

QIBA Multi-disciplinary collaboration for plaque imaging by CT angiography

30 July 2018 at 11 AM CT

Call Summary

On Call

Andrew Buckler, MS (Co-Chair)

Uwe Joseph Schoepf, MD (Co-Chair)

James DeMarco, MD

Laura Jimenez-Juan, MD, PhD

Eran Langzam, PhD

Taylor Richards, PhD

Marly van Assen, MSc

Akos Varga-Szemes, MD, PhD

RSNA Staff

Joseph Koudelik

Susan Stanfa

Announcements

- New Co-Chairs were introduced:
 - Luca Saba, MD (University of Cagliari, Italy)
 - Uwe Joseph Schoepf, MD (Medical University of South Carolina)

Overview of Profile Section 3: Profile Requirements

- Scanner protocol and output reproducibility will be the Profile focus
- Activities to be performed to meet Profile Claim and requirements for separate “Actors” were described
- Performance requirements and specification tables will outline what measurement bias and reproducibility is to be obtained, rather than how to accomplish the goal with a given protocol (i.e., manufacturer settings specified, but not the approach); this approach mitigates measurement error while allowing for vendor innovation
- Conformance procedure and requirements needed, as certain scanners or imaging sites may/ not be able to conform to the rigorous Profile performance
- Guidance needed to make sure certain minimum criteria are met (e.g., specifications for slice thickness)
- Using phantoms is one way to develop assessment procedures based on ground truth
- Setting the performance bar:
 - If imaging standards are too high, the Profile may not be used by vendors or imaging sites, thus limiting clinical application
 - If imaging standards are too low, value of the Profile is lost
- Performance requirements may differ for organ systems (e.g., head and neck vs. coronary)

Next Steps

- Drs. Saba and Schoepf to provide their research interests and perspectives on the next committee call
- Suggestion to create section writing assignments for Subject Matter Experts (SMEs)
- Future calls will be used for Profile work, rather than high-level discussion

Next call: Monday, August 13th at 11 am CT