

QIBA MRE Biomarker Committee Inaugural Call

Tuesday, January 13, 2015 at 2 PM CT

Draft Call Summary

Participants

Richard Ehman, MD (Co-Chair)

Edward Jackson, PhD

Frank Miller, MD

Suraj Serai, PhD

Claude Sirlin, MD

Daniel Sullivan, MD

Sudhakar Venkatesh, MD

RSNA

Fiona Miller

Joe Koudelik

Julie Lisiecki

QIBA Profile Effort for MRE

- Dr. Sullivan provided an overview of the QIBA mission regarding the need to improve the reproducibility and precision of quantitative measurements that come from scans, focusing more on the measurement accuracy rather than clinical utility
- MRE Profile to be data-driven, focusing on the characterization of bias and precision in MRE measurement targets for achieving these measurements, focusing on issues important to specific reproducibility
- Must specify the levels of bias and precision that are achievable by using the Profile
- Discussion of additional Profile guidelines including methods, techniques, use of explanatory text, addressing compliance, etc.
- The value of quantitative decision-making must be made clear: clinical use, FDA approval process, imaging standardization, etc.
- Groundwork to obtain these reproducible numbers will be needed
- A combination of physical and digital reference objects (DROs) phantoms may be needed to complete the groundwork studies
- Exploration of a tailored literature search may begin with the following:
 - A discussion of the claim language (the metrology template to serve as a guide)
 - What is the clinical context?
 - What is the measurand?
 - Is bias and precision data available?

Claims:

- Suggestion for an editorial in *Radiology to summarize Profile and claims*, Division of writing and groundwork by topic, if needed

Next call:

- TBD – will be determined via Doodle Poll
- Drs. Cole and Ehman to meet by t-con prior to the next call.