

QIW XX

Technical Breakout Recommendations

November 3, 2023

1 : Publish New Guideline

- **We Recommend To Publish a New Guideline Outlining an Optimal Imaging Protocol For:**

- Low Dose CT Lung Screen
- Emphysema/Wall Thickness
- Coronary Calcium

- **Leverage existing LC Screen and emphysema guideline writing group**

- **Guideline Development Stages**

- Bring in Cardiac Experts
- Review Guidelines/Literature and Available Data
- Reach Consensus
- Publish Manuscript

2021 COVID-19 CT Imaging Guideline

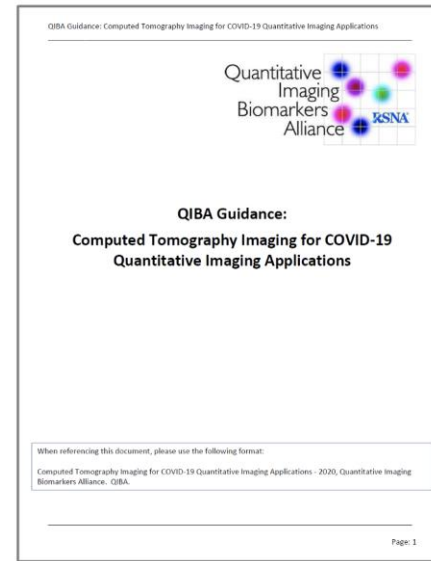


Table 1: Recommended reconstruction kernels for quantitative CT COVID-19 applications.

CT Scanner Manufacturer	Models	Recommended Reconstruction Kernels
Canon/Toshiba	All	FC05
General Electric	All	STANDARD
Philips	All	F, L
Siemens	Force	Br40
	All Others	B40, I40

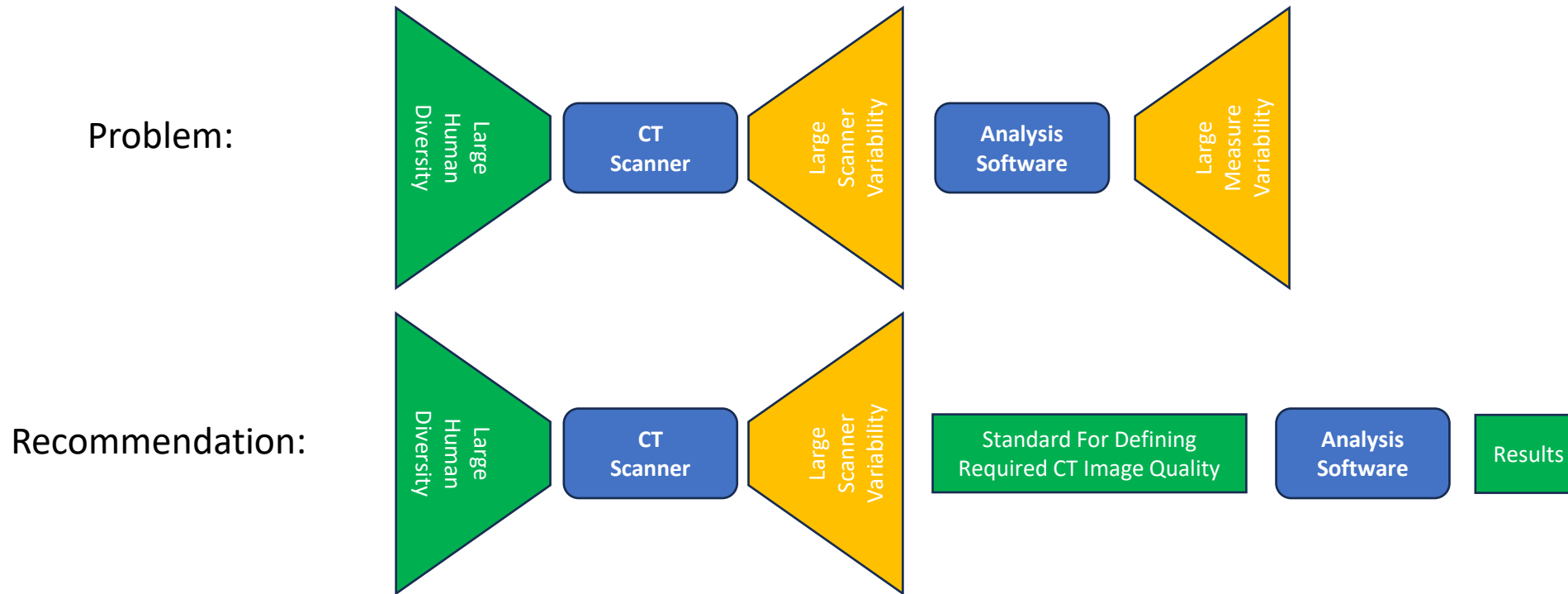
We Also Plan To Prepare Similar Guidance For Combined CT Lung Screening and COPD Imaging

Imaging Guideline Well Under Way For Combined CT Lung Cancer Screen And Emphysema/Wall Thickness

2 : Form CT DL AI Recon Working Group

- We Recognize That The Addition of Deep Learning AI To CT Image Reconstruction Has The Potential To:
 - Greatly Improve Thoracic Imaging
 - May Also Have Many Problems/Issues For Quantitative Measurements
- We Recommend Forming An Additional Study/Data/Collaboration on DL AI Reconstruction
 - Need a multi-axis development and validation approach
 - Data Sources: Clinical, Phantoms, Simulation, Augmented/Hybrid Data

#3 : Analysis Software Requirements



- We Recommend To Meet To Discuss/Develop Guidelines For Minimum CT Image Quality Requirements For Analysis Software
 - Could Inform An International Regulatory Standard
 - Invite International Regulatory And Standard Setting Bodies

Thank You