

QIW 2022

Technical Breakout Recommendations

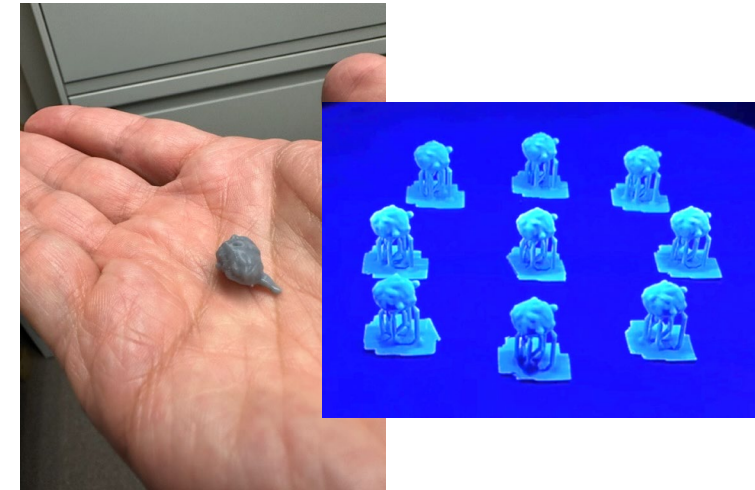
November 4, 2022

Recommendations

1. AI CT image reconstruction has a lot of potential, but we need to perform a lot of validation (physics, computing, clinical) before these new methods can be recommended.
2. **Crowd Sourcing 1:** We need to obtain fundamental CT image quality information on the new photon counting CT scanners (e.g. 3D resolution...)
 - We will quickly establish some fundamental tests that we feel would be most important at this stage.
 - We will then all reach out to our colleagues across the world to see if we can get a small amount of time on a new photon counting scanner and run these experiments.
 - The results will be shared and published.

Recommendations

- 3. Crowd Sourcing 2:** We will be asking our entire network to contribute high quality 3D scans of challenging small lung nodule cases. These will be 3D printed and sent out to all sites that contribute data. The sites will then scan them and send back measurements. This data will be shared and published.
- 4.** We will create a new version of the “Precision Follow-up Time” chart adding in what happens when applying different lung nodule protocols (e.g. Lung-RADS). This may turn into a publication.



Precision Follow-up Time

