

47-year-old female presenting to ED
with 1 month of worsening neck pain.

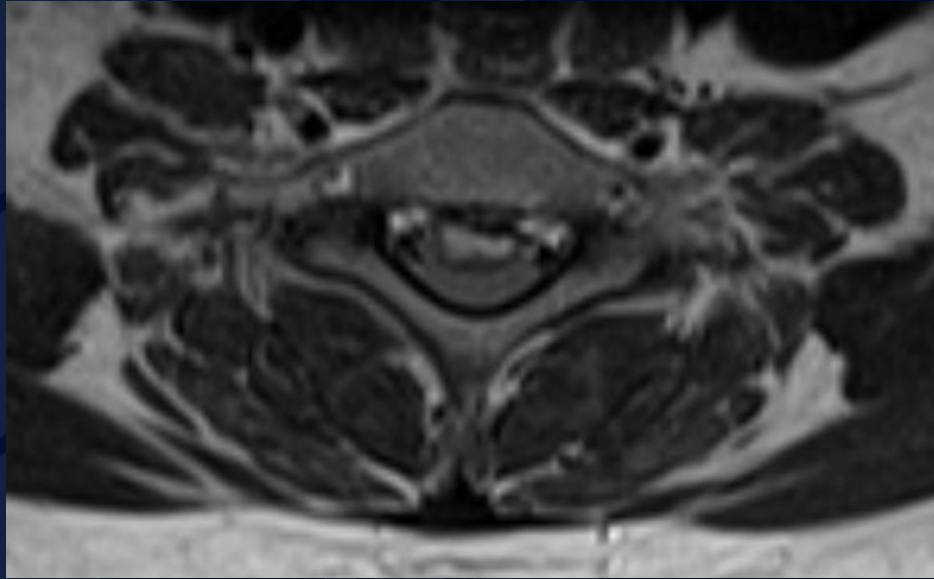
Shashank Patil, MD
Gary X. Gong, MD PhD



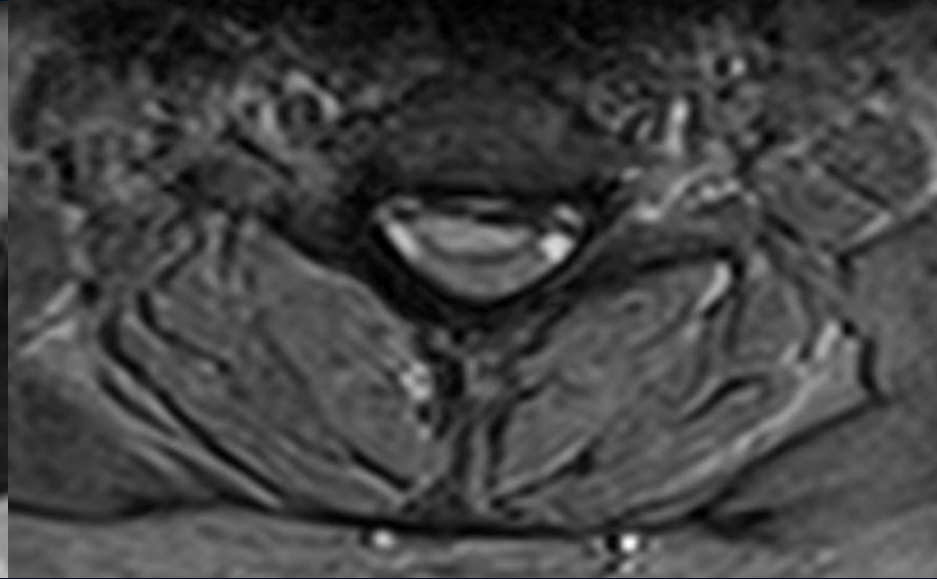
STIR + T2 Sagittal MRI Pre-contrast



T1 Pre/Post-Contrast Sagittal MRI C-spine



Axial T2 MRI C-spine



Axial GRE C-spine



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C6-C7 Posterior Disc Herniation with associated Ventral Epidural Hematoma

Heterogeneous T2 hyperintense fusiform extradural material present immediately posterior to the herniated C6-C7 intervertebral disc.

Exerts mass effect on the dura and cervical cord.

Of note, there is no significant cord edema at this site.



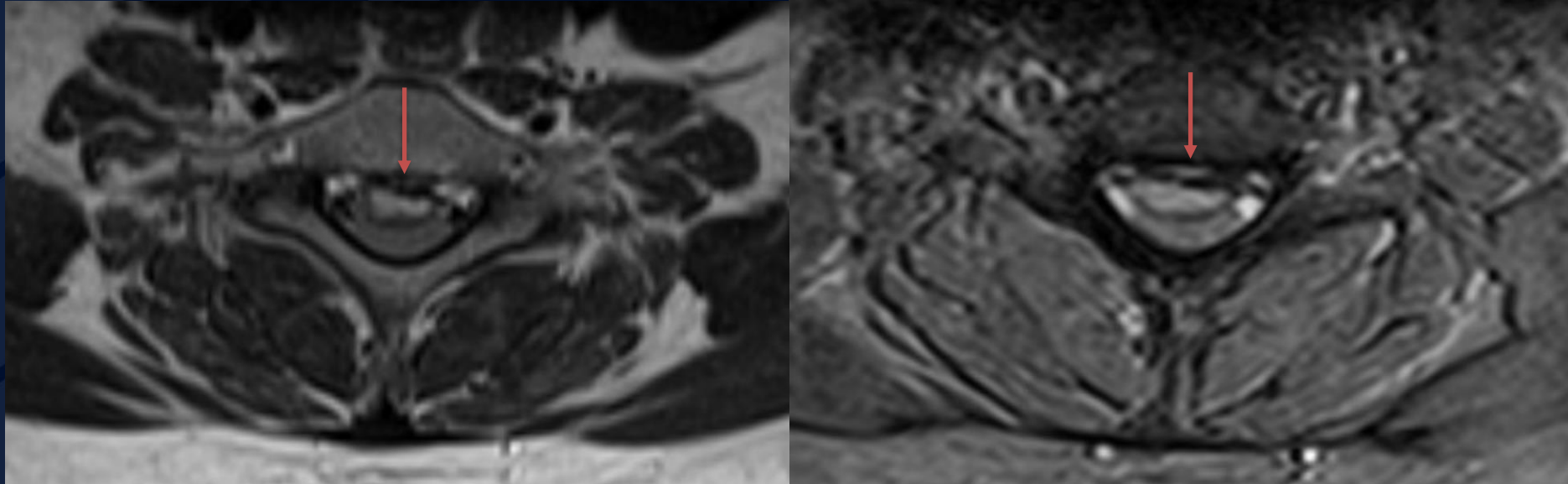
STIR + T2 Sagittal MRI Pre-contrast



T1 isointense material contiguous with C6-C7 intervertebral disc abutting ventral aspect of cervical spinal cord with intervening area of peripheral hyperintensity.

T1 Pre/Post-Contrast Sagittal MRI C-spine

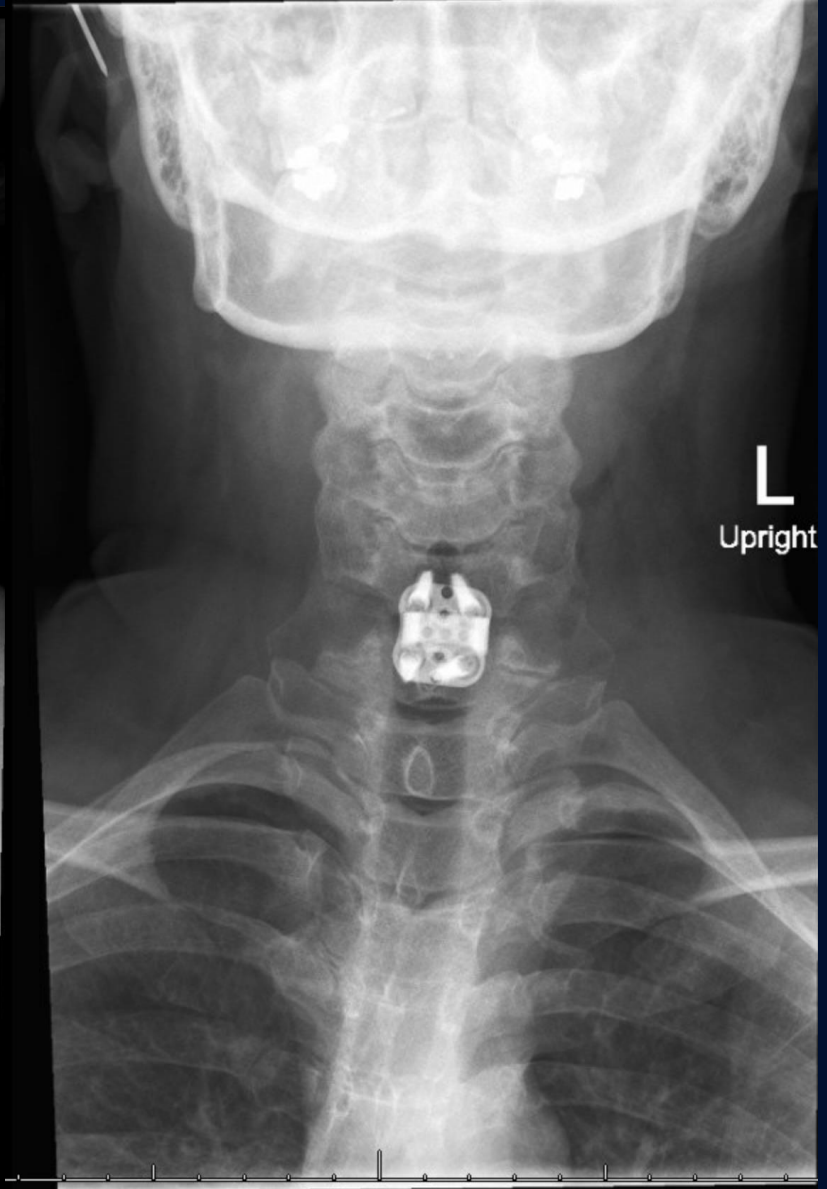
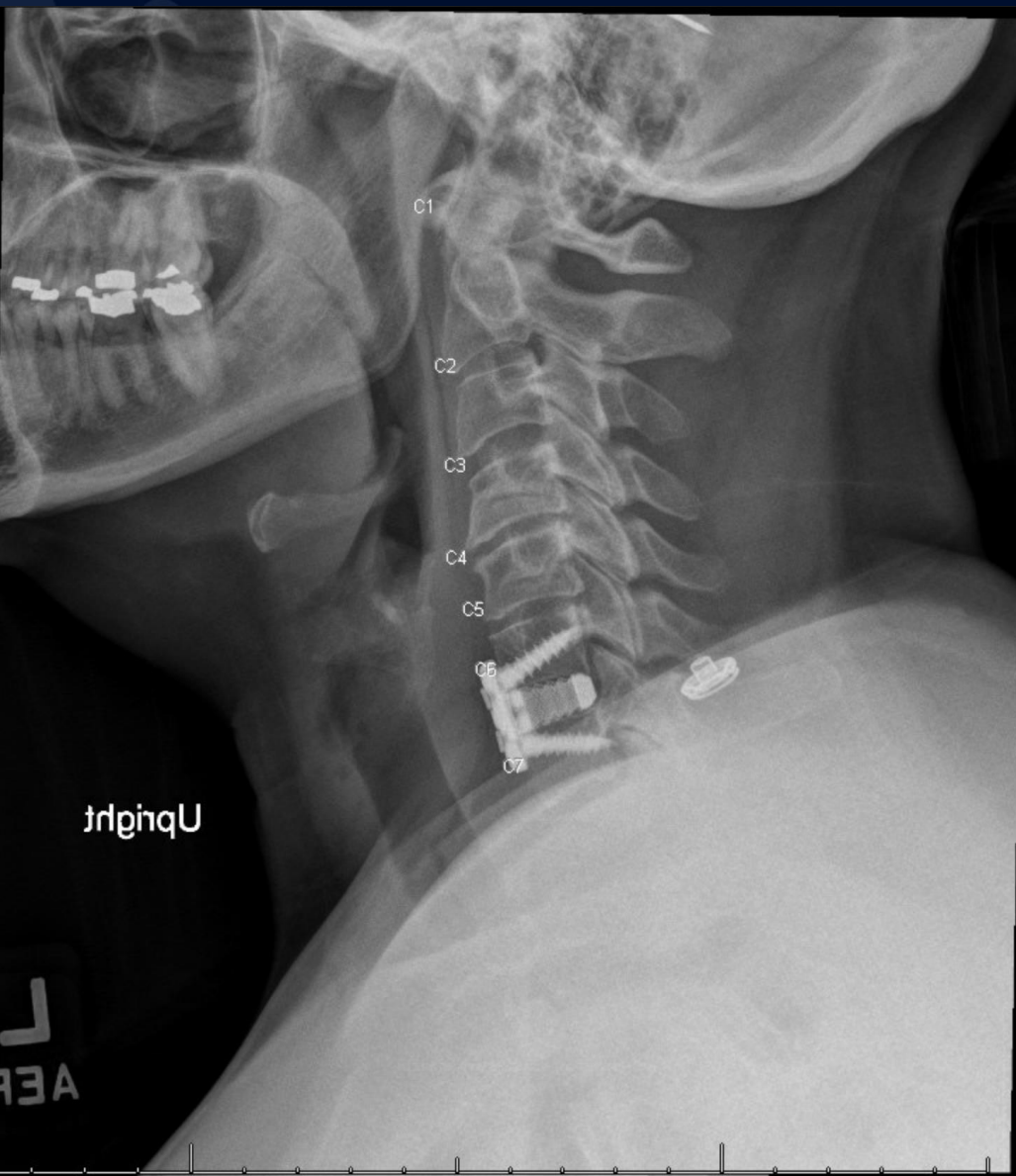
Axial T2 MRI + GRE C-spine



Heterogeneously T2 hyperintense fusiform extradural material is present immediately posterior to the herniated C6-C7 intervertebral disc. Material demonstrates somewhat prominent peripheral enhancement. No significant edema is present within this intervertebral disc. No paravertebral soft tissue edema is present at this level.

Cervical Posterior Disc Extrusion with Ventral EDH

- Spontaneous spinal epidural hematoma (SSEH) rare but serious neurosurgical condition necessitating a prompt treatment to avoid serious morbidity or mortality
- Incidence: 0.1 per 100,000 patients per year
- Presentation: neck or back pain with radiation to the extremities followed by rapid, progressive neurological deterioration secondary to spinal cord compression (if present)
- Pathophysiological mechanism: Secondary to herniated intervertebral disc has been hypothesized to involve tearing of the internal vertebral venous plexus
 - While disc herniation has been noted to mimic or cause epidural hematomas in the lumbar spine, few cases reported in cervical spine
- Management (this case): C6-C7 ACDF + resection of hemorrhagic capsule adhered to ventral dura at C6-7 level



POD1 Cervical Spine Lateral and AP X-rays

References

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