The QIBA FDG-PET/CT Biomarker Committee: Overview and Status Update 2017

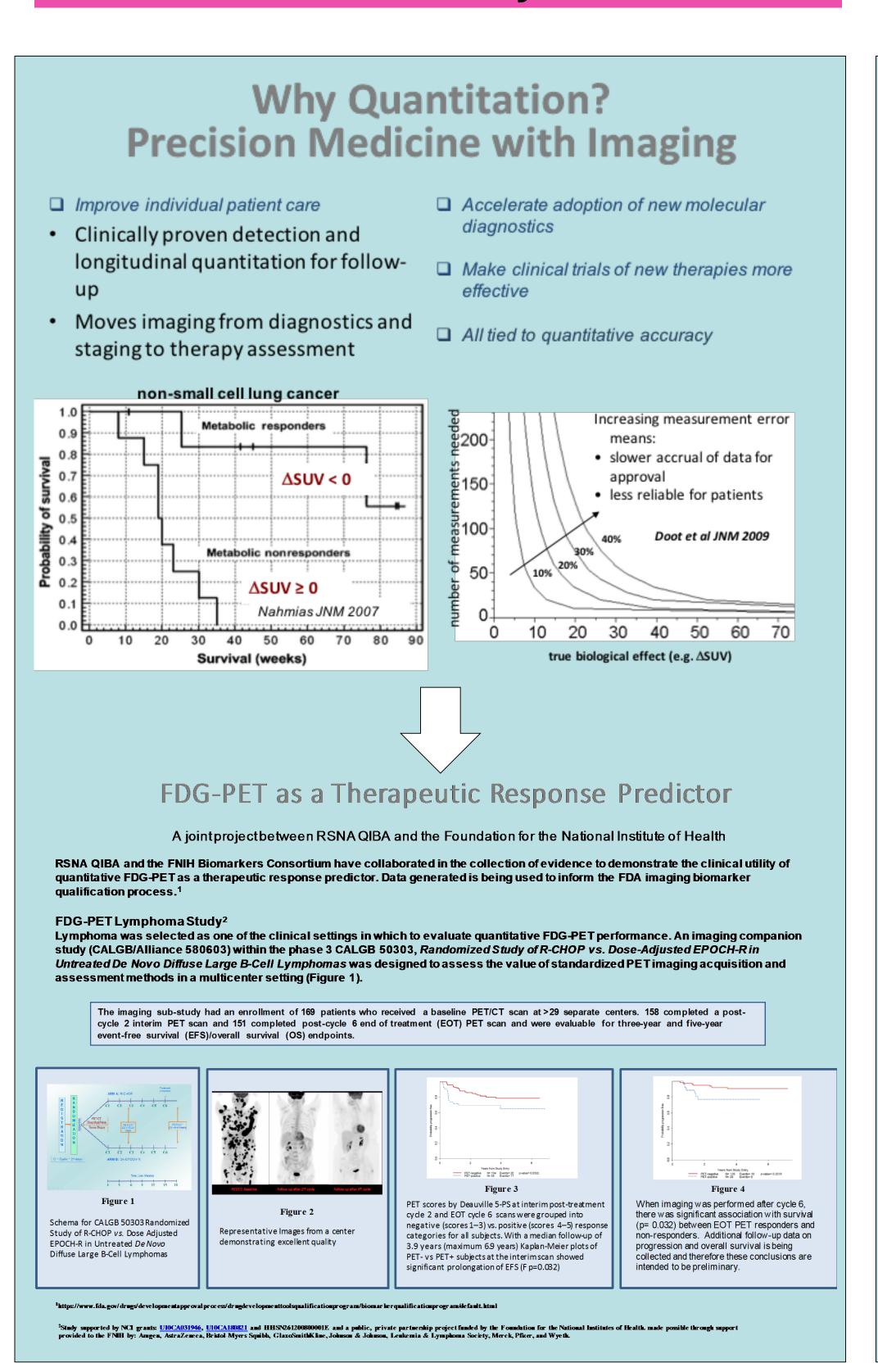
Accelerating the development of new therapies and improving assessment of response



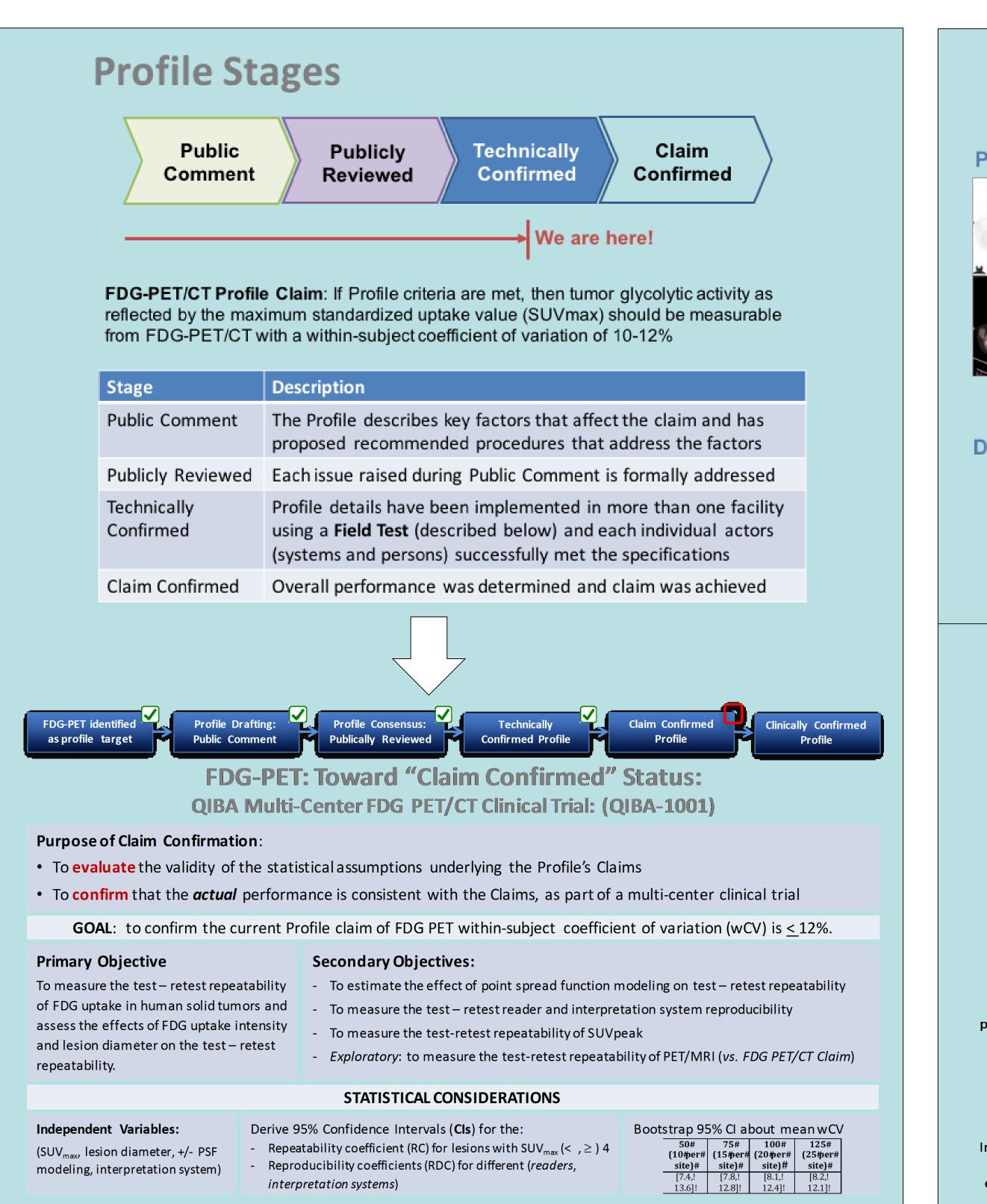
Quantitation – Why and How

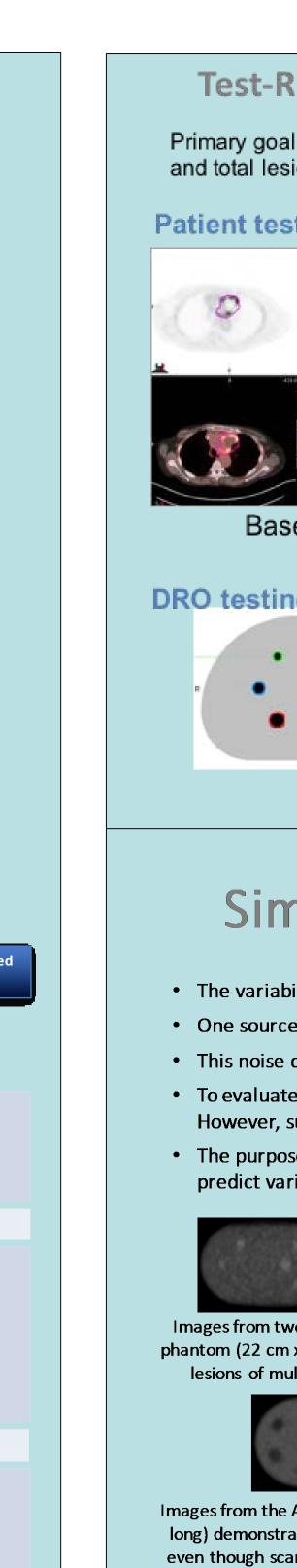
Transition to a Technically Confirmed Profile

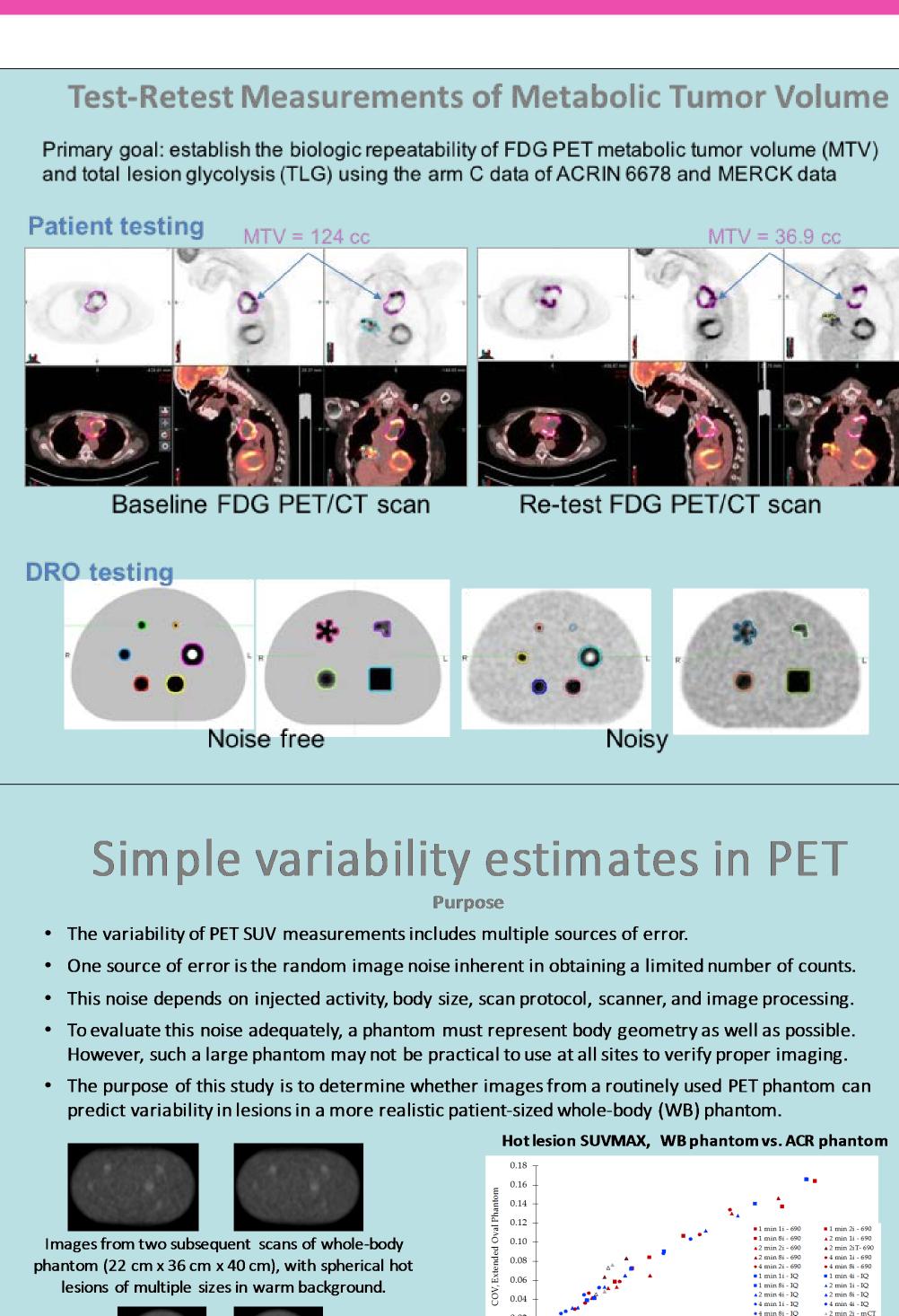
Other Recent and Current Groundwork Projects

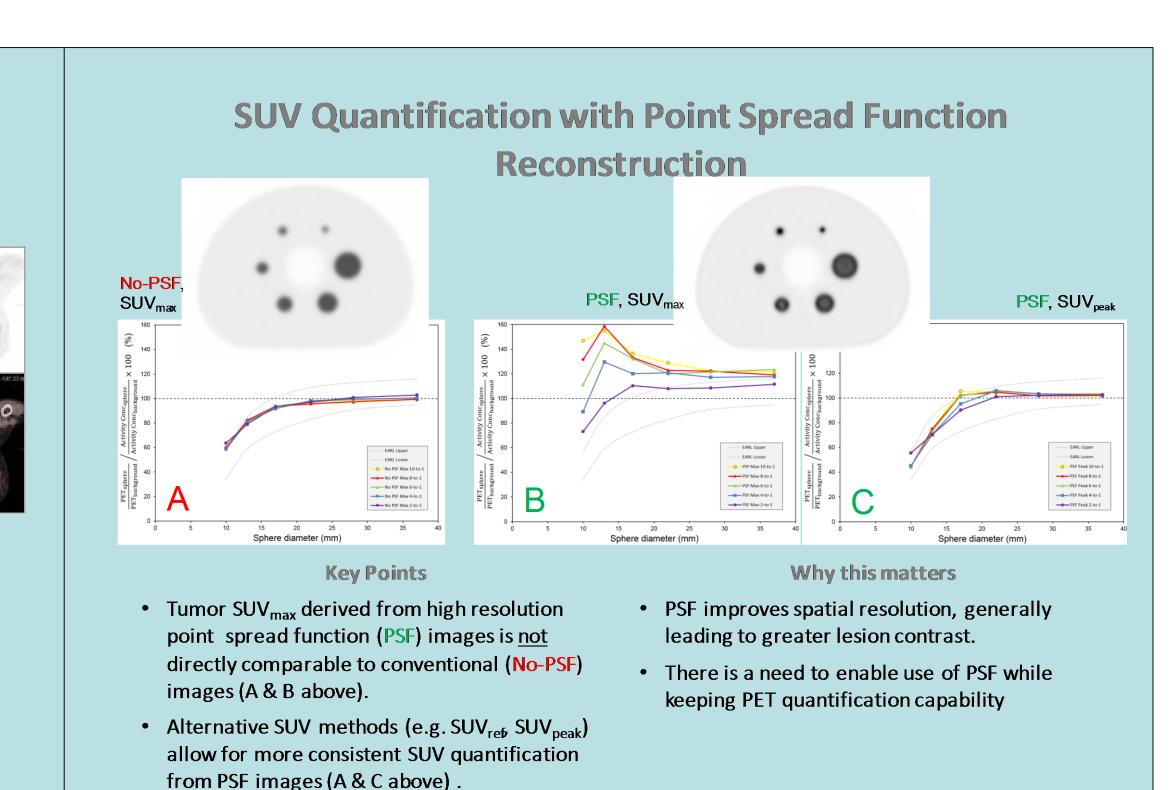


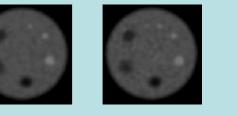
RSNA 2017



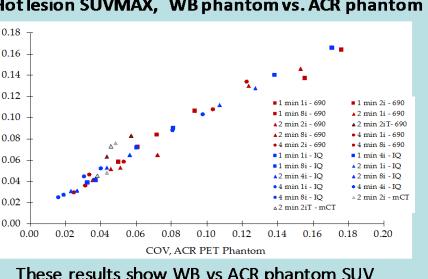








Images from the ACR PET phantom (20 cm dia, 20 cm long) demonstrate less variability than whole-body, even though scanned and processed the same way.



These results show WB vs ACR phantom SUV_{max} measurements for 3 scanners and 3 scan durations and demonstrate that whole-body noise can be predicted from repeated scans of a commonly used phantom

What We're Doing and How You Can Participate

Specific accomplishments and plan

- ✓ Collection of recommendations for quantitative PET
- ✓ Presentation (joint with FNIH) to FDA for

Biomarker Status

- ✓ NIBIB grant applications to fund operations
- ✓ Year 1 -4 research projects accomplished
- ✓ Year 5 research project funding- progress ✓ FDG-PET/CT Profile published and publically
- reviewed ✓ Collaboration with UPICT on Protocols
- ✓ Amyloid Writing Group established, Draft profile approaching completion
- ✓ PET Amyloid Profile Writing Group working for 2 years and became an Affiliate of Global Alzheimer's Association Interactive Network
- ✓ SPECT Profile Writing Group initiated
- ✓ Completed Phase II Profile testing of PET/CT FDG profile.
- ✓ Implementation of Profiles
- ✓ Clinical use of Profile

Organization Standing Activities

✓ QIBA Monthly Steering Committee meeting

- ✓ Profile telephone conferences: Alternating weekly for FDG profile, Amyloid profile, and
- ✓ Bi-annual QIBA meetings, and updates at RSNA
- ✓ Working visits with vendors

SPECT profile writing groups

- ✓ Special task force meetings as necessary
- ✓ Profile testing
- ✓ Profile Implementation (by QIBA and vendors)

For more information, visit

http://qibawiki.rsna.org

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