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

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**2021 COVID-19 CT Imaging Guideline**

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