

# minimally invasive surgical options for spinal problems



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# Dr. Sharma's Approach

- Start with the most conservative treatment available and indicated
- When surgery needed, use the least invasive form of approach available
- Neurosurgeons and Orthopedic spine surgeons frequently work together to achieve the best possible outcome for the patient



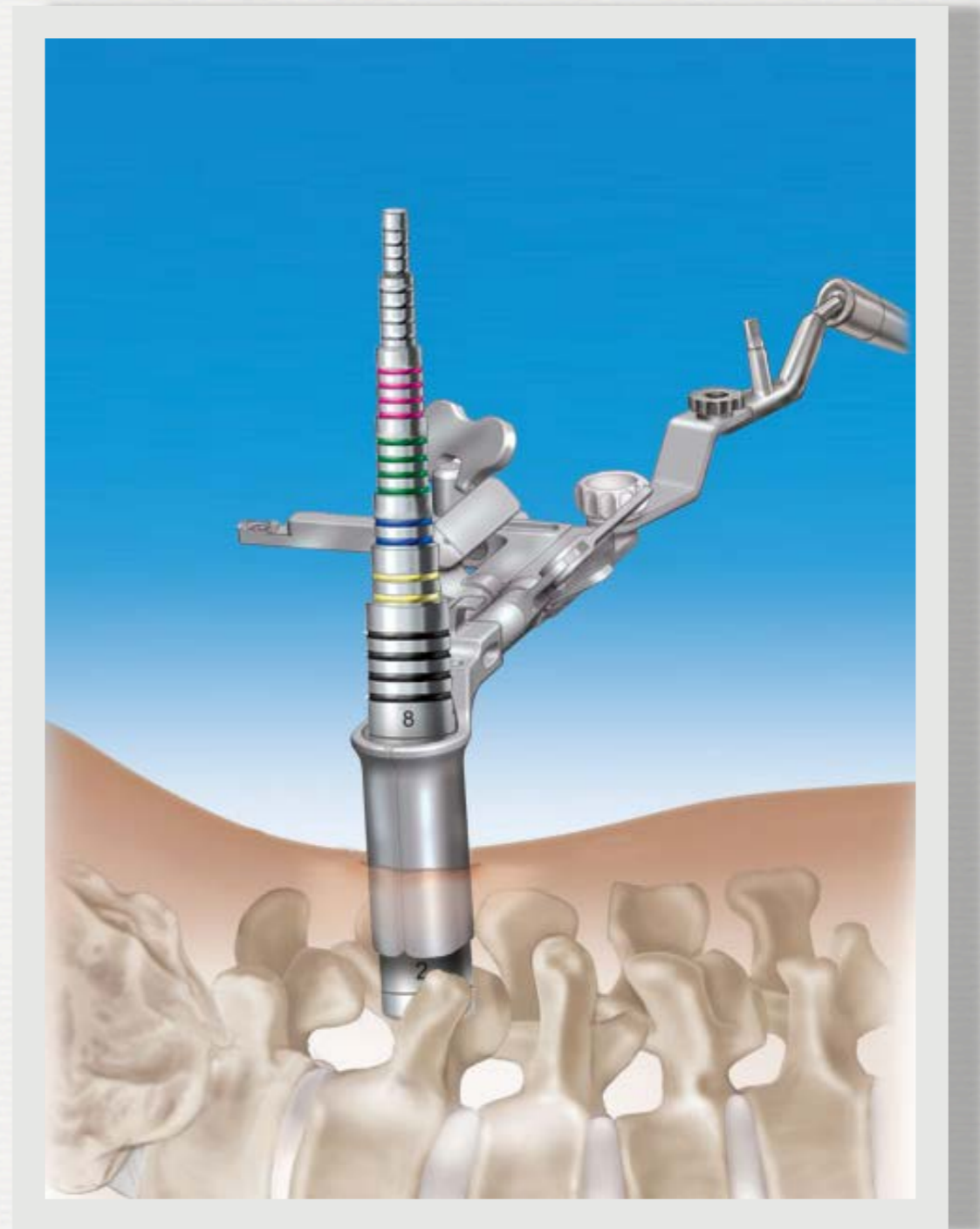
# Spinal Surgery

- Usually reserved as a last option
- Indicated when the pain from a spinal problem becomes intolerable or extreme
- Indicated when the ability to control bowels or bladder or muscles is compromised



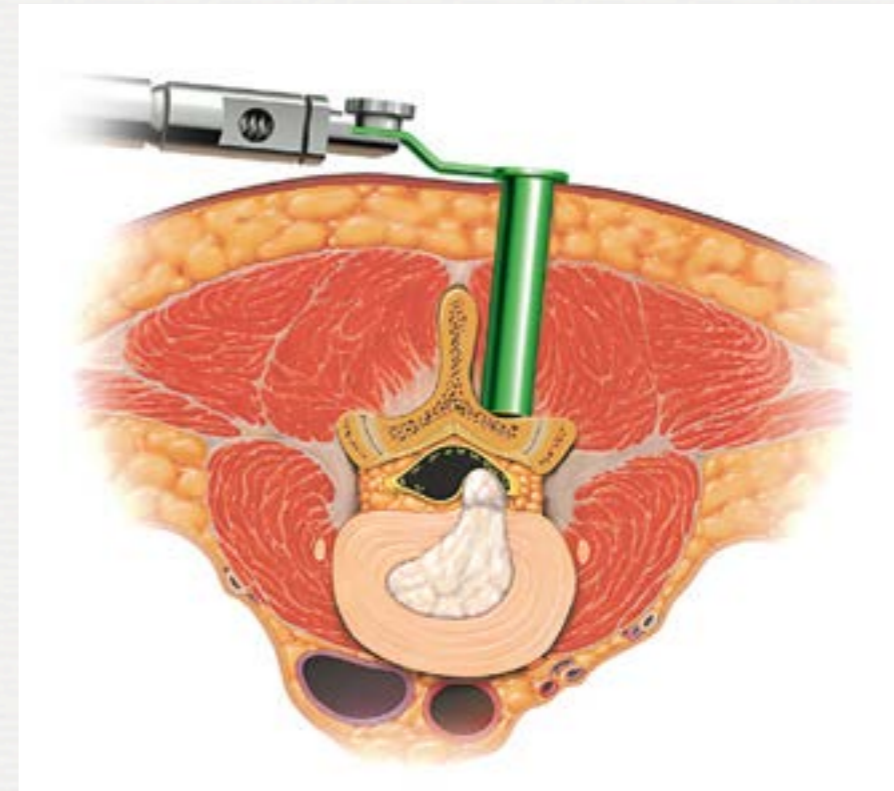
# Minimally invasive spine surgery (MISS)

- The field in which conventional spine operations are performed via small incisions, with the least amount of tissue trauma, to achieve a particular surgical goal of shorter recovery times and equal or less morbidity





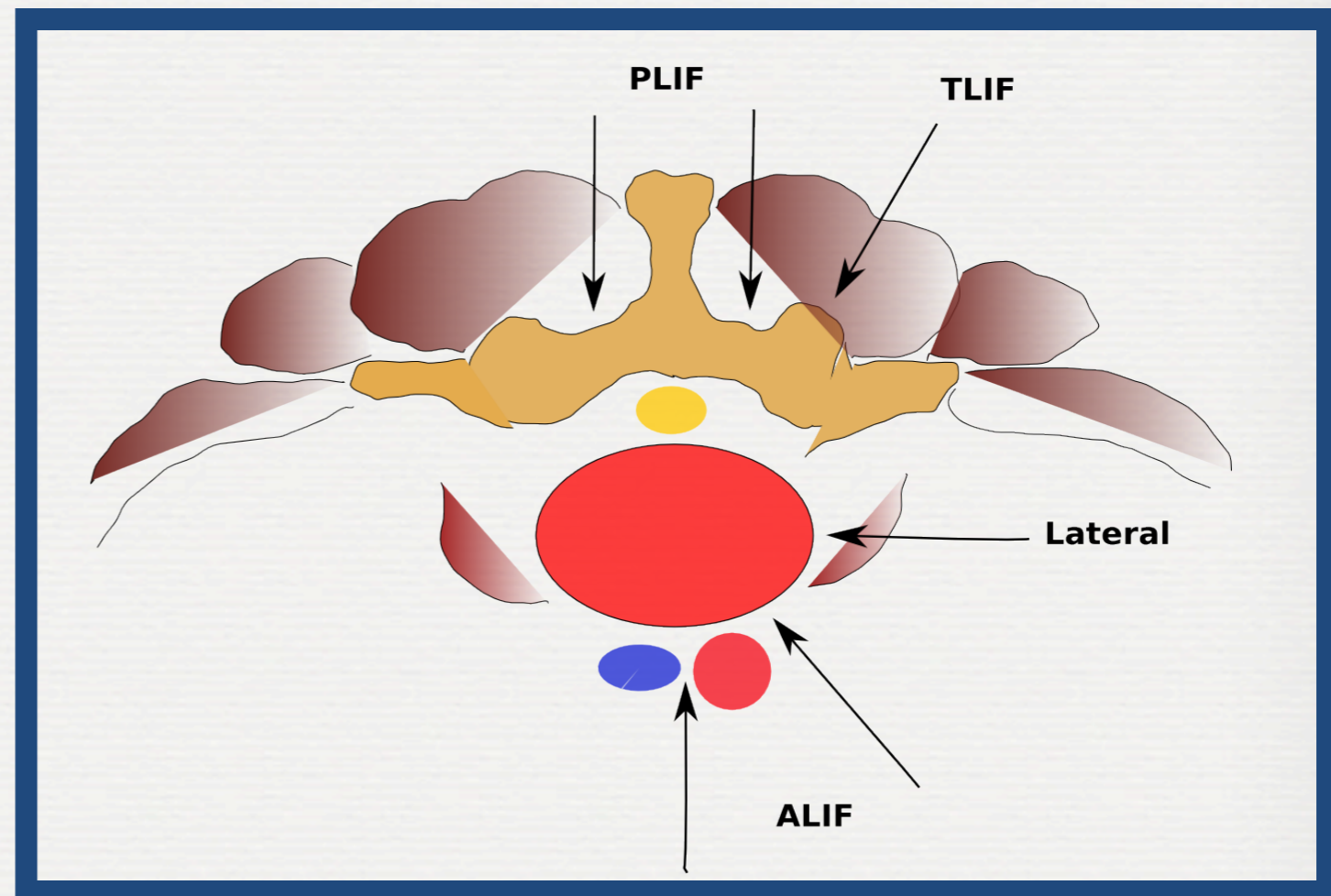
# microdiscectomy



- Shaving a bulging disc or removing a herniated disc

# Minimally invasive lumbar fusion

- A word on spinal fusion in general
- Indications
- Cautions
- Approaches



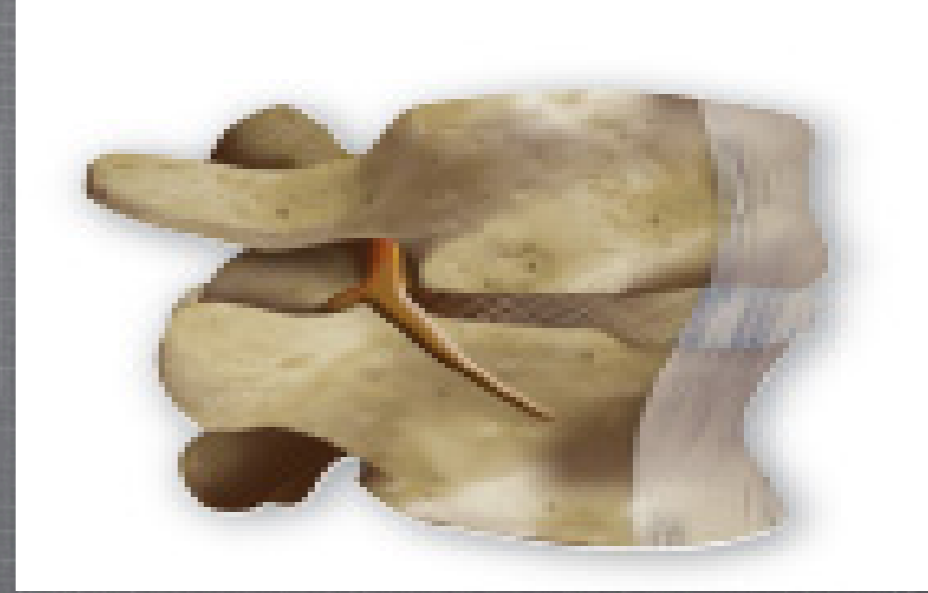
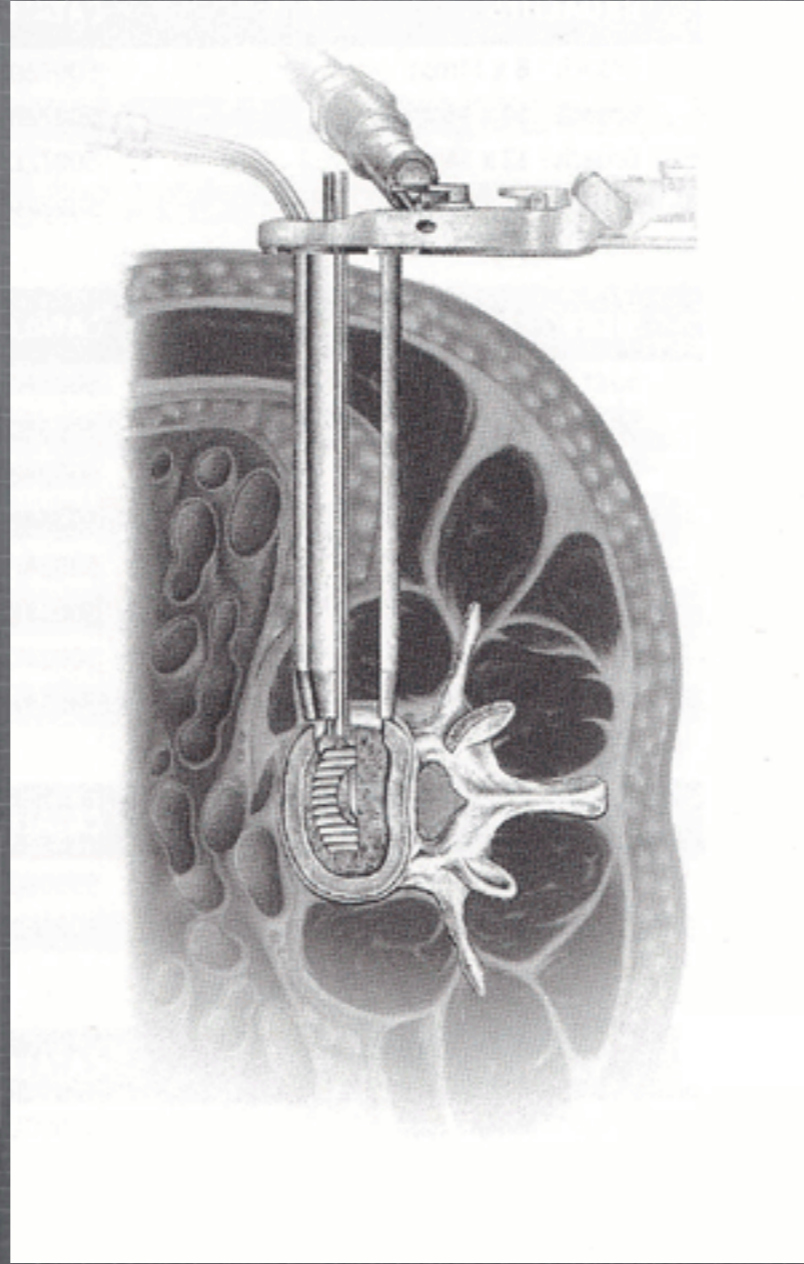
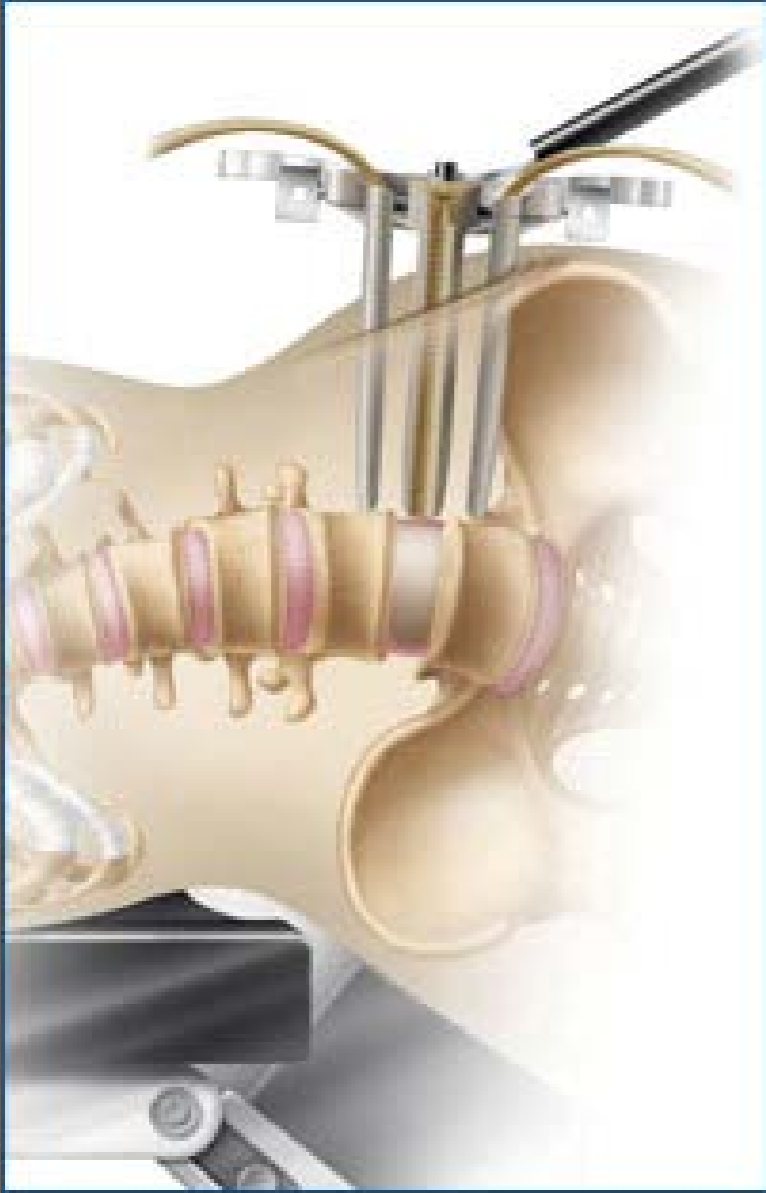


# lateral interbody fusion

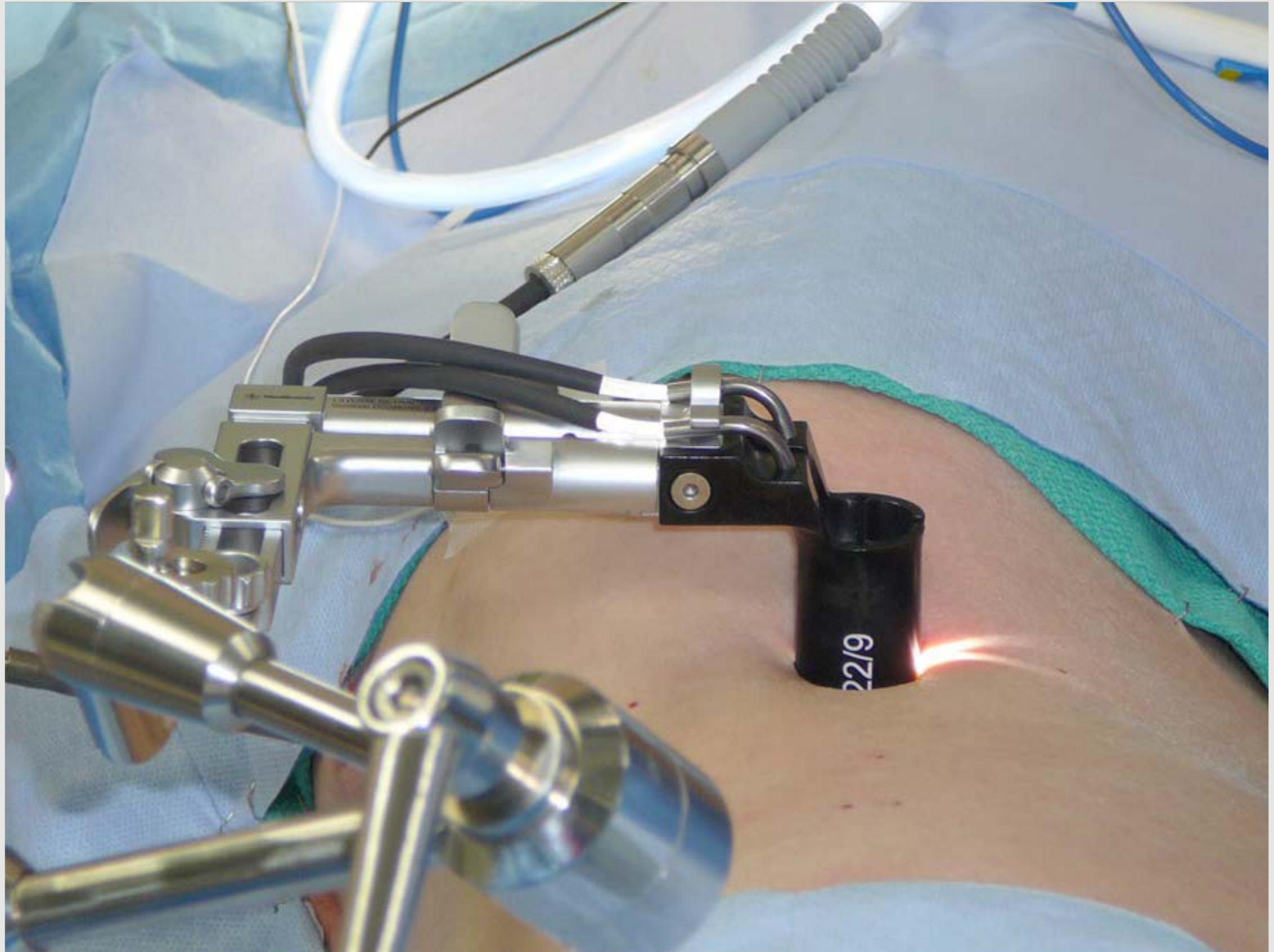
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are needed to see this picture.





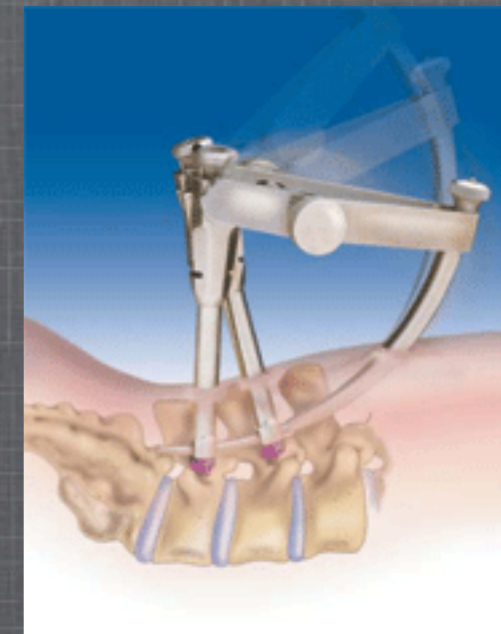






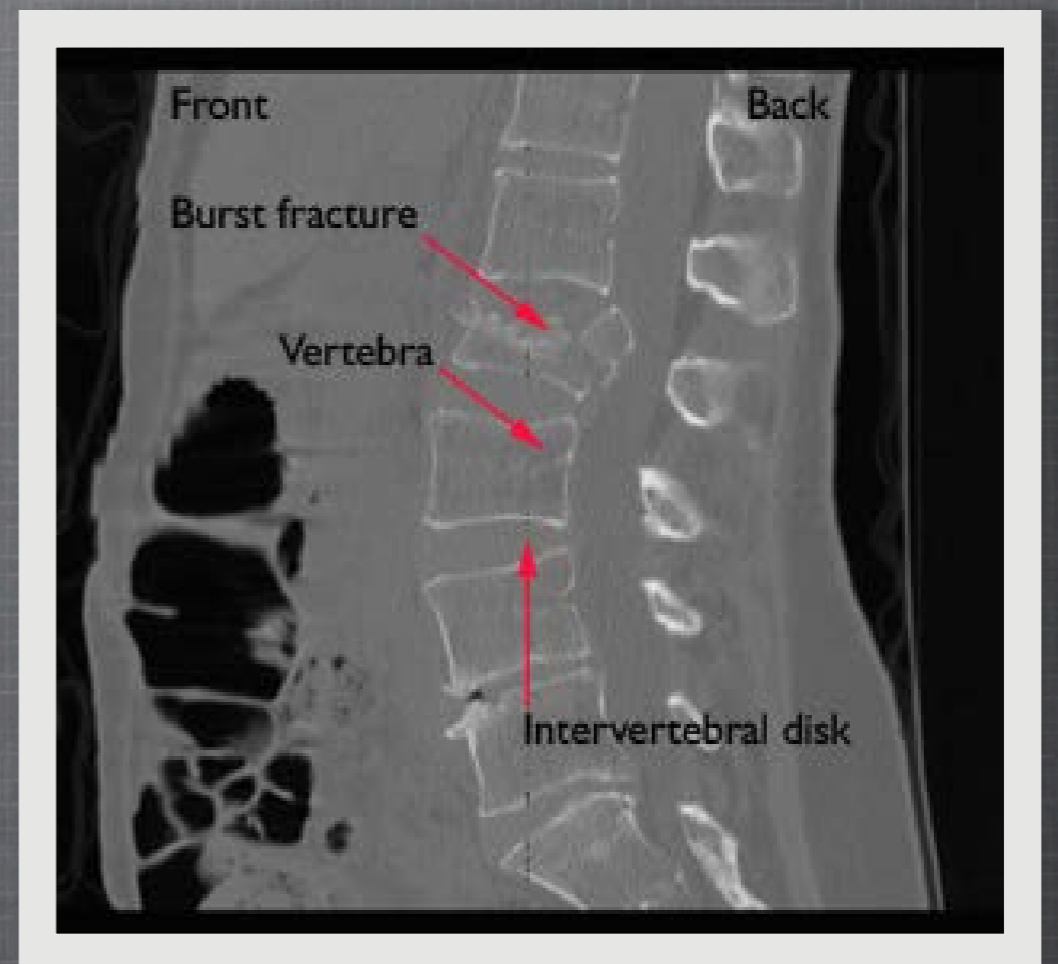


# MIS Posterior Lumbar Interbody Fusion

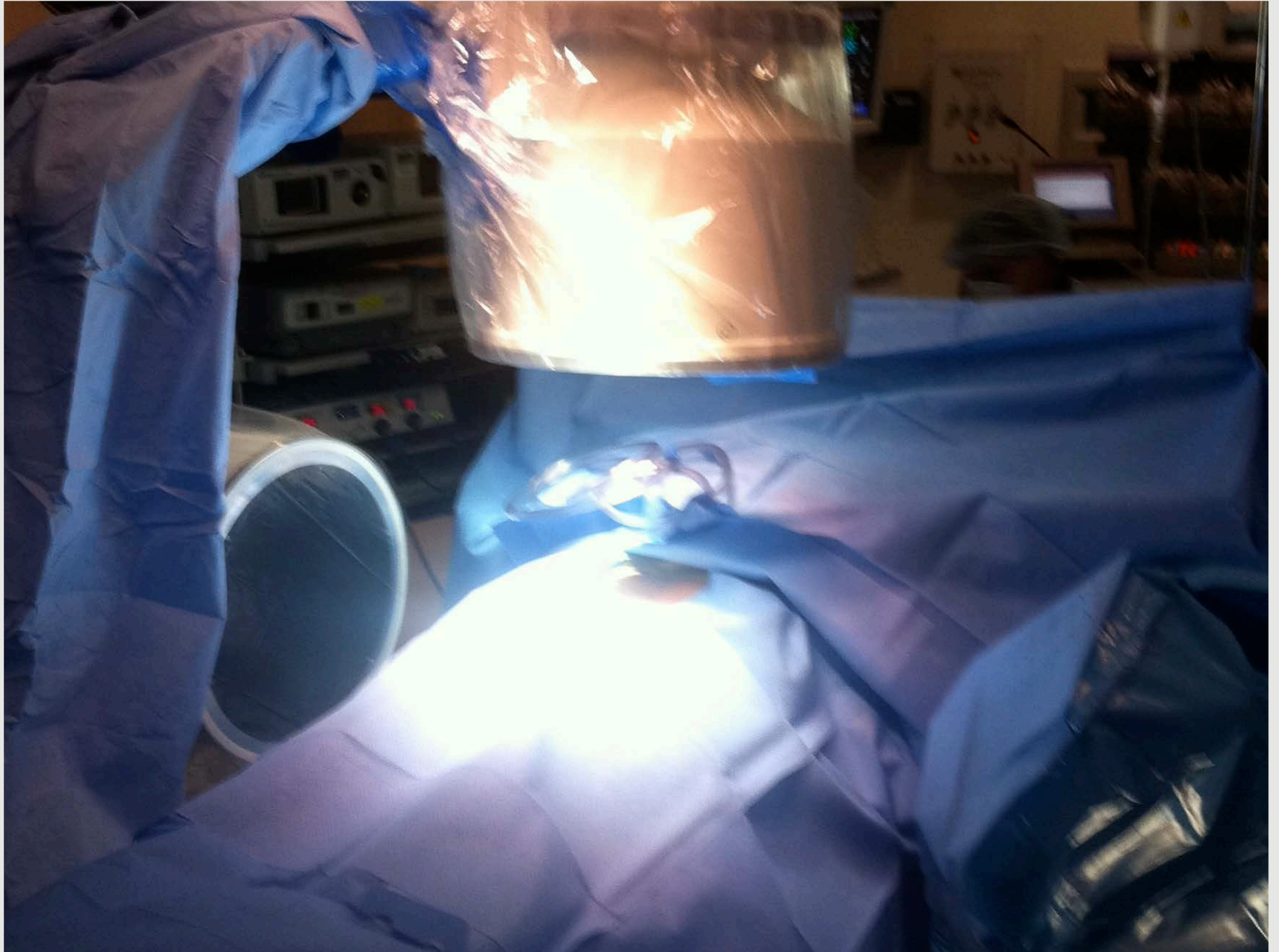




# Minimally invasive surgery for fractures









# TECHNIQUE

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# TECHNIQUE

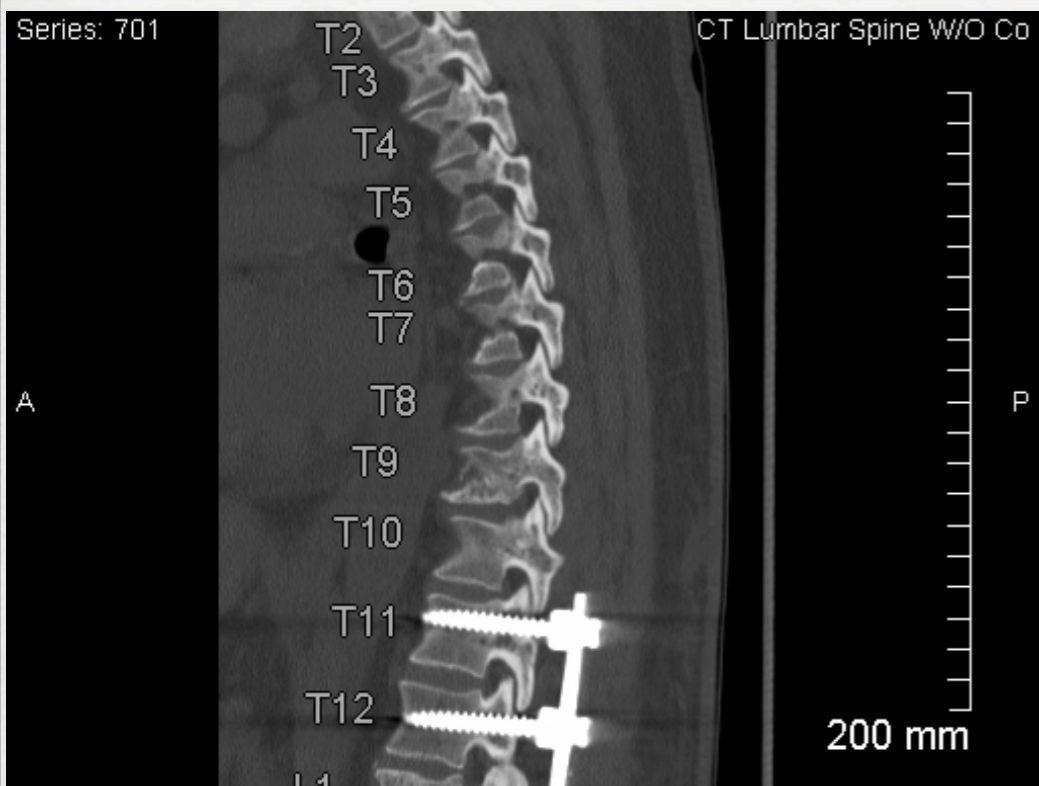
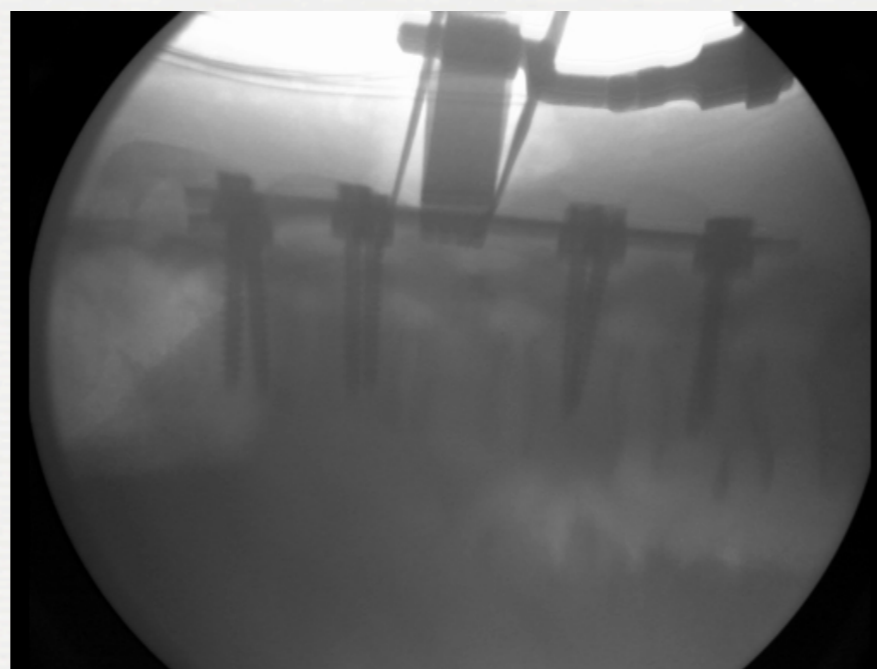
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**Thank you!**

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