



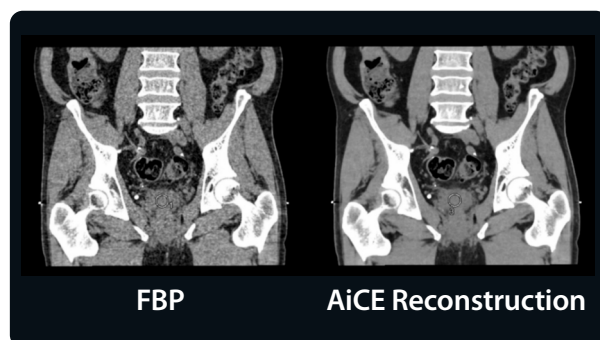
## Defining the Need for Advanced Tools

"Scans with insufficient quality may greatly affect the treatment planning process, potentially resulting in the target receiving insufficient dosage and/or extra toxicity to the organs-at-risk (OAR)s."<sup>1</sup>

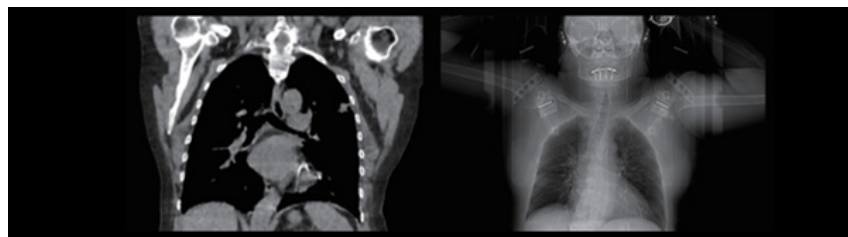
## Advanced Tools for Radiation Oncology

"With AiCE, we can easily address the two most pressing clinical needs of our time: superb image quality with ultra-high matrices acquired within routine scan times or abbreviated scan times with traditional resolution."<sup>2</sup>

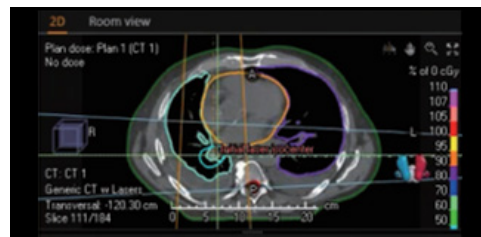
— Dr. Gold, MD  
Clinical Radiologist and Researcher



# Accurate contouring powered by advanced reconstruction techniques



Coronal image of the chest with a small tumor in the upper lobe of the left lung. The AP scanogram displays the treatment and simulation position.



Confidently contour with Aquilion Exceed LB's high image quality.<sup>3</sup>

## AiCE (Advanced Intelligent Clear-IQ Engine)<sup>4</sup>

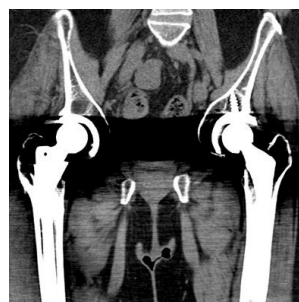
**AiCE** is trained using vast amounts of high-quality image data and features a deep learning neural network that can reduce noise and boost signal.

## SEMAR (Single Energy Metal Artifact Reduction)

### See more with Single Energy Metal Artifact Reduction (SEMAR)

Automated metal artifact reduction

- Robust performance
- No dose penalty
- Built into scan protocol or can be used retrospectively in raw data
- Standard advanced clinical application



Original

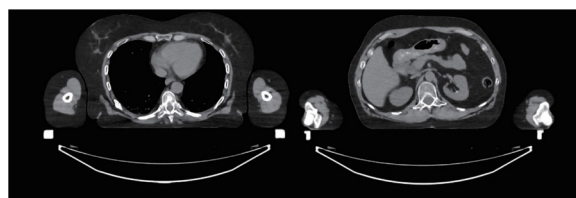
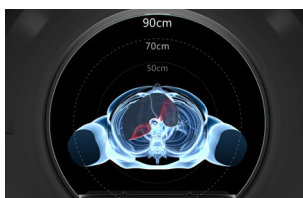
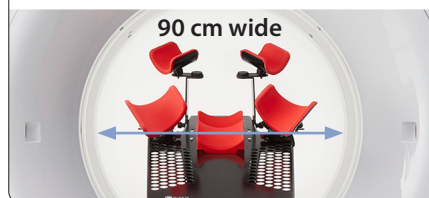


SEMAR

## Edge to Edge Field of View

### Extended Field of View

- Exceed has a 90 cm EFOV (Extended FOV)
- LB has 85 cm EFOV



### Diagnostic Field of View

- 70 cm True FOV (Scan field-of-view)

<sup>1</sup> J Appl Clin Med Phys. 2021 Jun; 22(6): 198–223. Published online 2021 May 3. The application of metal artifact reduction methods on computed tomography scans for radiotherapy applications: A literature review Sathyathas Puvanasuntharajah<sup>1,2</sup>, Davide Fontanarosa<sup>1,2</sup>, Marie-Luise Wille<sup>2,3,4</sup>, and Saskia M. Camps

<sup>2</sup> The clinical results, performance and views described are the experience of the clinicians. Results may vary due to clinical setting, patient presentation and other factors

<sup>3</sup> Contour by RaySearch Laboratories

<sup>4</sup> Optional

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