QIBA Proton Density Fat Fraction Biomarker Committee (BC) Update Call
Thursday, February 9, 2017 at 3 PM (CT)

Call Summary

Participants

Scott Reeder, MD, PhD (Co-chair)  Gavin Hamilton, PhD  Michael Middleton, MD  Joe Koudelik
Claude Sirlin, MD (Co-chair)  Diego Hernando, PhD  Nancy Obuchowski, PhD  Susan Weinmann
Mustafa Bashir, MD  Harry Hu, PhD  Ali Pirasteh, MD
Thomas Chenevert, PhD  Edward Jackson, PhD  Suraj Serai, PhD
Manuela França, MD

RSNA

Review of Previous Call Summary

- The 01.05.2017 call summary was approved as presented

PDFF Meta-Analysis Publication Update

- Most assigned writing tasks have been completed, e.g. abstract, methods, results
- Introduction to be finished by Dr. Sirlin
- Drs. Reeder & Obuchowski to discuss statistical/numerical question offline
- Dr. Yokoo to compile all sections into a complete document and RSNA staff to distribute to PDFF BC
- Target journal will be Radiology
- Dr. Sirlin to check with Dr. Yokoo on timeline

Profile Update

- PDFF BC materials are in Dropbox/QIBA PDFF Task Force; new accounts may be obtained by emailing Dr. Reeder: sreeder@uwhealth.org
- Claims
  - Final numbers will have been determined for Claim development
  - Tables to be filled in with numbers obtained through meta-analysis process
  - Discussion on overview analysis vs. detailed analysis; specific information to be omitted from body of the Profile
  - MRE Profile Claim to be used as a structure model
  - Discussion of issue within MRE Profile:
    - Based on a re-analysis of data for this manuscript the claim for the profile was updated; the threshold for percentage stiffness change that represents a biological change was adjusted
      - The Claim read: “The clinical performance target is to achieve a 95% confidence interval for a true change in stiffness has occurred when there is a measured change in hepatic stiffness of 22% or larger.”
      - Revised to a “repeatability coefficient of \( \leq 19\% \) is conformant with this Profile.”
• Clarify that the repeatability coefficients data table applies to new vendor products, not established MRE systems
• Discussion on whether to lower percentage further
• Issue to be taken back to MRE Profile-Writing TF

  o Dr. Obuchowski referred to Claim Guidance Document located on the QIBA Wiki at: http://qibawiki.rsna.org/index.php/Process_Coordinating_Committee and Claim development was discussed
  o After meta-analysis paper completed and submitted for publication, PDFF BC to focus on MRE Profile

Announcements
• PDFF BC members attending the SAR Annual Meeting (March 26 – 31) in Hollywood, Florida to meet face-to-face
• PDFF BC members attending the ISMRM Annual Meeting (April 22 – 27) in Honolulu, Hawaii – RSNA staff to assist with scheduling a face-to-face meeting

Next call: Thursday, April 6, 2017 at 3 PM CT