



Liver Therapy: Maximizing Your Technique

# **Ablation of Poorly Visualized Tumors: My Top 5 Technical Pearls**

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October 22, 2021 – 5:50- 6:00 pm

# Disclosures

- Boston Scientific - Consultant
- Philips Healthcare - Consultant
- ACR Innovation Grant – Grant Recipient
- Case Western- Collaborator

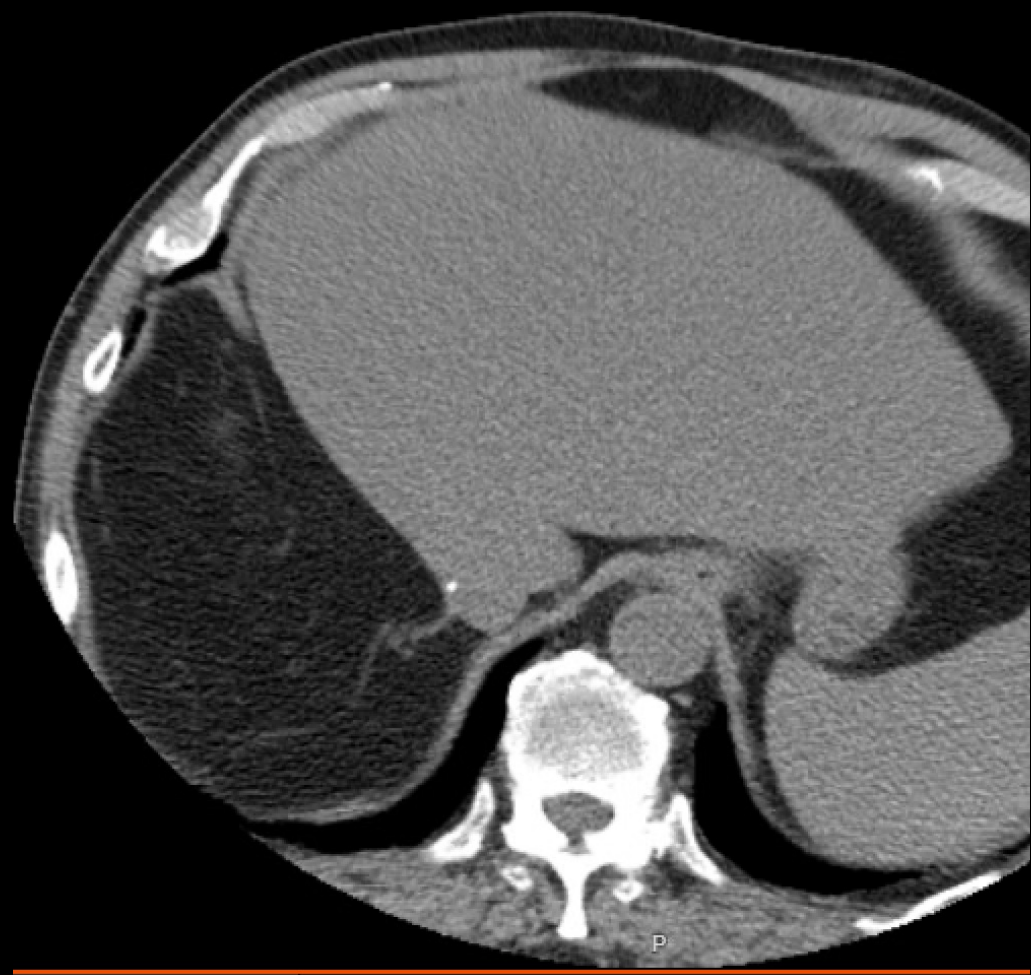
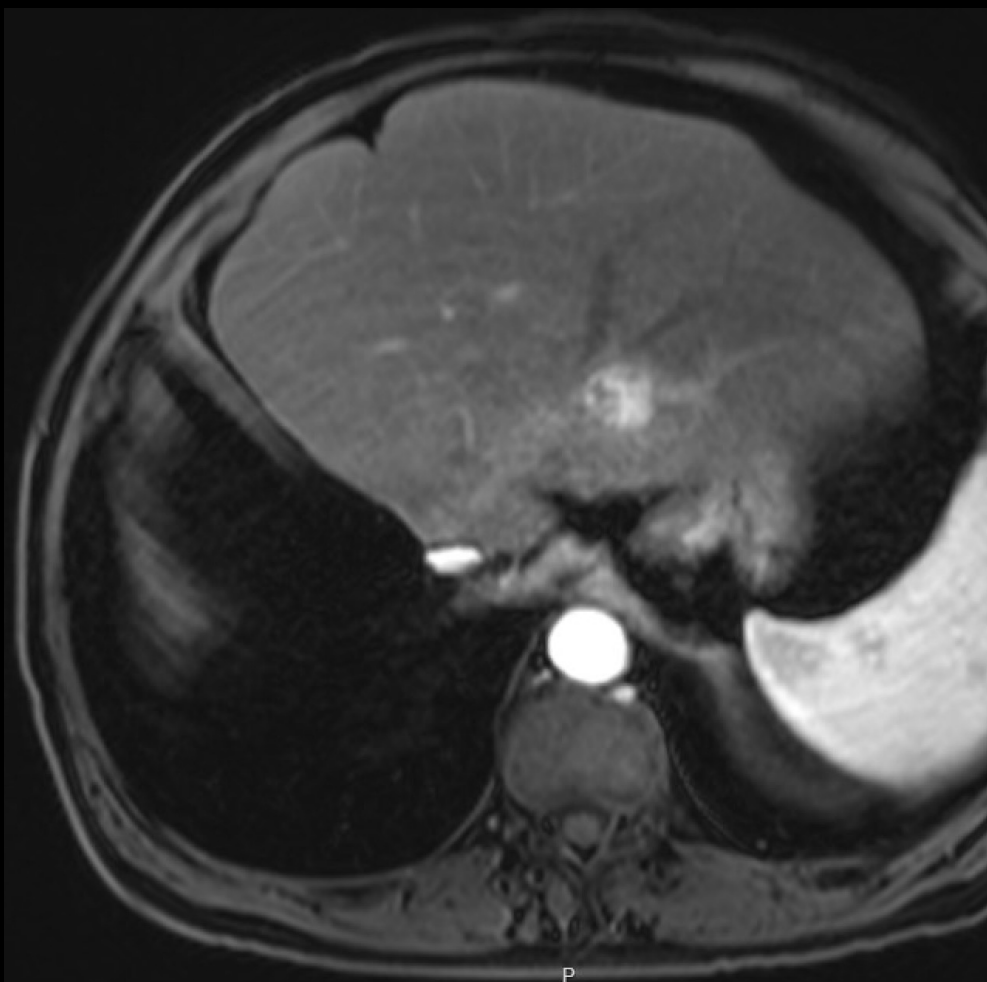
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# My Top 5 Technical Pearls

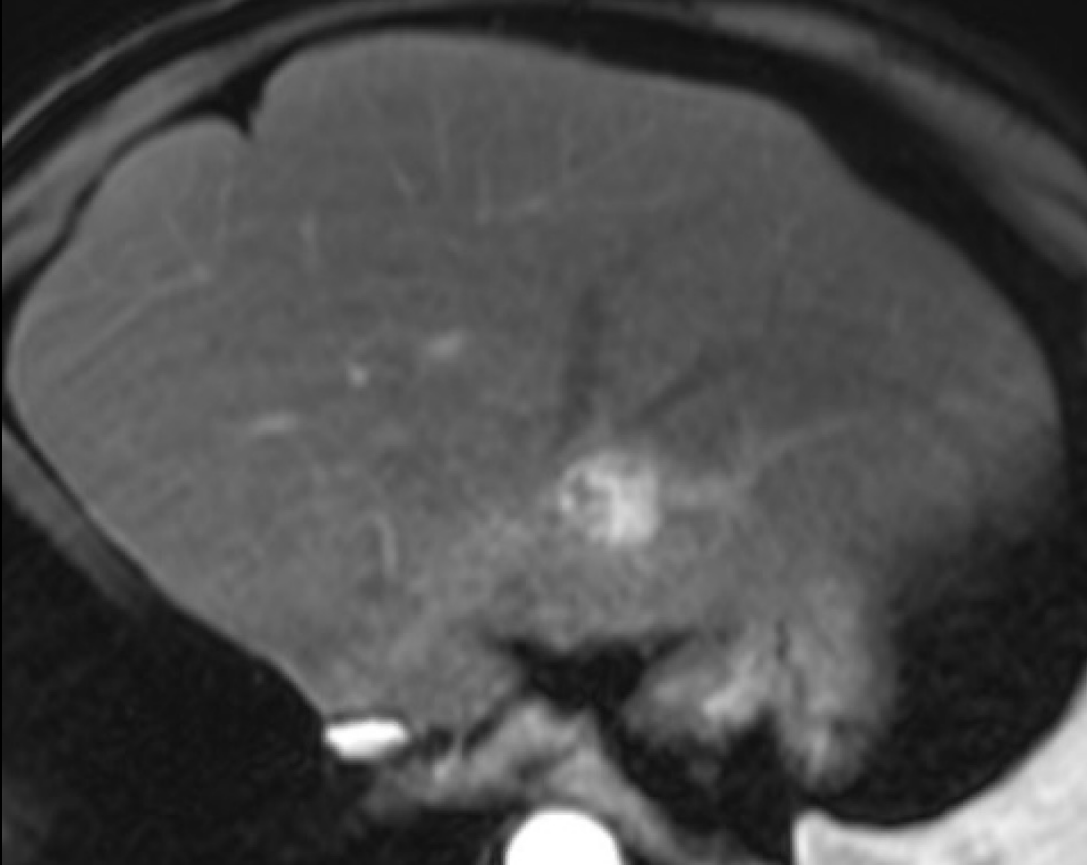
1. Ultrasound
2. Contrast
3. Landmarks
4. Fusion
5. Blast It!

# Pearl #1

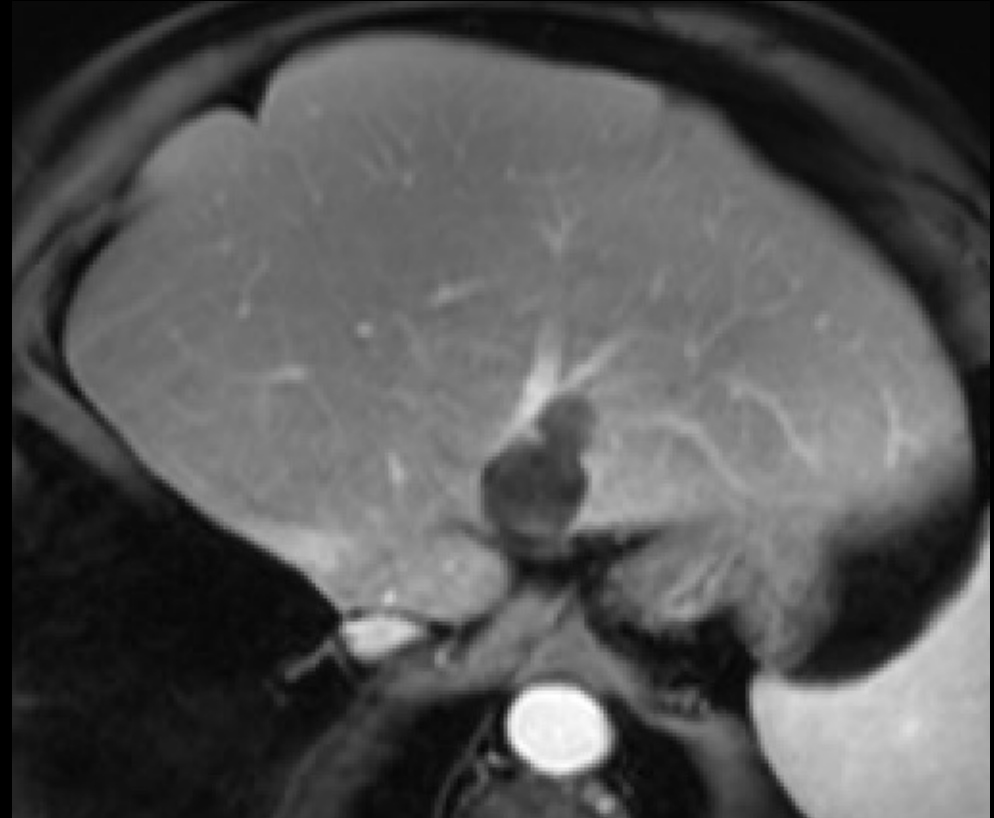
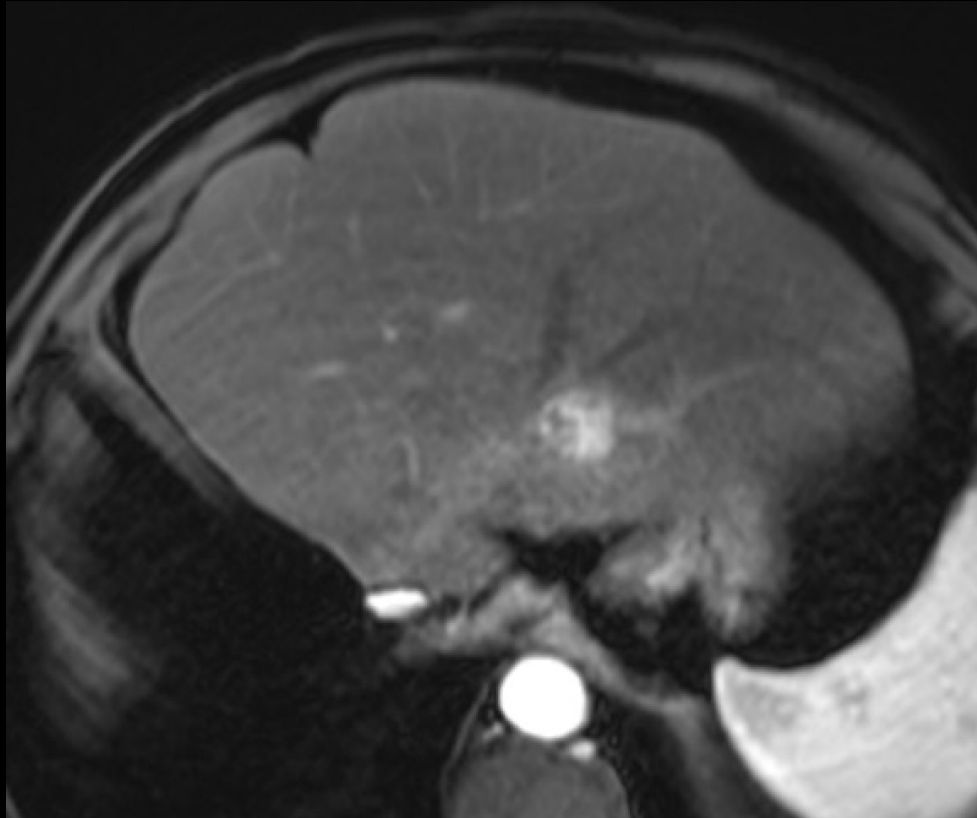
## Look with Ultrasound



# Look with Ultrasound



# Look with Ultrasound



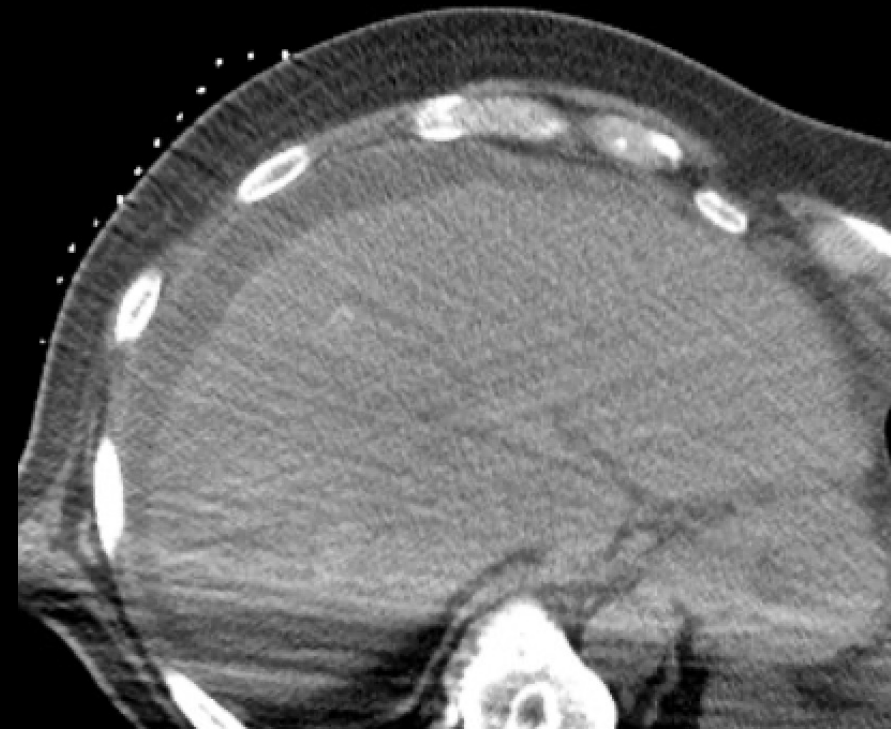
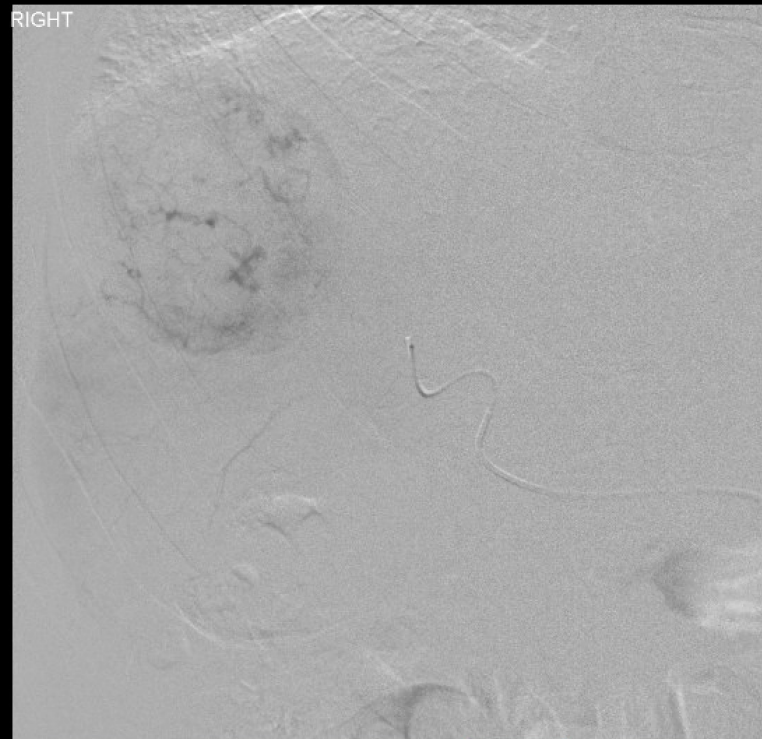
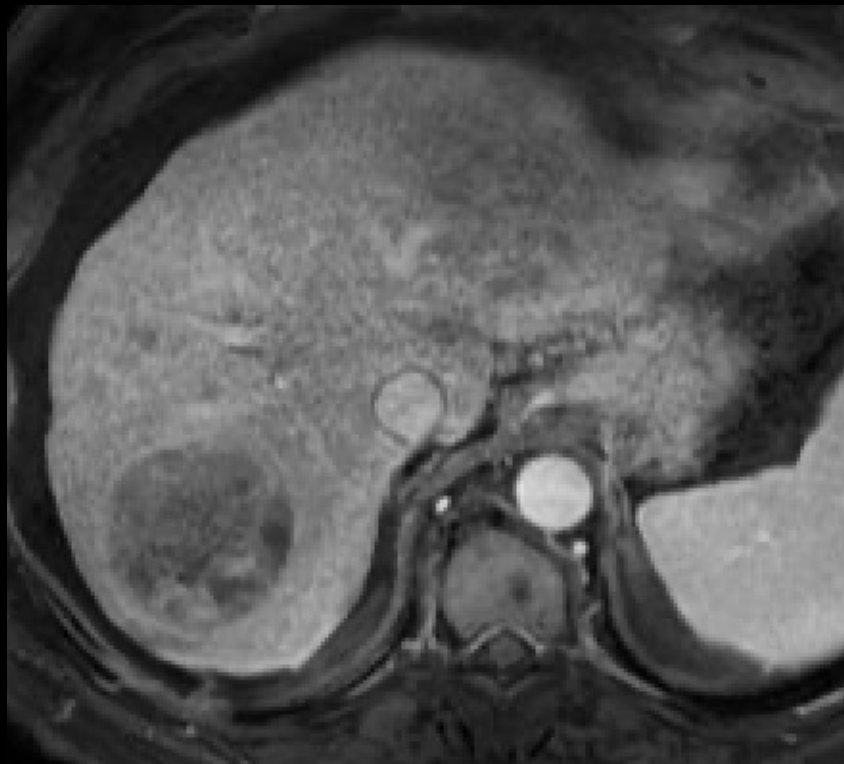
# Pearl #2

## Contrast

# No Contrast



# Contrast with Embo - Lipiodol Staining



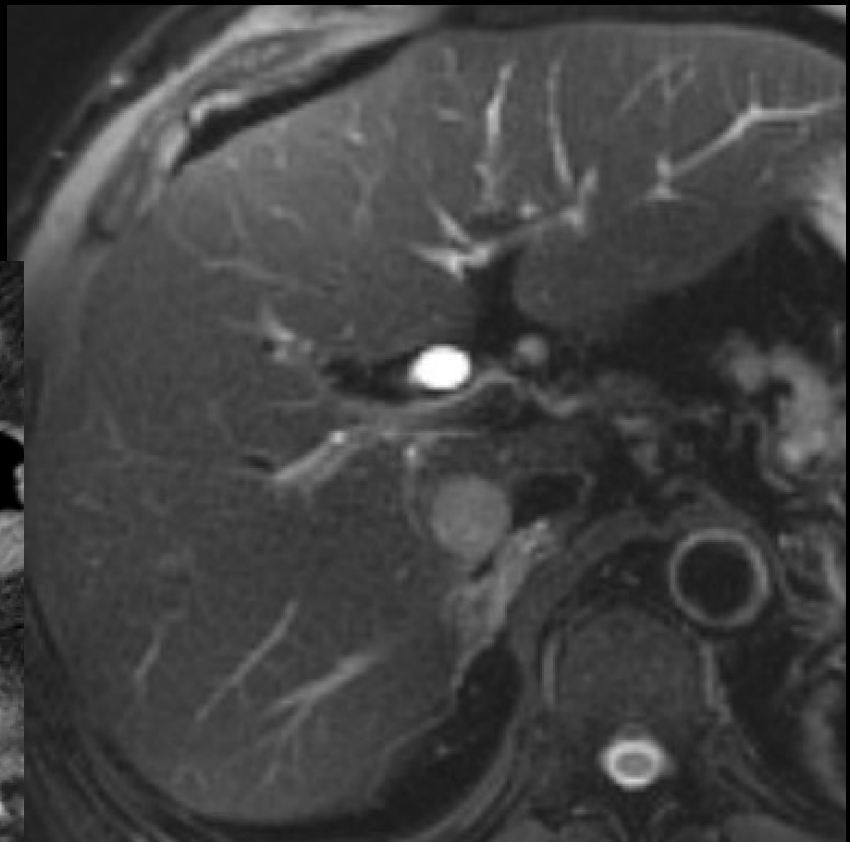
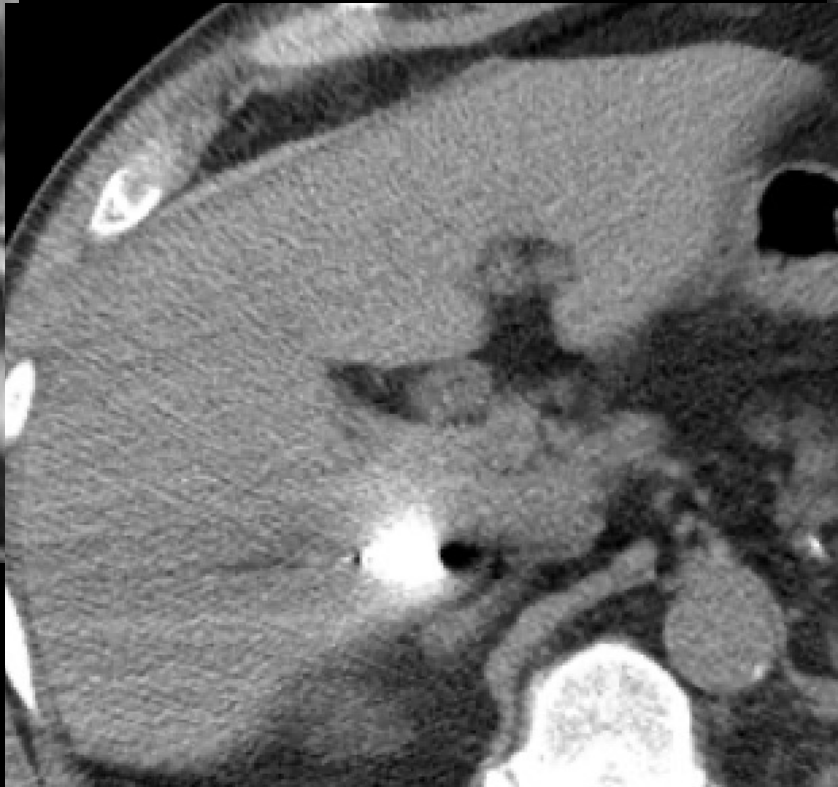
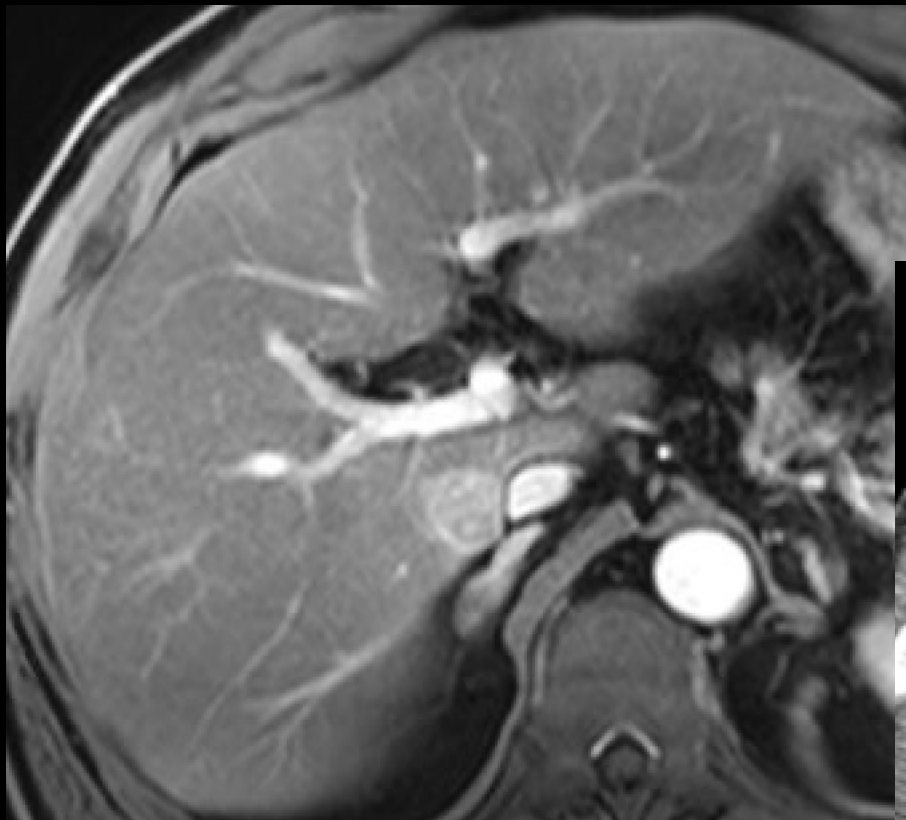
# Pearl #3

## Landmarks

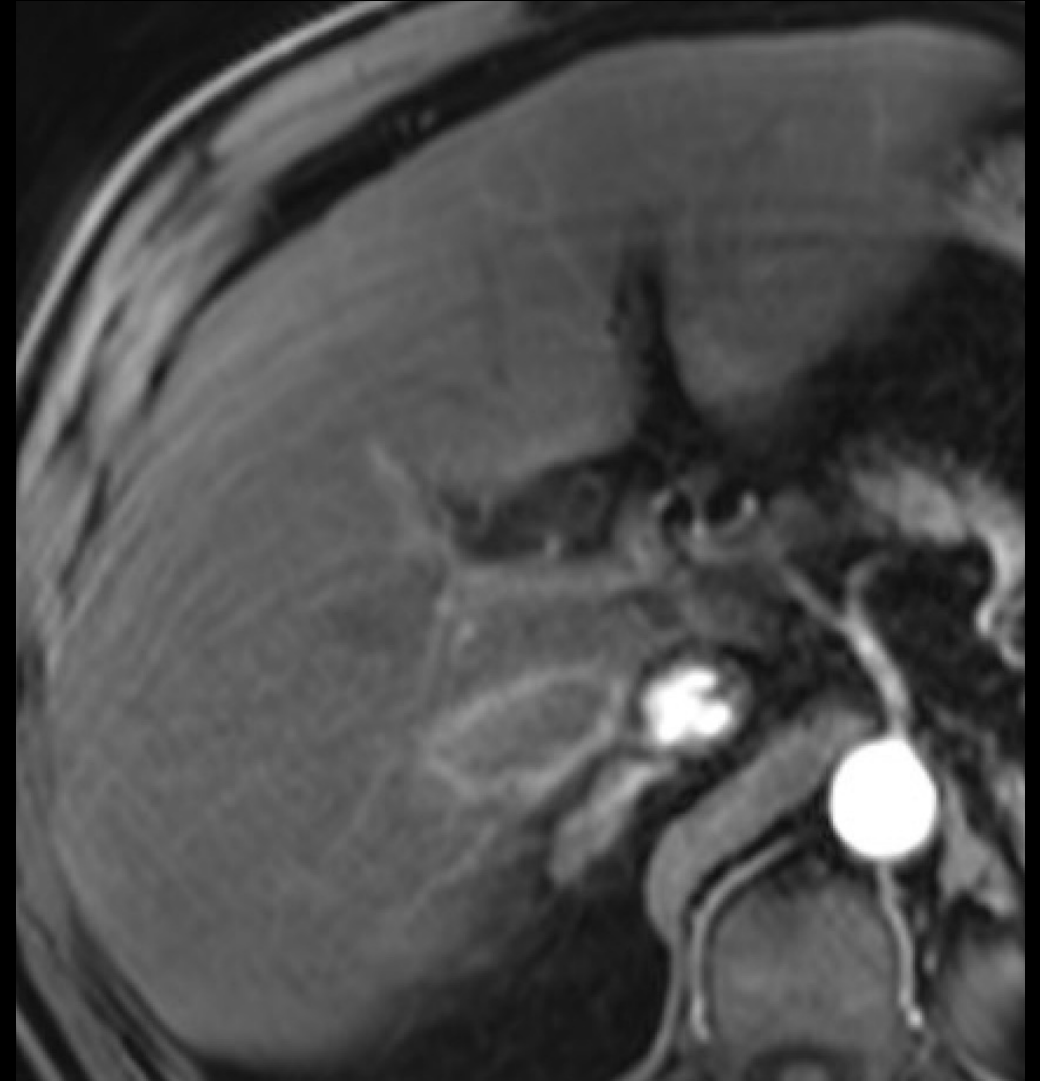
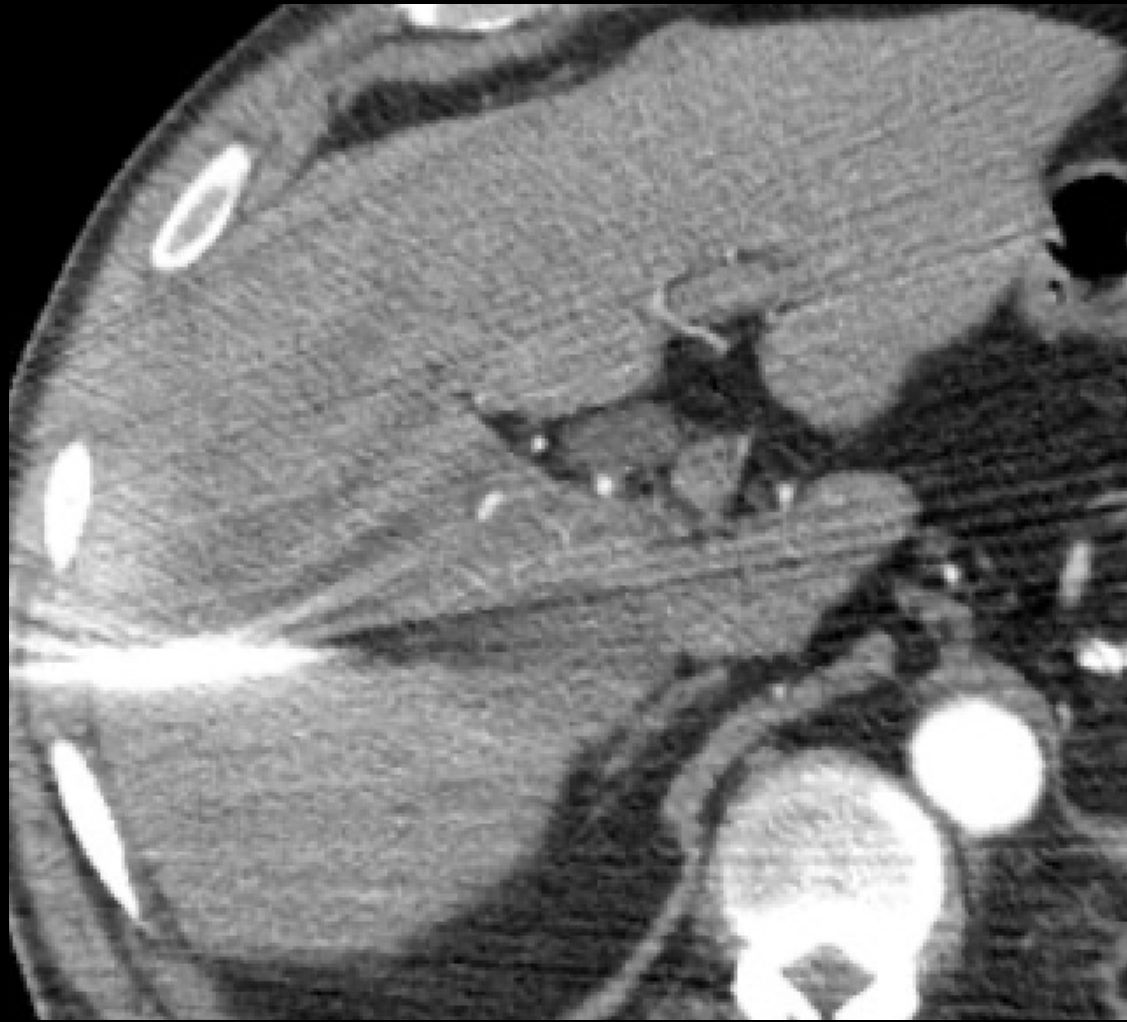
# Landmarks



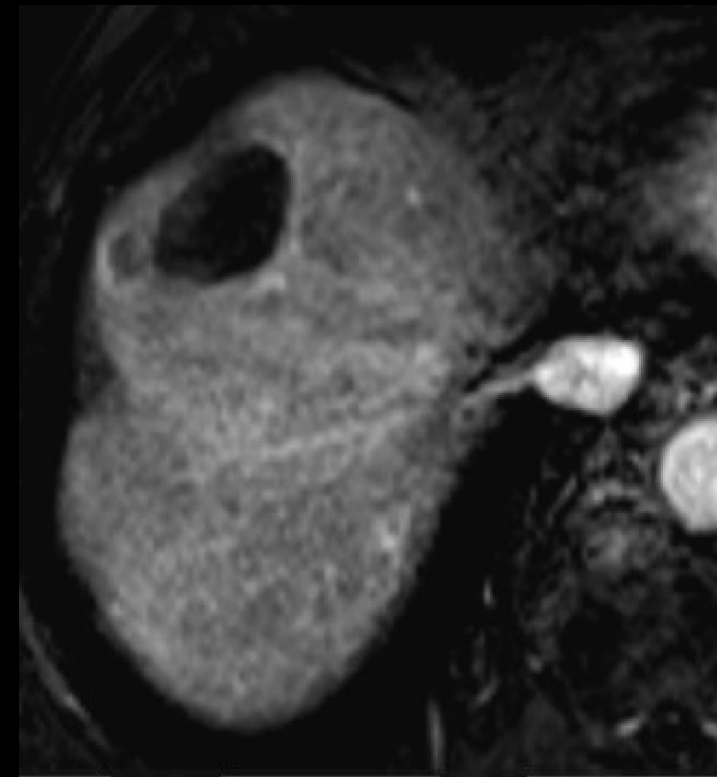
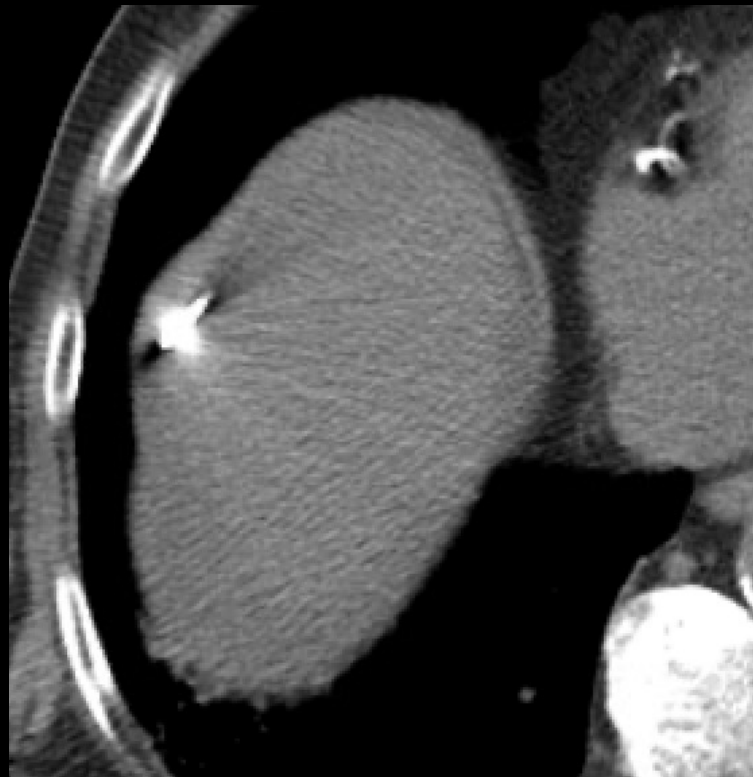
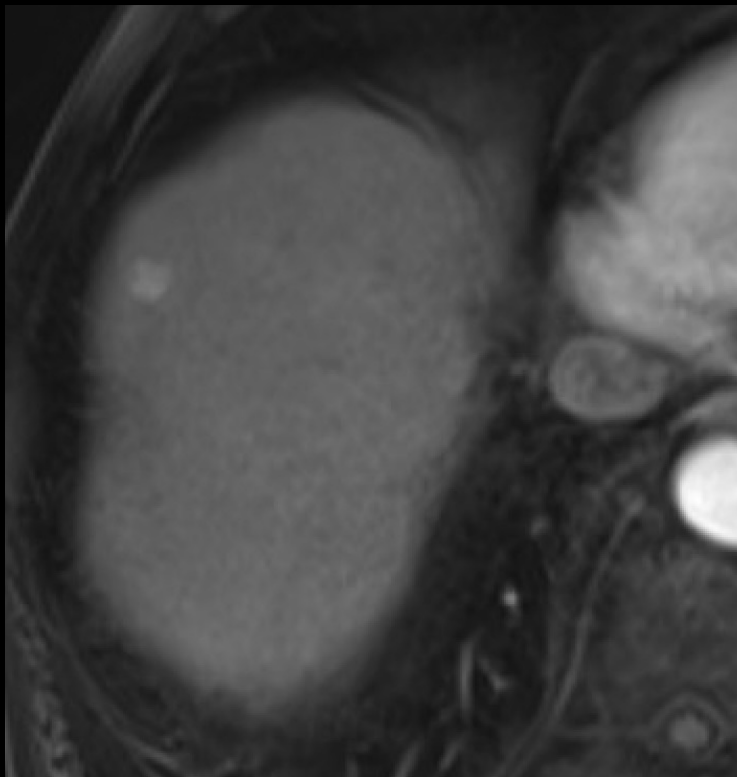
# Anatomical Landmarks



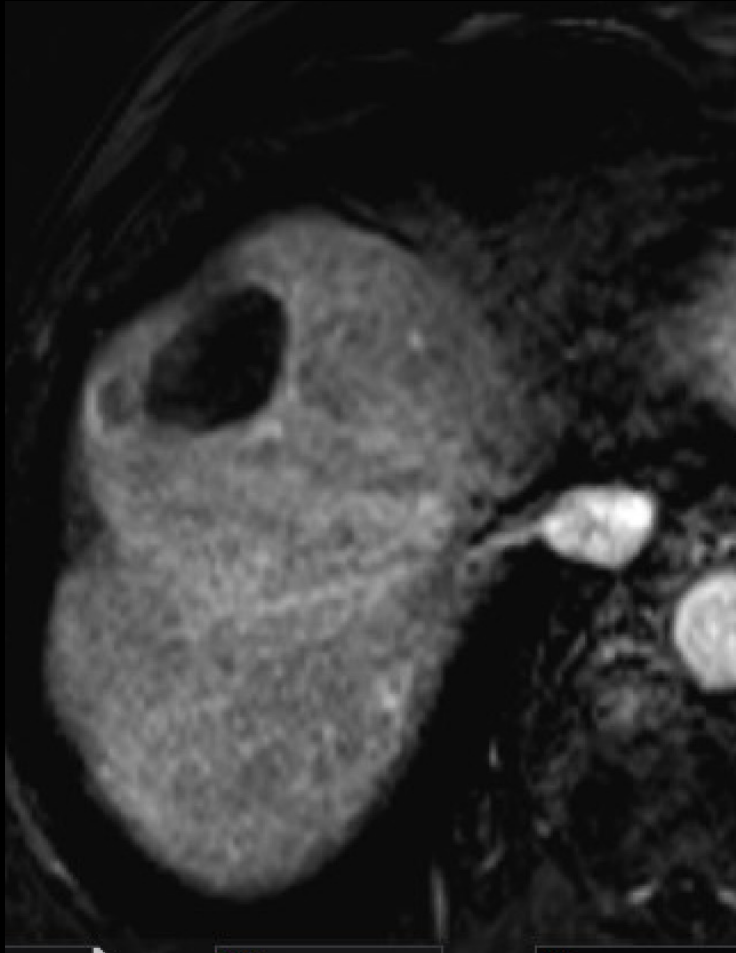
# Landmarks



# Internal Landmarks

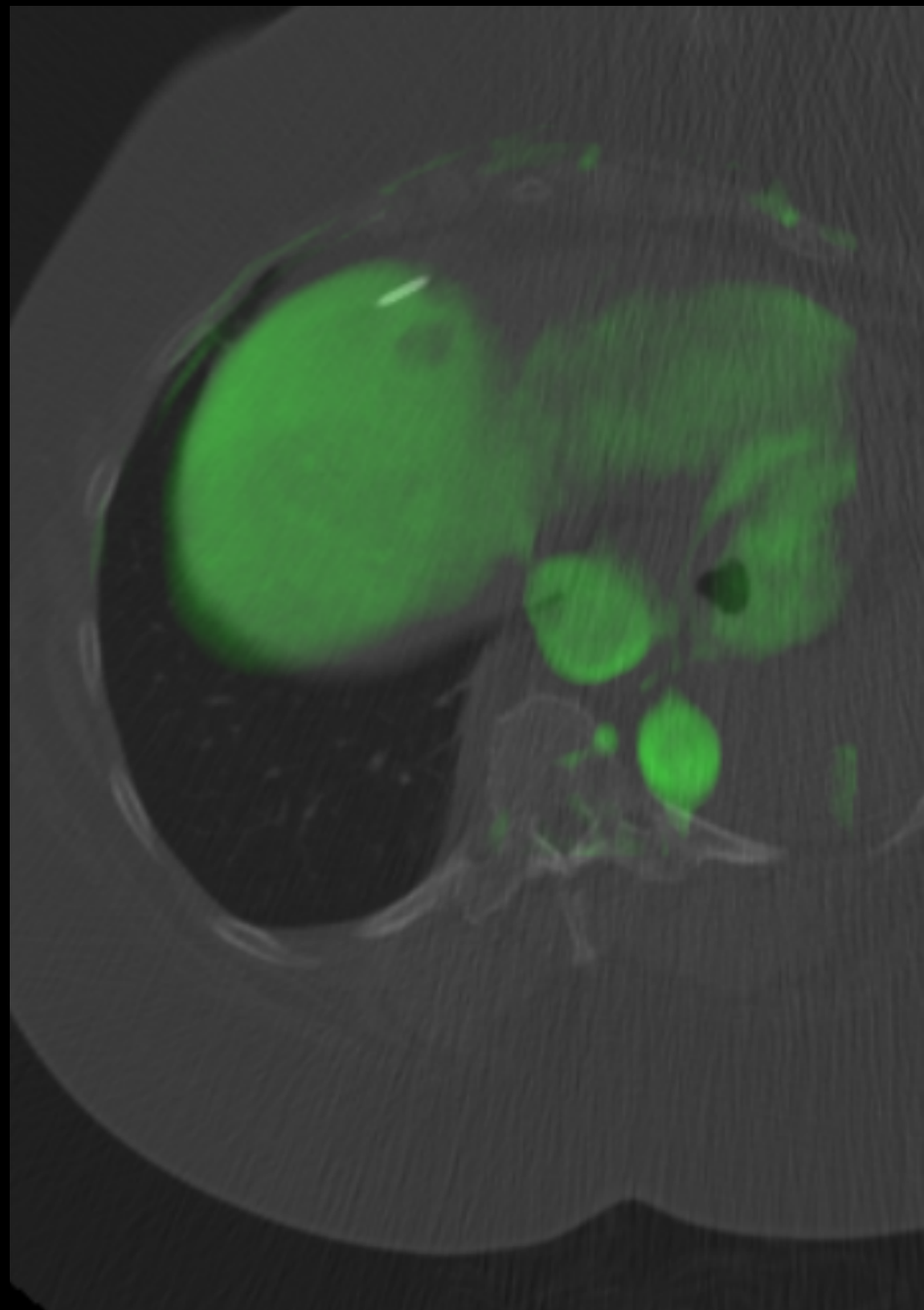


# Internal Landmarks



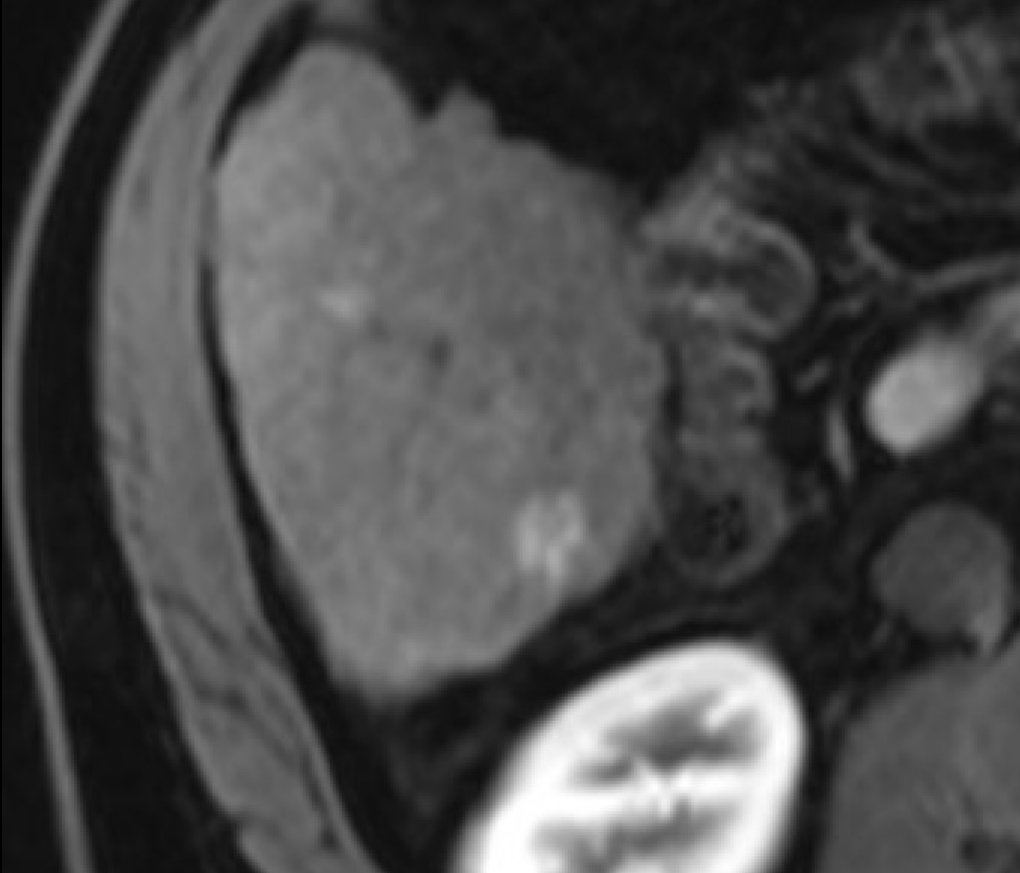
# Pearl #4

## Image Fusion



Pearl #5  
Blast It!

# Blast the Area



# My Top 5 Technical Pearls

1. Ultrasound — look with US
2. Contrast — don't assume non-contrast is bad/give contrast/ablate post embo
3. Landmarks — use them
4. Fusion imaging
5. Blast the area

# Thank You