# Posterior cervical approaches Biportal Endoscopy

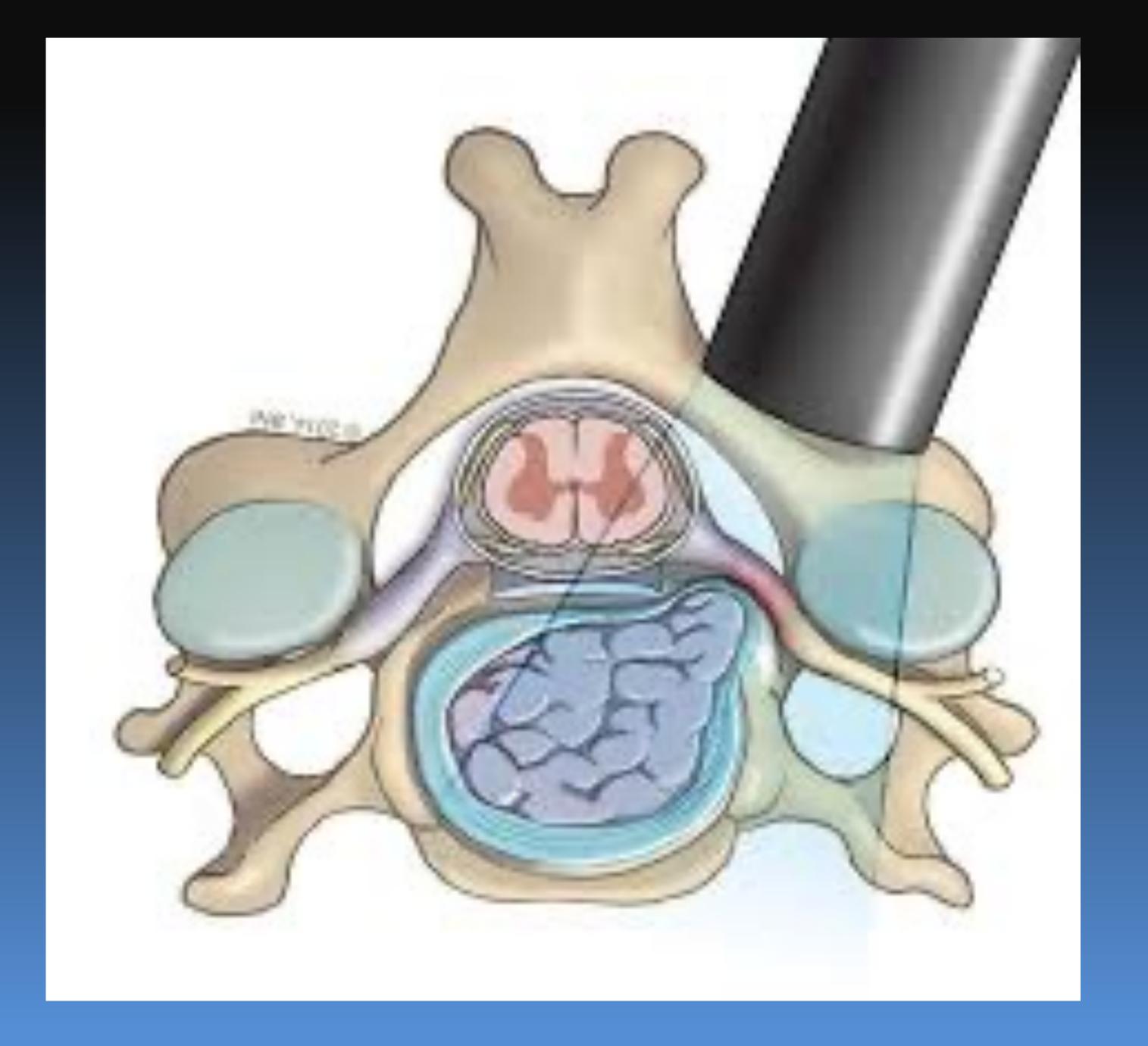
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### Post. Cervical foraminotomy by UBE

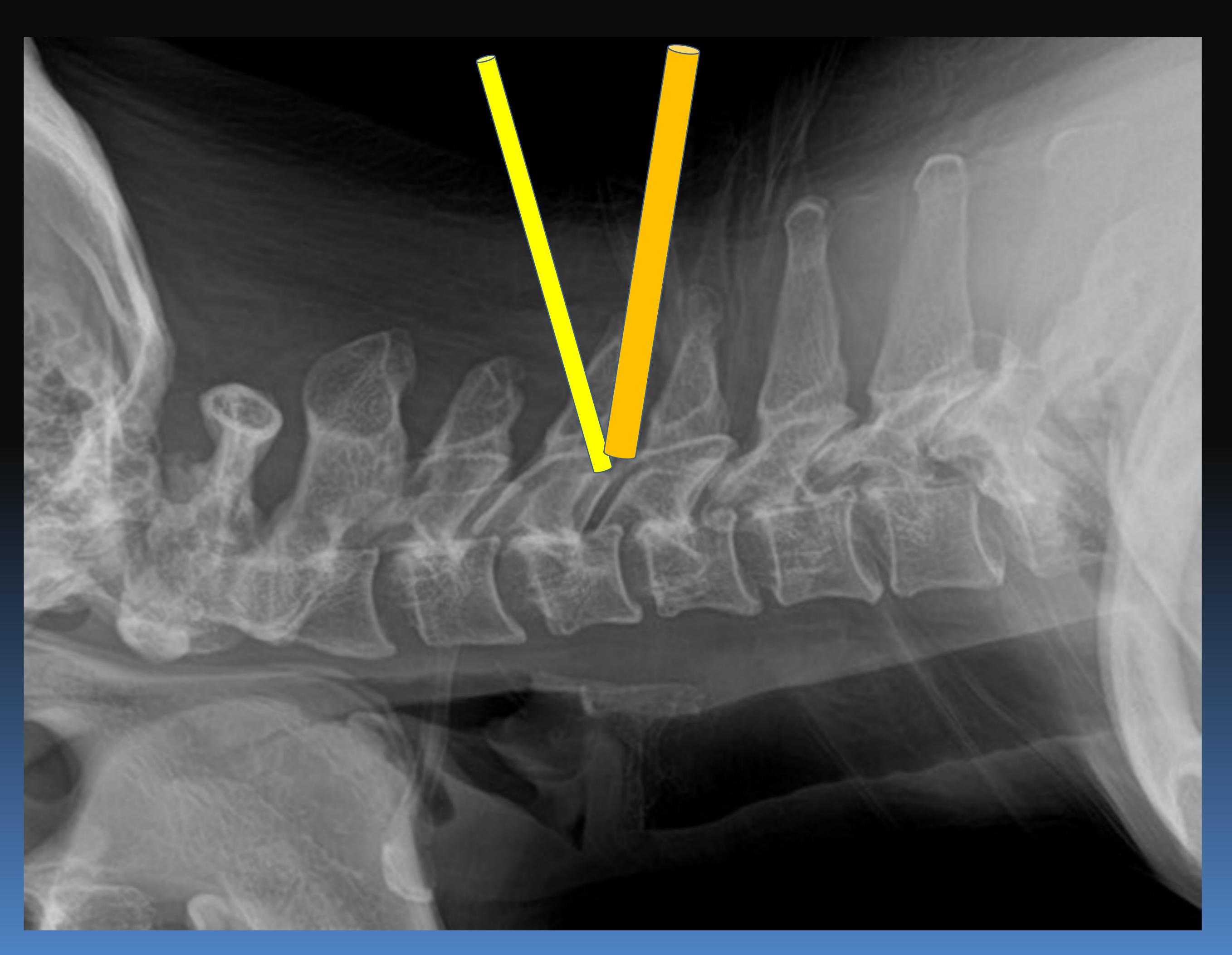
@ Biportal Endoscopic cervical posterior foraminotomy
Similar to Microscopic posterior cervical foraminotomy
using tubular retractor systems

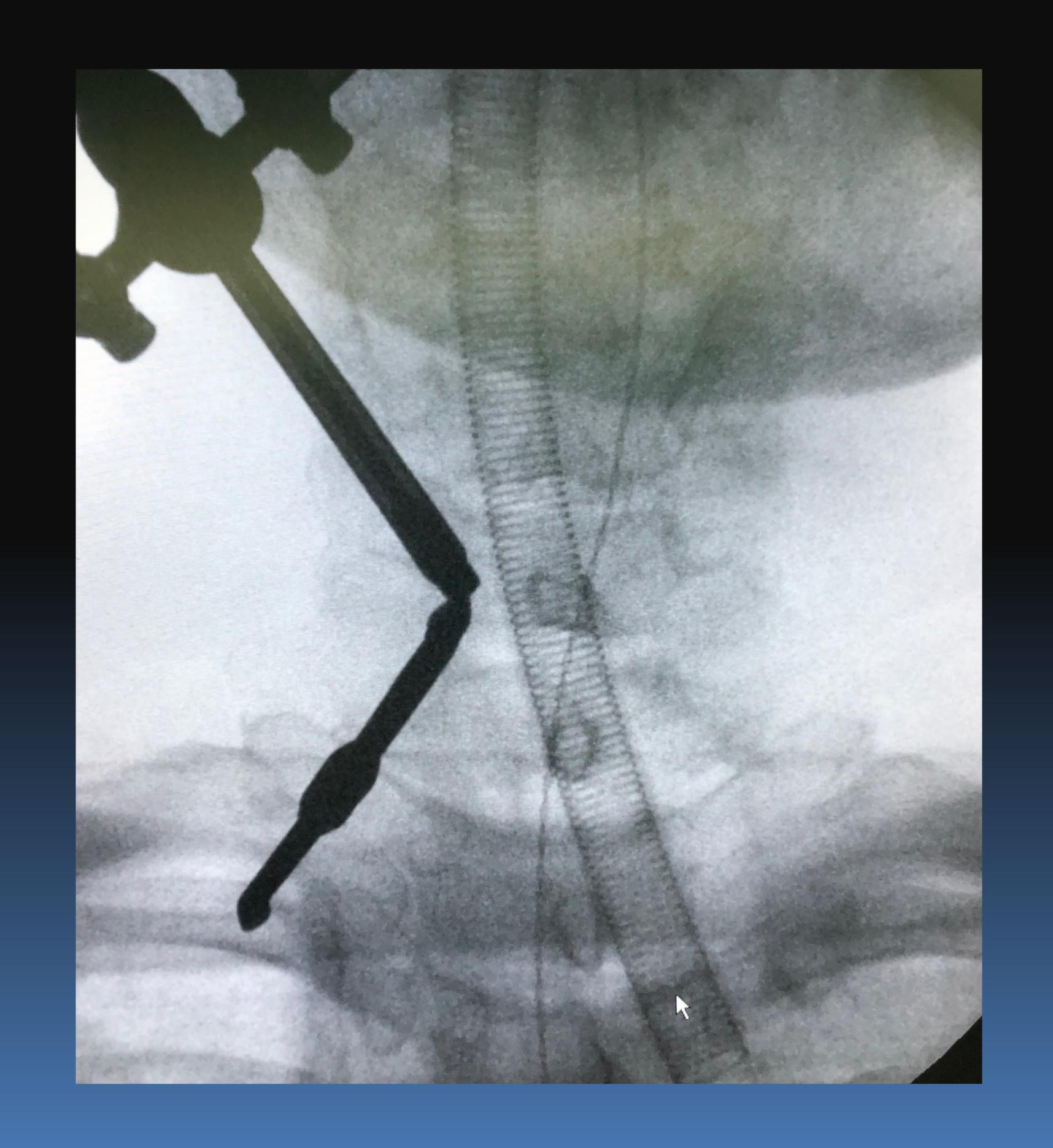








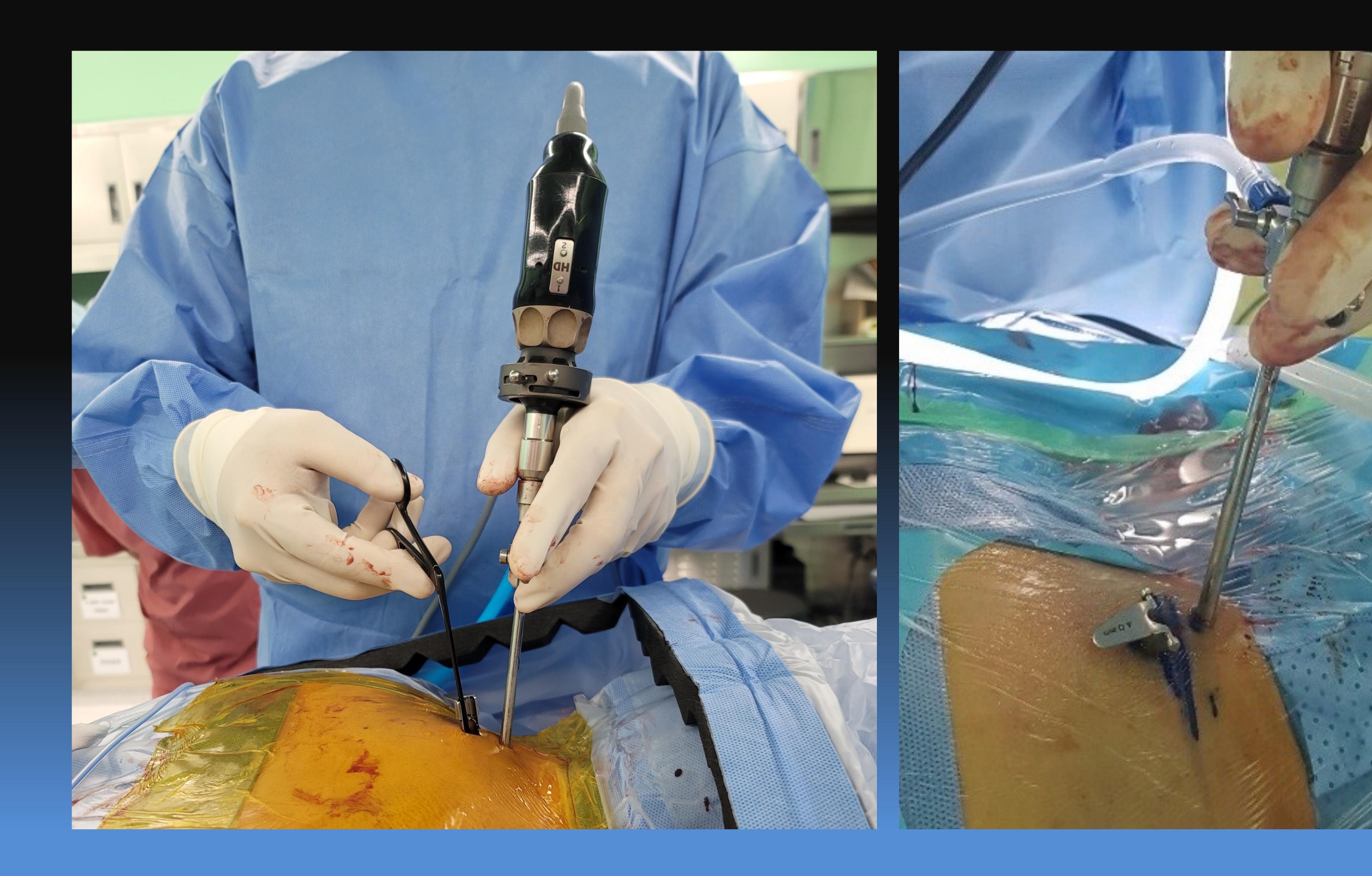




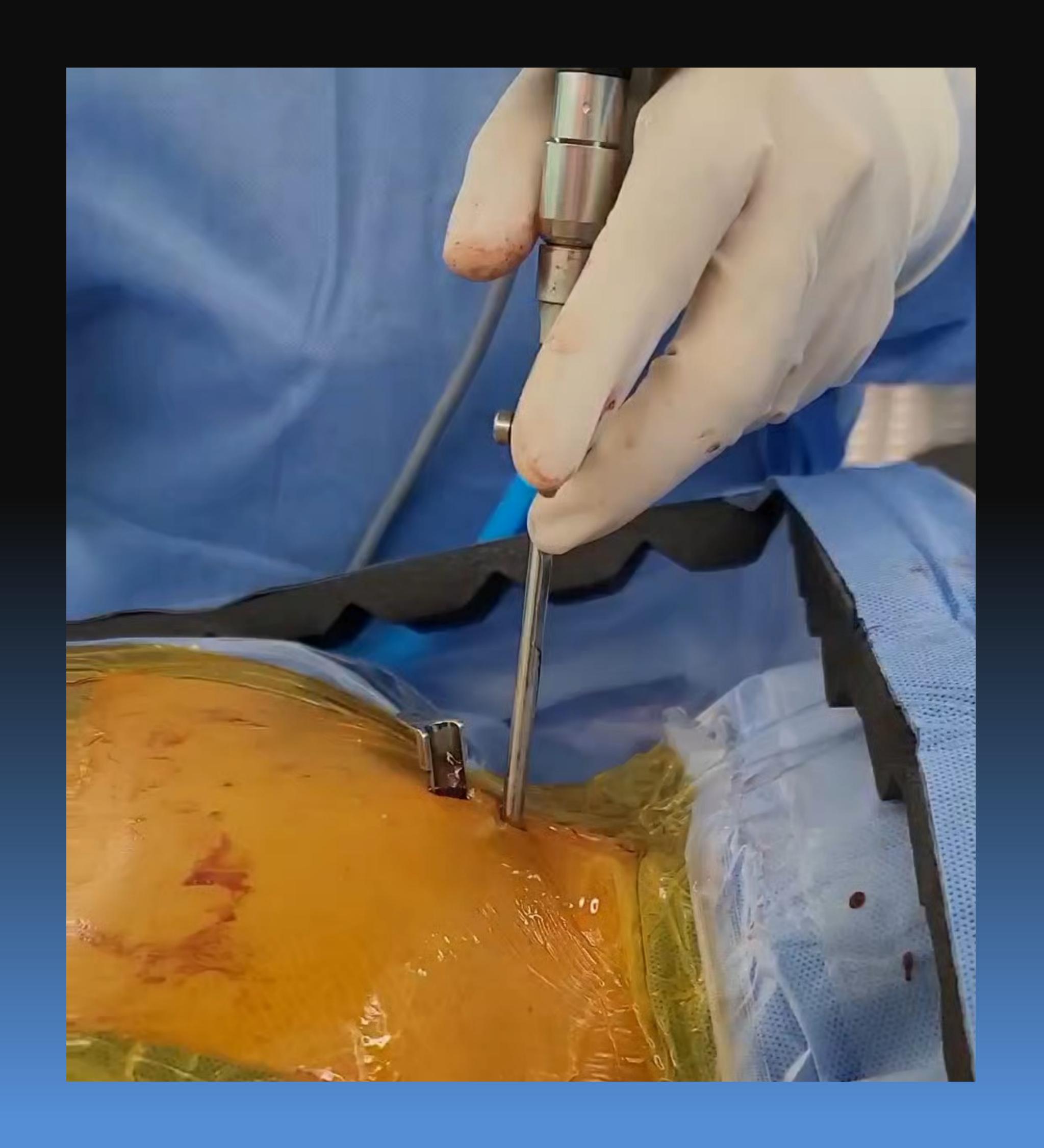


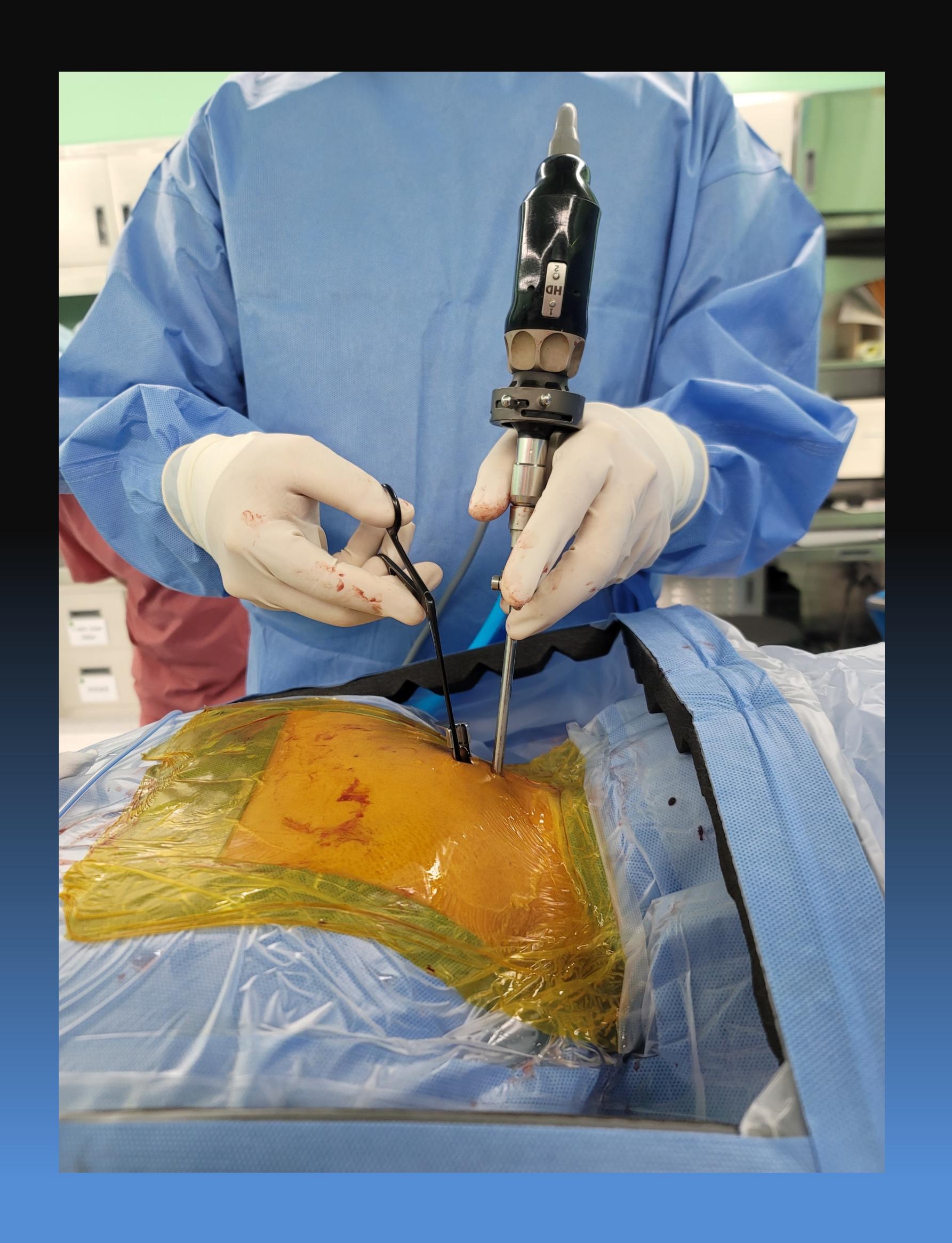


### Overview of Biportal Endoscopic PCF



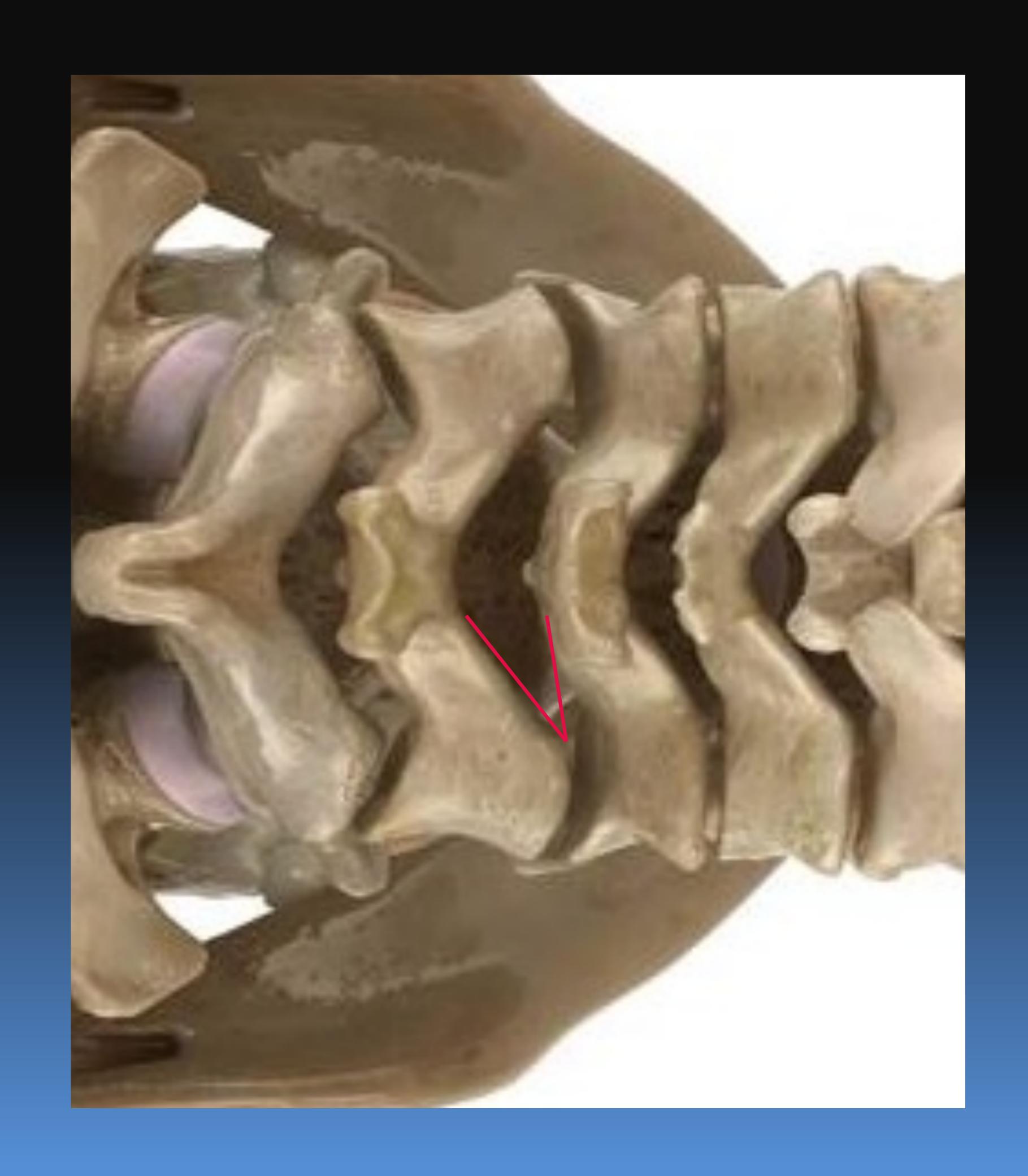
### The irrigation fluid must be well drained.





# Dissection and Check "V point"

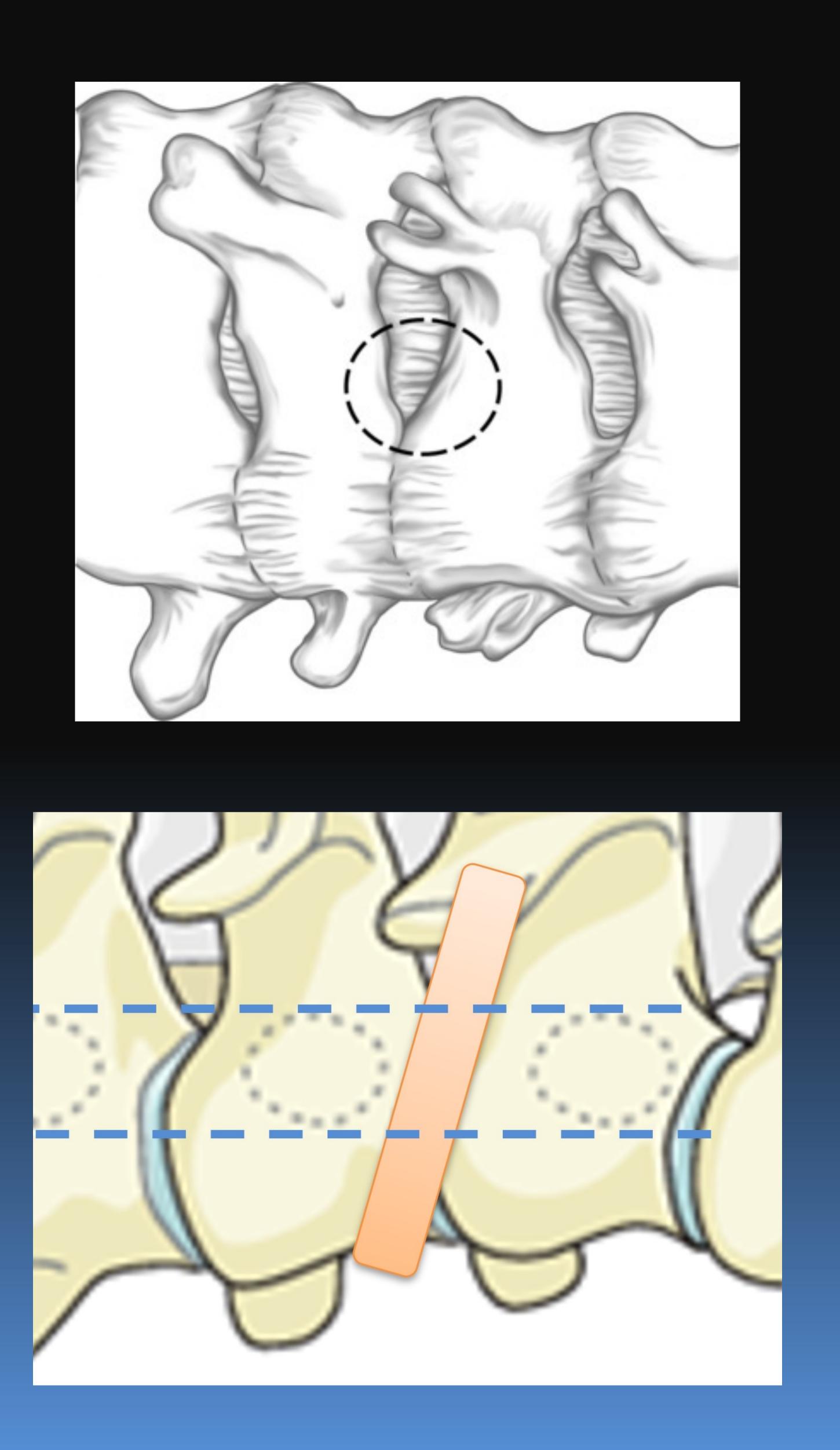


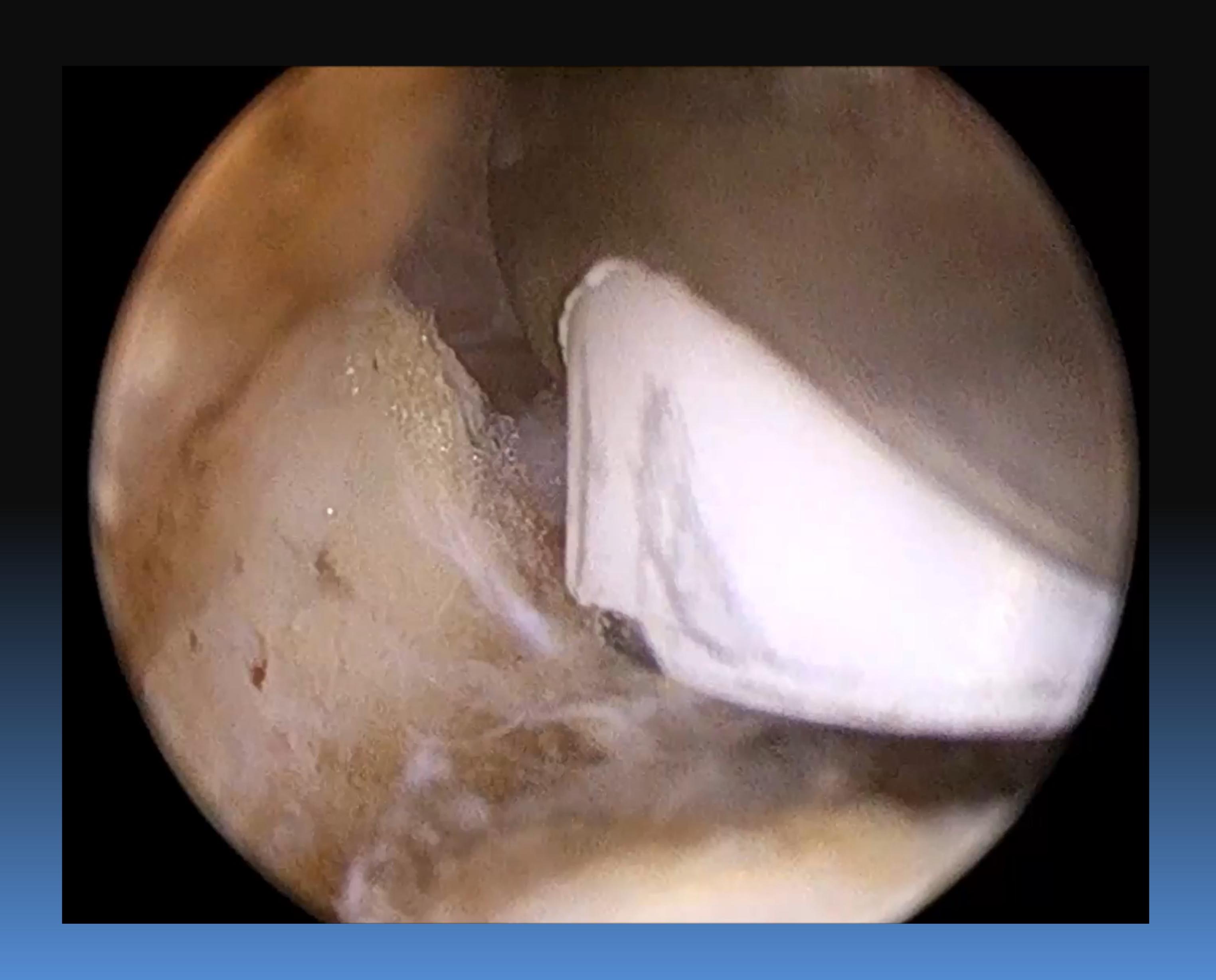


# Foraminotomy; From pedicle to pedicle From pedicle medial to lateral border, About 50 % facet

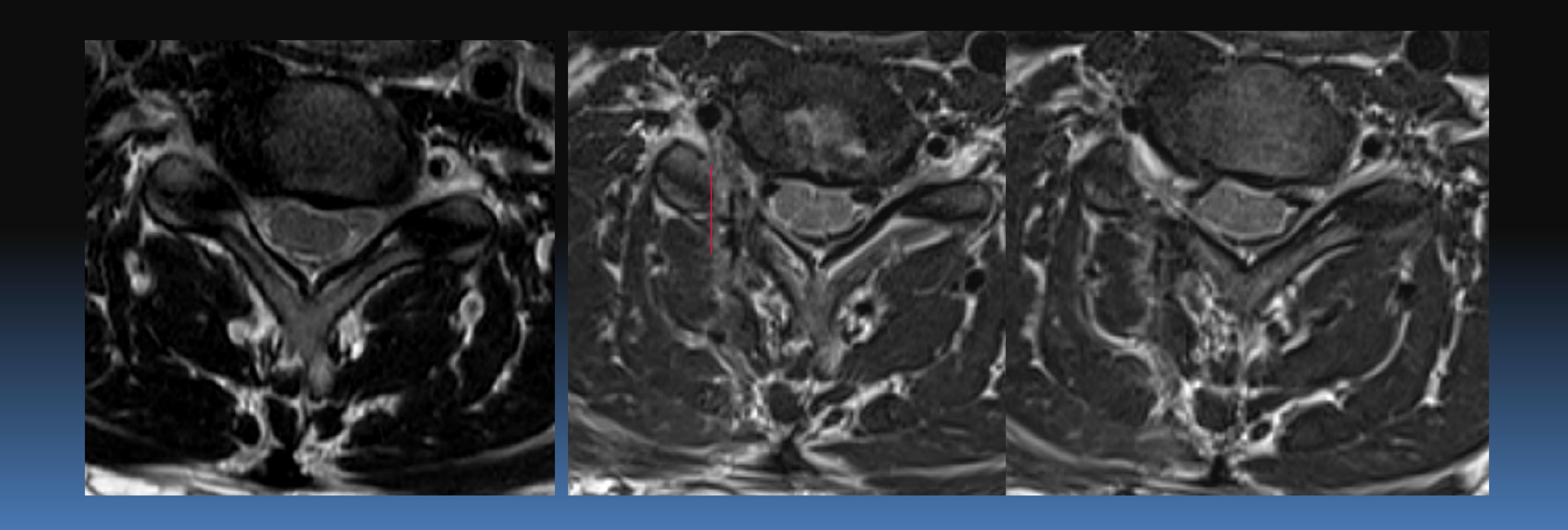




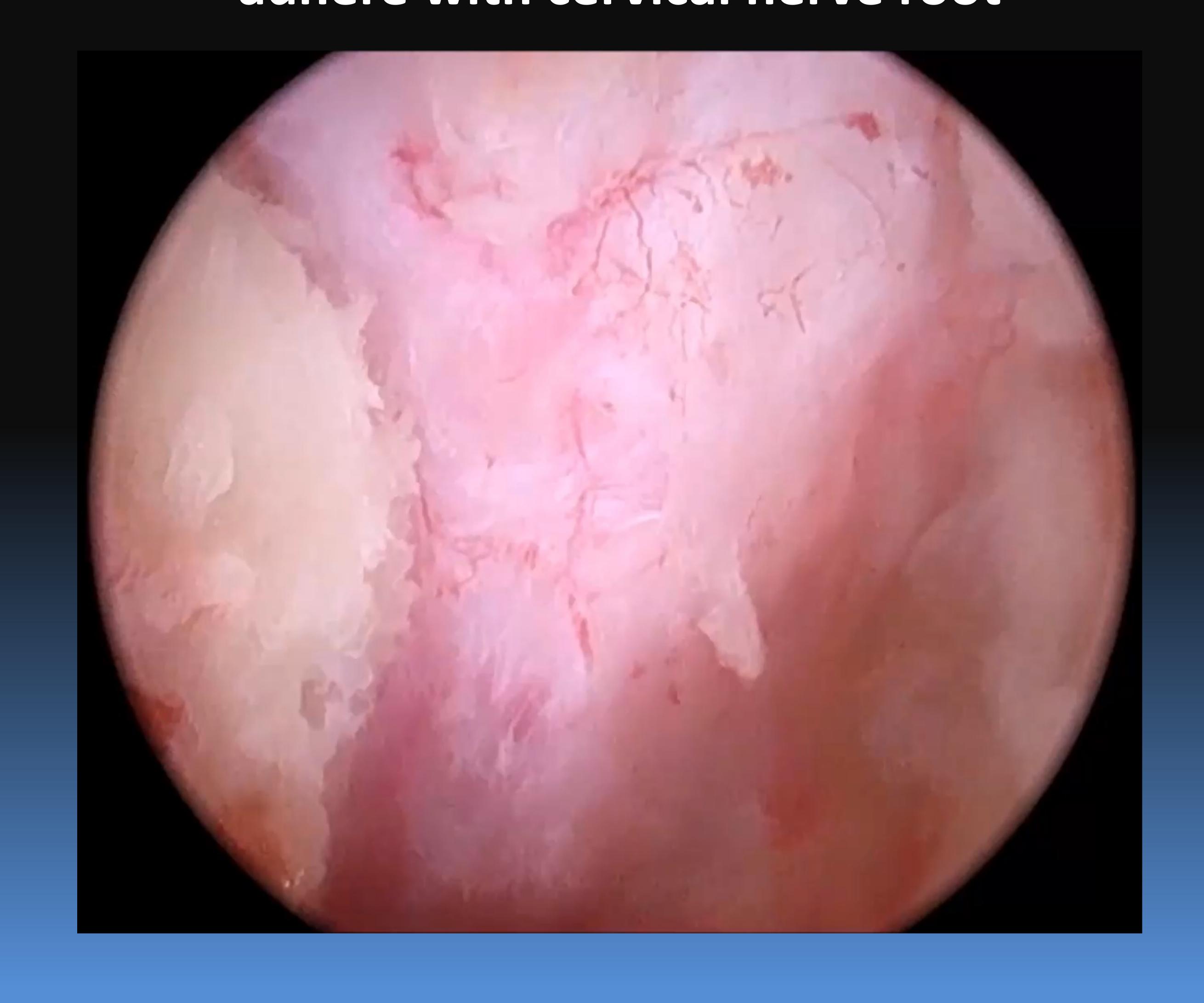


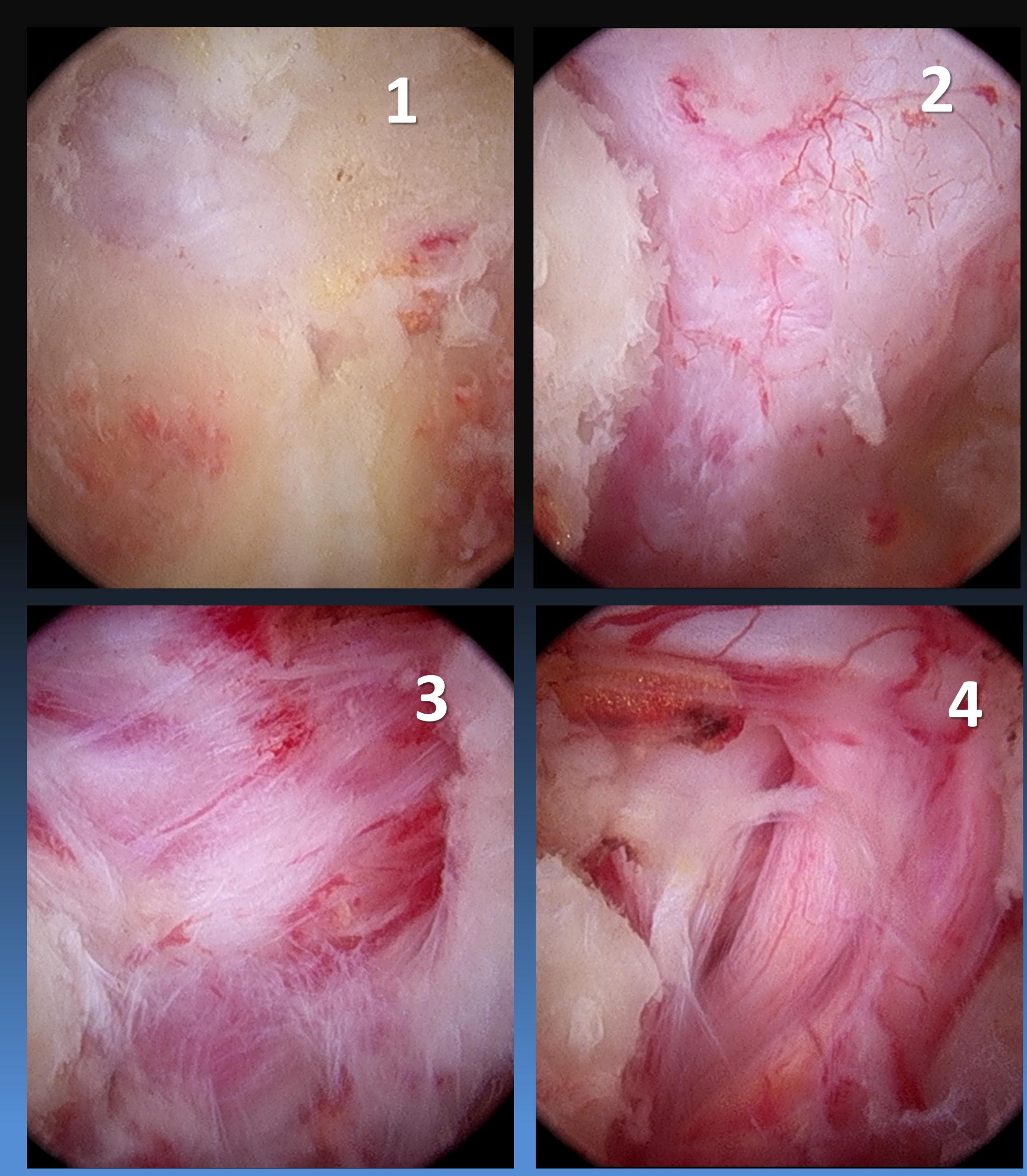


### 44/M Rt arm and hand tingling and radiating pain C 56



# Posterior epidural membrane. Fibro-areolar tissue: adhere with cervical nerve root





#### 40 years old male patient

Severe radicular pain of right-side arm.
 Refractory pain to conservative managements

 (including epidural injection)

Neurological Examination

Right C7 dermatome pain

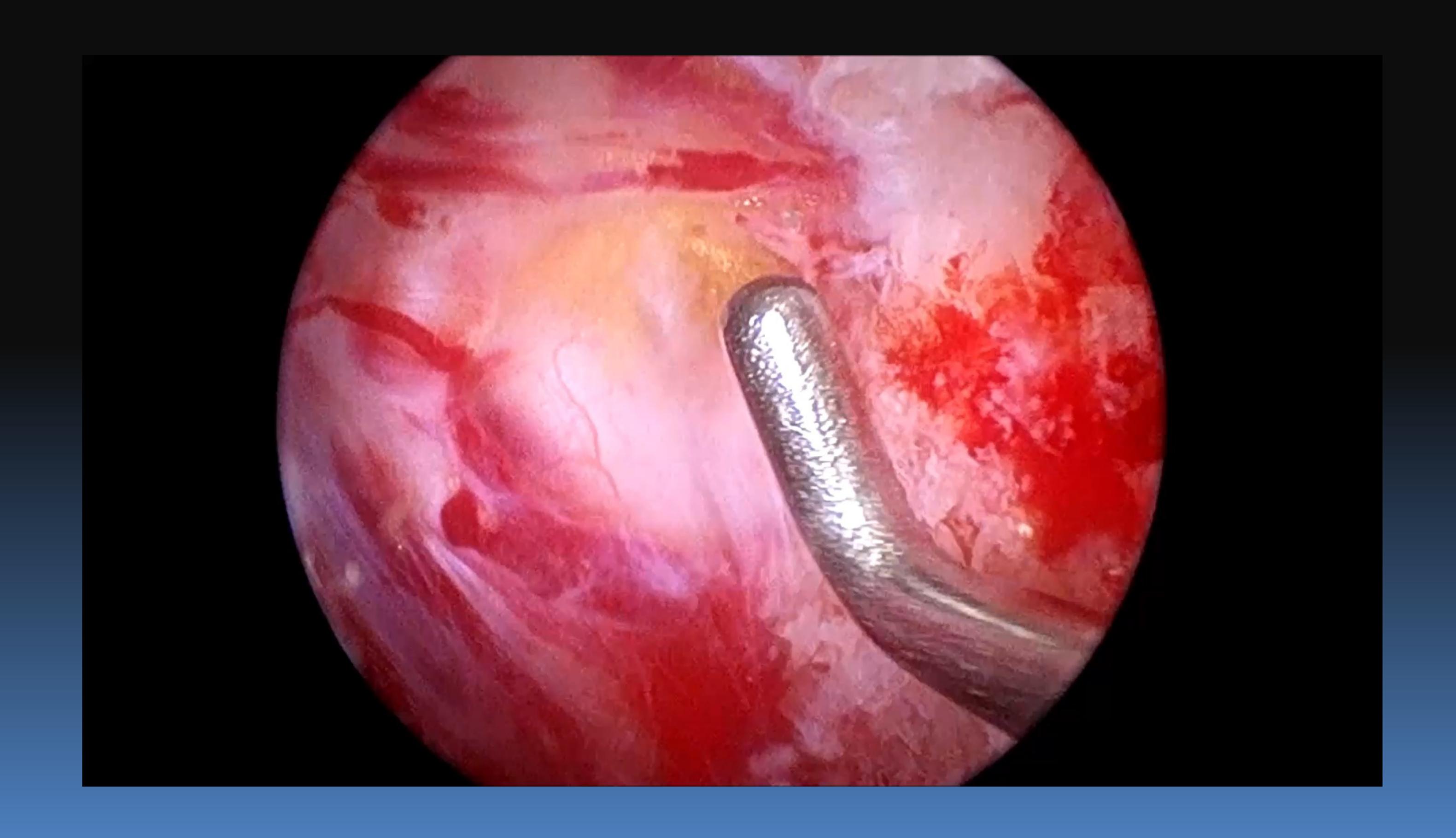
DTR: decreased

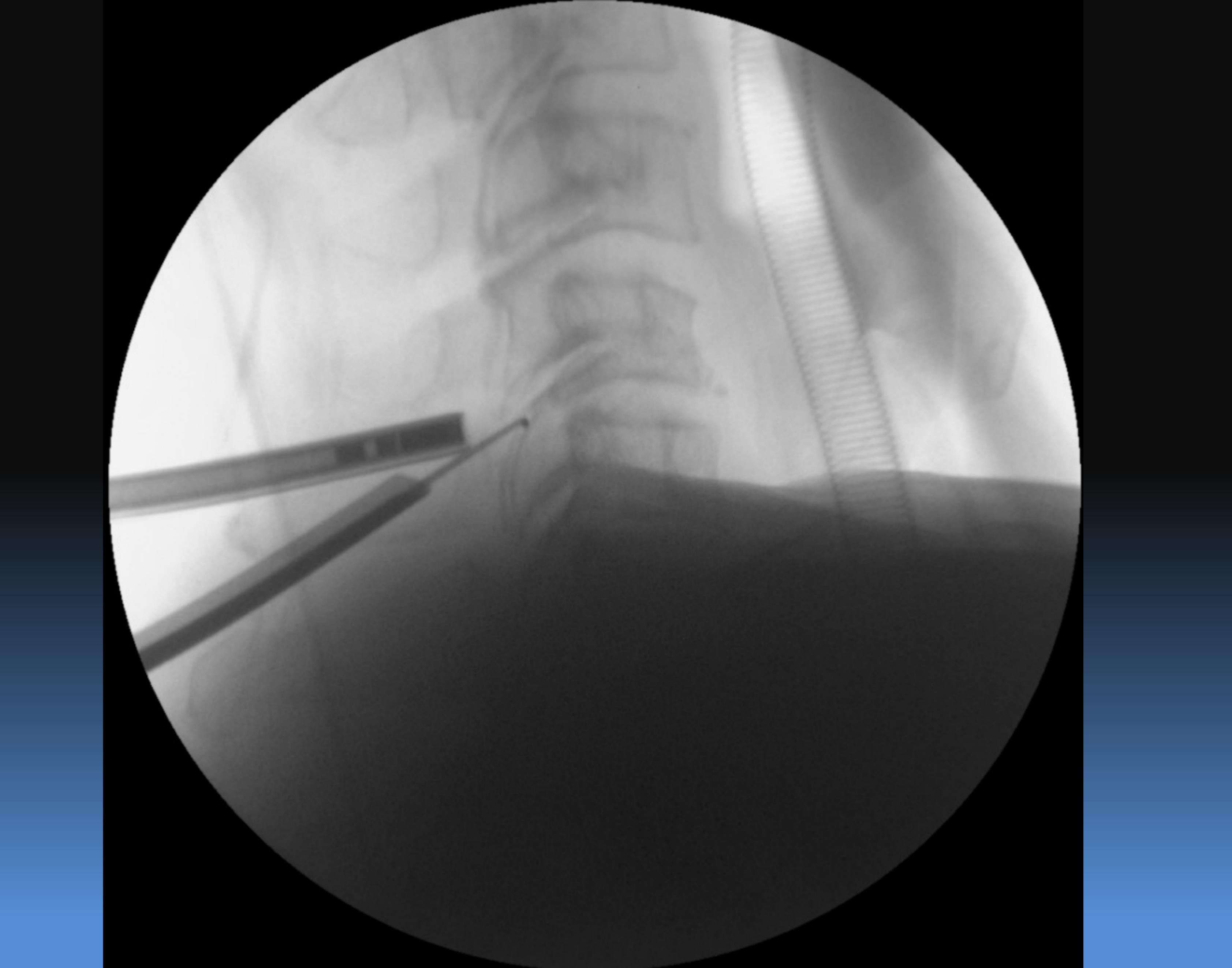
Spurling sign: Positive

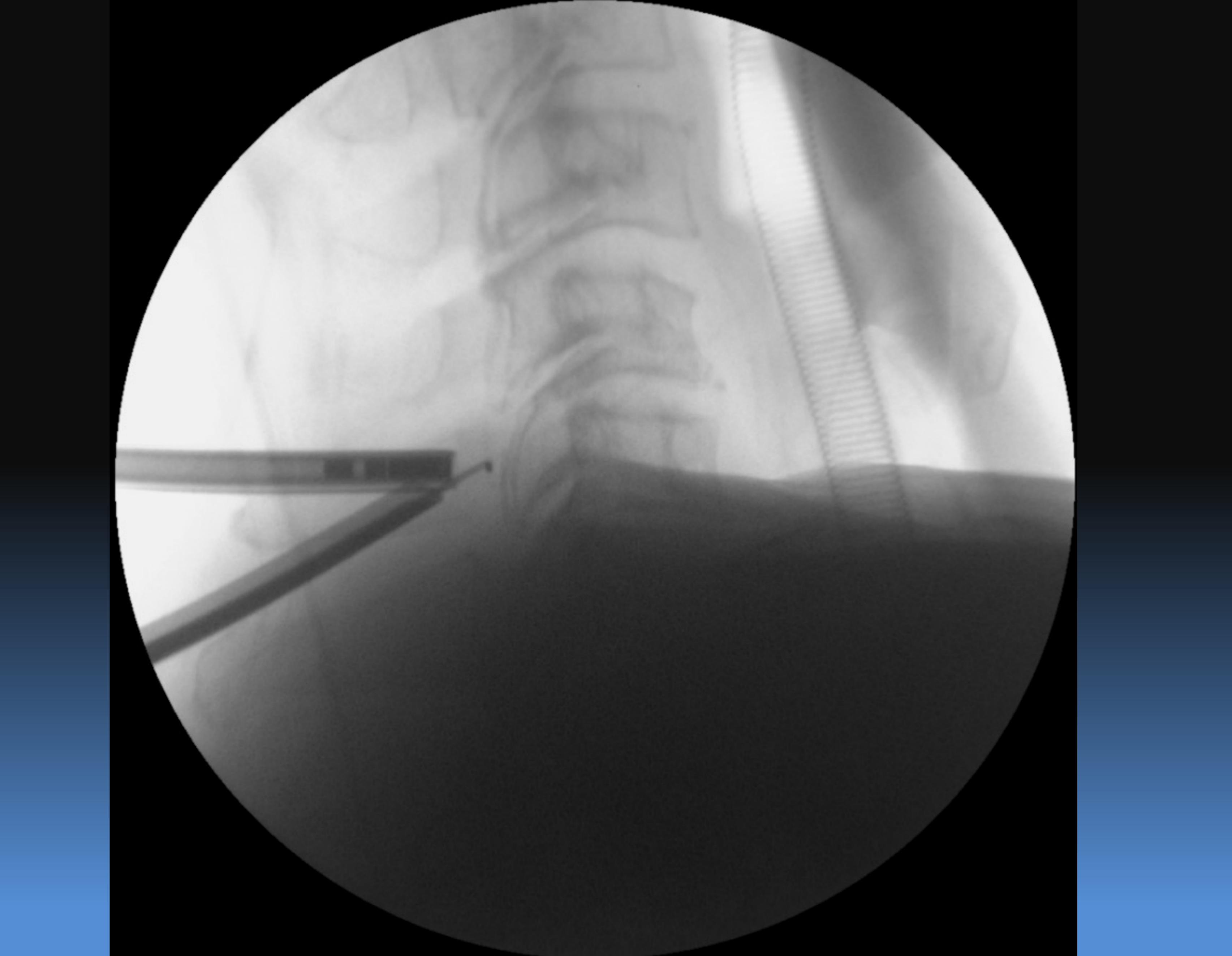
Hoffman sign: Negative

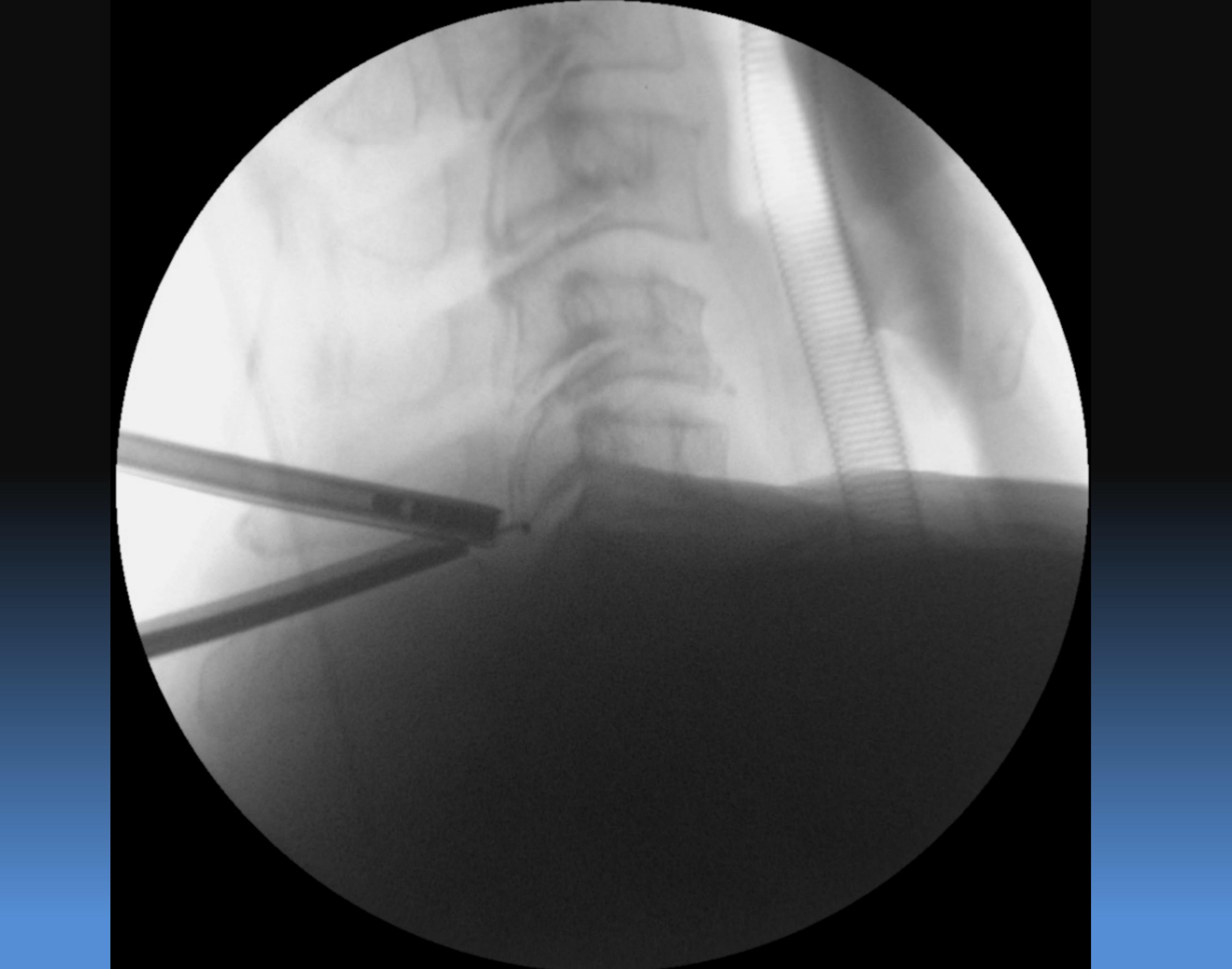
1. Case presentation

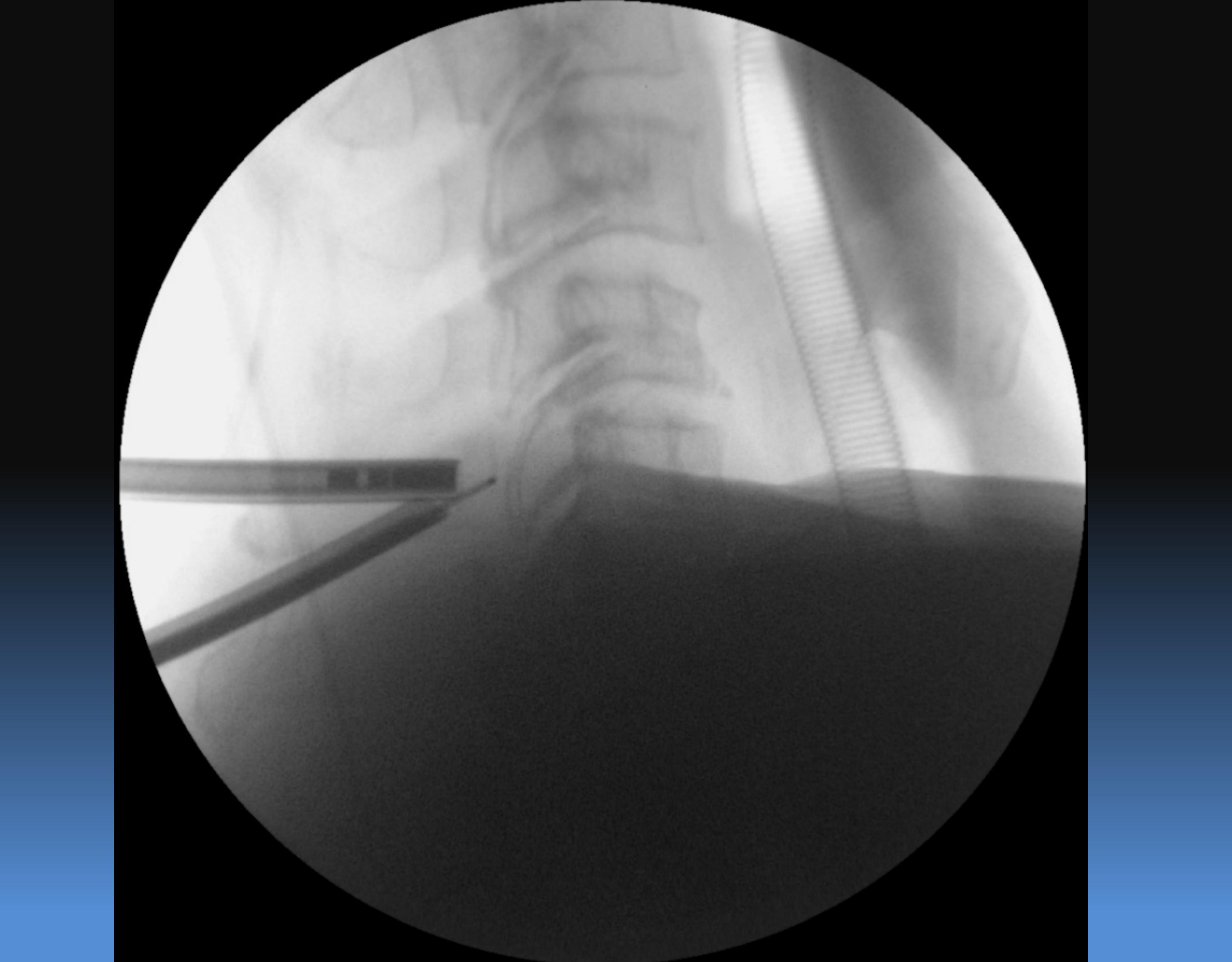
### Sliding technique: Two levels decompression by single approach

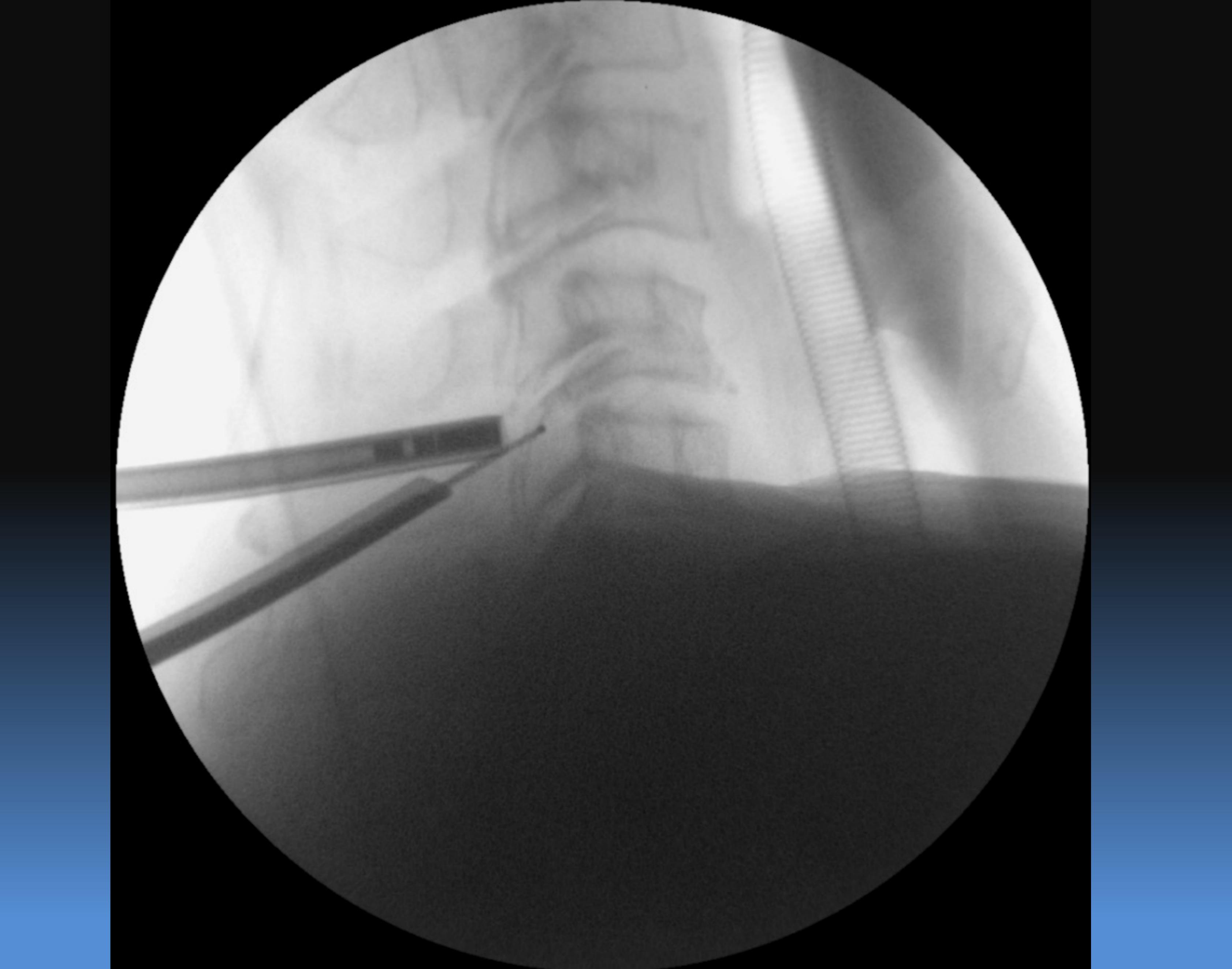




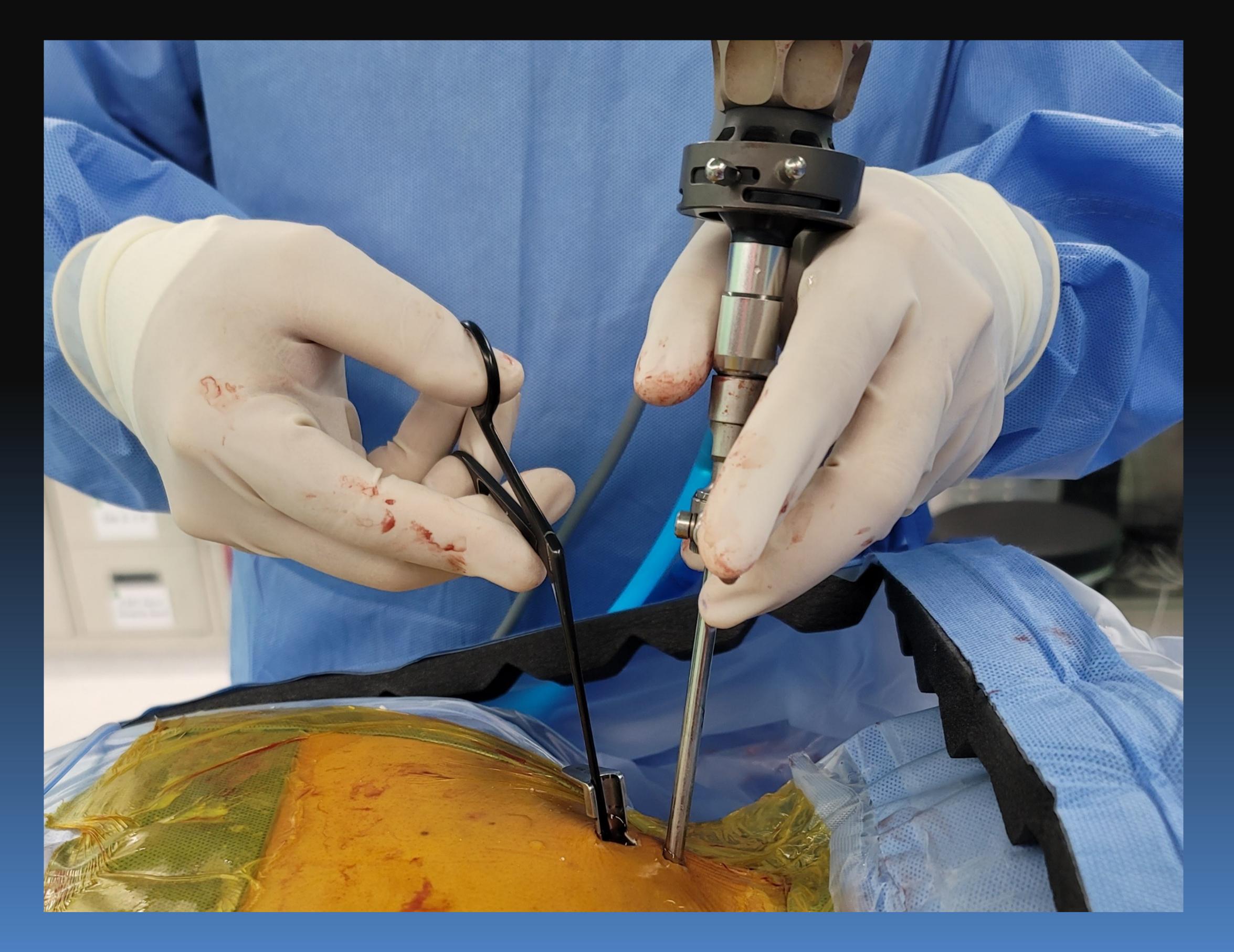








#### Skin wound







# 

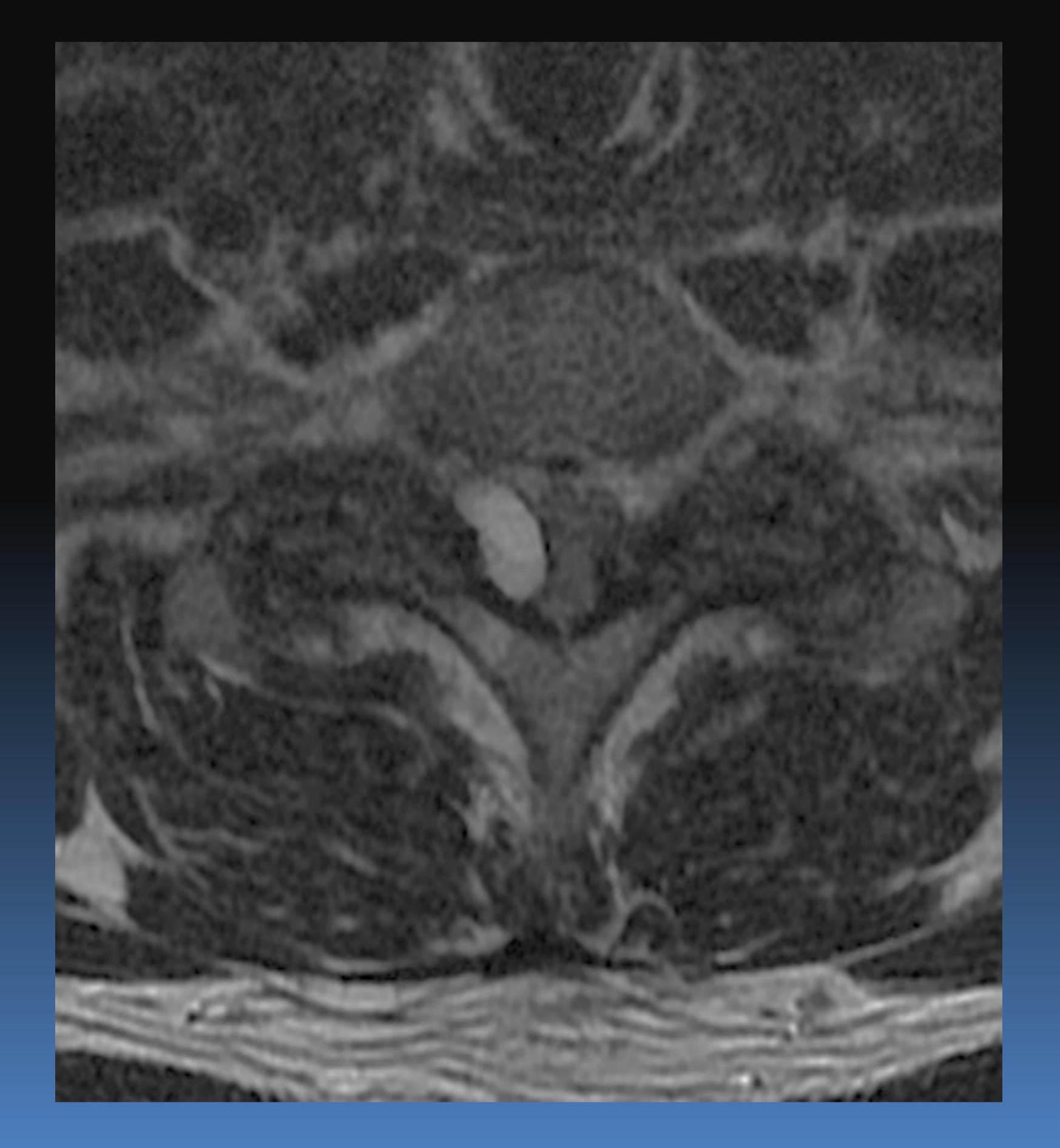
- Bilateral hands grasp power weakness
- Bilateral hands tingling

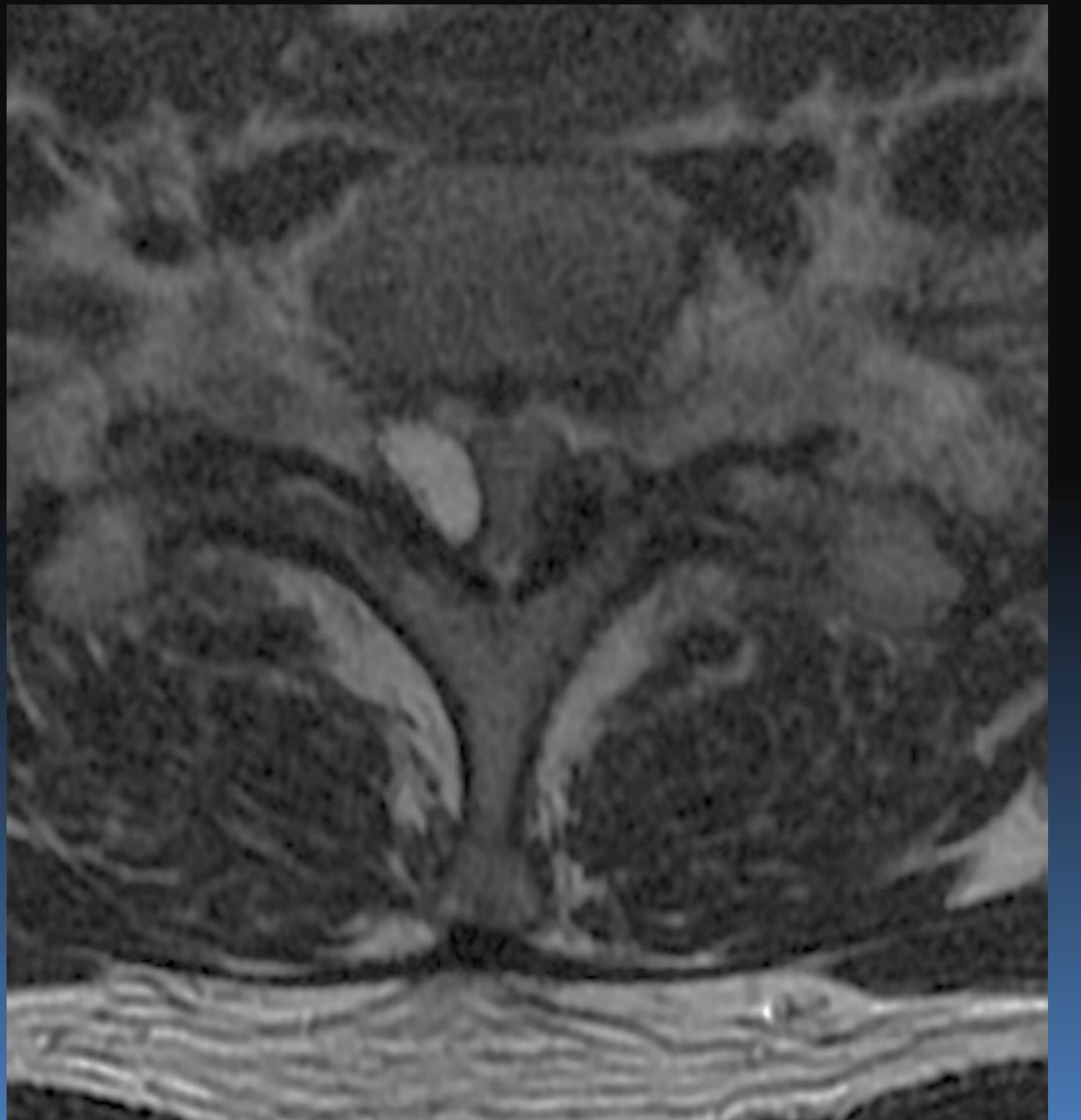
• Hoffman sign +

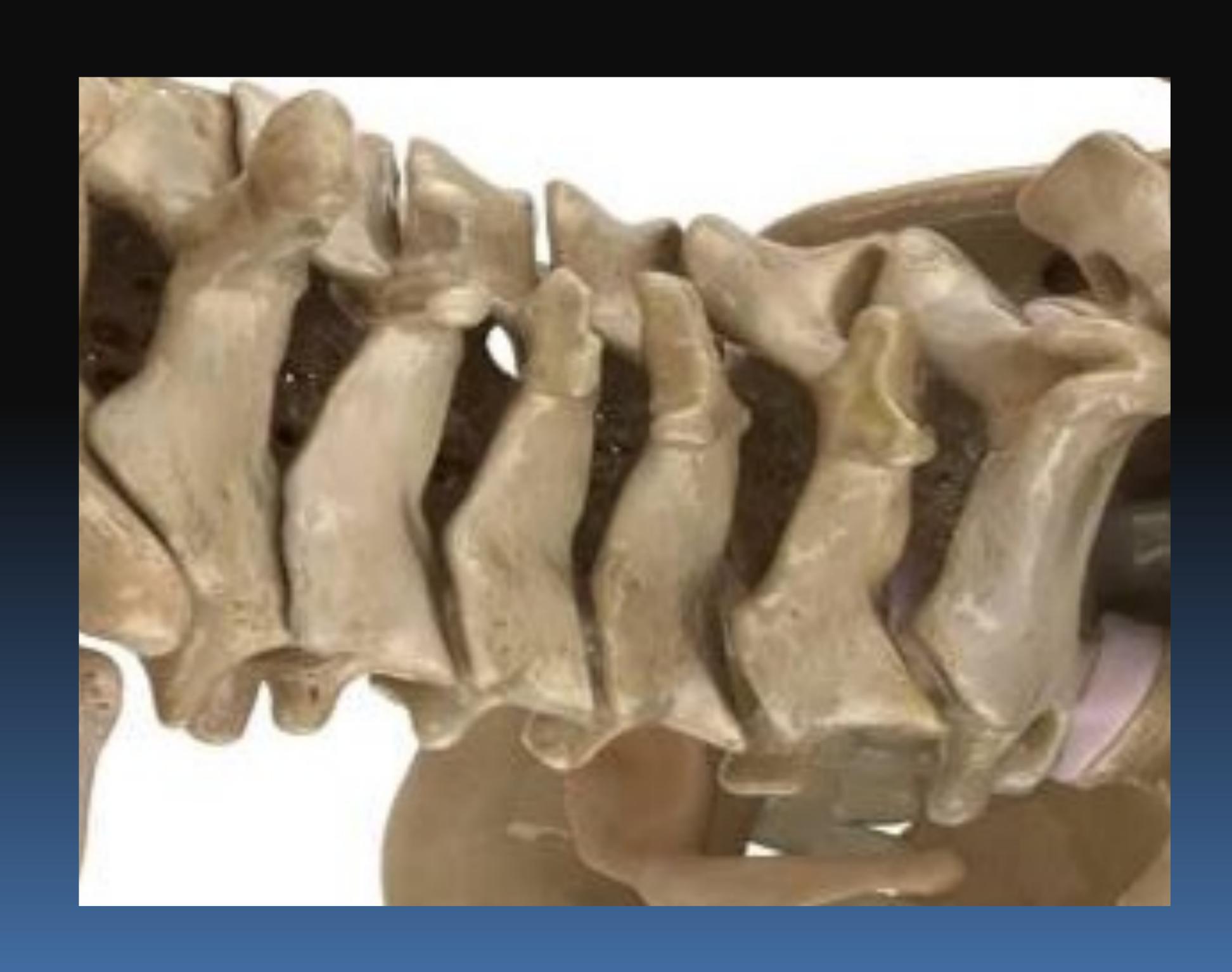












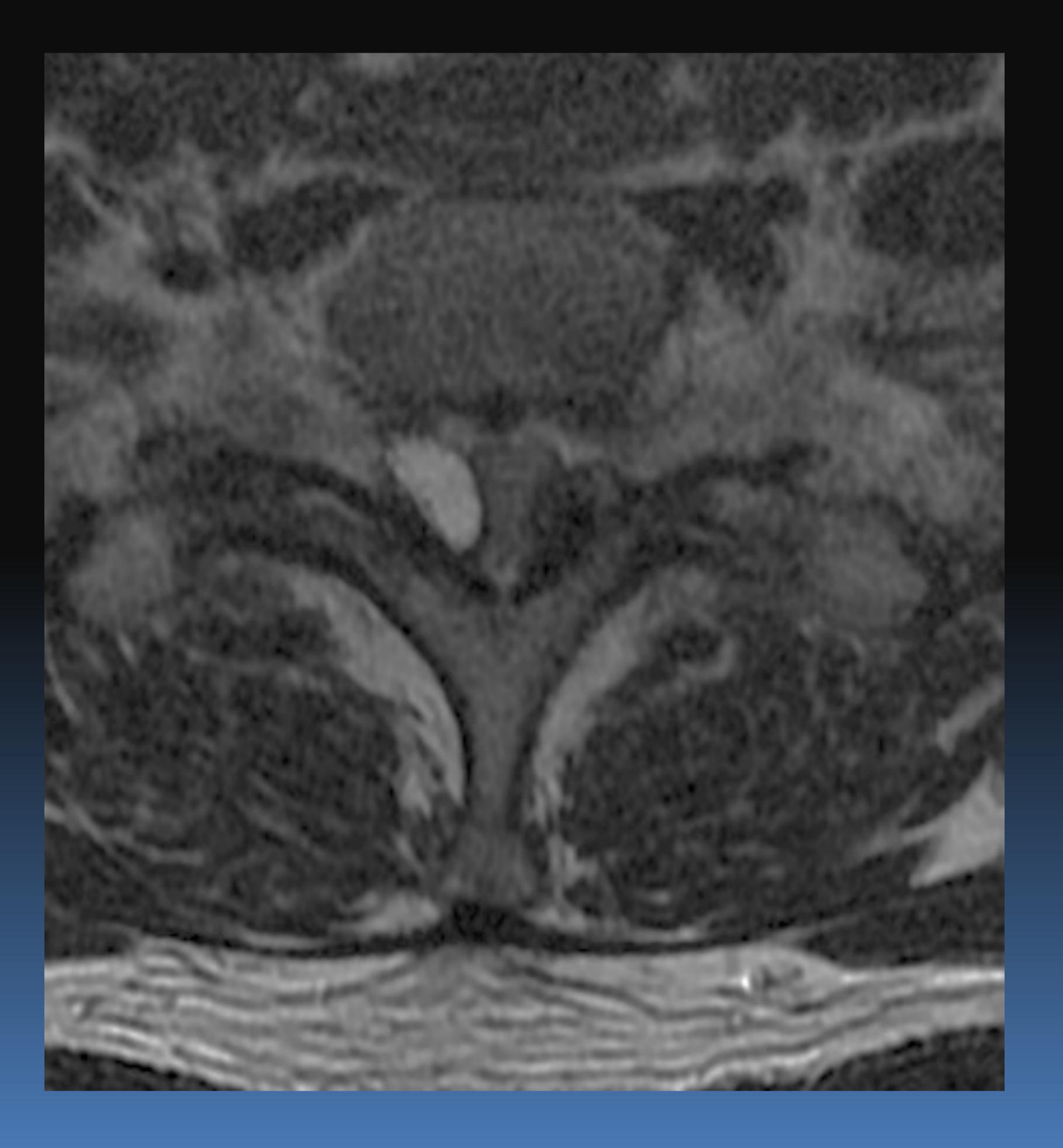


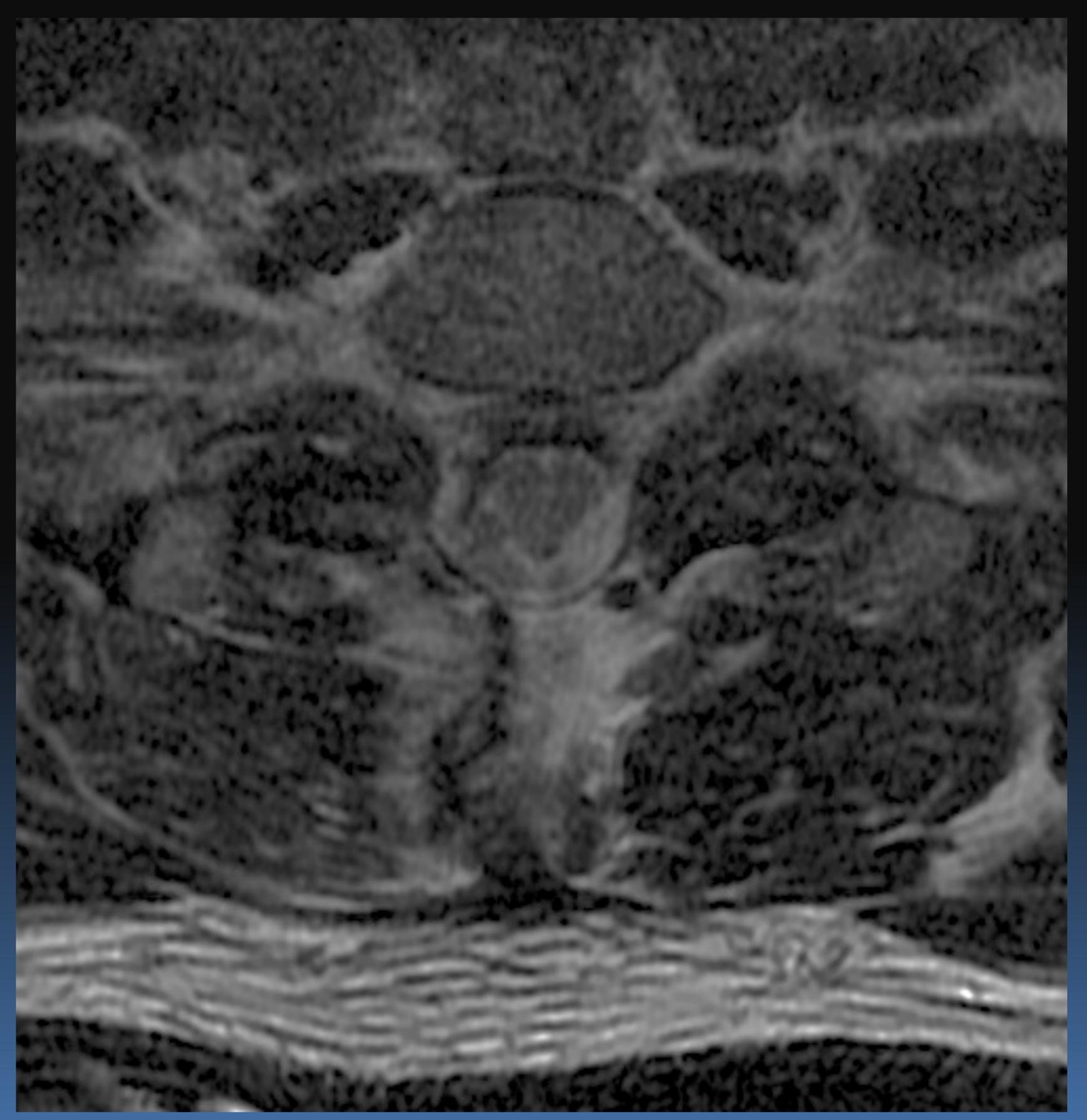


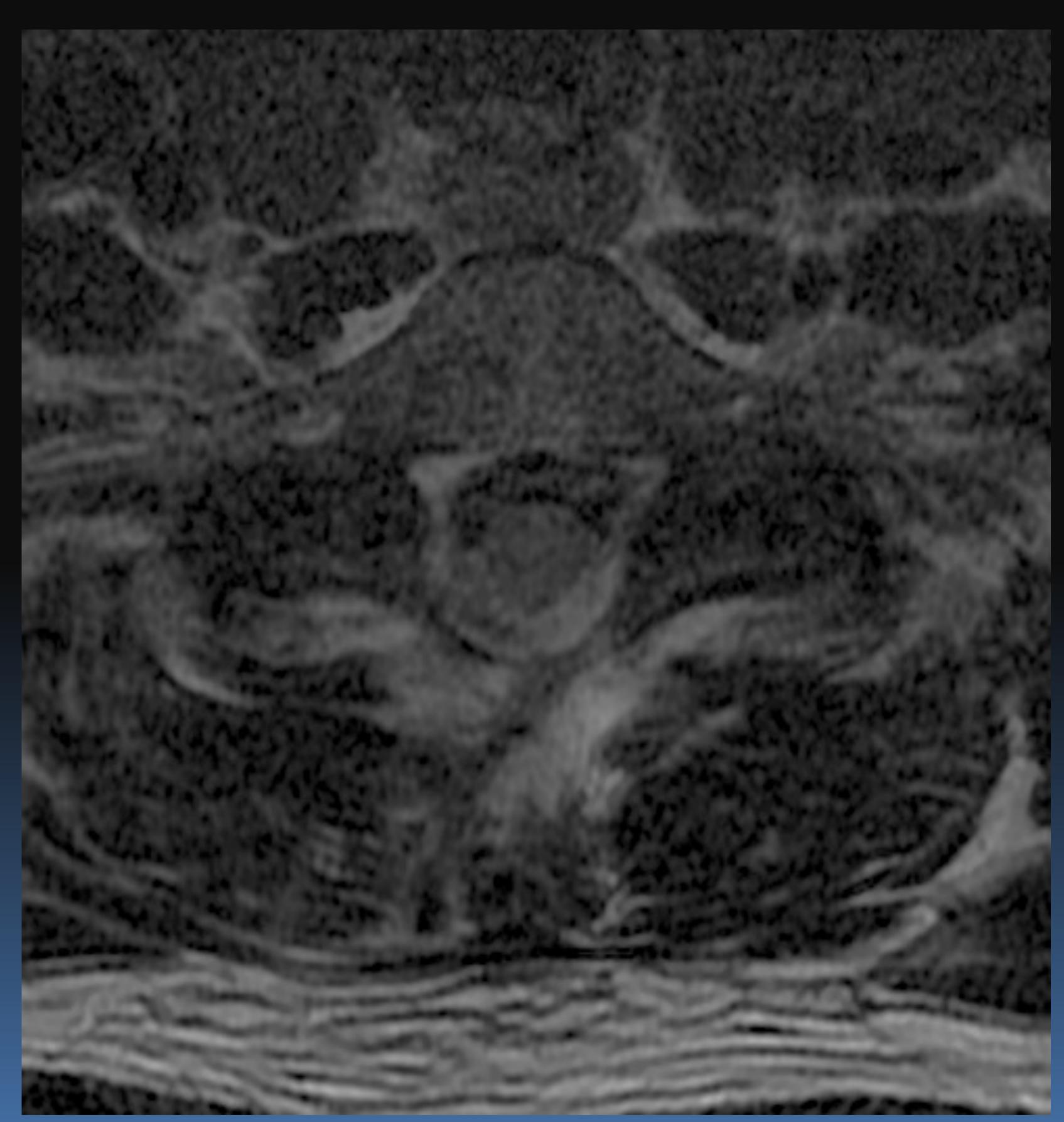
Preoperative MRI



Post-operative MRI







Preoperative MRI

Post-operative MRI

### Summary

- The surgical endoscopic view of the biportal endoscopic technique is similar to <u>that of Microsurgery</u>
- Experiences of microsurgery and endoscopic surgery
- Irrigation fluid pressure and drainage
- Favorable outcome







10 times visit
70 Taiwan spine doctors

