

Adult Idiopathic Scoliosis with Lumbosacral Kyphosis:

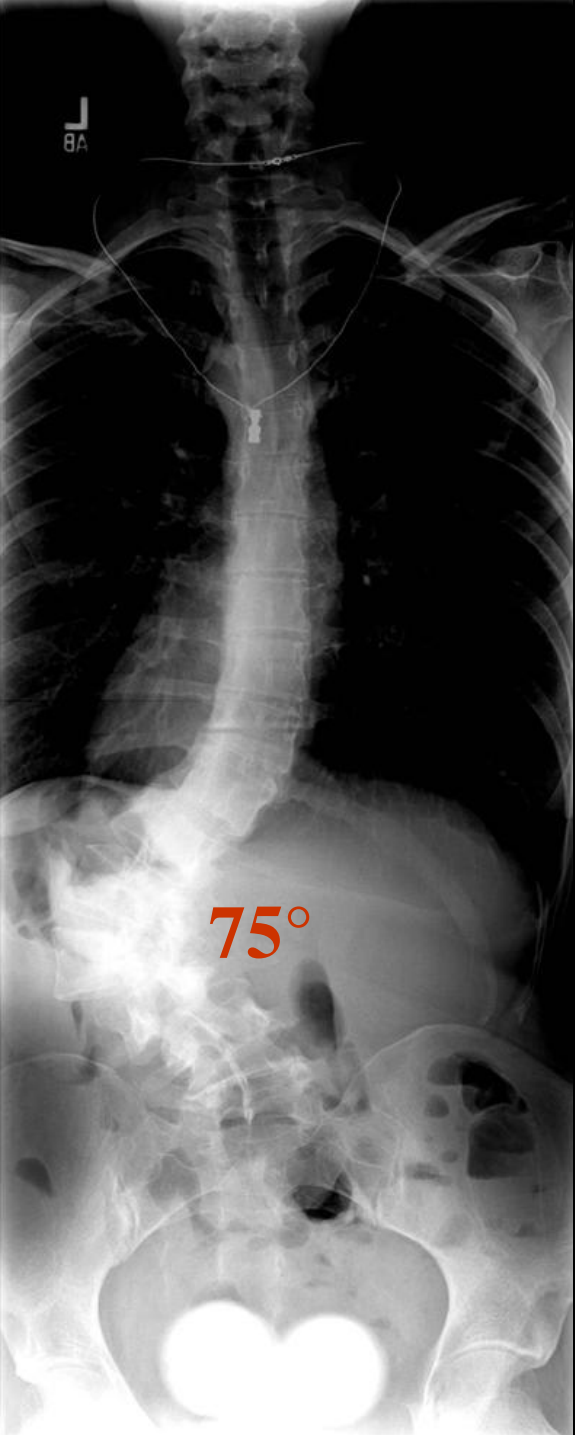
**Treated with Anterior and Posterior
Spinal Fusion**

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Scoliosis and Spinal Deformity Surgery
www.eSpine.com

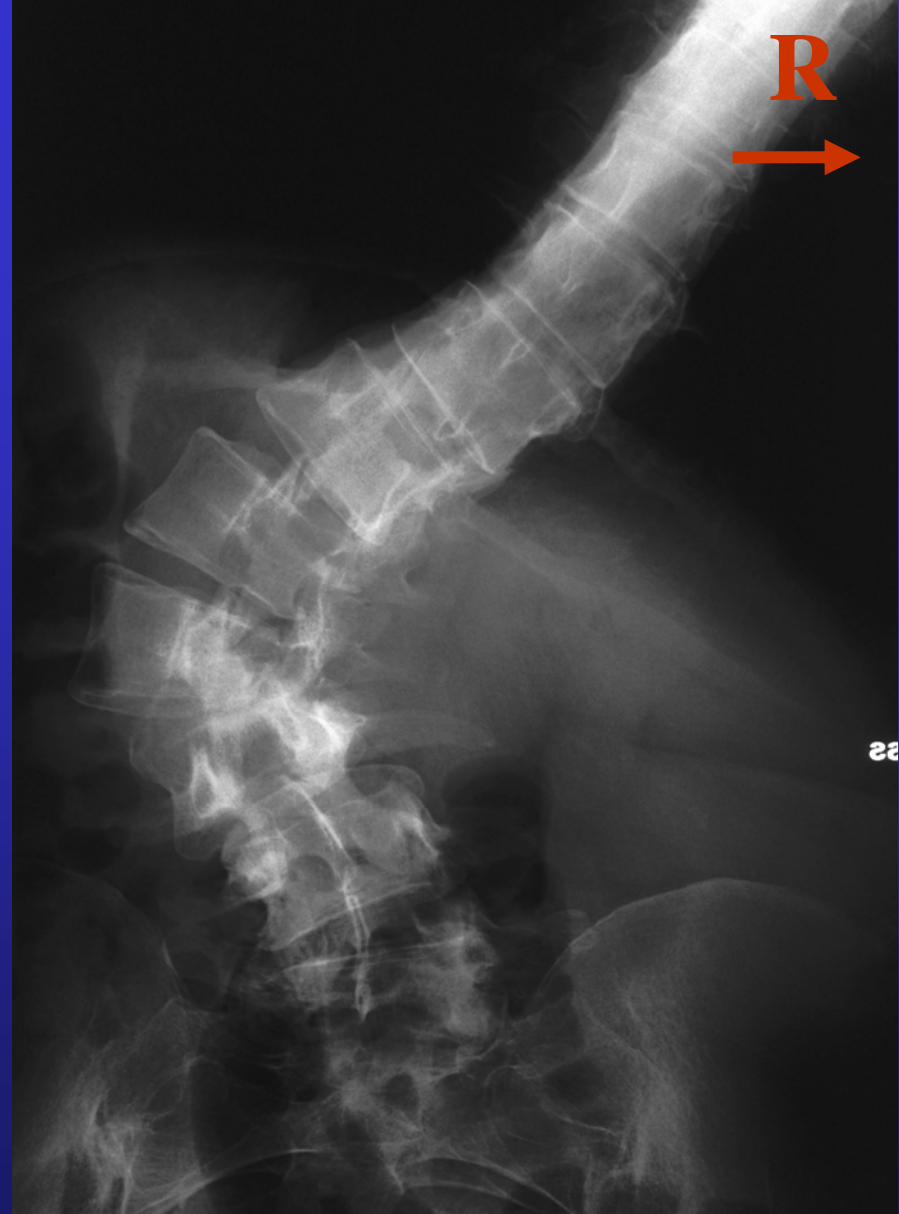
Patient History

- 31 Year old female
- Diagnosis: Progressive Adult Idiopathic Scoliosis with Lumbosacral Kyphosis
- Patient diagnosed at age 12, did not wear her brace
- Four inch height loss
- Low back pain, leg pain
- Failed to respond to conservative therapy



Pre-Operative X-Rays

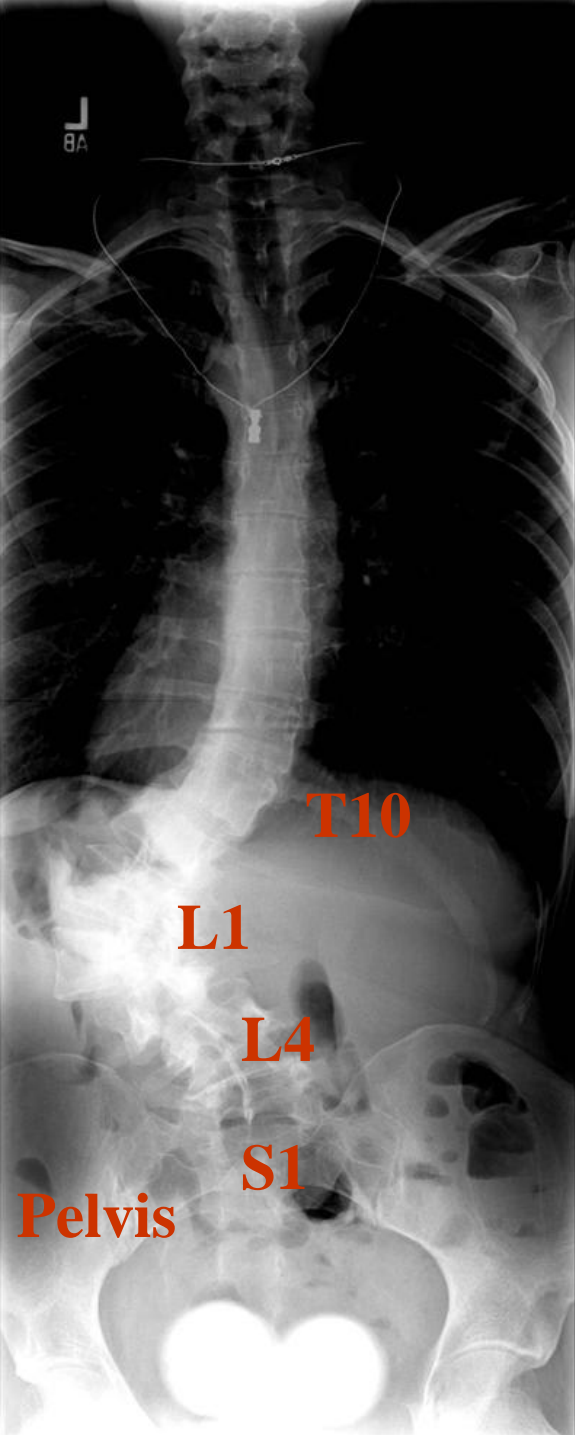
- 75° curvature of the lumbar spine, rotated approximately 90°
- 2 cm decompensation

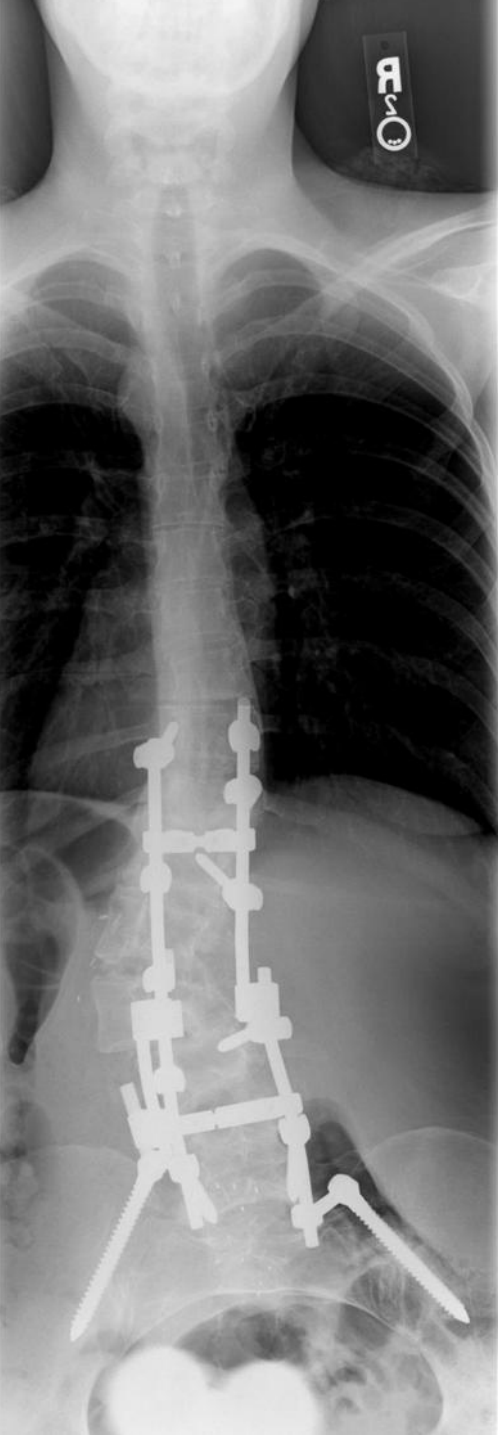


Bending X-rays: The patient has a very stiff lumbar obliquity that does not correct on right or left side bending.

Surgical Strategy

- Radical discectomy of T10-L1 (7 levels)
- Anterior interbody fusion L4-S1, using PEAK and autogenous rib bone graft
- Anterior interbody fusion T10-L4 using morselized bone graft
- Posterior Spinal Fusion T10 to Sacral Pelvis





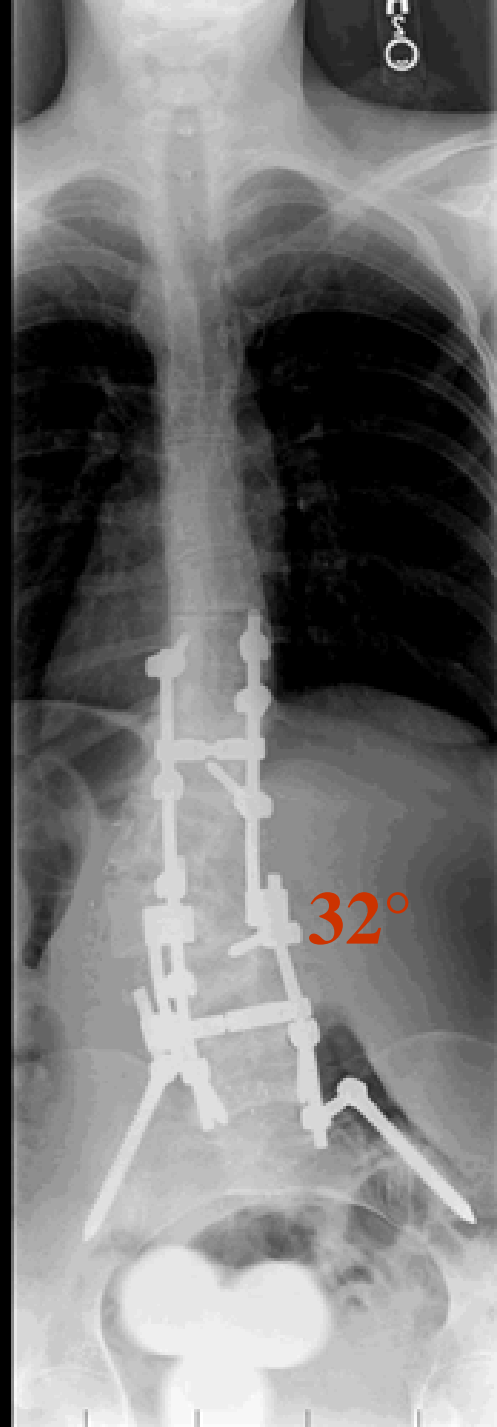
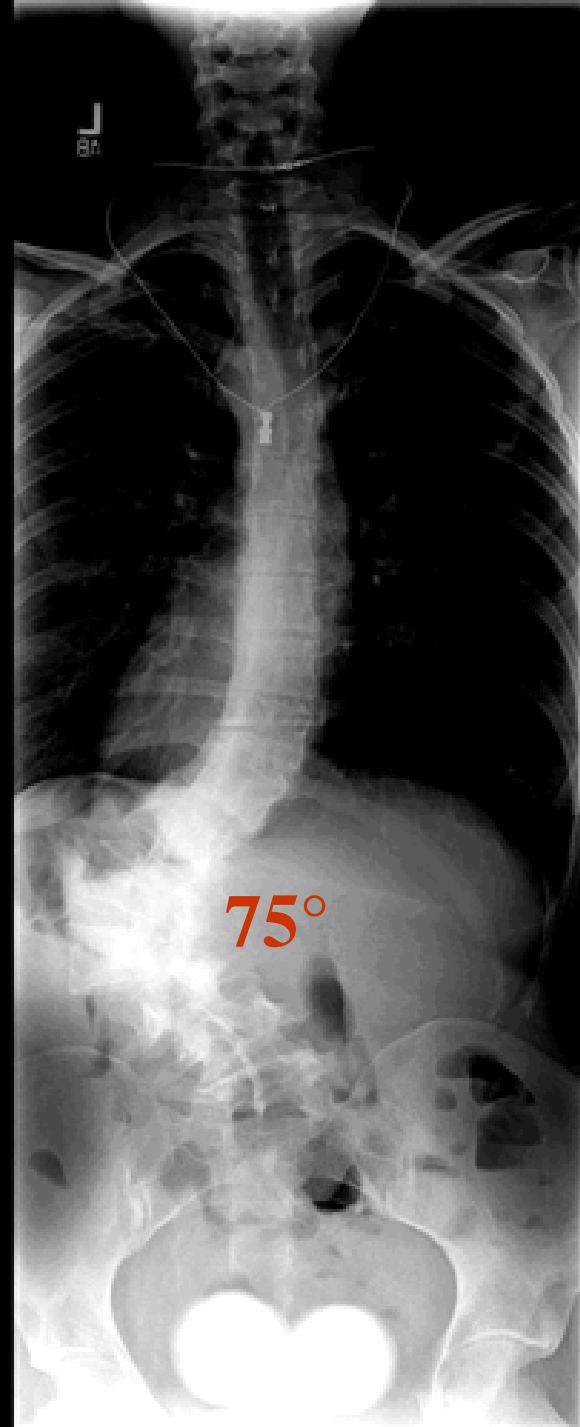
Results

The original surgical plan was to fuse T10 to S1.

Spinal balance was achieved by T12, therefore two levels were spared.

Pre-Op/ Post-op Comparison

A correction of 57% was obtained. The lumbar kyphosis has been corrected in the frontal plain.





Thoracic kyphosis corrected. The pre-operative pain that she was experiencing in her back and legs has significantly decreased, and she requires minimal pain medication. The patient is quite pleased with her appearance.