

Liver Dome Ablation: TOP 5 Clinical Tips

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Disclosures

- **Research Support:**

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SIRTEX Medical Inc: Phase I Trial Y90 Post HAI: Clinical CRC 2013

Angiodynamics/ Neuwave/ SOTA Medical/ HS Medical/ Perseon

BTG: EPOCH Trial

- **Consultant, Advisory Boards:**

- J&J/ Ethicon

- Terumo

- BTG/Boston Scientific

- SIRTEX

- Varian



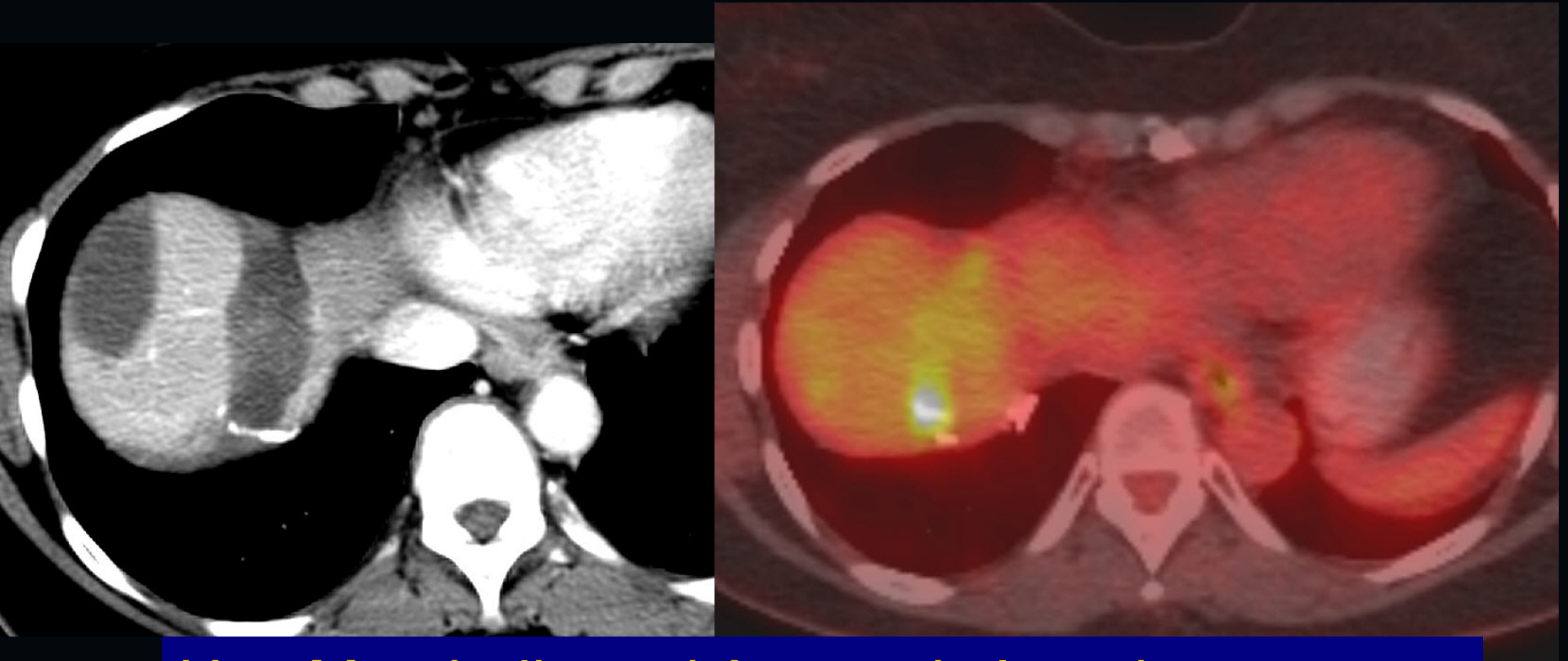
Create Curative Ablation with Margins A0 While Minimizing Risks in Liver Dome Tumors



Tip # 1

Optimize Tumor and Patient Selection

Post Resection Rising CEA



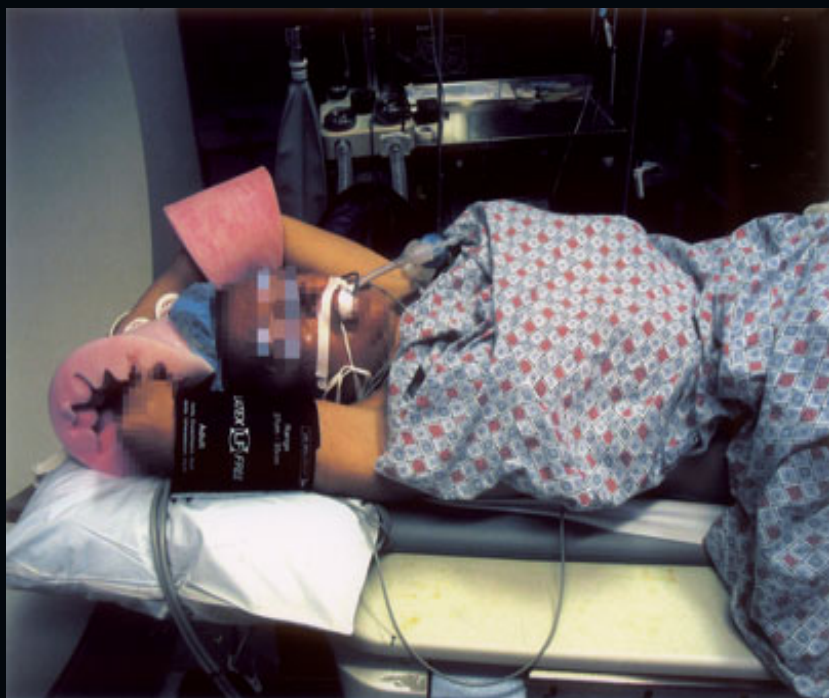
Use Metabolic and Anatomic Imaging to define your target and Optimize Plan



Tip 2: Always Have an Ablation Plan

- Patient Position
- Approach to Tumor
- Image Guidance
- Tools and Devices

Patient Positioning is Important Brachial Plexus Injury



Incorrect Positioning



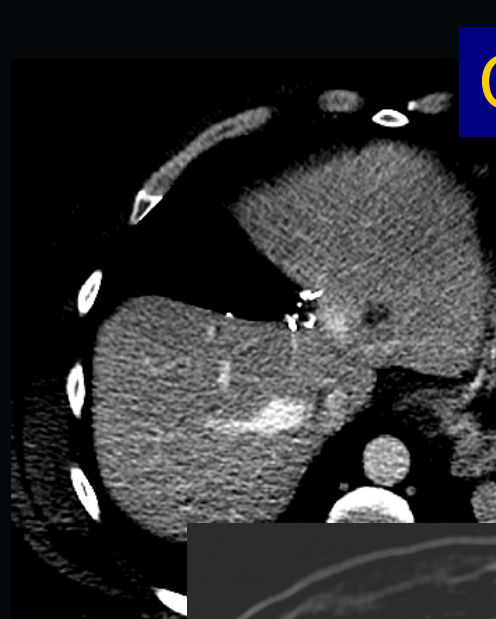
Correct Positioning

Shankar et al., CVIR 2005

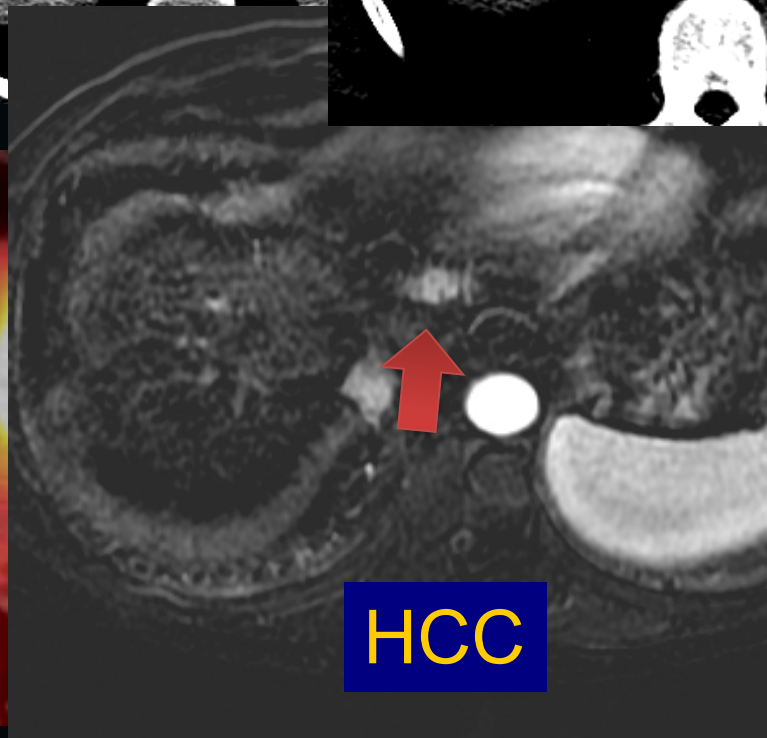
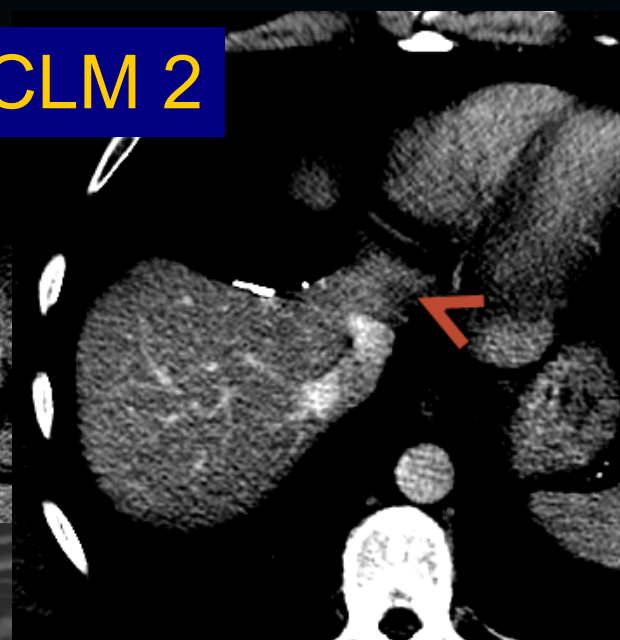
Different Challenging Dome Tumors: Approach, Tools, Maneoeuvers



CLM 1

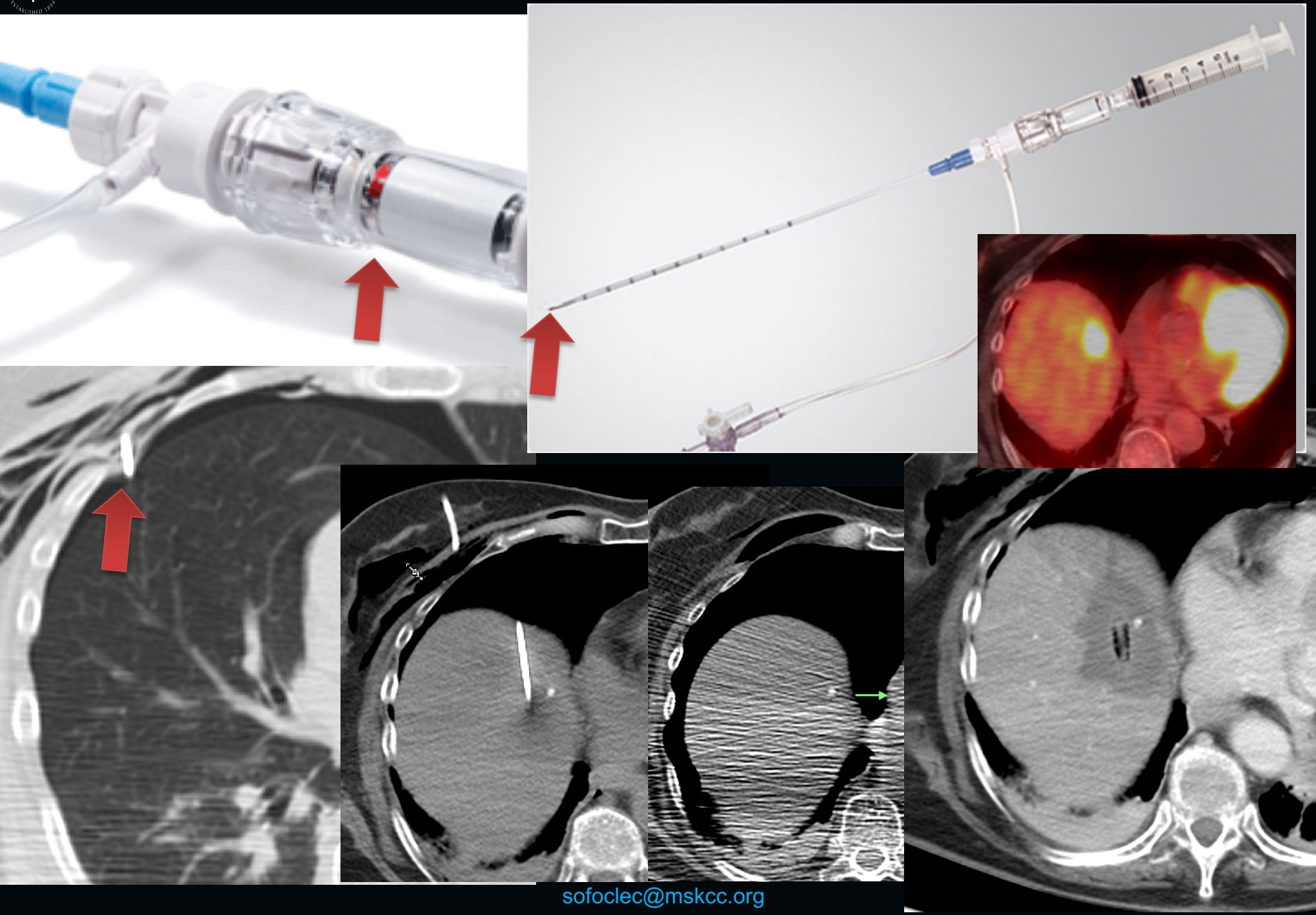


CLM 2



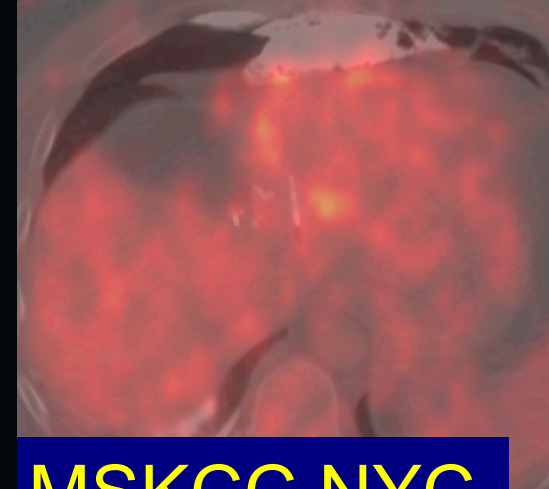
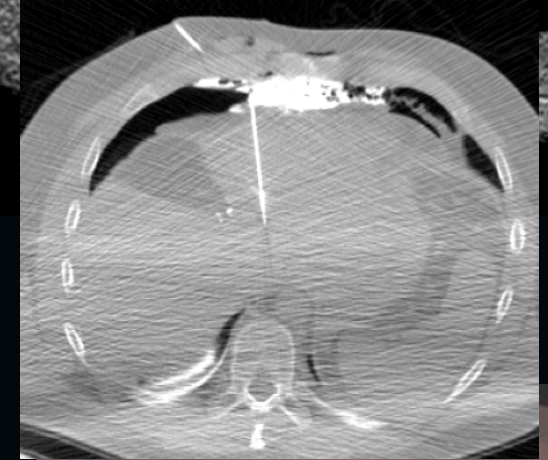
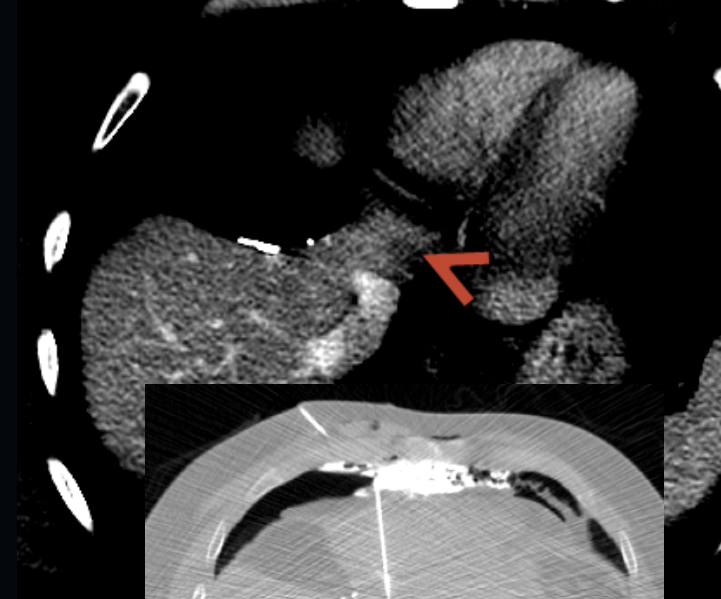
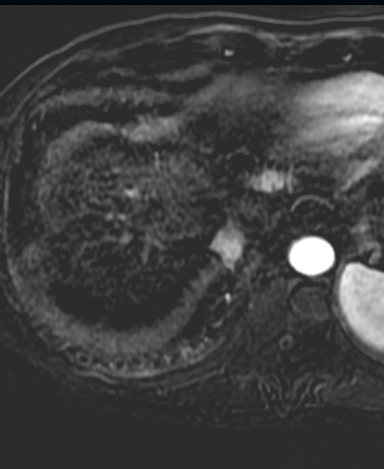
HCC

Protective Techniques: Choose approach and tools that increase safety



Thanks to Dr. Uei Pua

Singapore



Real Time Imaging:

Sono, CT fluoroscopy,
Combination imaging,
Real Time PET CT

MSKCC NYC

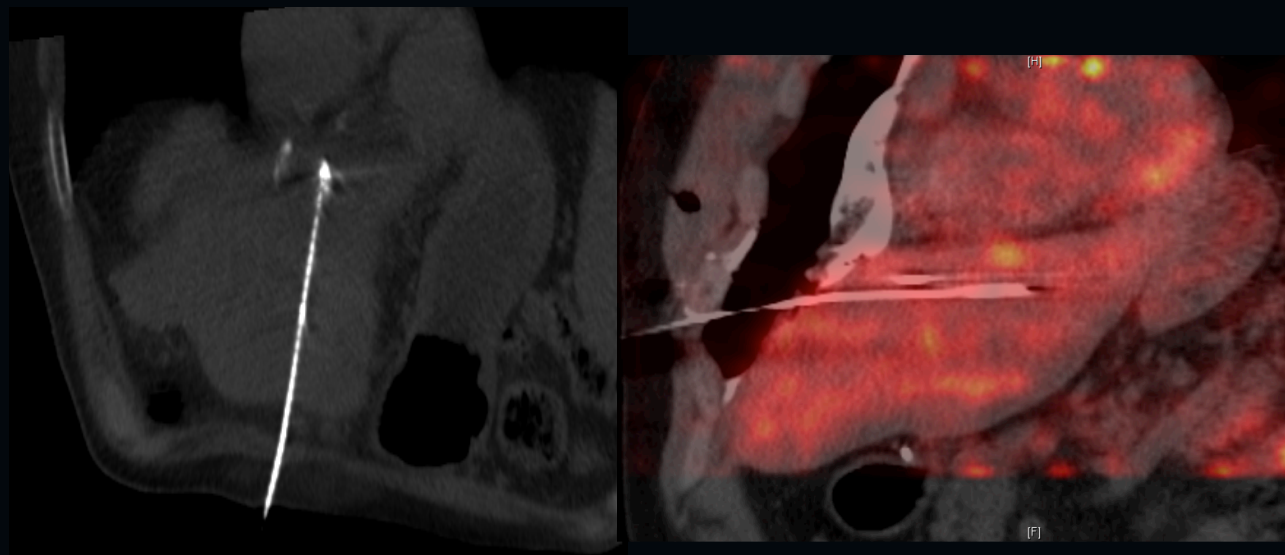


Tip # 3

Safety First

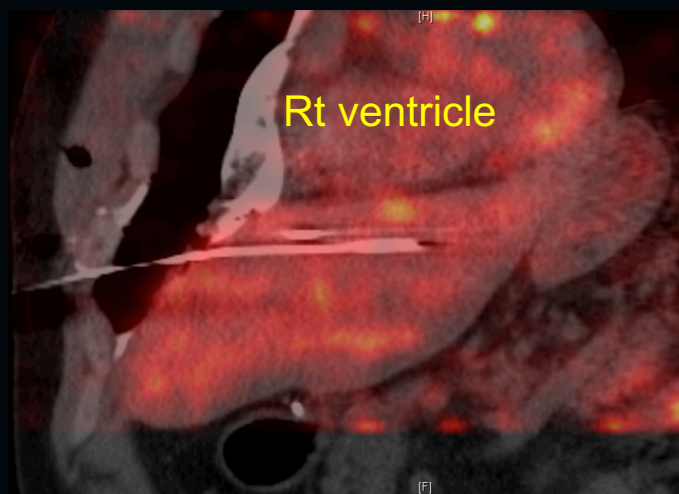
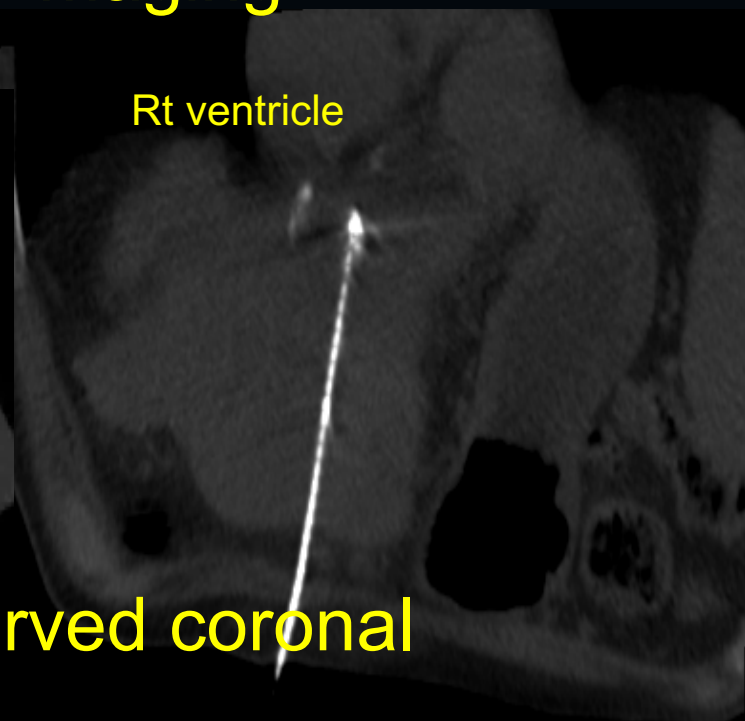
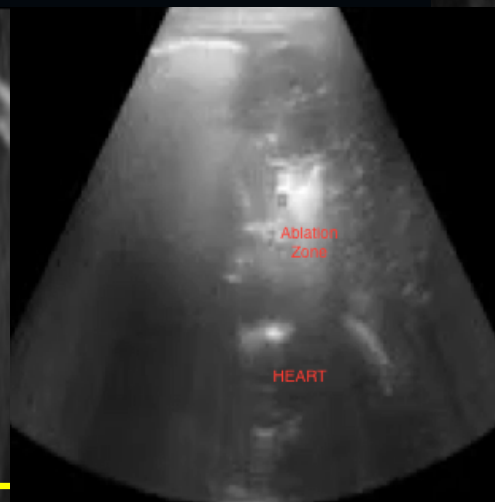
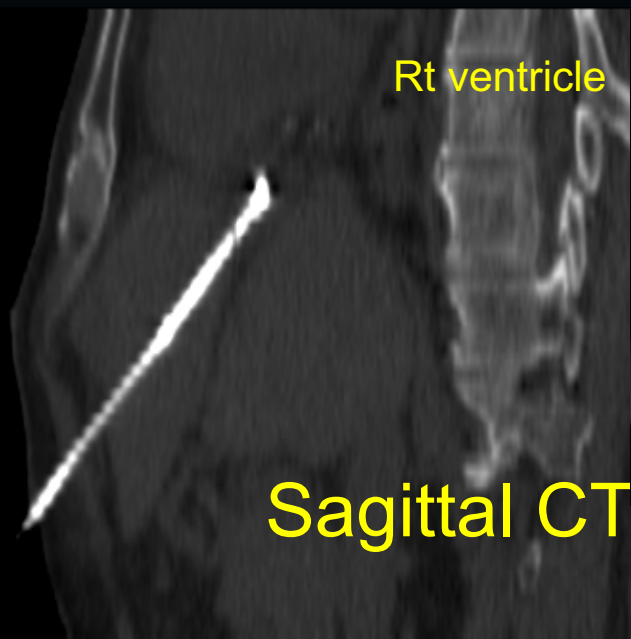
Tip 3# Safety First

- Needle Trajectory/Minimize Needle Passes
- Protective Techniques
- Avoid Transgressing the Pleura Without Jeopardizing A0



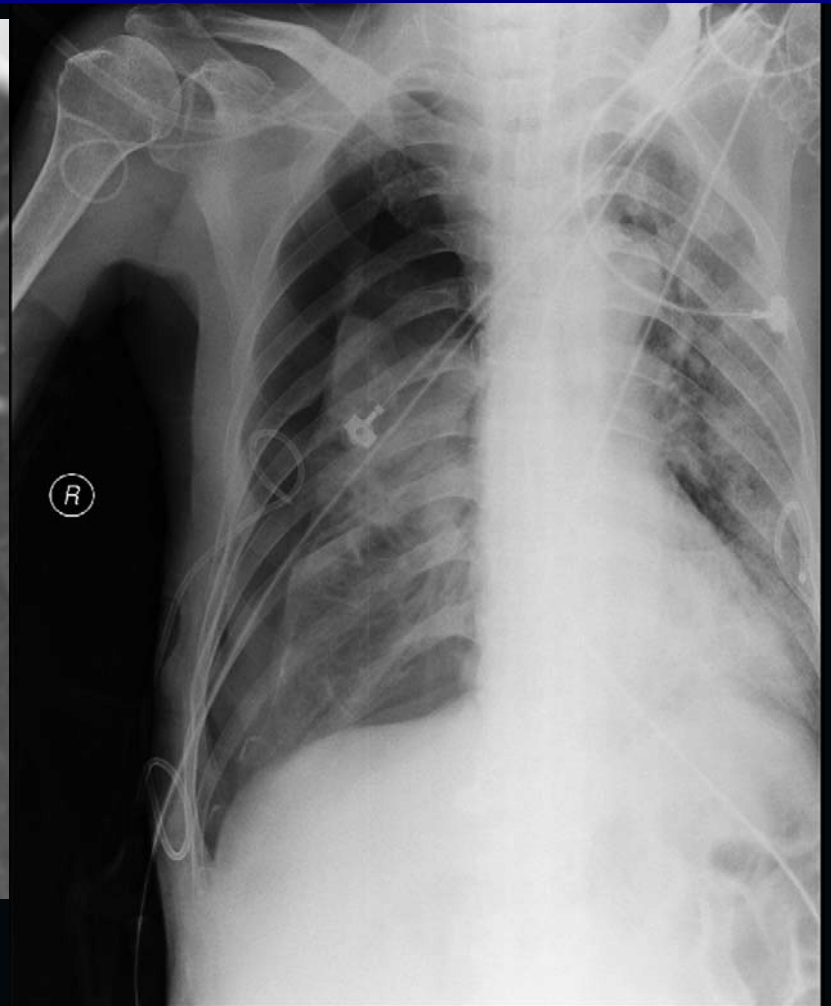
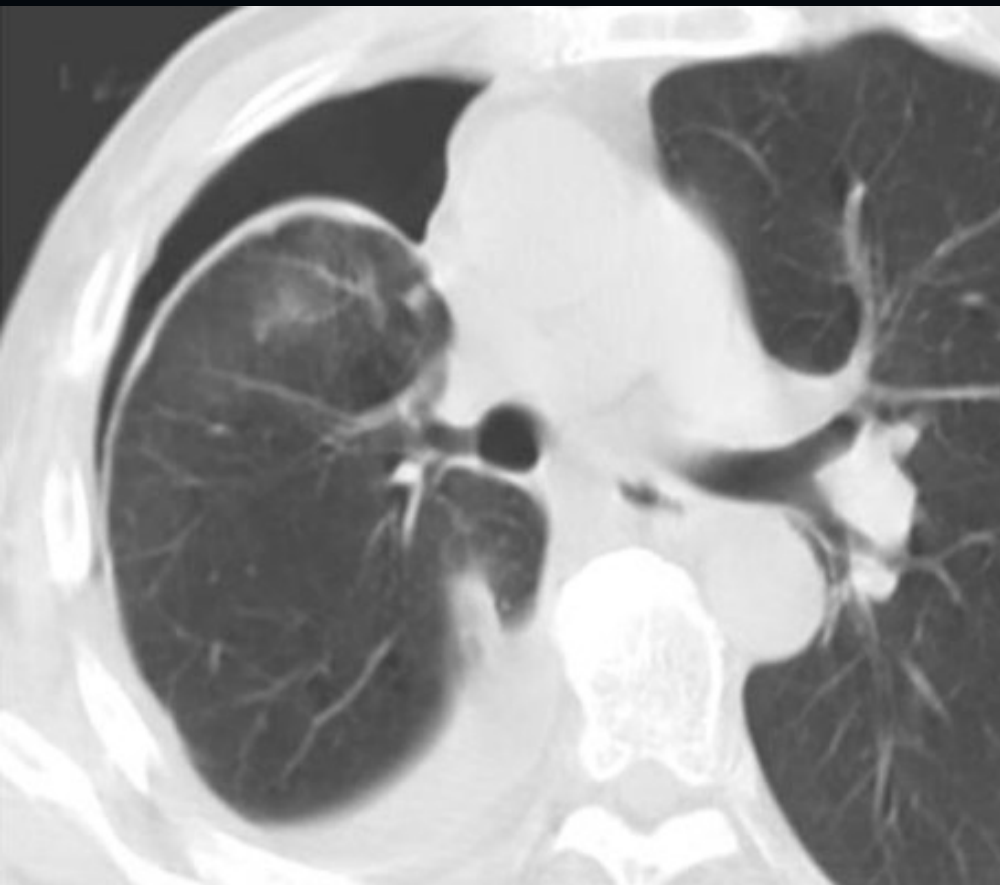
Avoid Collateral Damage

Real-Time Multiplanar Imaging



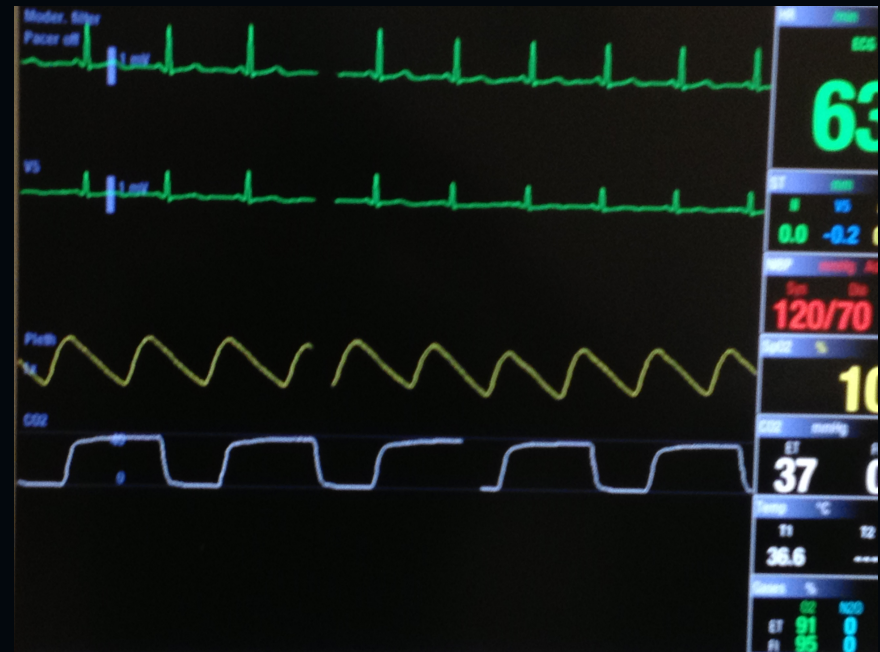
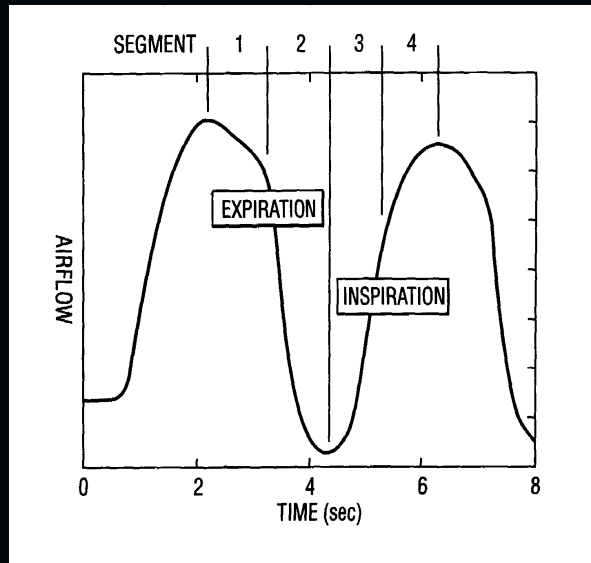
Tip #3: Safety First

Thoracostomy during Ablation



If pneumothorax occurs: fix It and Proceed

Safety First: Minimize Transgressing the Pleura



Use Real Time CT Fluoroscopy
Advance Needle during Consistent Phase of Respiration



Tip# 4: Use Anesthesia



Tip# 4: Use Anesthesia

Ventilator Settings Can Aid Ablation

Apnea in Dome Tumors Minimizes Needle Passes
Regardless of Image Guidance method

Tip# 4: Use Anesthesia: Focus on ablation A0



IR Focus: A0

Create Margins in the safest environment

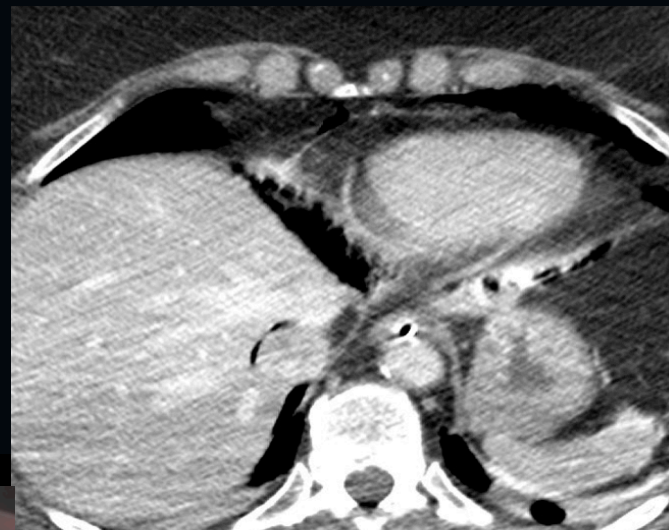


Tip # 5

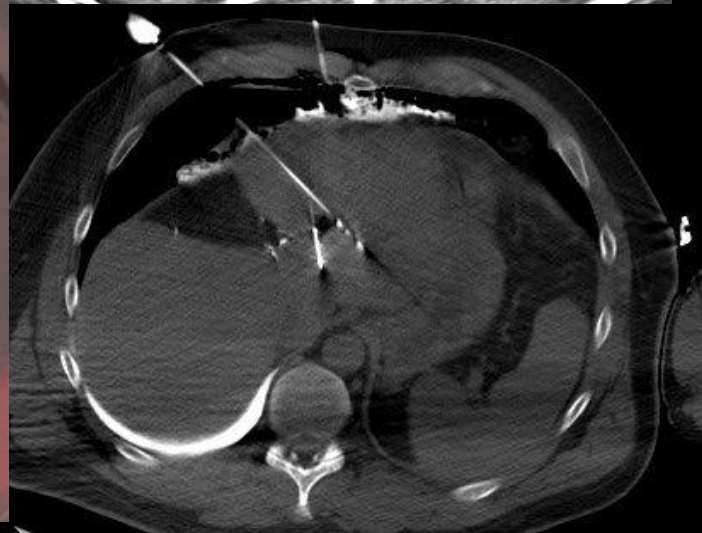
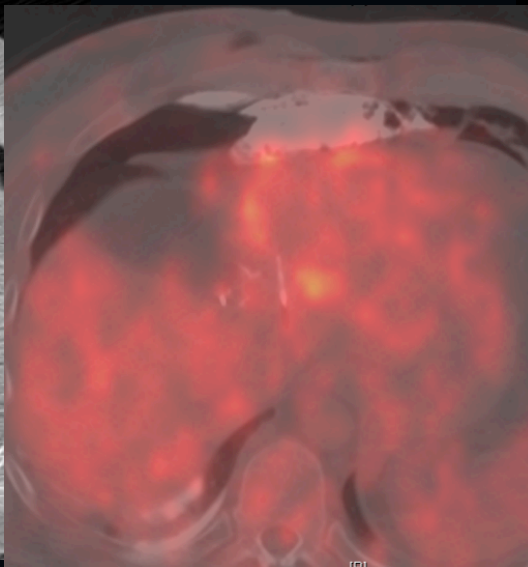
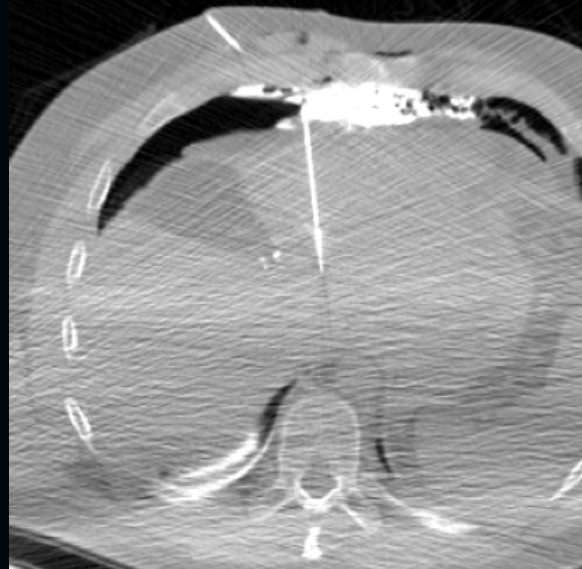
Take the Time and Effort for the Extra Step!

Create A0

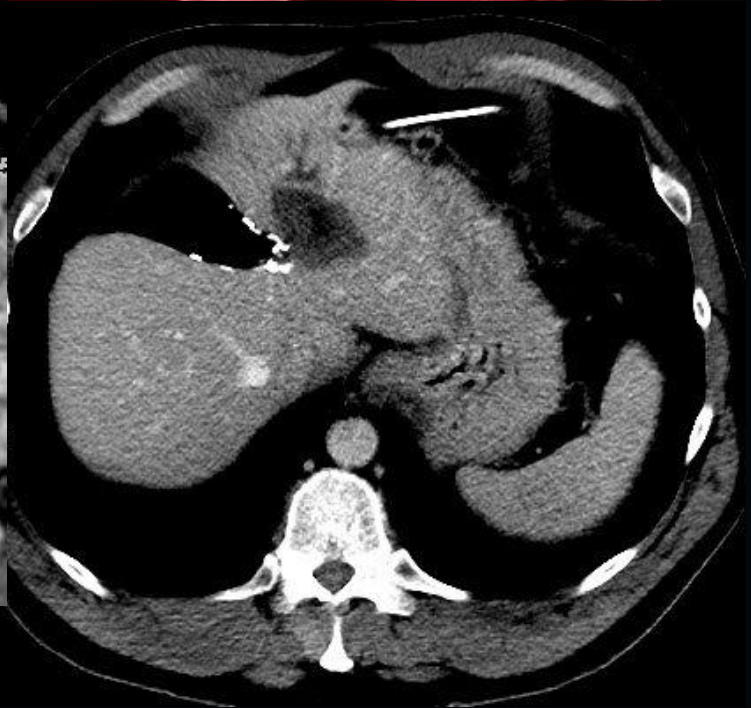
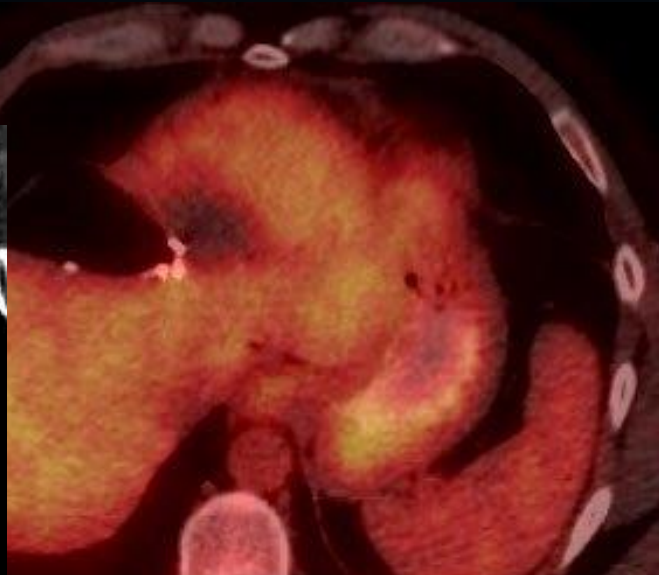
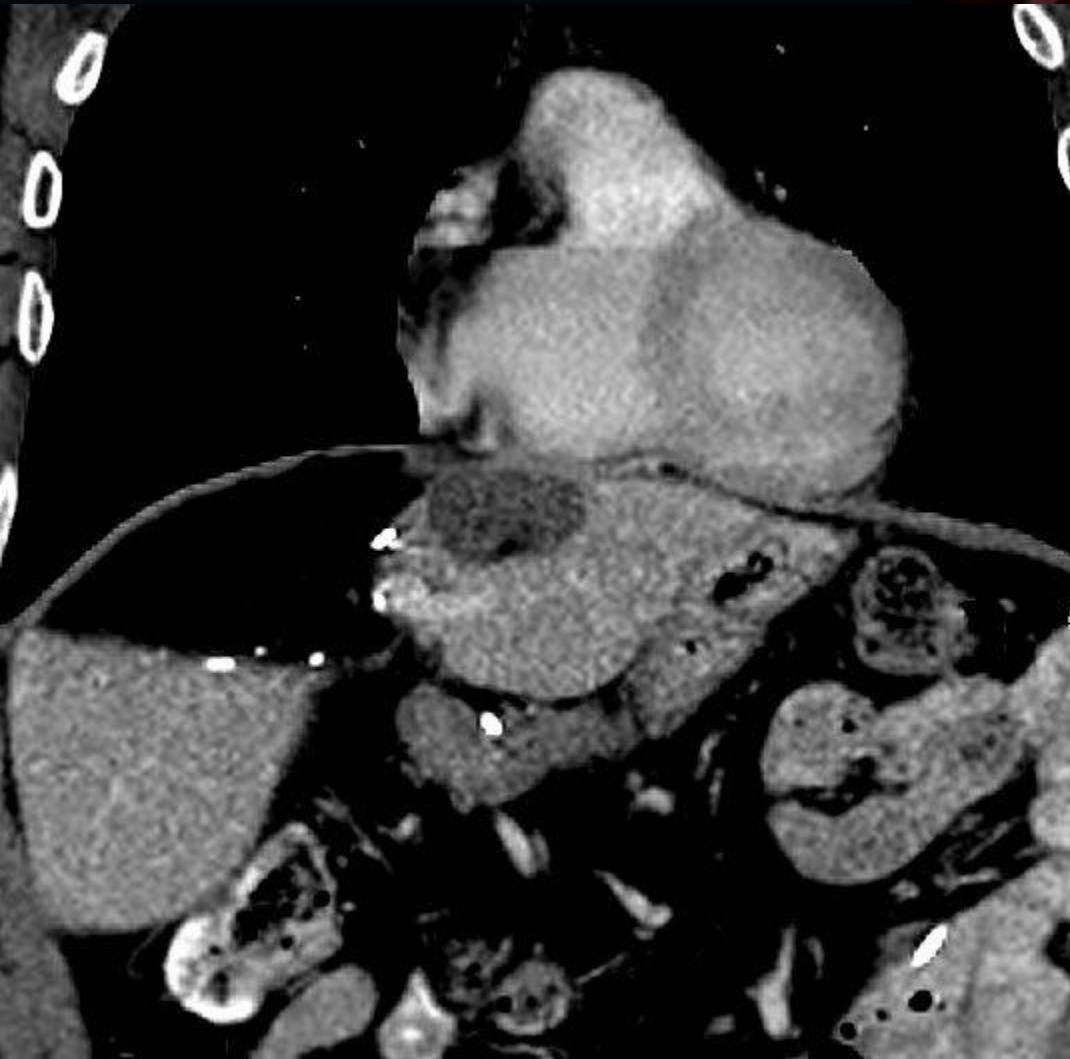
Take the extra step to create Safely Ablation with Margins



A0



2 years post MWA





TOP 5 TIPS for Liver Dome Tumor Ablation

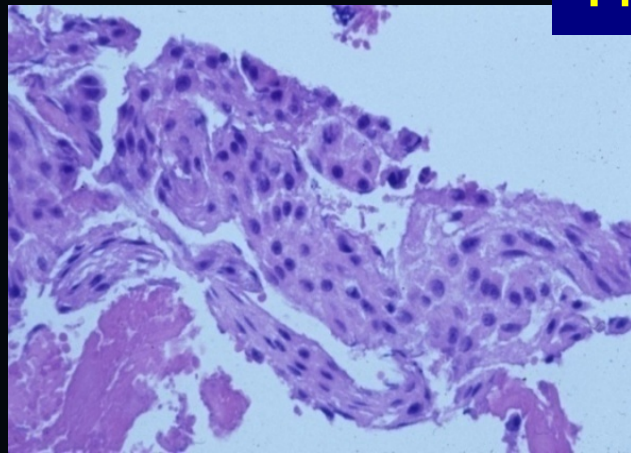
1. Optimize Tumor and Patient Selection
2. Always Have an Ablation Plan
3. Always Safety First
4. Use Anesthesia
5. Margins Count: A0

And One More Tip for Free:

- Follow Your Patients!

Create Ablation with Margins A0 While Minimizing Risks

Thank You!



A0

