

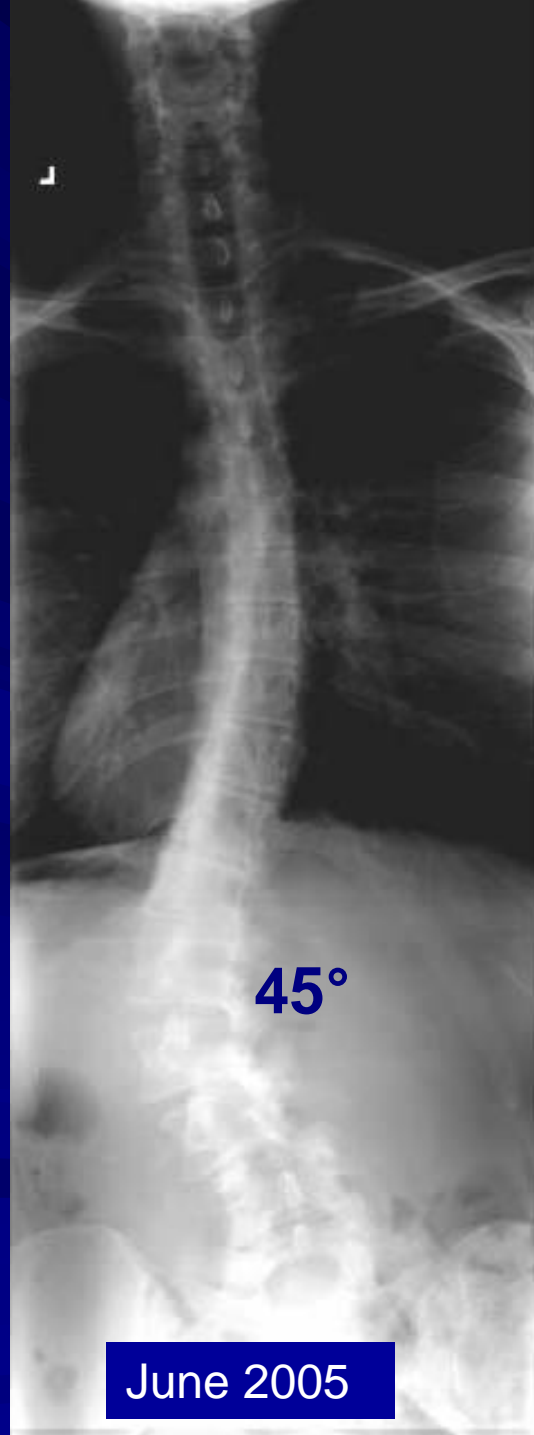


Case Review: Adult Idiopathic Scoliosis with a 50° Lumbar Curve

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Patient History

- 43 yo female, increasing pain over her left lumbar curve. She has tried chiropractic, physical therapy, massage, injections, anti-inflammatories. The pain is severe.
- On physical examination, she has typical right flank elevation. She has decompensation to the left. Sagittal plane is good. She has a slight right rib hump.
- 36x14 x-rays show a 45° left lumbar curve which increased from 40° in 2001. She has rotation or lateral listhesis of L3 on 4, and is decompensated approximately 3-4 cm to the left. She has good sagittal plane.



June 2005



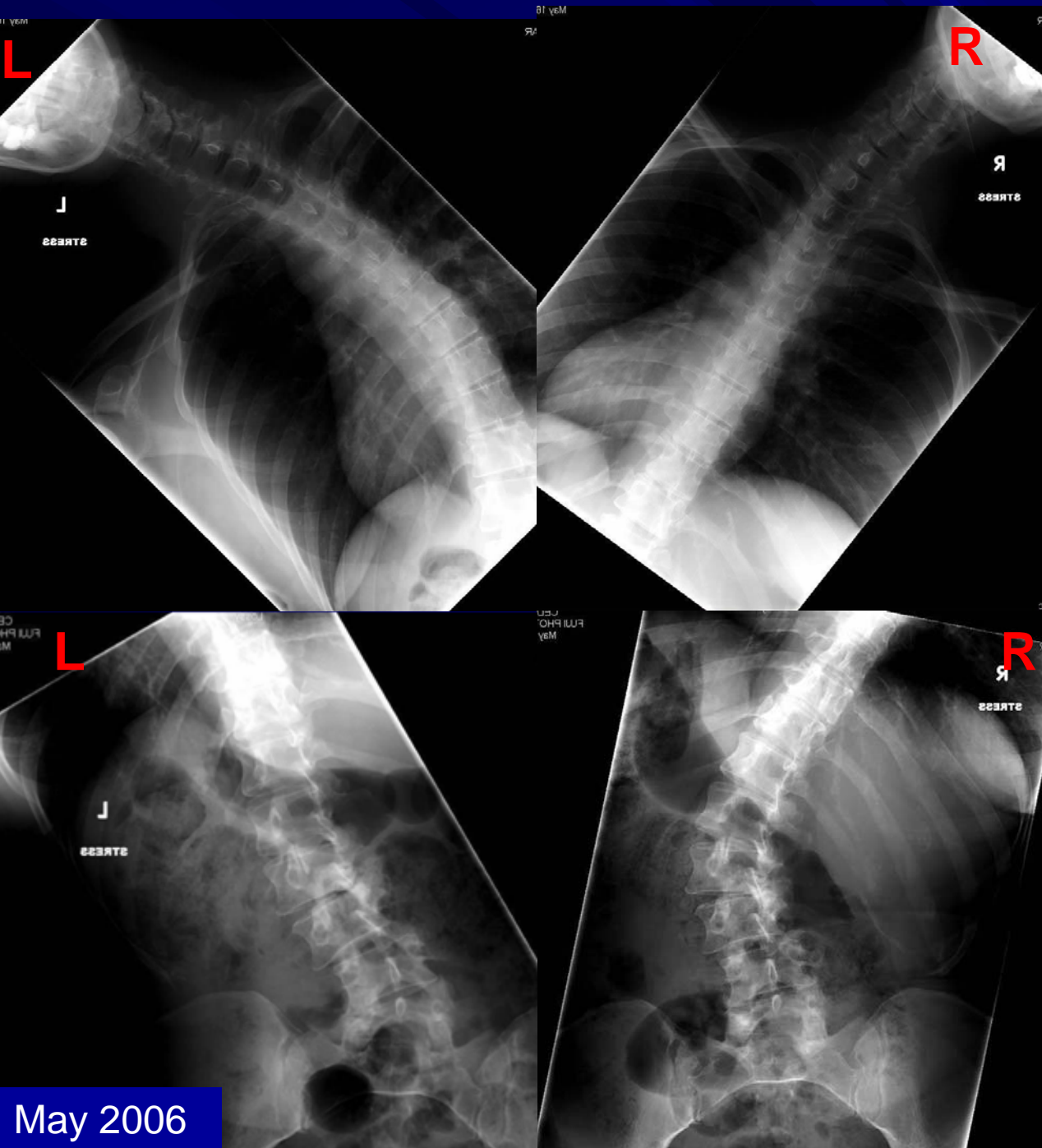


May 2006



Bending Films

On bending films, she does not correct her L4 over 5, but these are not forced bending films, as far as I can say. She also has apical degeneration through the apex of the curve which is significant. This was not present on 2001 films.



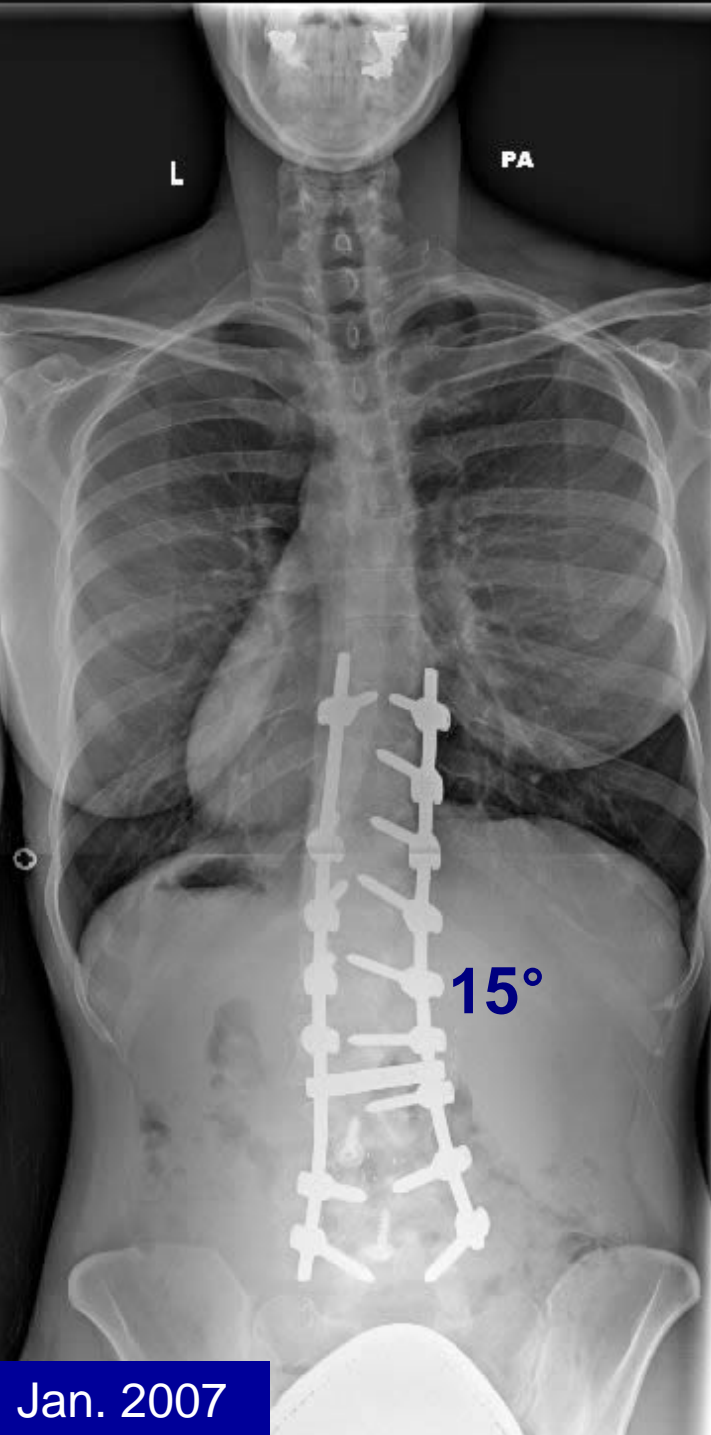
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Indications for Surgery

- 50° thoracolumbar adult idiopathic scoliosis, progressive.
- Severe low back pain and radiculopathy.
- Degenerative disc disease, lumbar spine.
- Failed conservative therapy.
- Severe rotation sagittal plane deformity causing the above diagnoses.

Surgical Strategy

- Segmental spinal instrumentation using pedicle screw, rod construct, Legacy 5.5 stainless steel T9 to L5, eight levels.
- Posterior spinal fusion, T9 to L5, eight levels, using a combination of autogenous and BMP bone.
- Interlaminar decompression, lateral mesial facetectomy, lateral recess release, neural foraminotomy for spinal stenosis, L1-2, L2-3, L3-4, and L4-5 bilaterally.
- Spinal osteotomy for mobilization of stiff rigid posterior adult idiopathic spine, L1-2, L2-3, L3-4, and L4-5.
- Autogenous bone graft harvesting.
- Intraoperative somatosensory-evoked potentials.
- Intraoperative fluoroscopy.

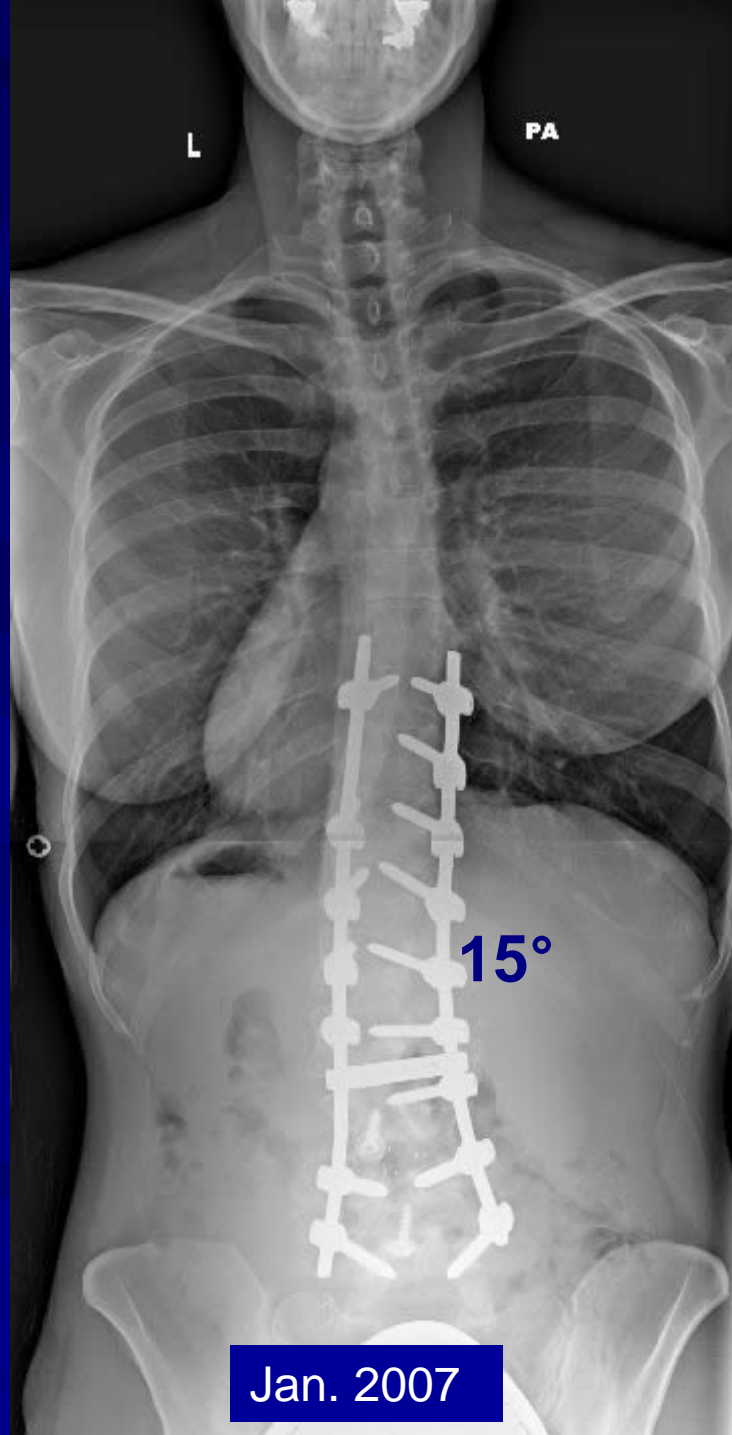


Post-Operative X-Rays

The patient is doing well.
Hardware looks good.
Balance is excellent.

Two months post-op, she has
minimal pain and has
increased her activities.

Jan. 2007



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