

## Case Review:

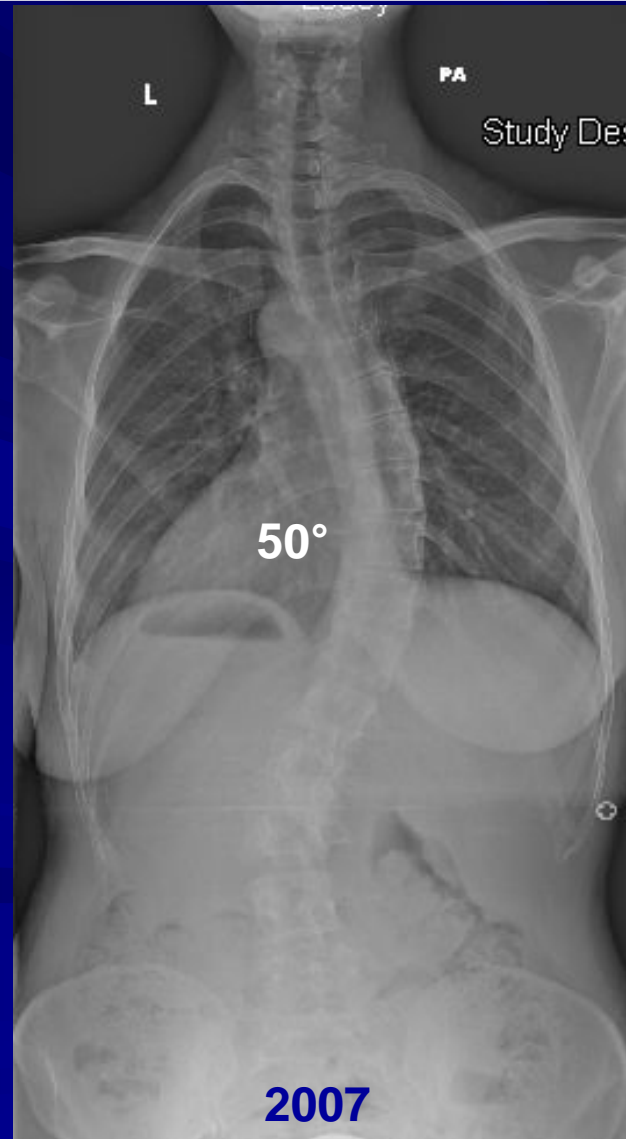
39 year old female  
presented with Progressive  
Adult Idiopathic Scoliosis

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# Patient History

- 39-year-old female presented with Progressive Adult Idiopathic Scoliosis.
- The patient was diagnosed with Adolescent Idiopathic Scoliosis as a teenager.
- She wore a brace 23 hours a day between ages 12 and 16 years old.
- The patient reports that the curve has progressed and she has lost height.
- She has low back thoracolumbar pain.
- No radiculopathy or lower extremity symptoms.
- On physical examination, she has a right elevation rib hump and left flank fullness. She has an increased lumbar-thoracic kyphosis.
- Motor and sensory examinations are intact.
- The patient has significant rotation low back pain and failed conservative therapy.

# Pre-op X-rays



# Bending X-rays



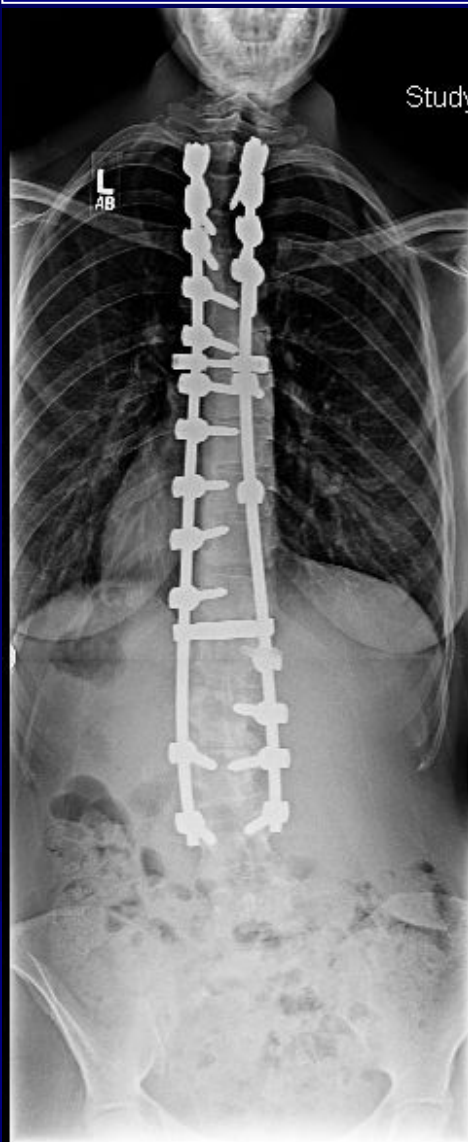
# Indications for Surgery

- 51° progressive Adult Idiopathic Scoliosis.
- Kim SRP type 1 curve.
- Severe degenerative disk disease at L1-2, L2-3 in the compensatory lumbar curve.
- Low back and leg pain due to the above diagnosis.
- Failed conservative therapy.
- Significant rigidity with thoracolumbar kyphosis.

# Surgical Strategy

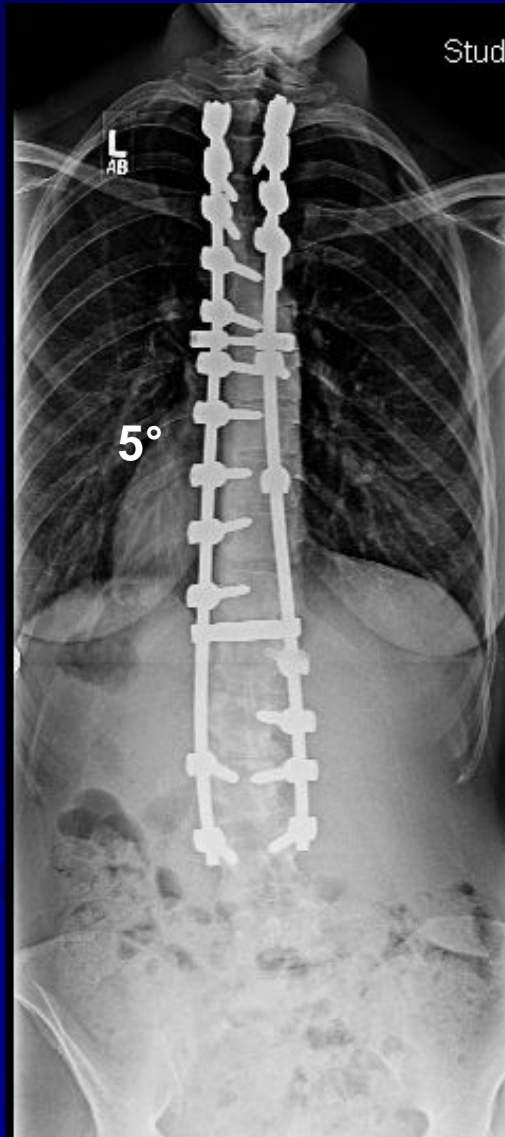
1. Segmental spinal instrumentation thoracic 3 to lumbar 4 using Legacy 1/4-inch stainless steel pedicle screw rod construct.
2. Multiple level spinal osteotomy thoracic 5 to lumbar 2 with bilateral Smith-Peterson radical facetectomy, 7 level osteotomy.
3. Posterior instrumented fusion thoracic 3 to lumbar 4 using locally harvested autogenous bone and rhBMP.
4. Interlaminar laminotomy, mesial facetectomy, lateral recess release under loupe magnification and high intensity illumination at L1-2, L2-3, L3-4 and T12-L1 bilaterally.
5. Intraoperative SSEP motor evoked potentials.
6. Intraoperative fluoro.

# Post-Op Films



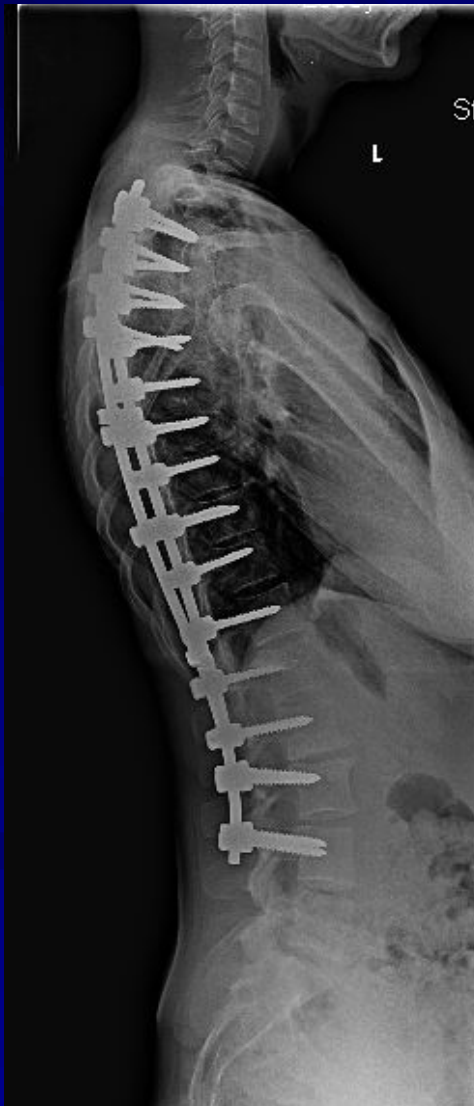
The patient's x-rays look excellent with good frontal plane sagittal balance.

# Pre-Op/Post-op Comparison



The patient is well balanced, and very happy with her outcome. She gained an inch in height after surgery.

# Pre-Op/Post-op Comparison



The patient has great posture and is doing very well.