scans on another 1.5T, a temperature scan and analysis of results were deemed reasonable next steps
  o Before deliberating on how to correct for variability, its true cause needs to be identified and understood
  o Goodness of fit needs to be looked at as well: Drs. Sirlin, Hamilton, Henderson and Middleton to devise a plan and assign tasks
• It was emphasized that the original purpose of the round-robin study was to determine range of bias in PDFF measurement using various vendor techniques at 1.5T and 3T
  o The main goal of the study is the resulting paper, which will inform the Profile Claims; caution voiced not to delay progress by chasing three poor correlations; the paper is primary study objective
  o It was relayed that ISMRM attendees were more interested in when the paper would be published than they were concerned with the three bad data points
• To ensure that software versions and parameters are standardized, phantoms will be sent back to the Siemens sites due to water/fat map swapping issues with scanner reconstructions
  o Duke University, Nationwide Children’s Hospital, Mayo and CHOP have received updated reconstruction protocols from Siemens; re-scans of phantom with new protocol to be conducted
  o Dr. Bashir requested that the phantom be shipped to Duke University no sooner than late June or early July
  o Dr. Hu to email the other two Siemens site contacts, Drs. Serai (CHOP) and Shu (Mayo), to develop a phantom re-scan shipping schedule
  o Once re-scanning at Siemens sites is completed, round-robin testing will be concluded
• A draft manuscript based on the experiment is underway

Next call: Thursday, August 1, 2019 at 3 PM CT [1st Thursday of July is Independence Day – RSNA HQ is closed]
RSNA Staff attempt to identify and capture all committee members participating on WebEx calls. However, if multiple callers join simultaneously or call in without logging on to the WebEx, identification is not possible. Call participants are welcome to contact RSNA staff at QIBA@RSNA.org if their attendance is not reflected on the call summaries.