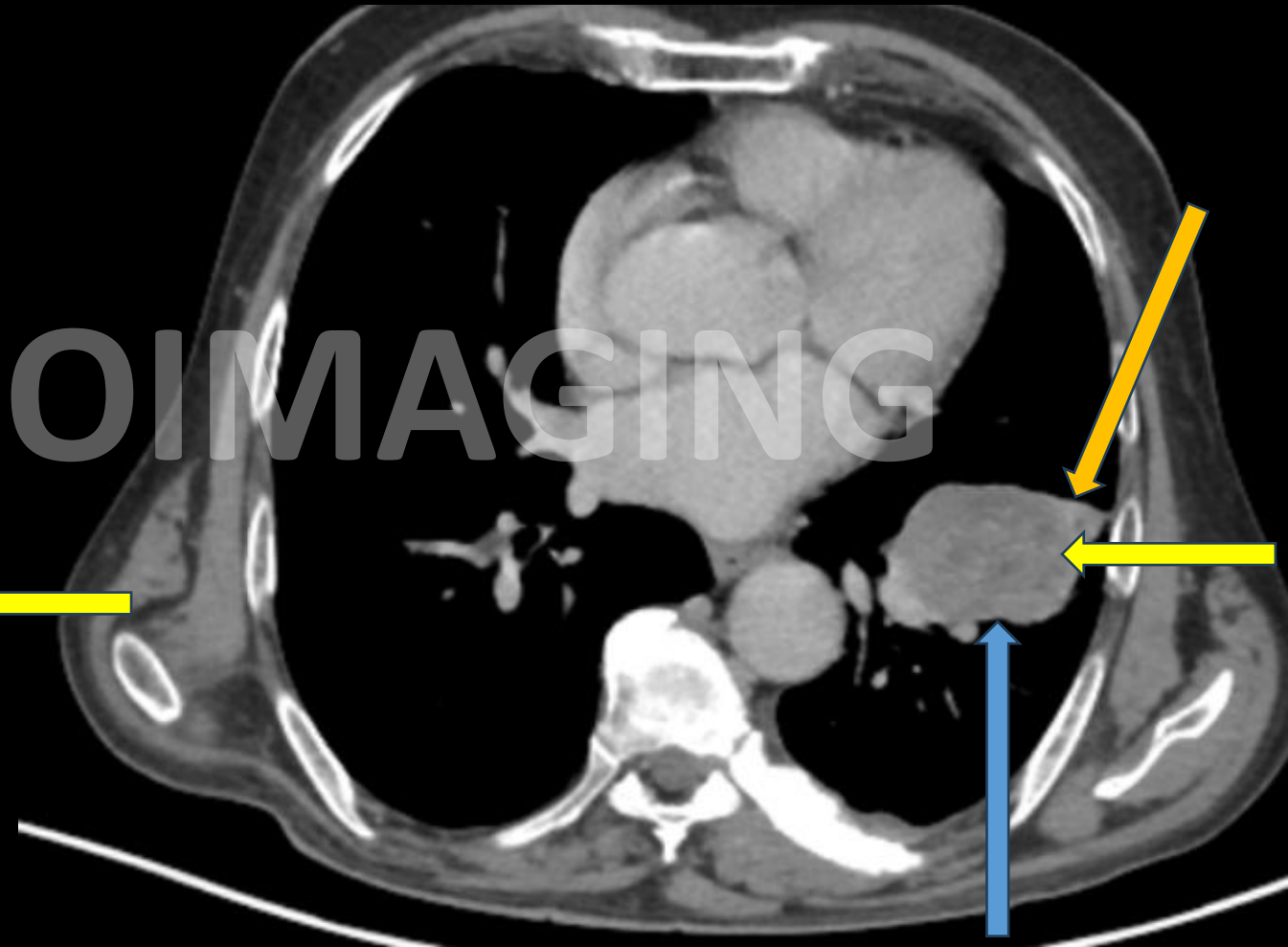
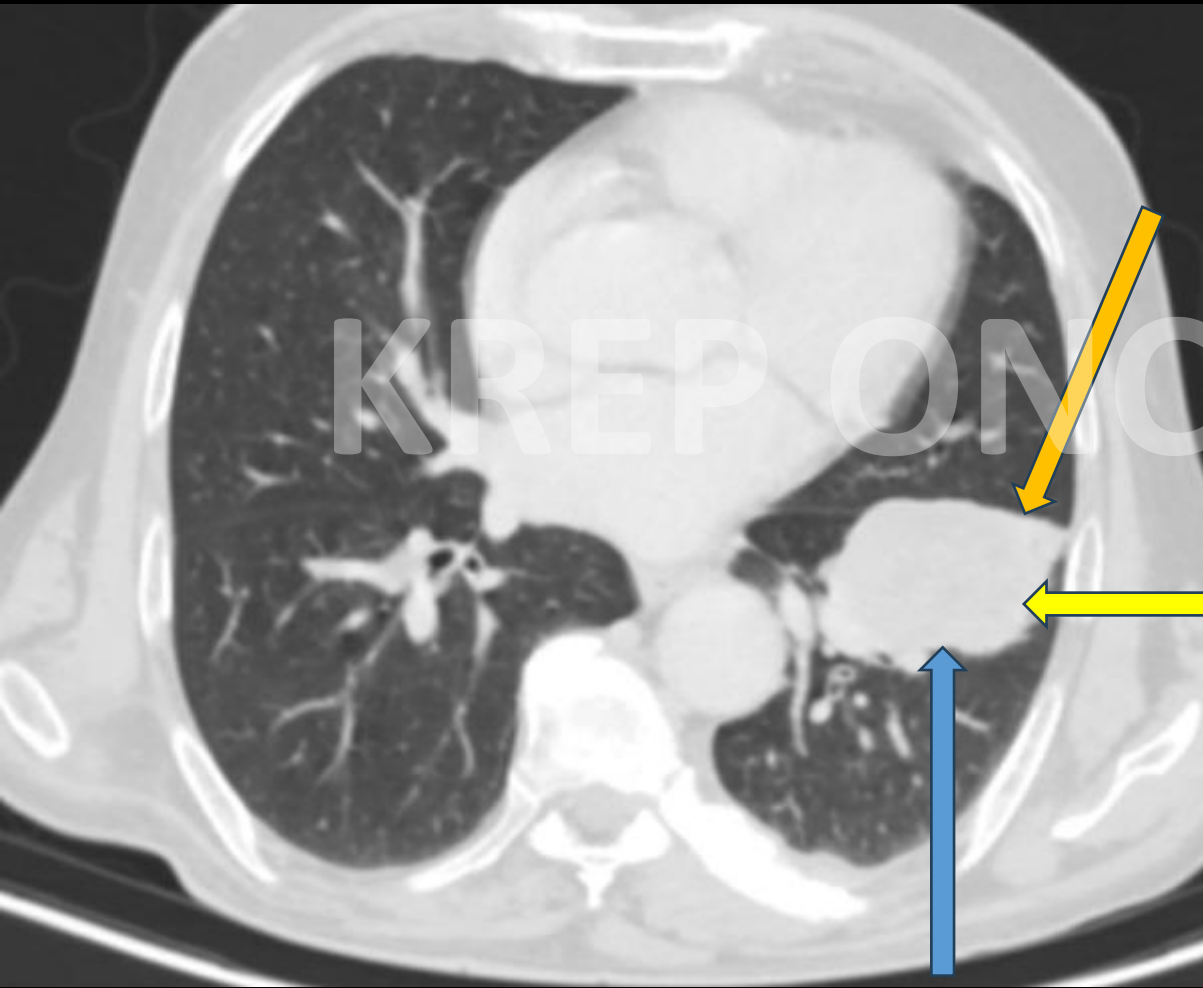




2025

KARNATAKA RADIOLOGY EDUCATION PROGRAM

CT guided biopsy for lung mass in suspected lung ca with metastasis

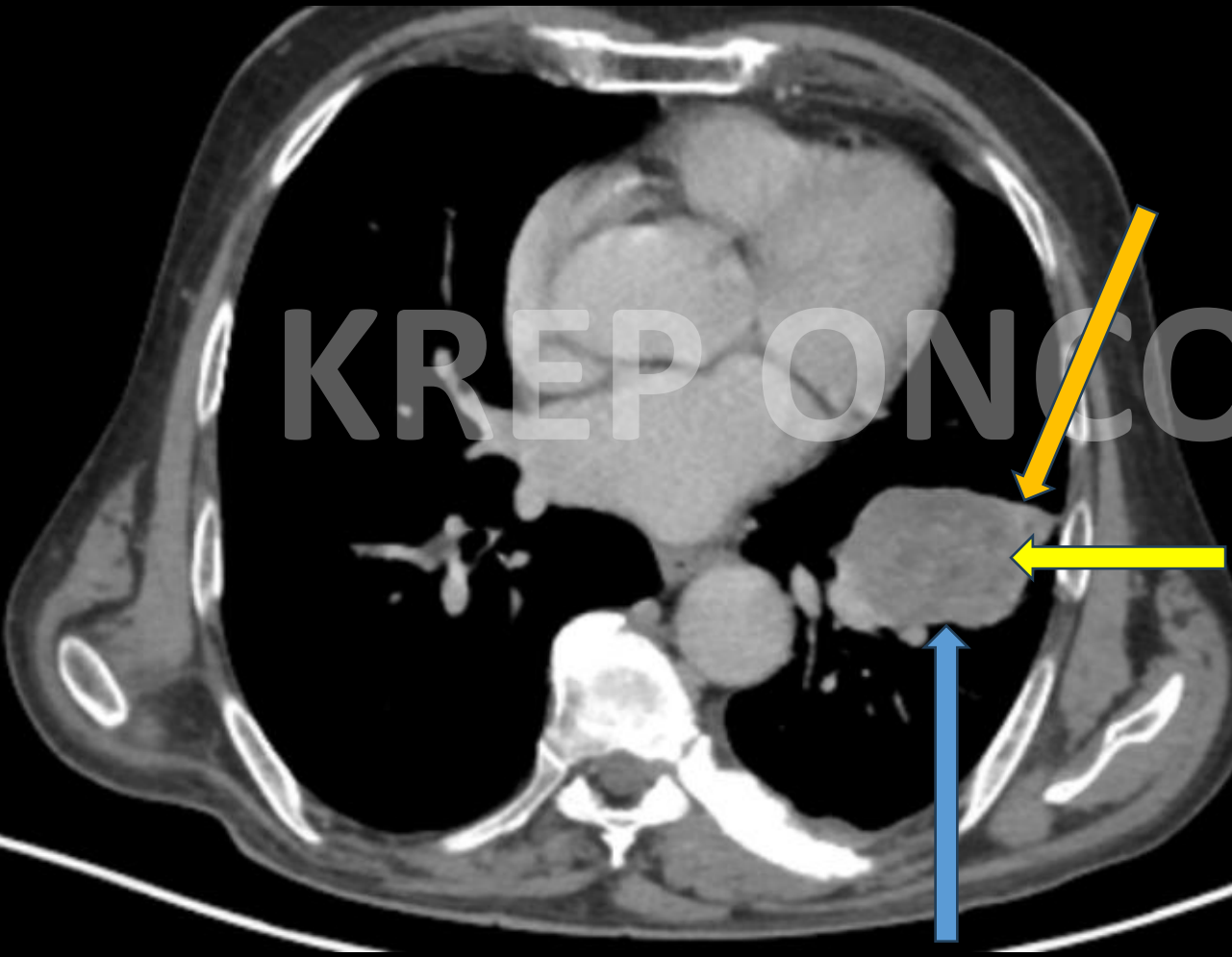


KREP ONCOIMAGING

Checklist

- Confirm patient details, request form, consent. Explain the procedure and risk of complications.
- Confirm the indication (site of biopsy, side, number etc)
- Review the clinical details (Sometimes sample in NS is needed for infection workup)
- Review the bleeding parameters.
- Secure an IV access.
- Keep the crashcart ready.
- Have a backup ready for high risk prone cases.

KREP ONCOIMAGING

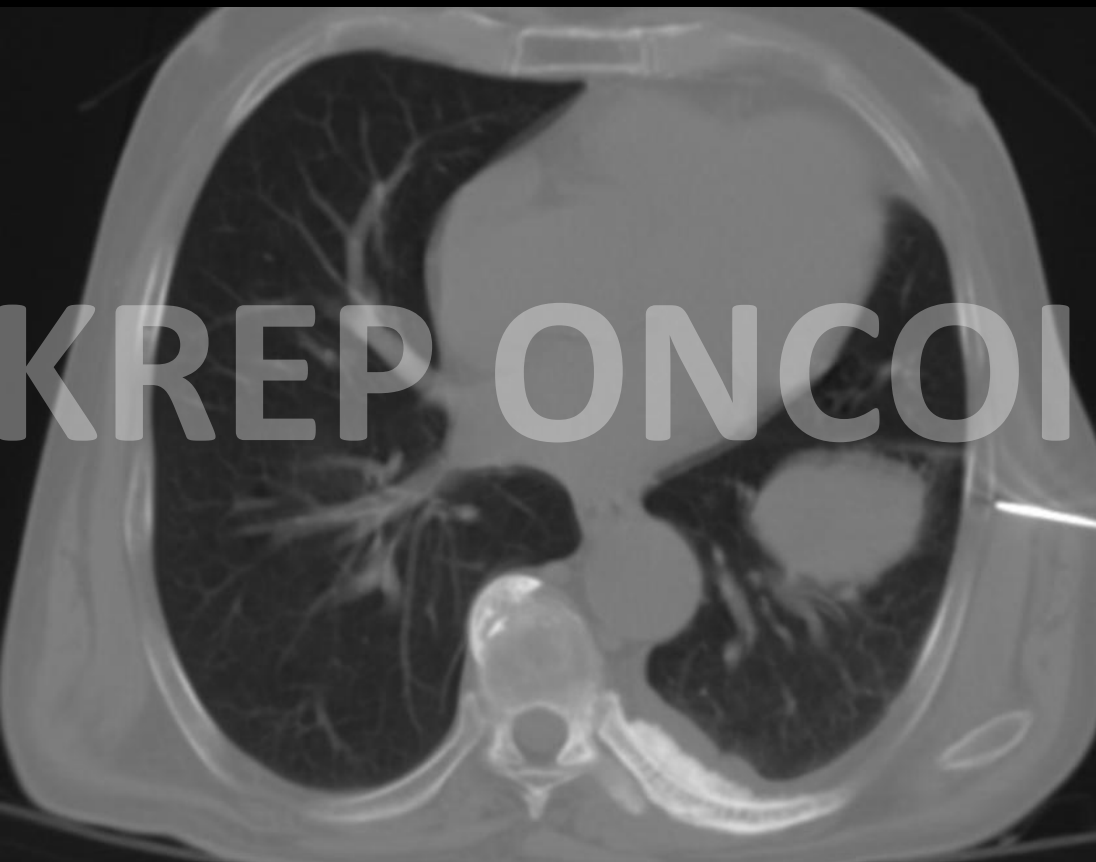


- **Orange** – transfissural - not impossible, not routinely advisable.
- **Blue** – Risky, longer route and note that segmental arteries are in the course, with breathing it is highly risky.
- **Yellow** – Relatively safer, shorter route. Only pitfall, trajectory is facing vital structure. Controlled advance is mandatory. Have to note exact skin to lesion depth and can consider to place the rubber stopper.

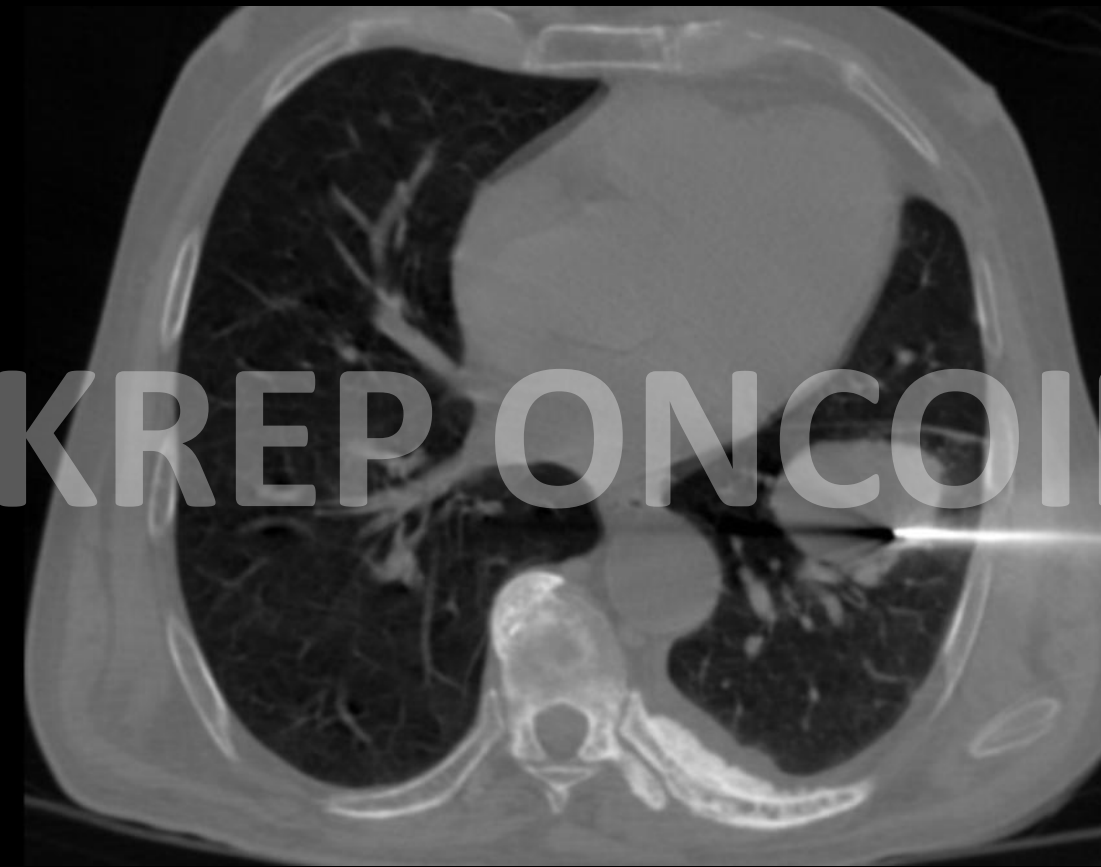


KREP ONCOIMAGING

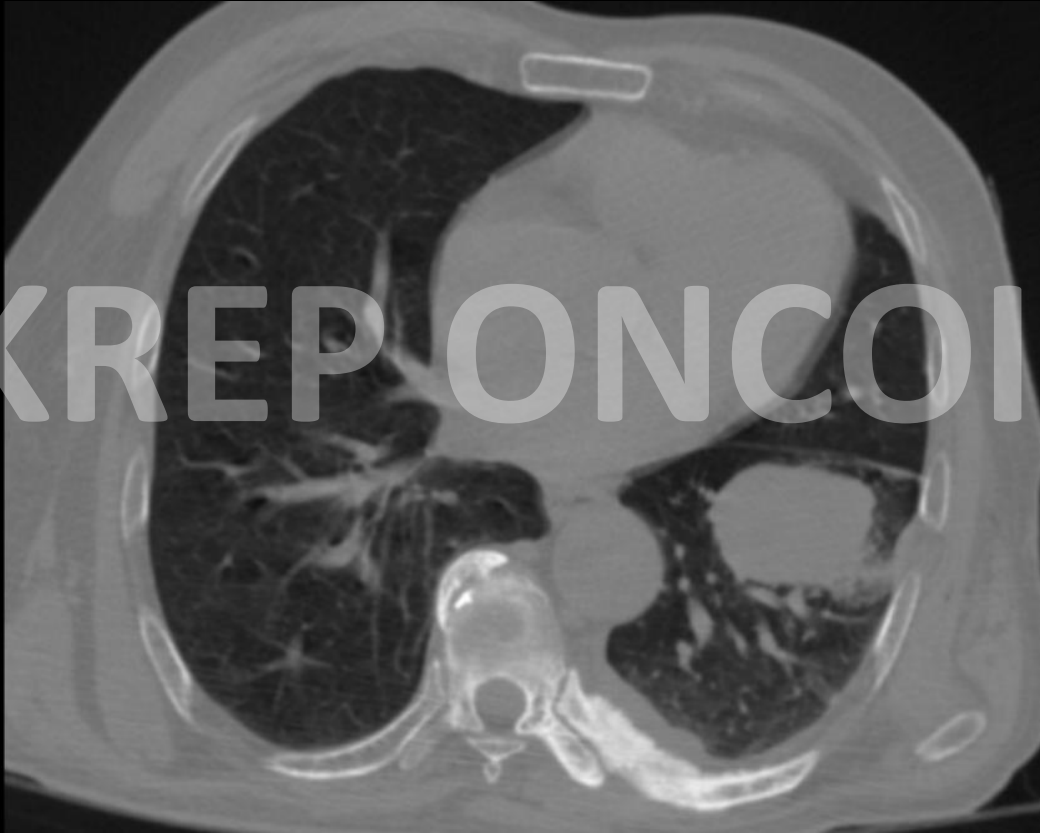
KREP ONCOIMAGING



- Initial position of coaxial needle, note that it is touching rib (skin to rib/intercostal space distance was noted prior to advancement and rib was felt) at this point patient was instructed to change the position of arm a little bit.



- 18G 15cm semi automatic biopsy kit (12.8 cm co axial)
- Needle was repositioned through the intercostal space with controlled movement with only the necessary advancement.
- Note that the trajectory is along vital structures, controlled movement is crucial and any other additional movement poses significant risk to patient.
- Single pleural puncture to reach the lesion to avoid complications.
- Sufficient cores for HPE, IHC, molecular testing should be taken.



- Post biopsy minimal hemorrhage, no pneumothorax. The biopsy track is sealed.

KREP ONCOIMAGING

- Diagnosis – Adenocarcinoma lung.
- Note the rib metastasis with surrounding soft tissue in the images.

Contributors

Dr. M S Kashif

MD, Fellowship in Oncoimaging

Dr. Zain Sarmast

MD, Fellowship in Oncoimaging

Feedbacks are most welcome and appreciated - drkashif1196@gmail.com