Something I Wouldn’t Do Again...

Ramo ICEOS 2017
• 15 month old male
• Infantile idiopathic scoliosis
• Circa 2001
• Treated initially with two Risser casts
• Transitioned to TLSO until age 11
• Wore TLSO for 20-23 hours/day for 10 years
Braced for several years....

T1-T12 = 17cm
Bone Age = 10
Age 11+3
Fixed Ends, Gliding Apex

Surgical Technique

Modern Luqué Trolley, a Self-growing Rod Technique

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Fig. 4 Classic construct of a modern Luqué trolley consisting of two proximal claws (or four proximal screws) and four distal pedicle screws as fixed anchors are shown. Two intercalated sublaminar cables are placed across the thoracic curve and one gliding screw at the apex of the lumbar curve.
Anterior Release T10-T12, fixation at T10-T12 (gliding)
Domino used on left and Apical Wires on Right

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2 weeks postop – 20.3 cm

6 weeks postop
4 months postop – Child fell at school, sudden increase in pain at implants over apex

Domino rotated
4 months postop – Child fell at school, sudden increase in pain at implants over apex

Domino rotated
Fixed Ends, Gliding Apex

6 months postop – 20.4cm
Fixed Ends, Gliding Apex

6 months postop – 20.4cm
Fixed Apex,

Gliding Ends

4.5 locked screws
4.5 rods
5.5 locked screws and hooks
Early Failure

- Noted within first 6 weeks
Stayed asymptomatic for some time....
26 months post conversion

- Child dealing with other health problems limiting activity
- Diagnosed with Multiple Sclerosis in interim
Stayed asymptomatic for some time....
26 months post

At conversion... noted to have “significant fibrosis and metallosis everywhere, not just at gliding screws”

3 years post
original 20.4 cm
• Seen at 1 year postop
• Age 14+3
• Asymptomatic
• “well balanced clinically: balanced shoulders, waist and pelvis”
• “Excellent result”
• Triradiate open, and this