

Cased-Based Ablation: Top 5 Clinical and Technical Pearls

Robert Suh, MD

Disclosures

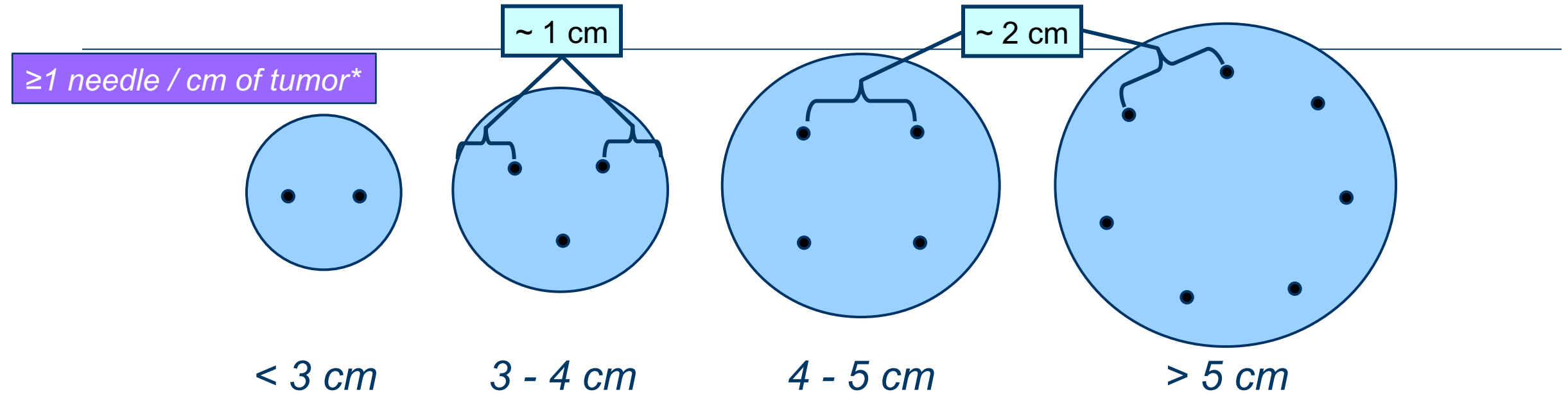
Robert Suh: Consultant – Boston Scientific, NeuWave Medical, Varian; Speakers' Bureau – Boehringer Ingelheim

*Brand names are included in this presentation for participant clarification purposes only.
No product promotion should be inferred.*

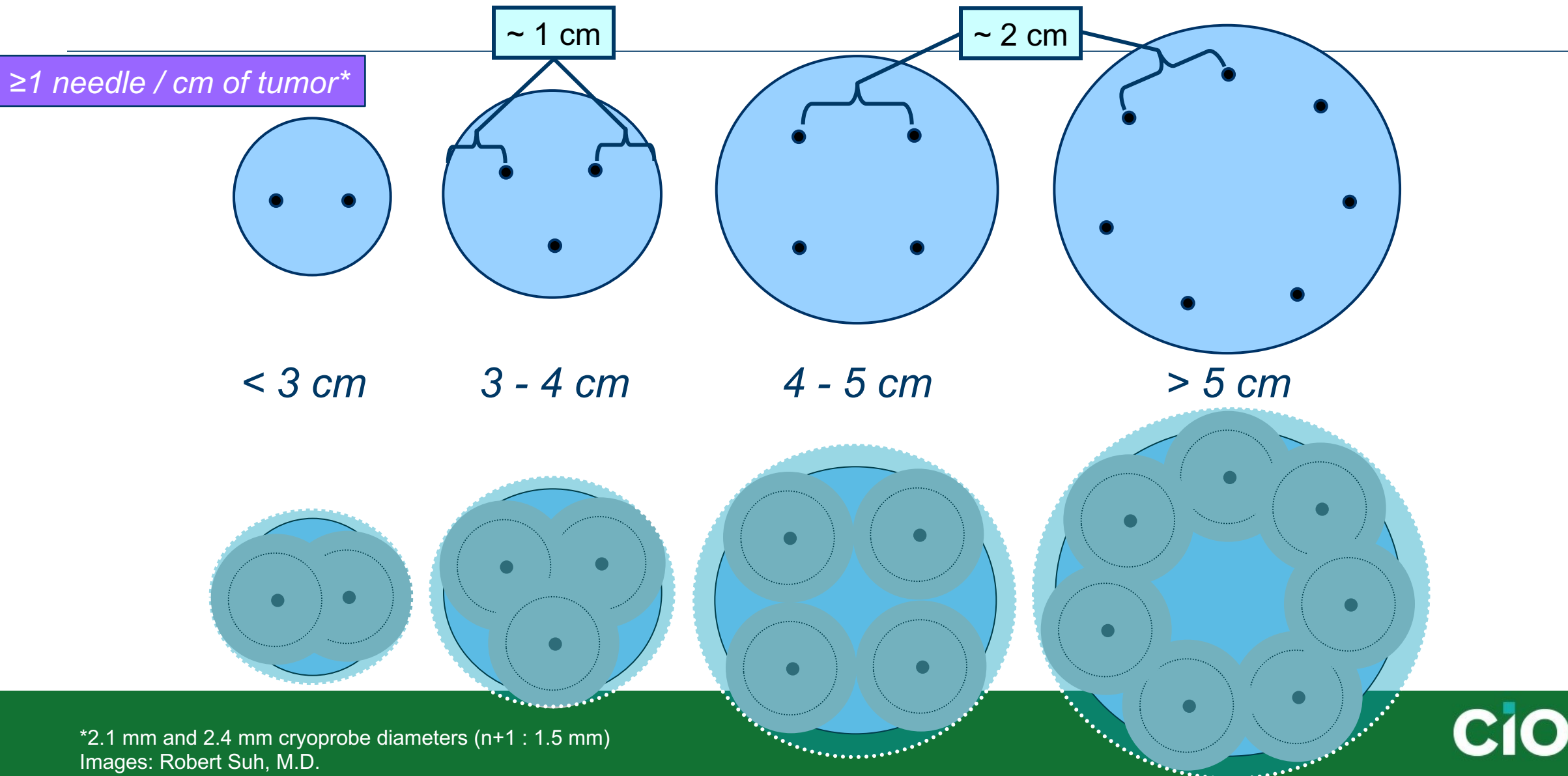
Lung Ablation: Top 5 Clinical and Technical Pearls

- Ablation device placement – cryoablation
- Ablation strategy – microwave
- Preserve margin visualization
- Pneumothorax management
- Hemorrhagic complications

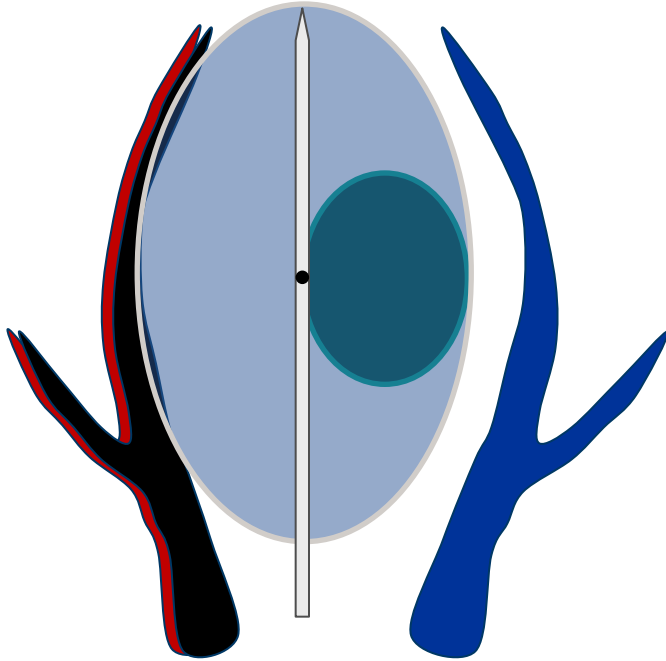
Ablation Device Placement and Monitoring



Ablation Device Placement and Monitoring



Ablation Strategy: Microwave



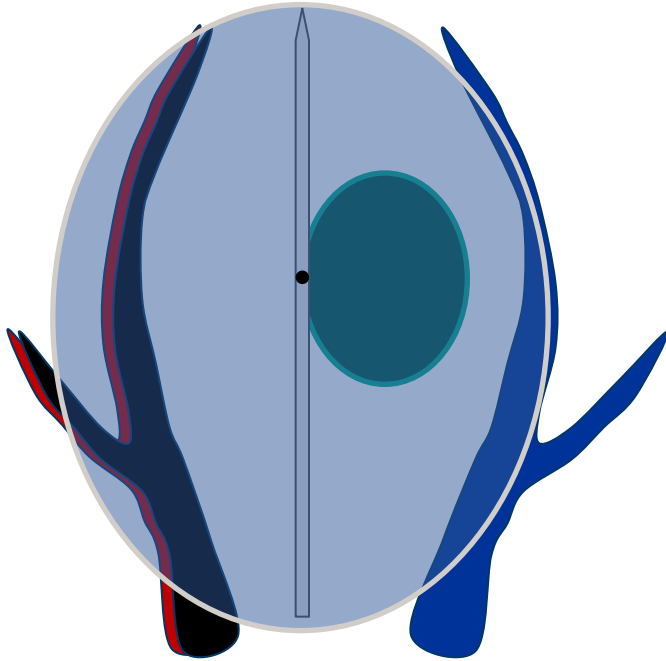
1.1 x 0.86 cm

65 watts

5 minutes

2.80 x 1.74 cm

Ablation Strategy: Microwave



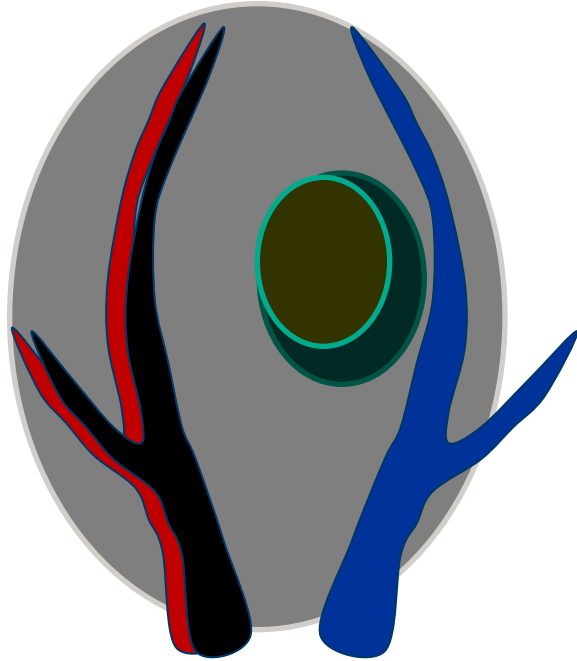
1.1 x 0.86 cm

65 watts

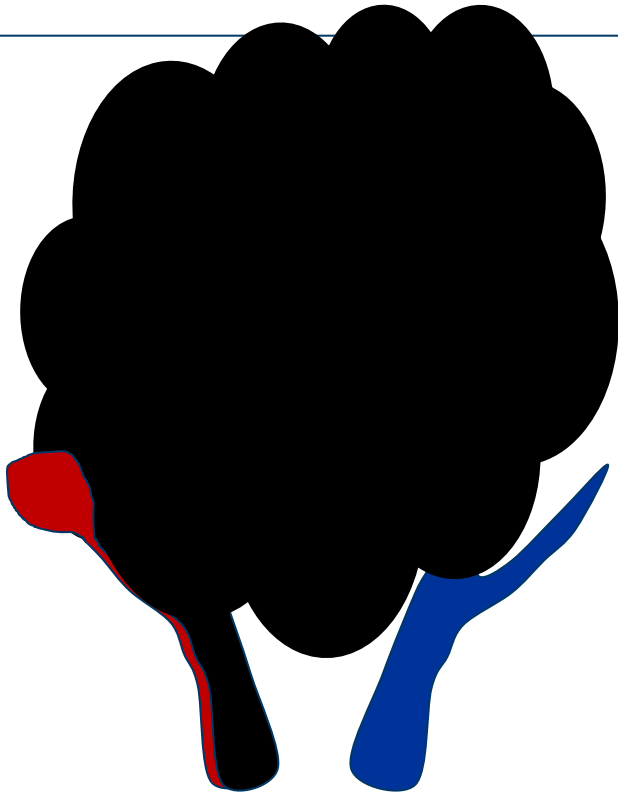
10 minutes

4.08 x 3.22 cm

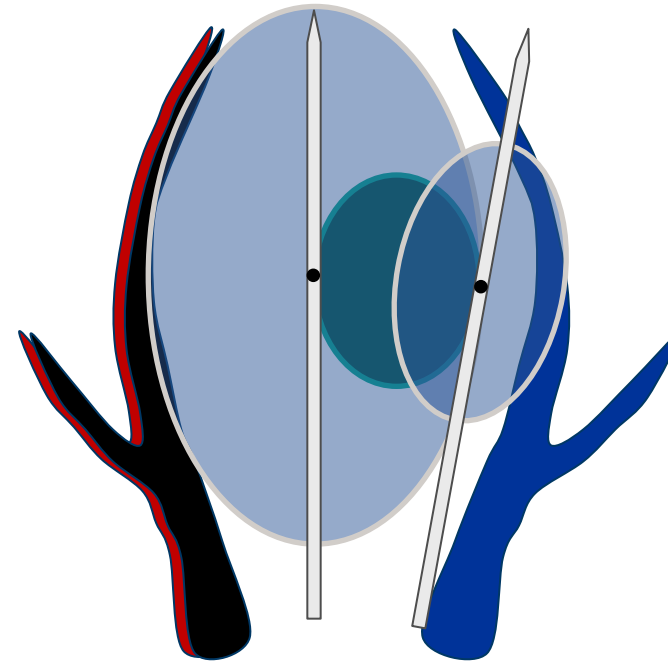
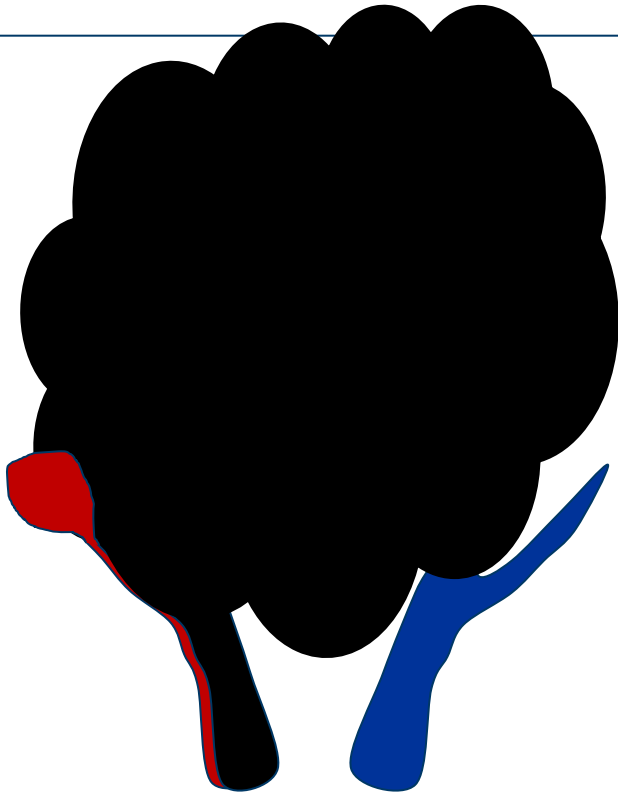
Ablation Strategy: Microwave



Ablation Strategy: Microwave



Ablation Strategy: Microwave



1.1 x 0.86 cm

65 watts

5 minutes

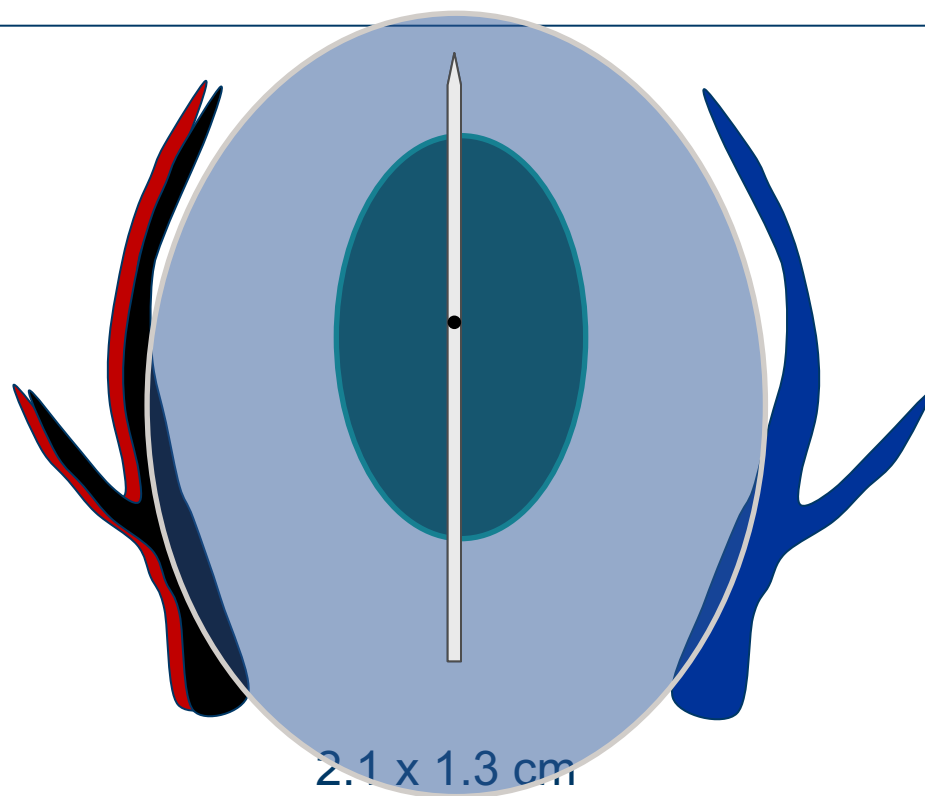
2.80 x 1.74 cm

65 watts

2 minutes

1.40 x 0.80 cm

Ablation Strategy: Microwave

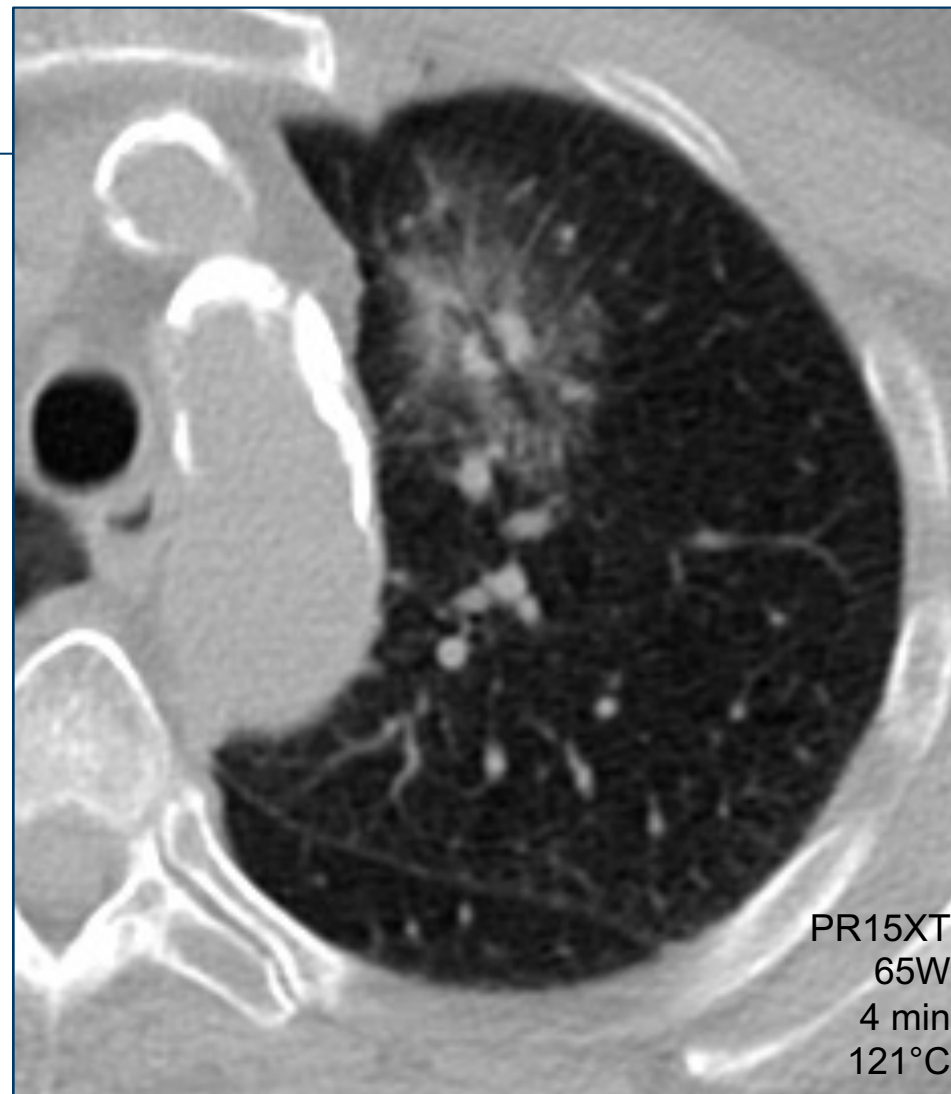


2.1 x 1.3 cm

65 watts

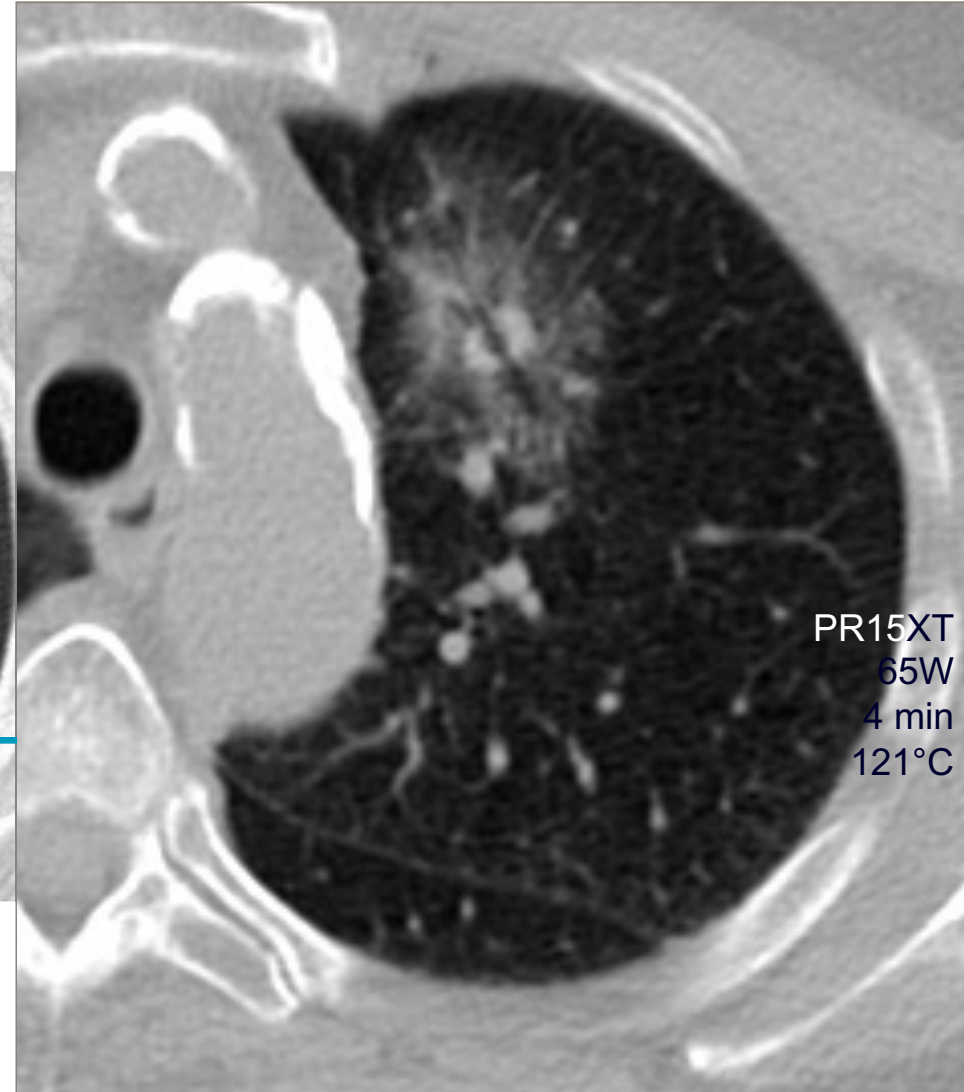
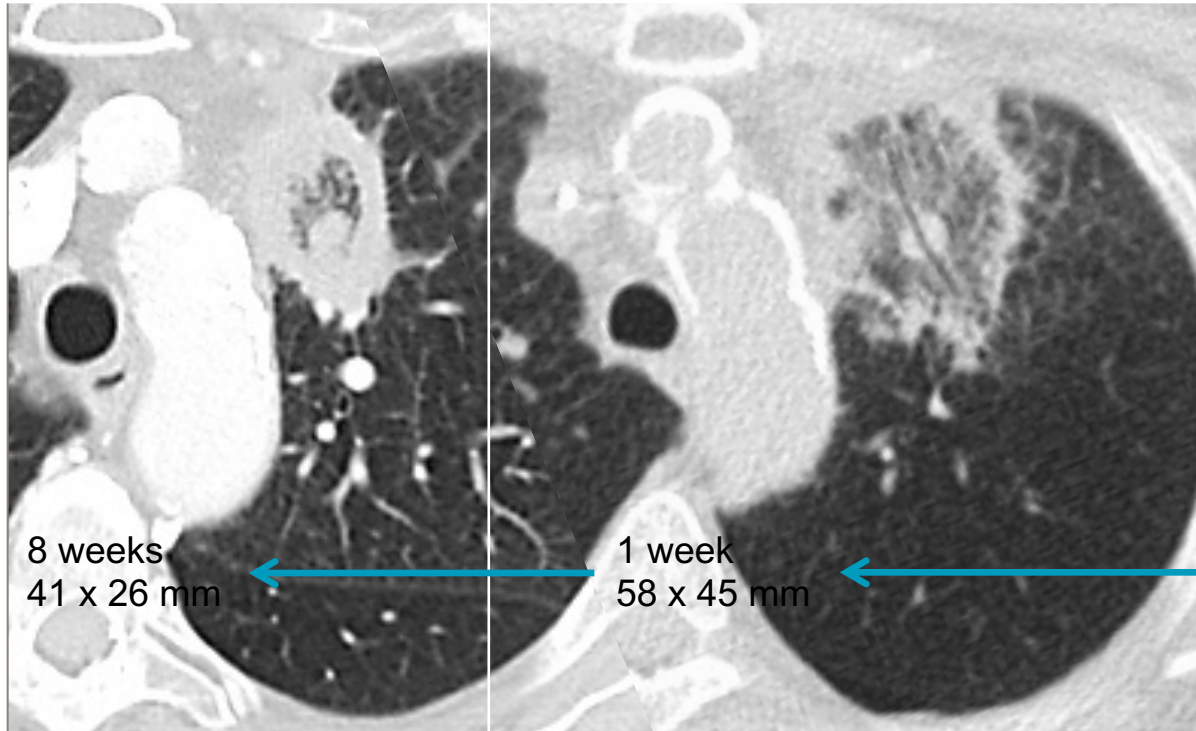
10 minutes

4.08 x 3.22 cm

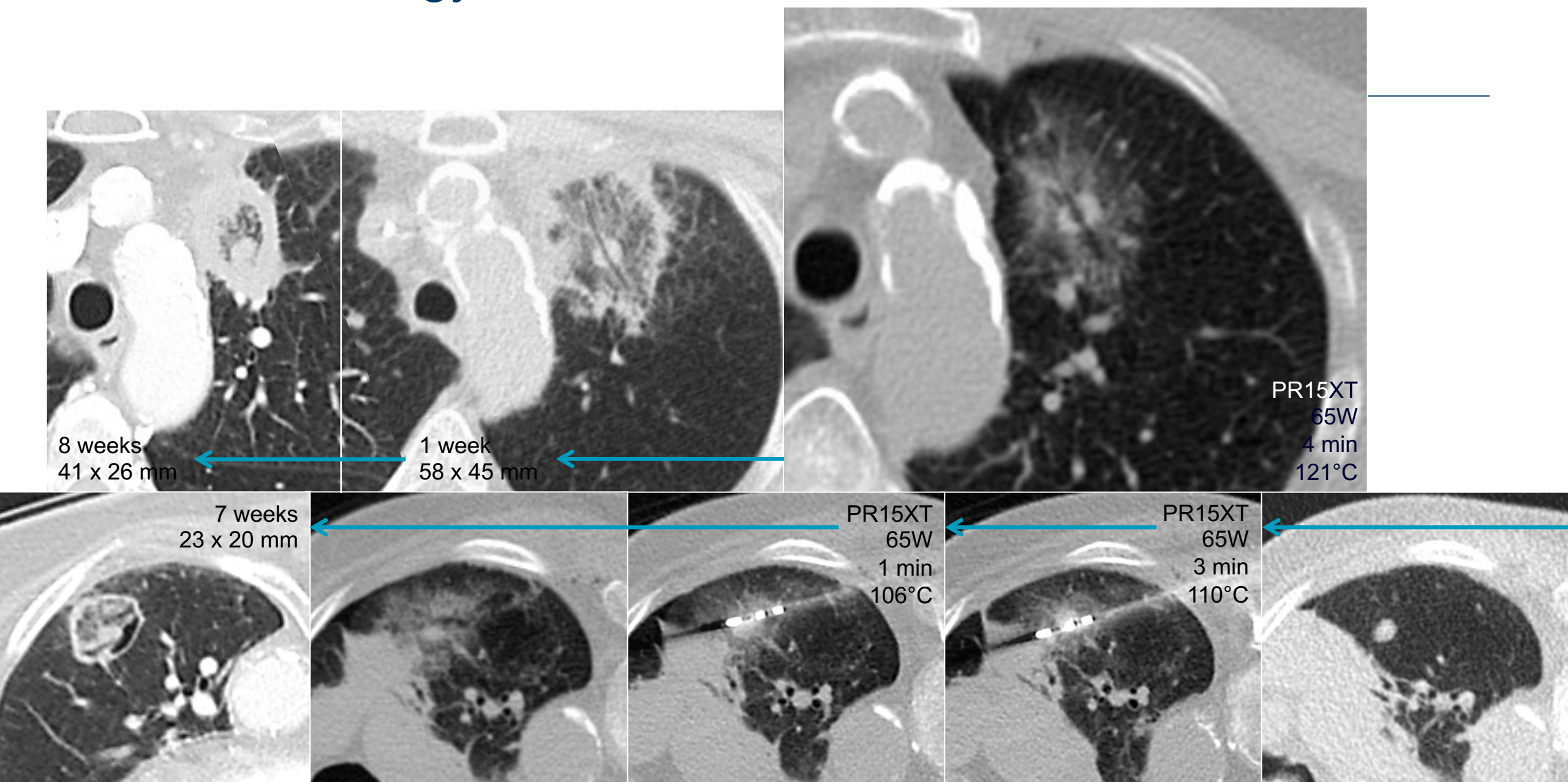


PR15XT
65W
4 min
121°C

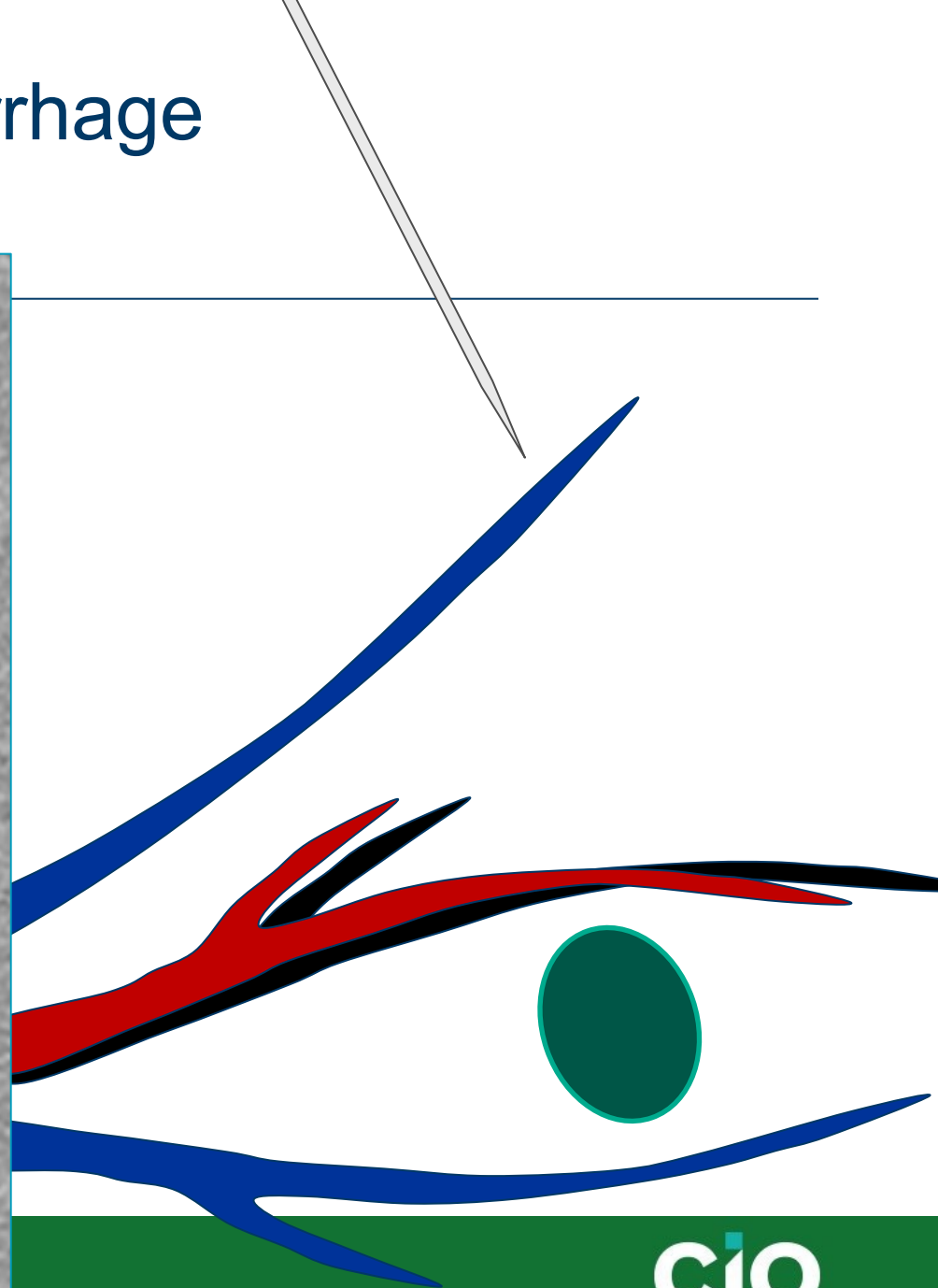
Ablation Strategy: Microwave



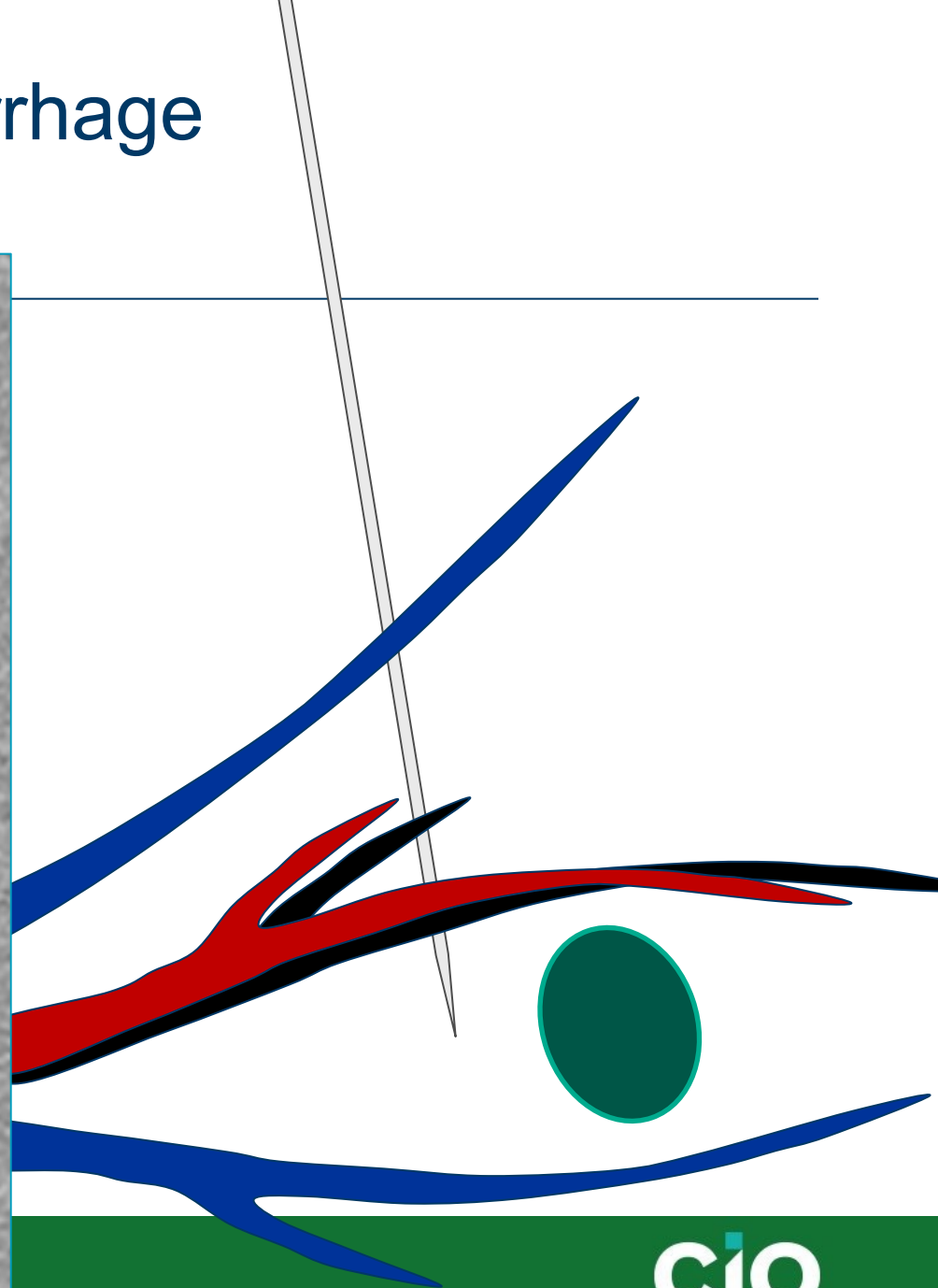
Ablation Strategy: Microwave



Preserve Margin Visualization: Hemorrhage



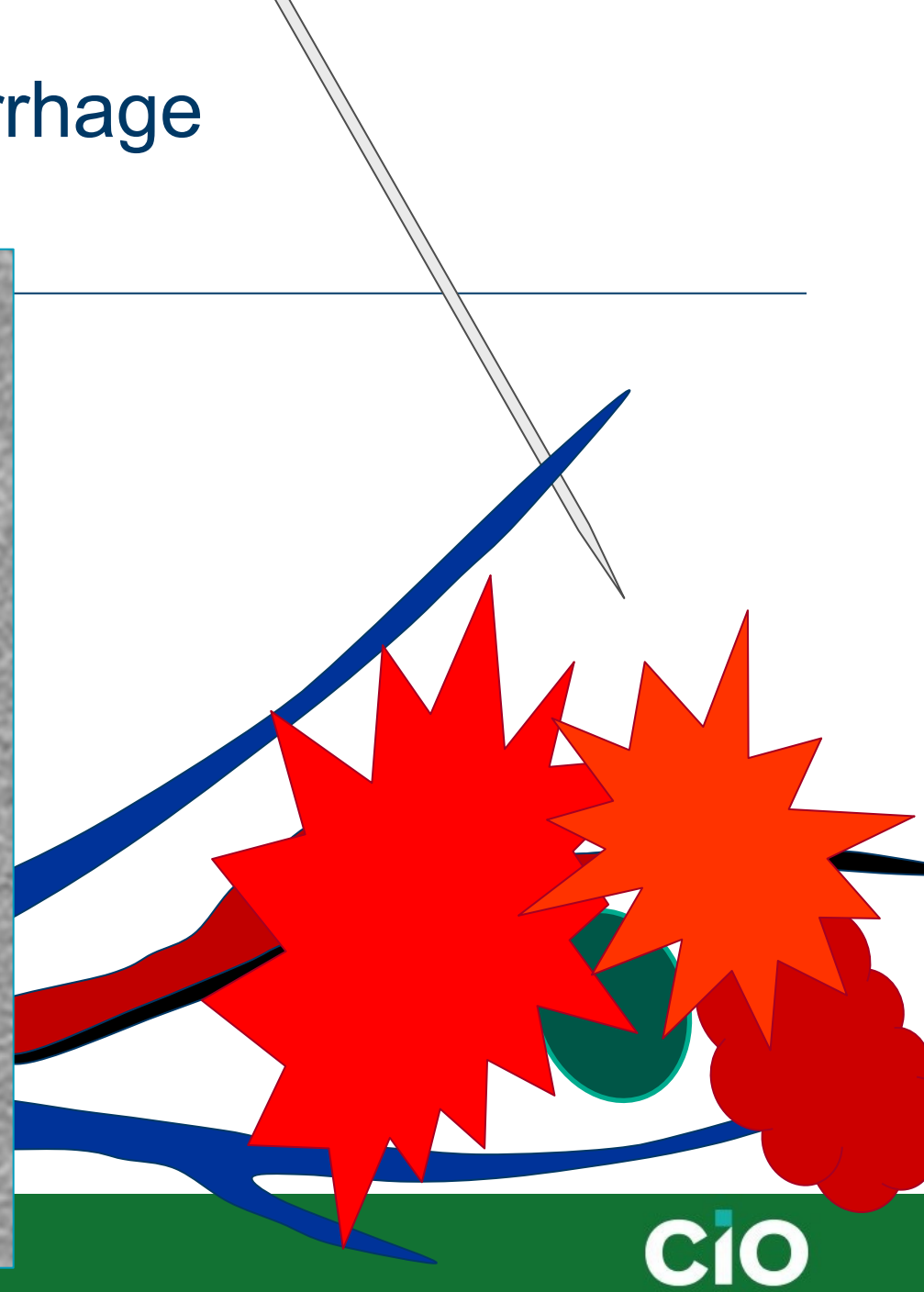
Preserve Margin Visualization: Hemorrhage



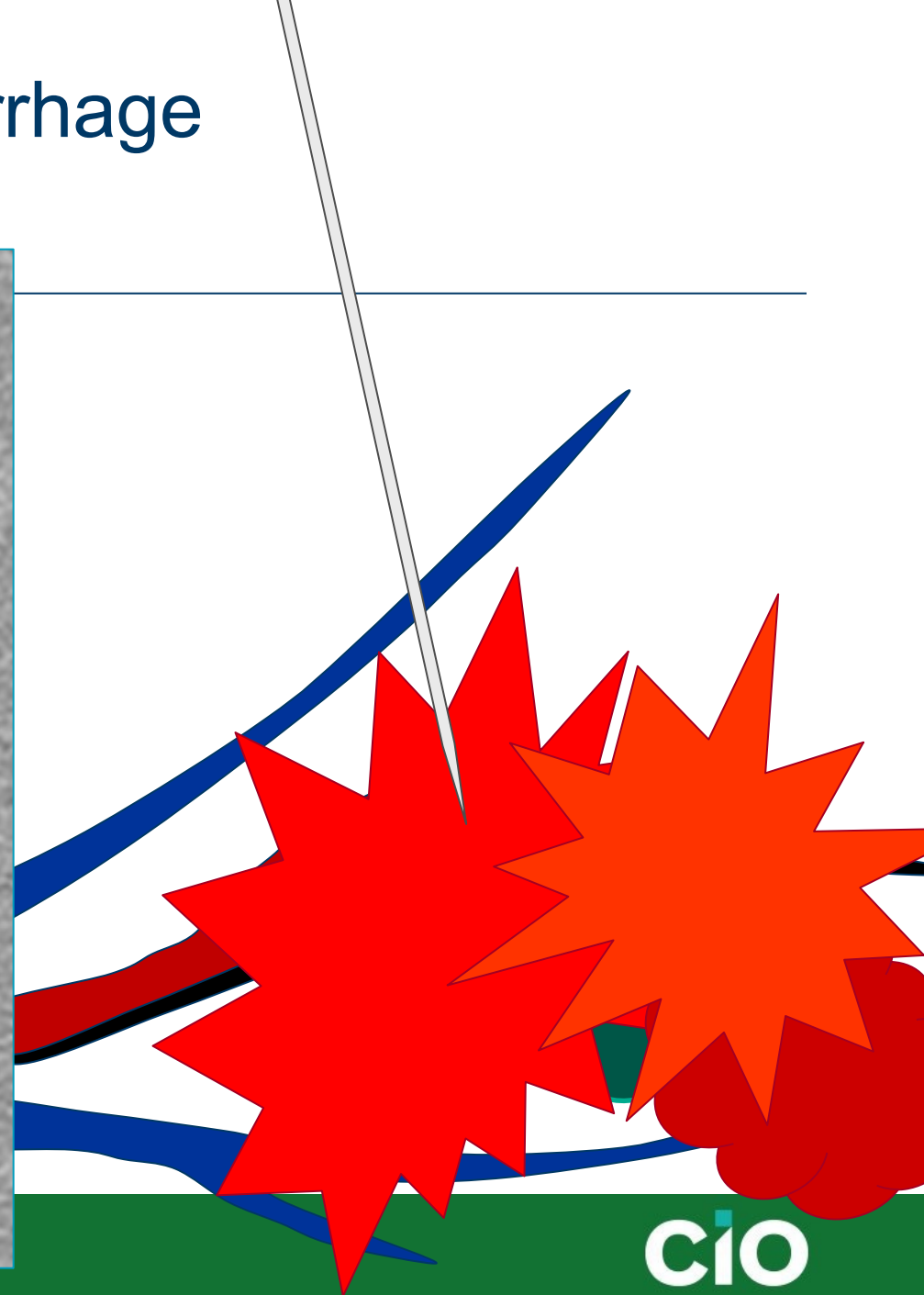
Preserve Margin Visualization: Hemorrhage



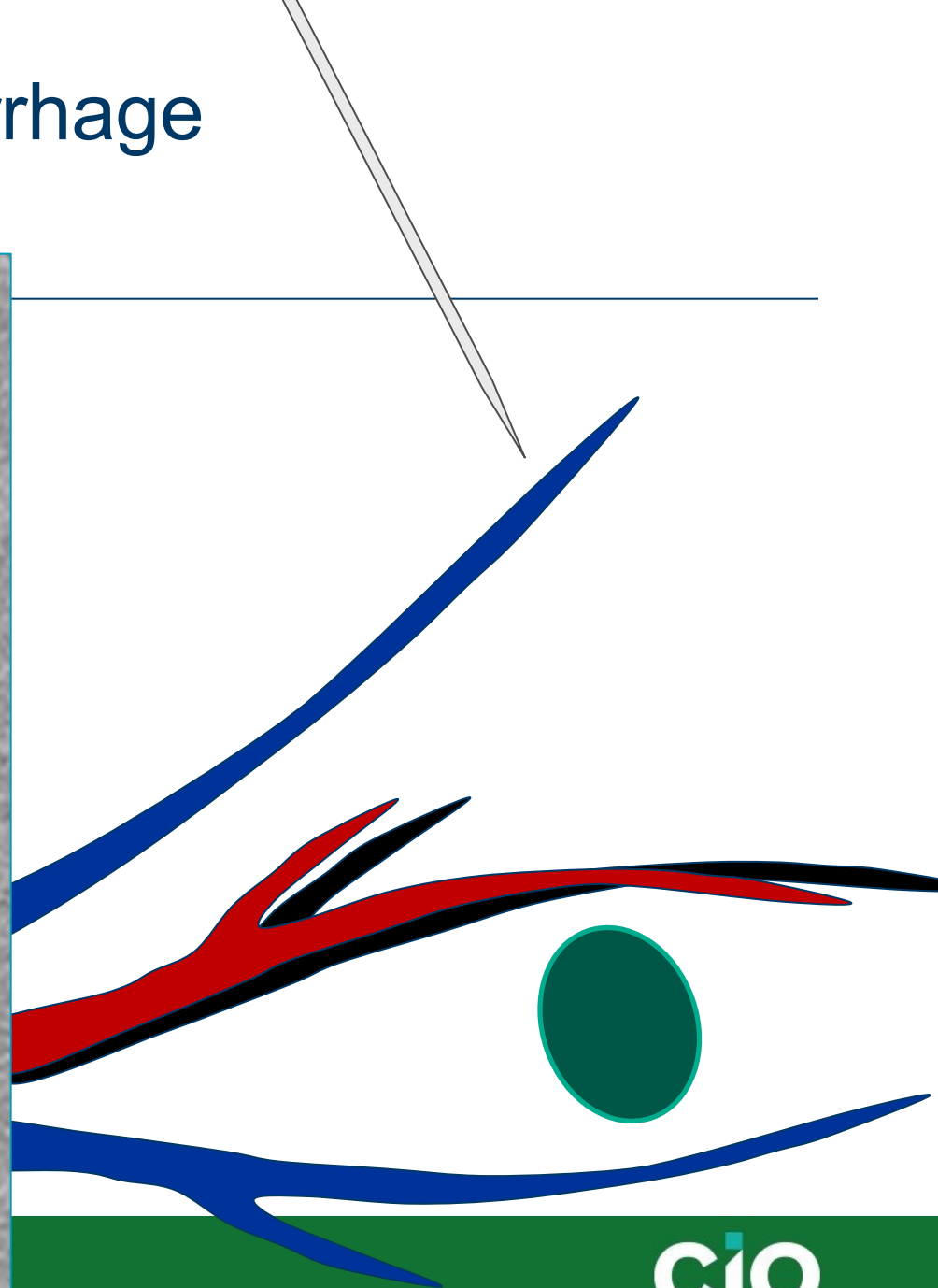
Preserve Margin Visualization: Hemorrhage



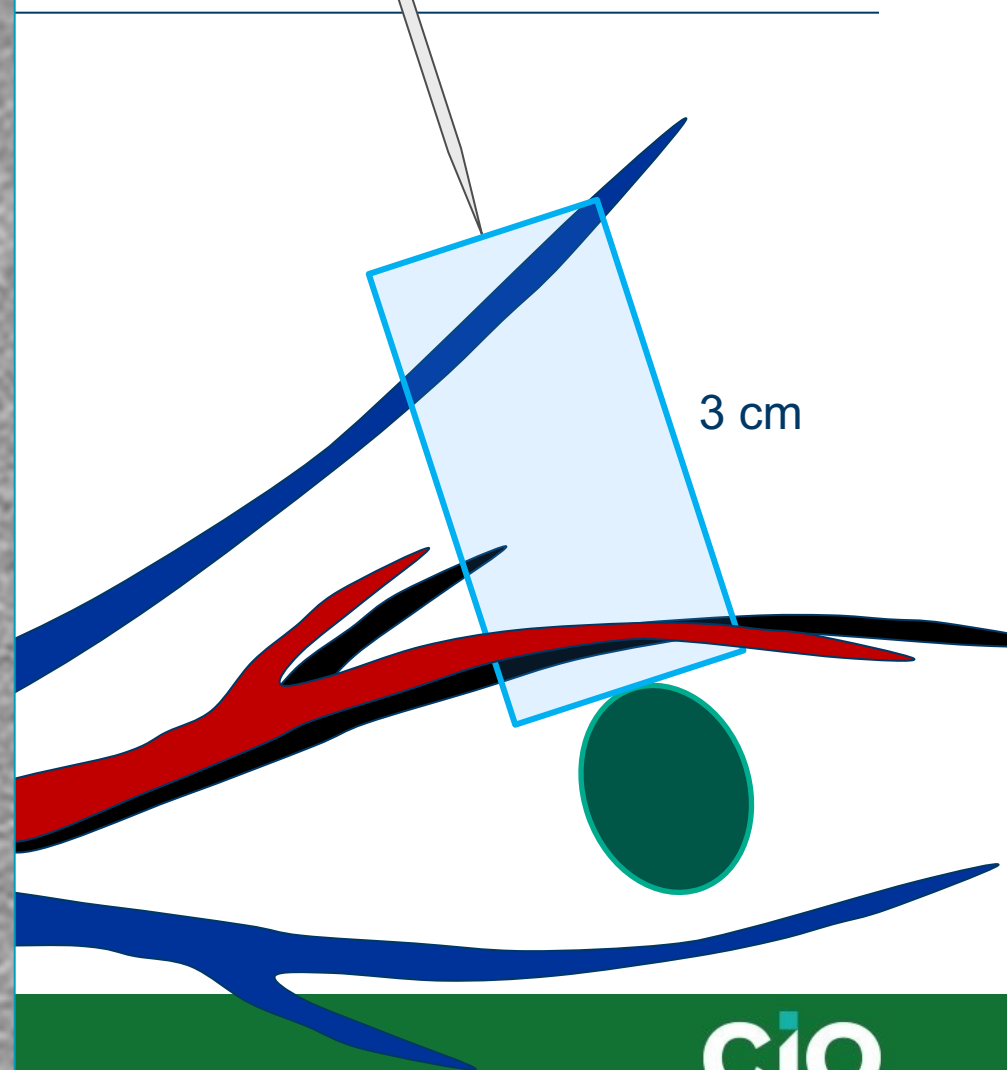
Preserve Margin Visualization: Hemorrhage



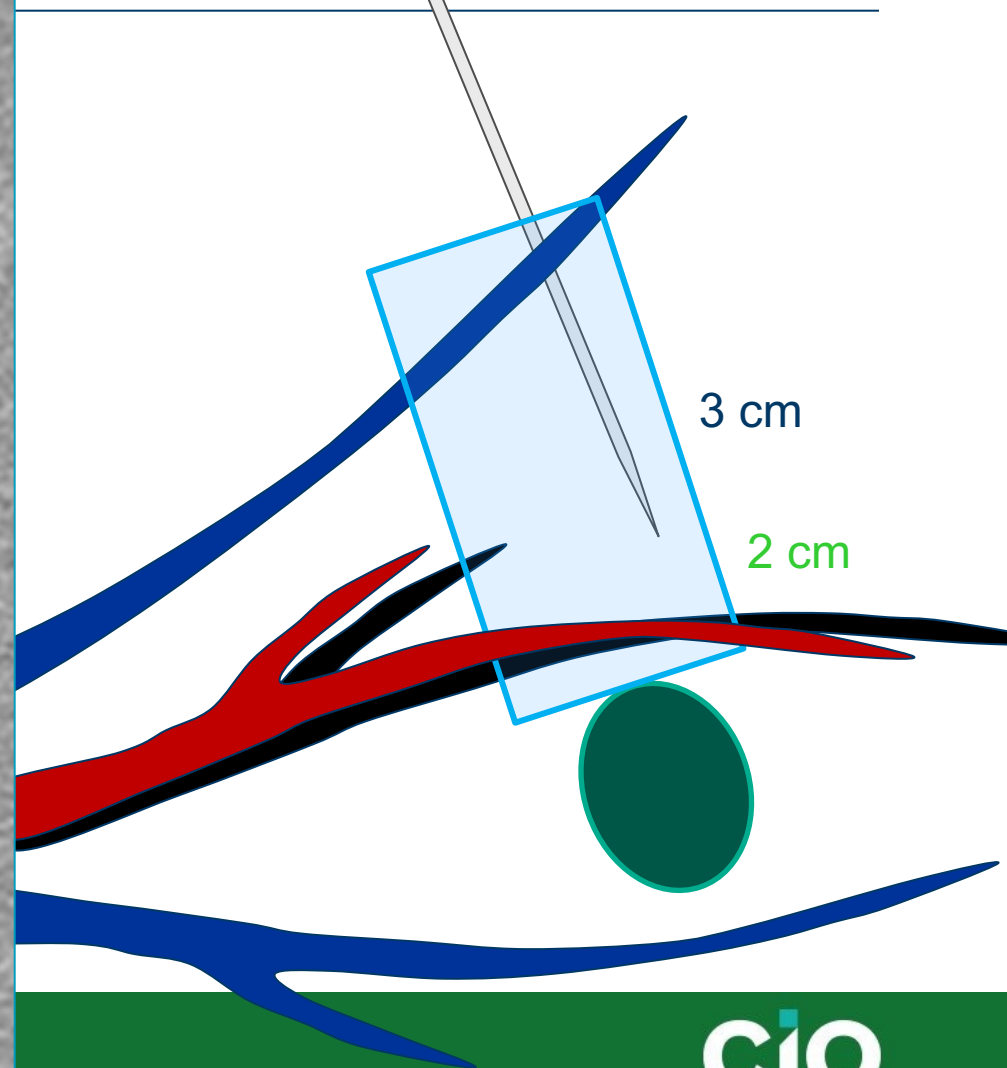
Preserve Margin Visualization: Hemorrhage



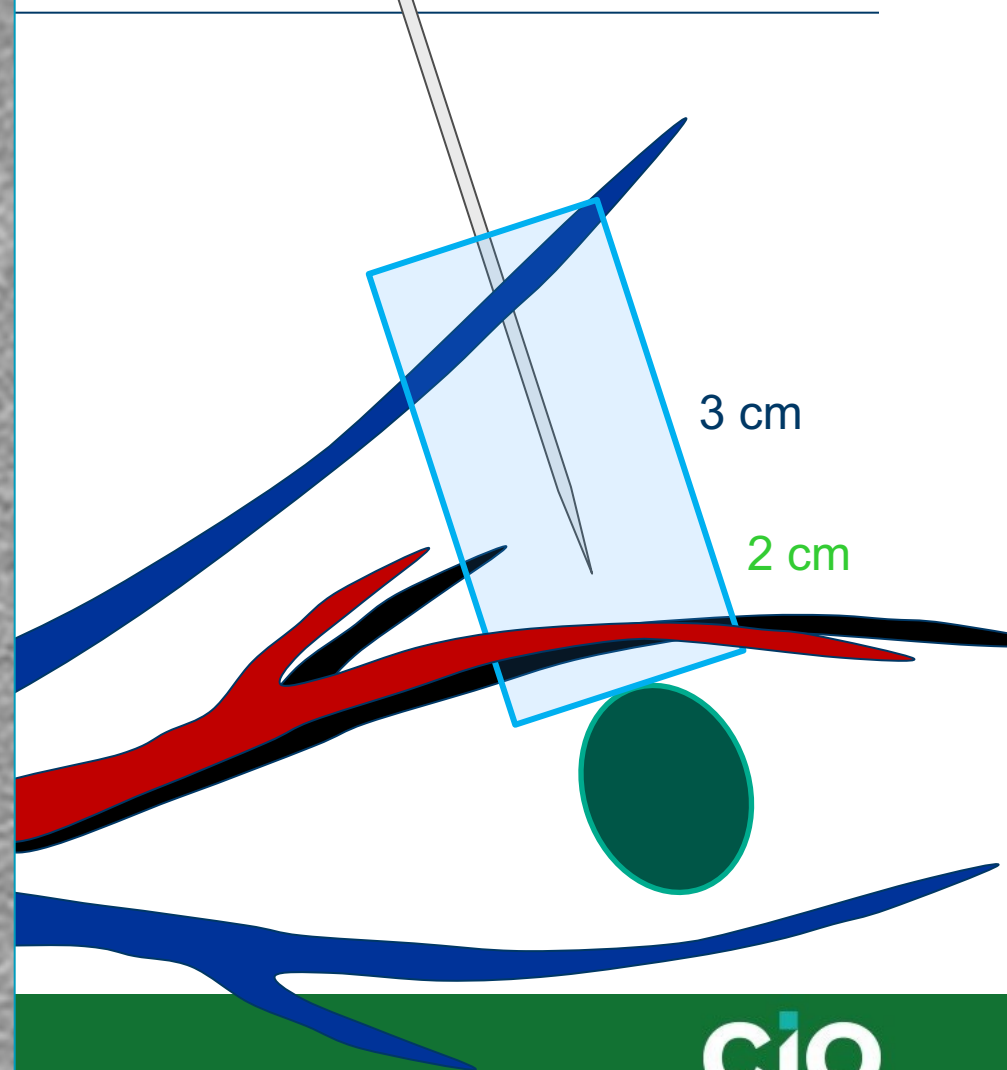
Preserve Margin Visualization: Hemorrhage



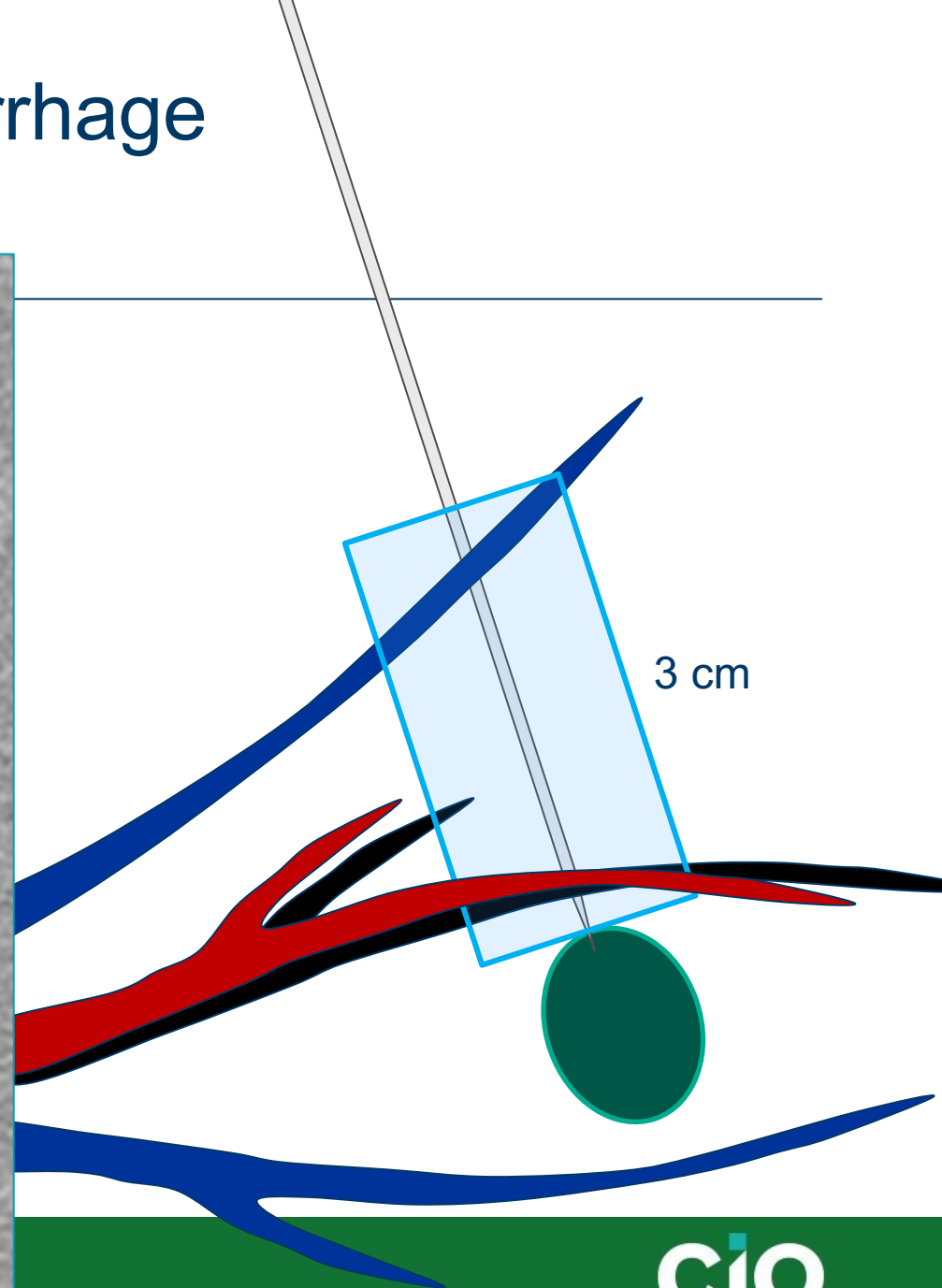
Preserve Margin Visualization: Hemorrhage



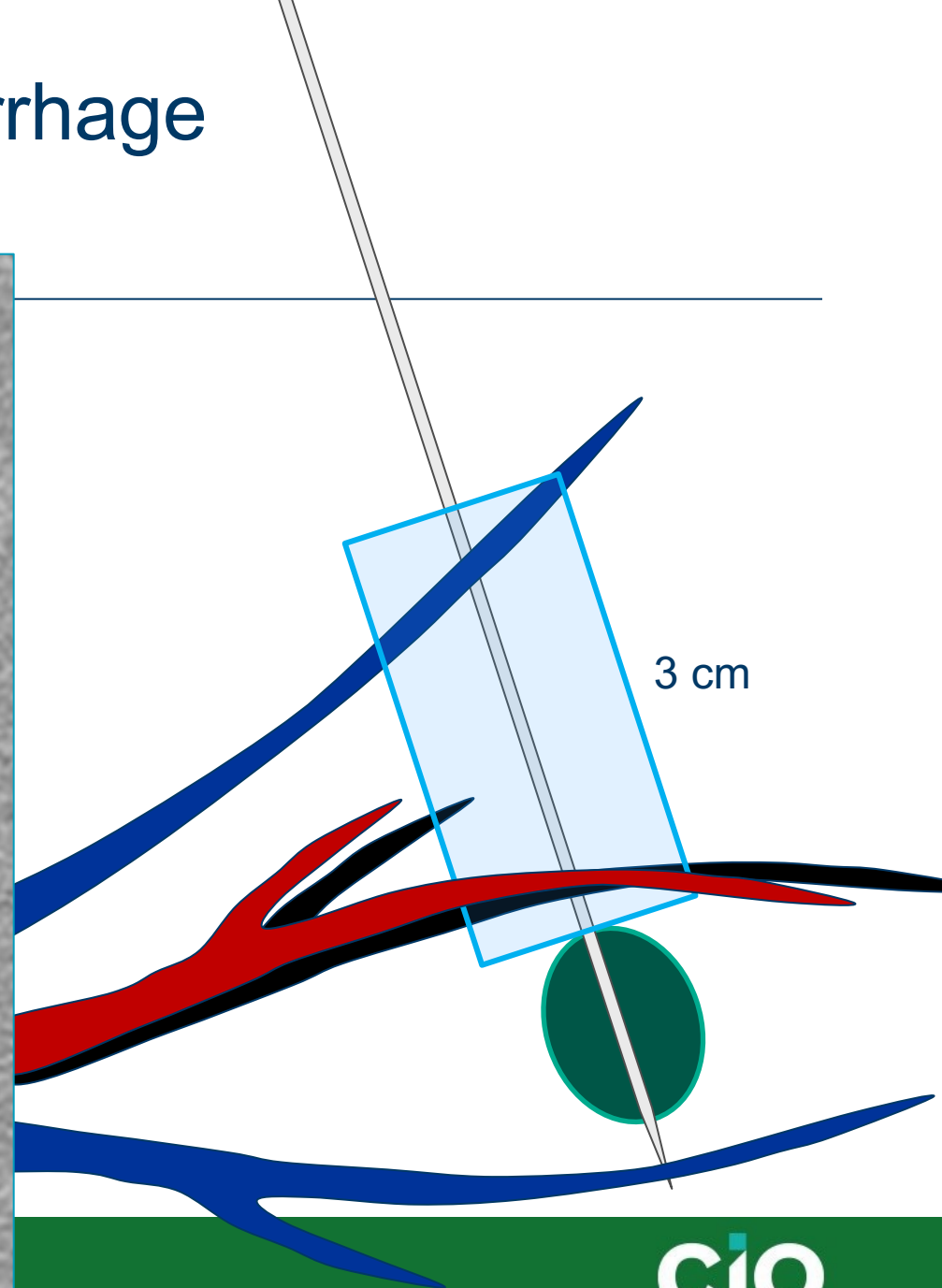
Preserve Margin Visualization: Hemorrhage



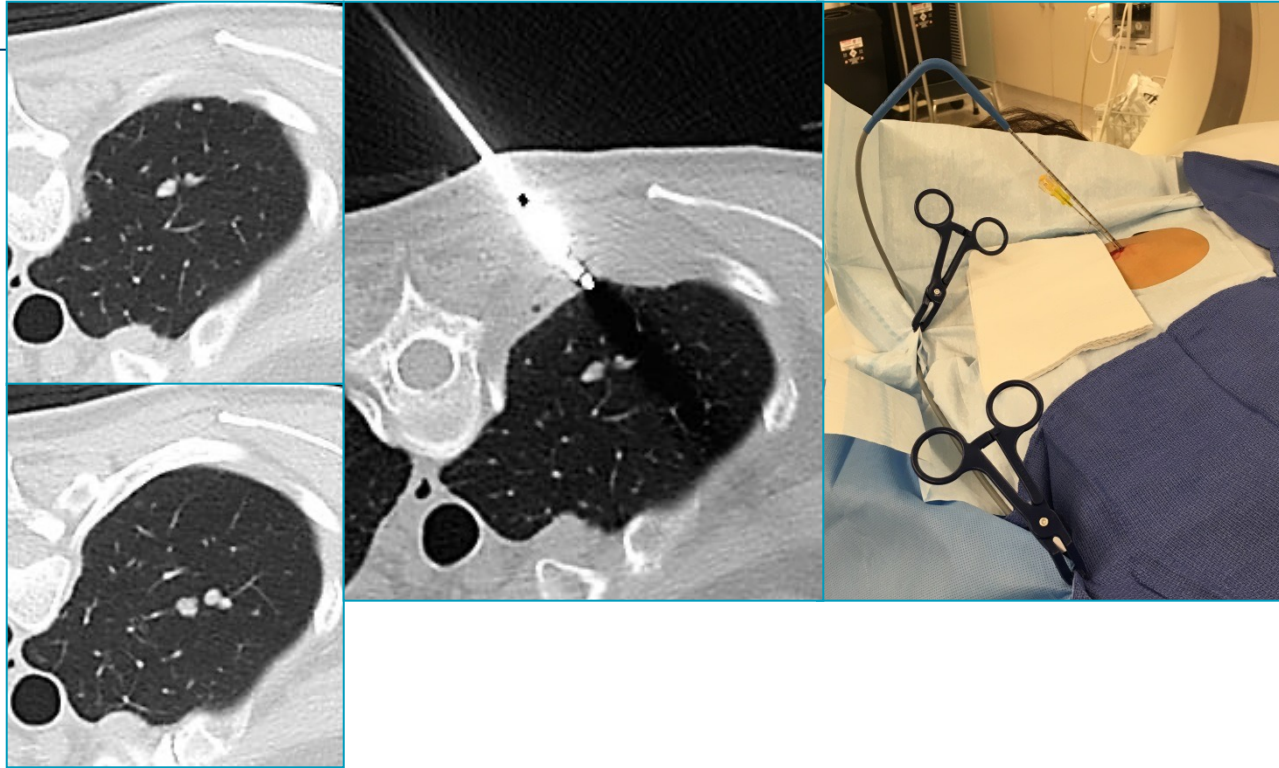
Preserve Margin Visualization: Hemorrhage



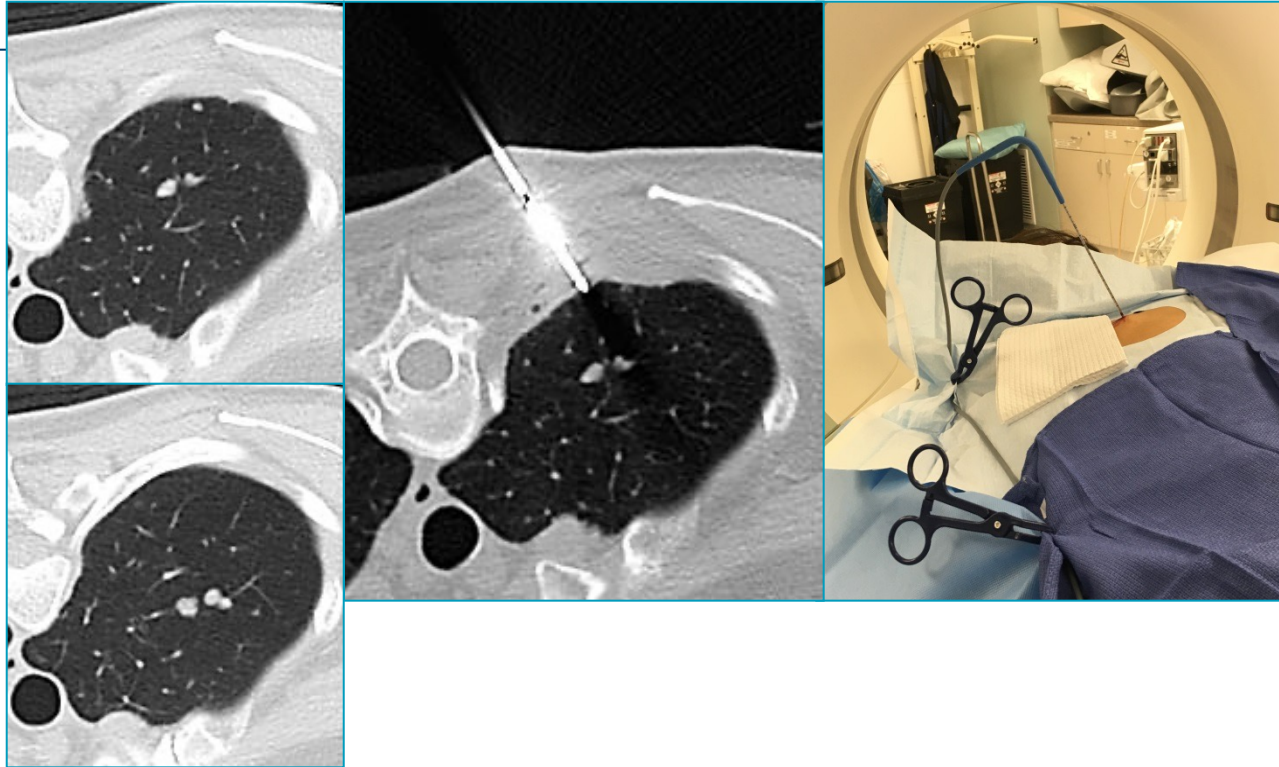
Preserve Margin Visualization: Hemorrhage



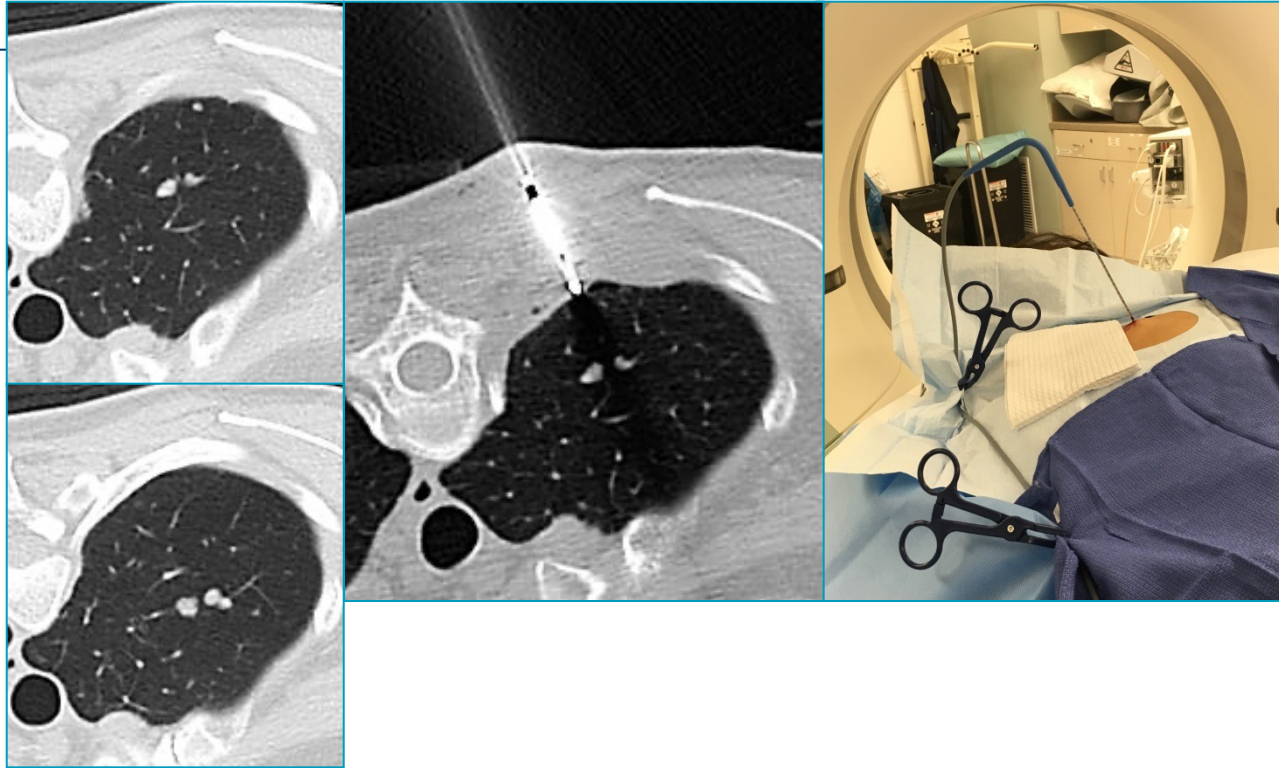
Preserve Margin Visualization: Hemorrhage



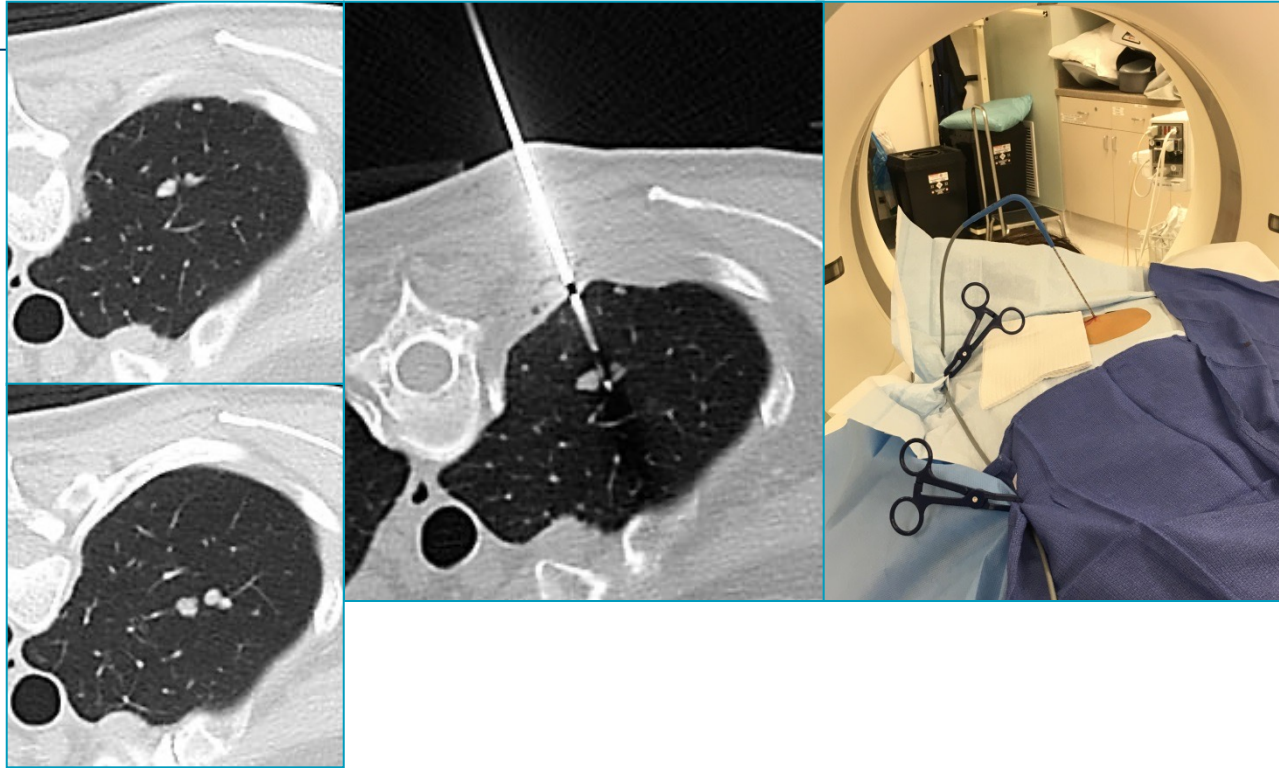
Preserve Margin Visualization: Hemorrhage



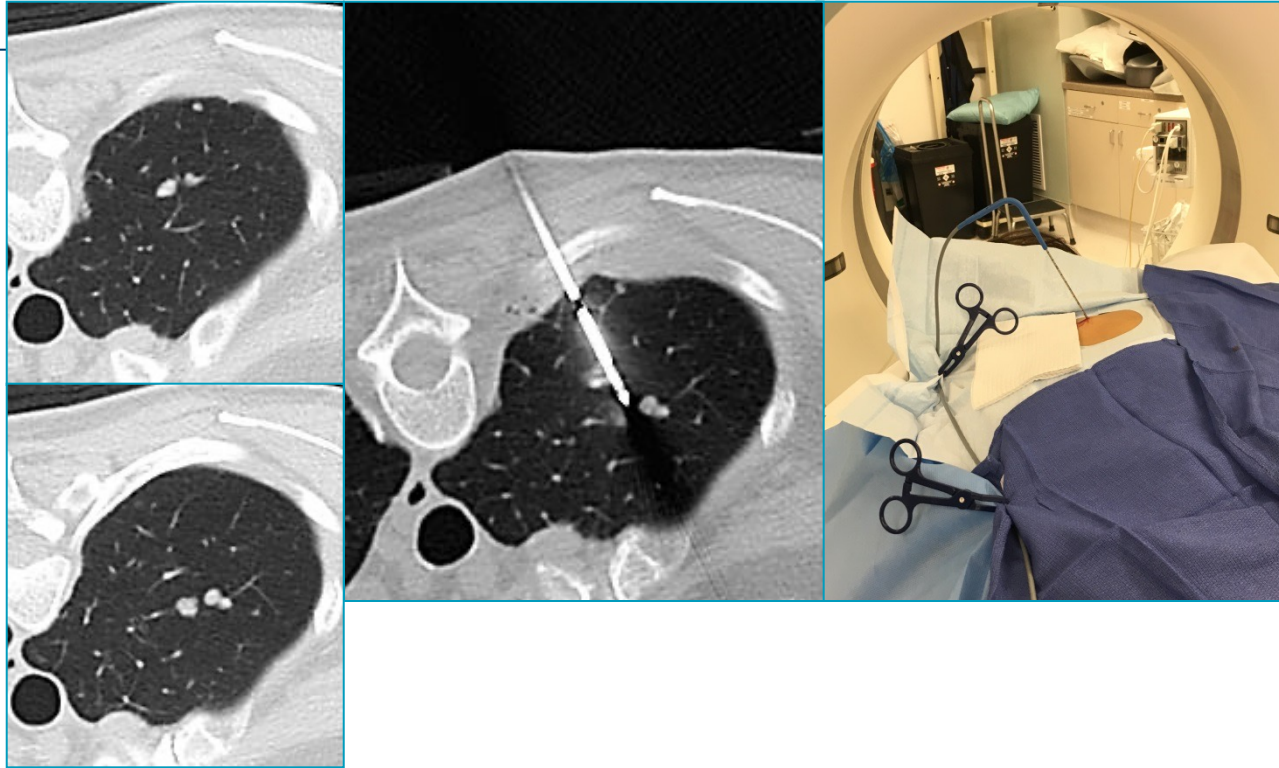
Preserve Margin Visualization: Hemorrhage



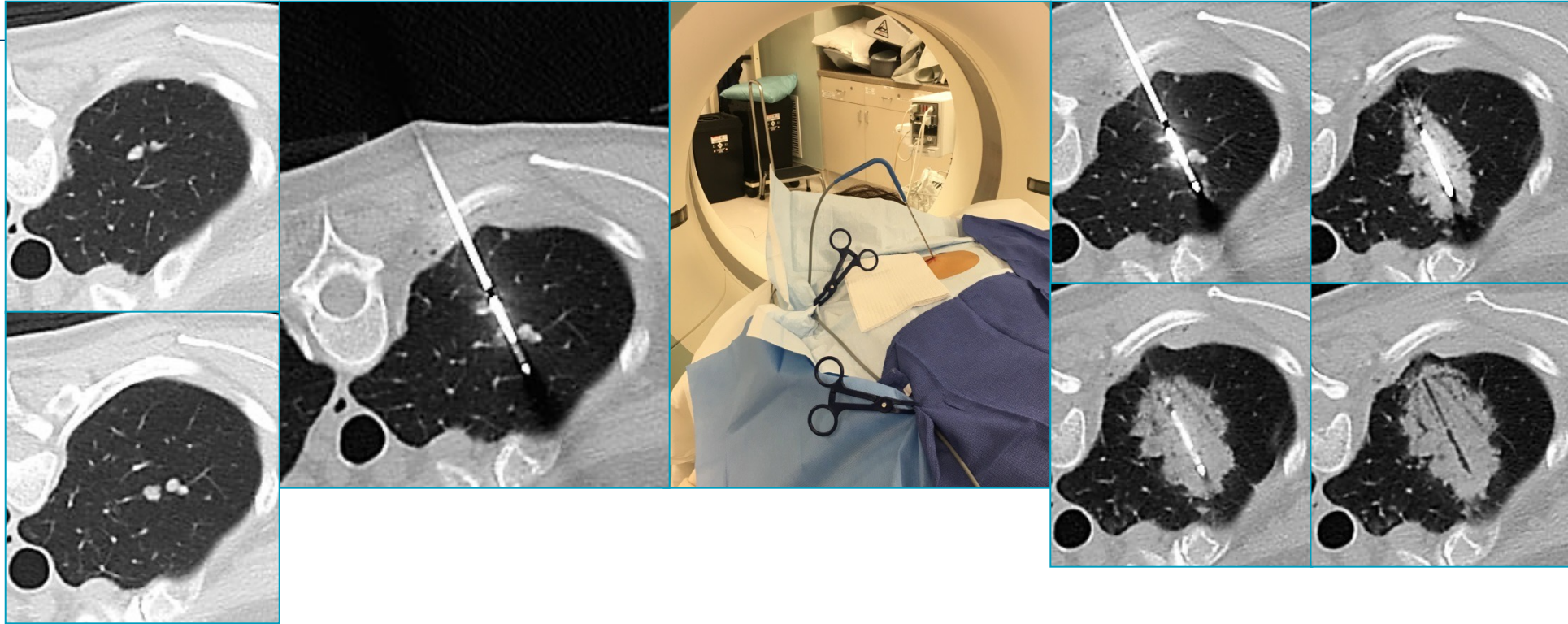
Preserve Margin Visualization: Hemorrhage



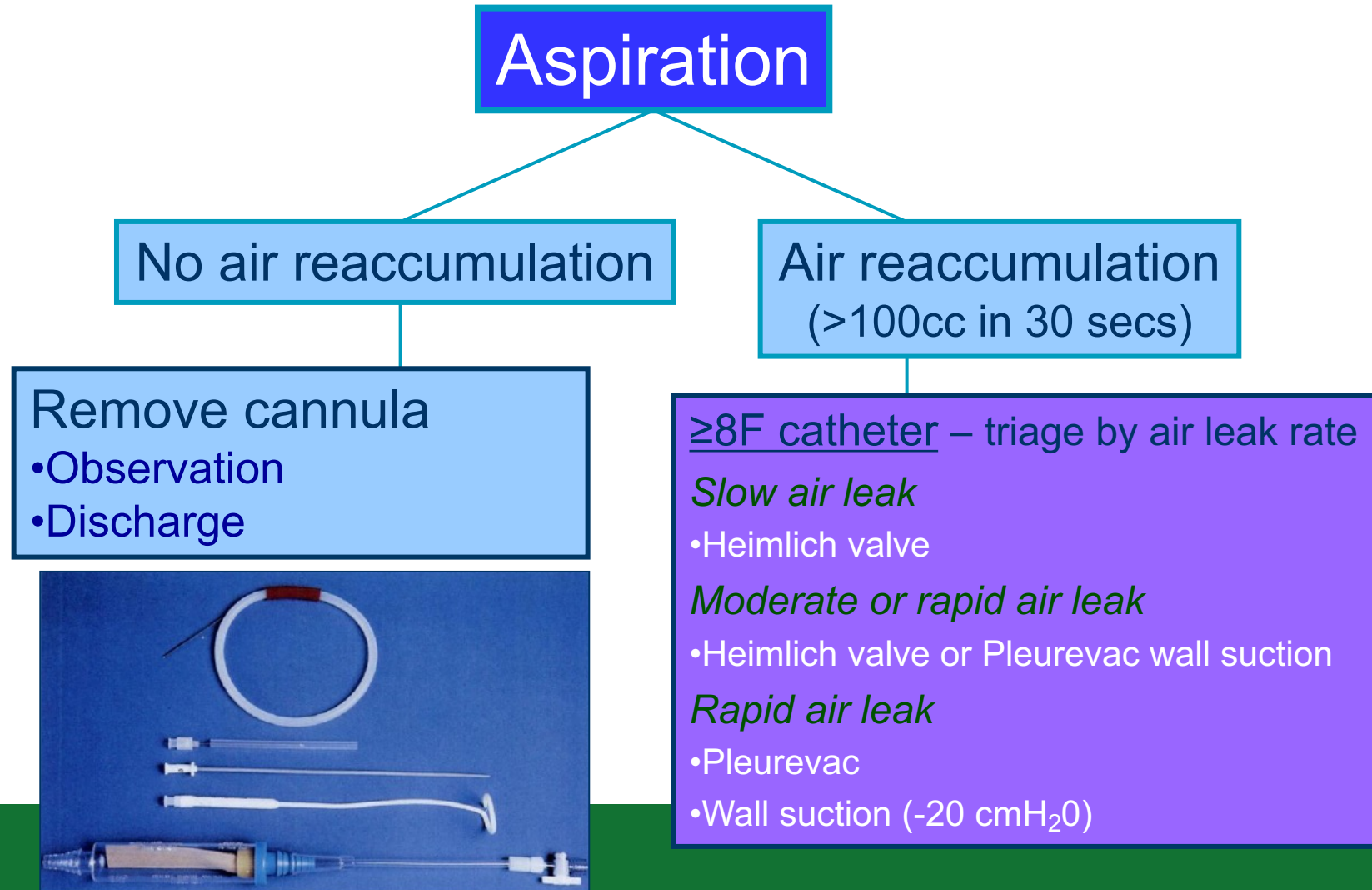
Preserve Margin Visualization: Hemorrhage



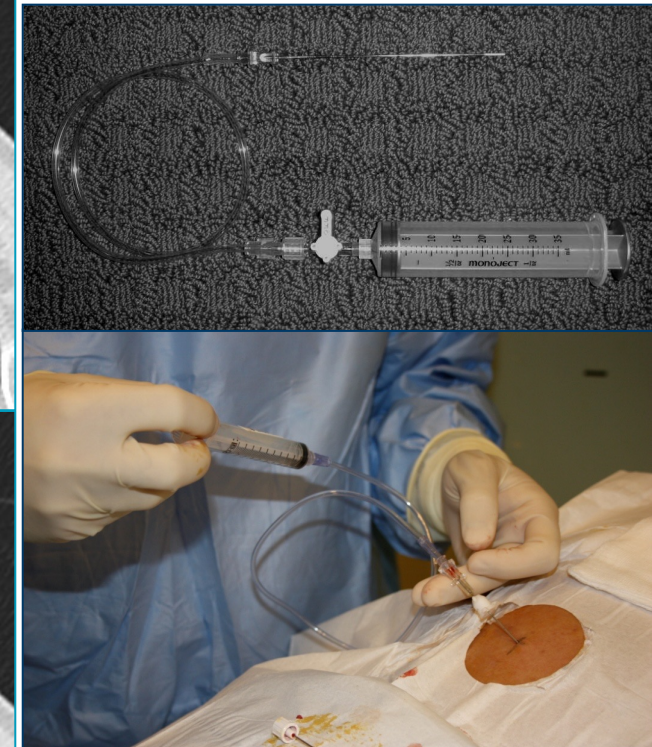
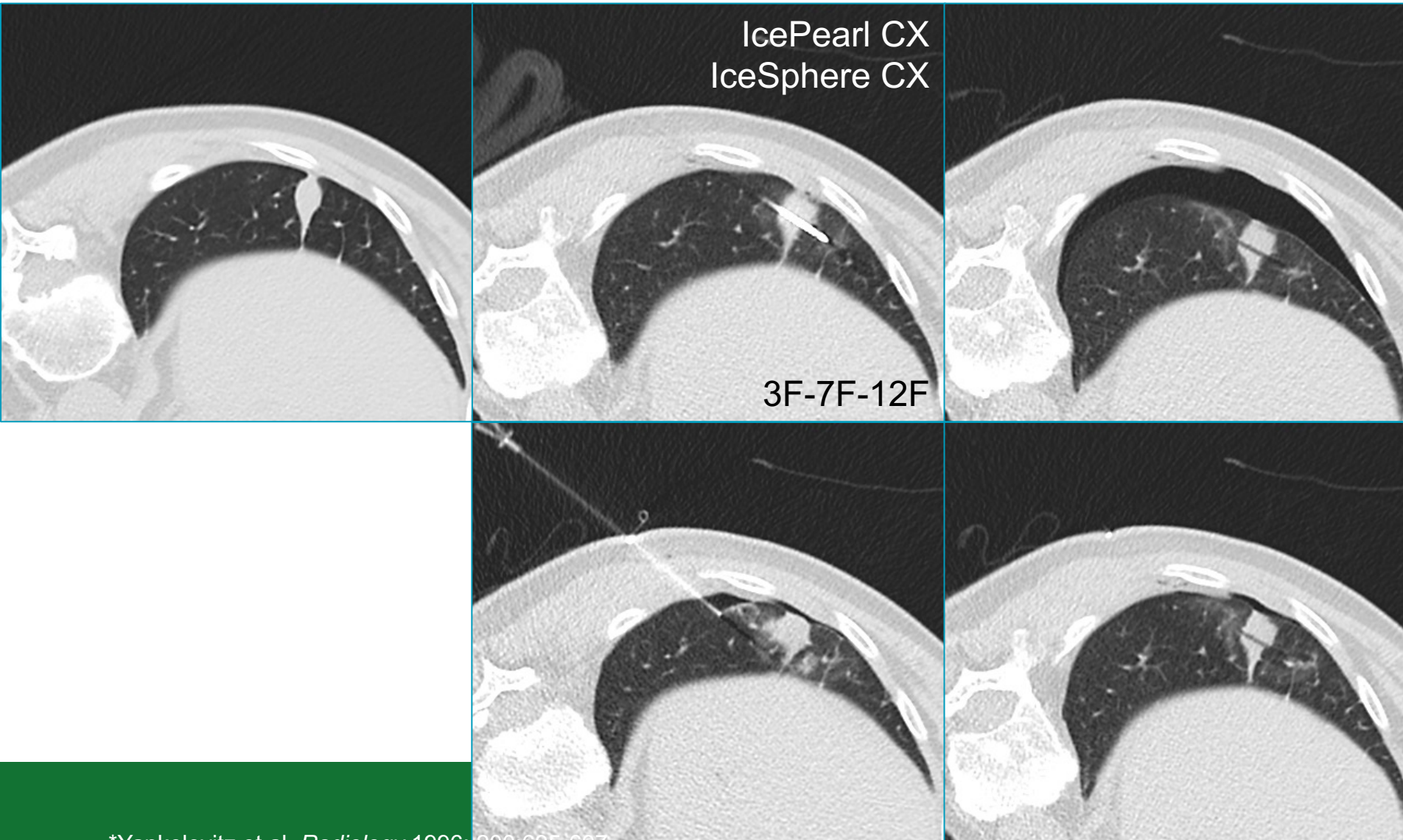
Preserve Margin Visualization: Hemorrhage



Complication Management: Pneumothorax

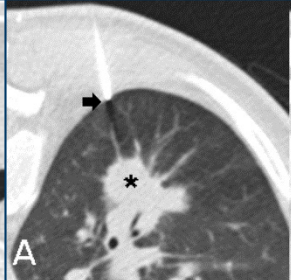
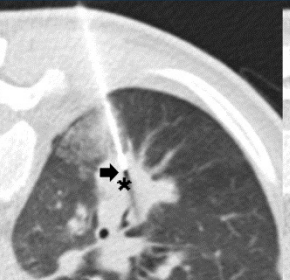
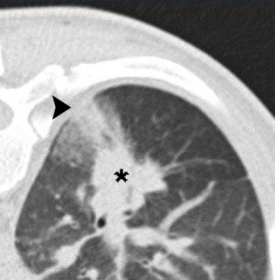
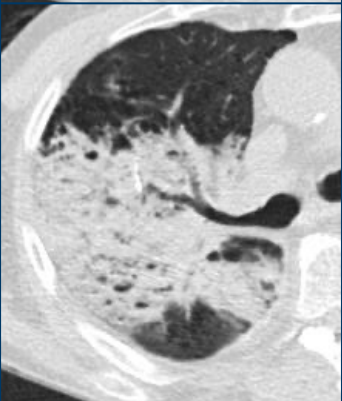
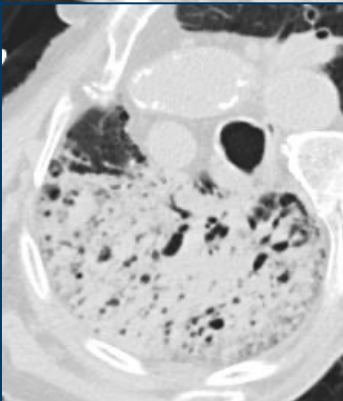
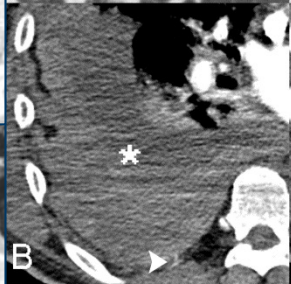
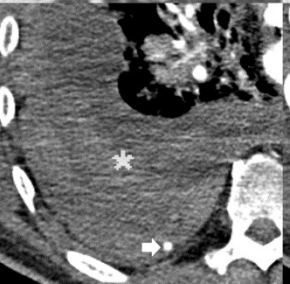
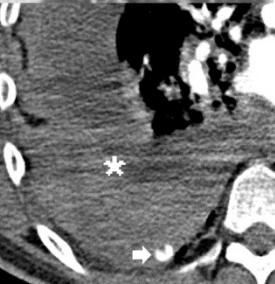
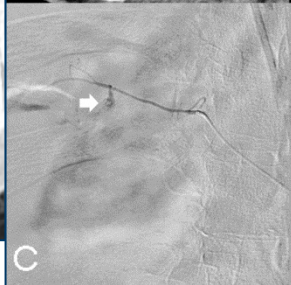
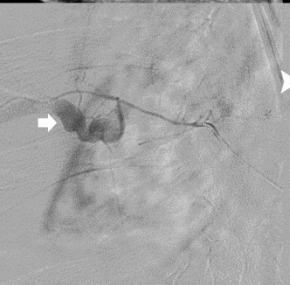
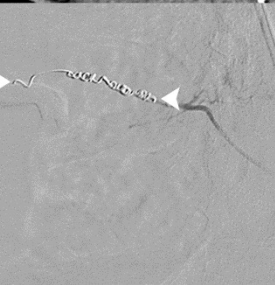


Complication Management: Pneumothorax



*Yankelevitz et al. *Radiology* 1996; 200:695-697.

Complication Management: Hemothorax

Hemorrhage		Extrapleural Hematoma			Hemothorax
					
					
					
Supportive Positional Bronchoscopy		Self-tamponade Embolization Evacuation			Apposition Drainage Evacuation

Lung Ablation: Top 5 Clinical and Technical Pearls

- Ablation device placement – cryoablation
- Ablation strategy – microwave
- Preserve margin visualization
- Pneumothorax management
- Hemorrhagic complications

