



MISTAKES

IT COULD BE THAT THE PURPOSE OF YOUR LIFE IS
ONLY TO SERVE AS A WARNING TO OTHERS.

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M.T.

- 15 m.o. w/Alagille variant
- Dislocated hips, vertical tali, severe kyphoscoliosis, seizures, FTT









Treatment

- Halo gravity traction
- VCR and apical fusion, submuscular rod
- Both hips, both feet
- Many operations, infections, do-overs.
- End:

Failure

- Terrible problem
- Not good enough solution
- Some compliance issues



Early Definitive Spinal Fusion in Young Children

What We Have Learned

Lori A. Karol MD

- Early fusion does not arrest deformity
 - Reoperation rates of 37, 39%
- PFT's 41% (12-67%)
- Diminished thoracic height (57% <18 cm)

Apical Fusion-we know less

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■ Comparison of Single and Dual Growing Rod Techniques Followed Through Definitive Surgery

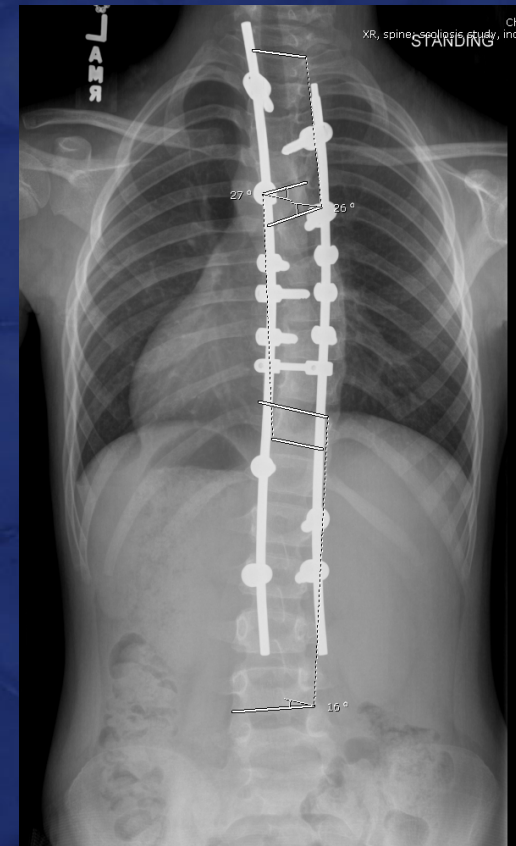
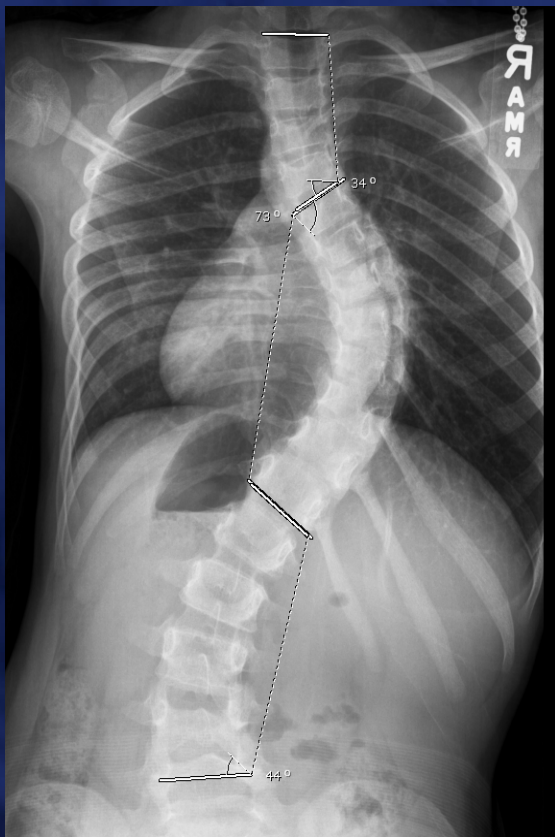
A Preliminary Study

George H. Thompson, MD,* Behrooz A. Akbarnia, MD,† Patricia Kostial, RN, BSN,†
Connie Poe-Kochert, CNP,* Douglas G. Armstrong, MD,* Jeffrey Roh, MD,‡
Robert Lowe, MD,‡ Marc A. Asher, FRCS,§ and David S. Marks, MD||

- Gp 1: 5 A/P apical fusion with single SM rod vs Gp 2, 16 single SM rods and Gp 3, 7 dual rods
- Least T1-S1 growth in Gp 1 (6.4) vs Gp 3(12cm)

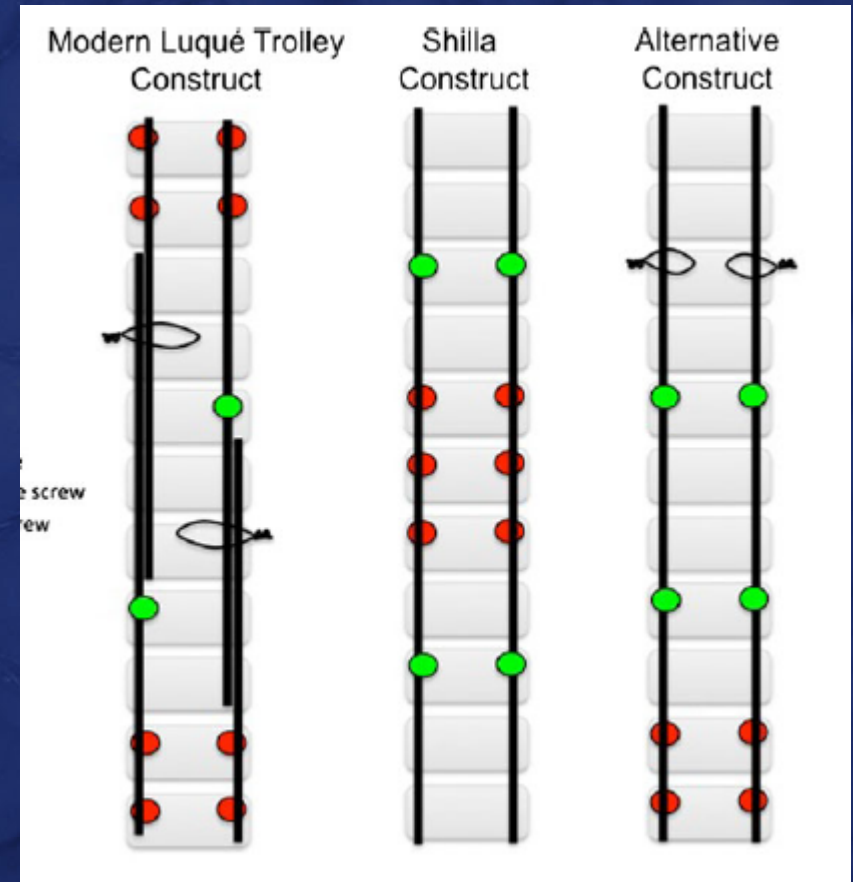
Apical Fusion \neq Apical Control

- Although they may be done together



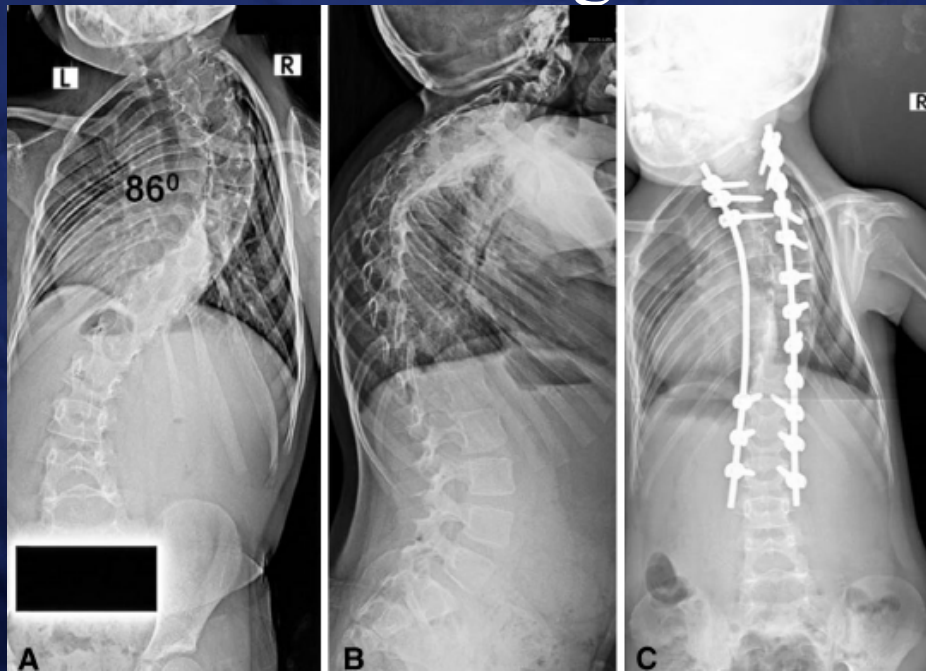
Ouellet *CORR 2011*

- Alternative Luque trolley
- Apical control
- Ends fixed, apex controlled and screws and rods glide



Enercan *CORR* 2014

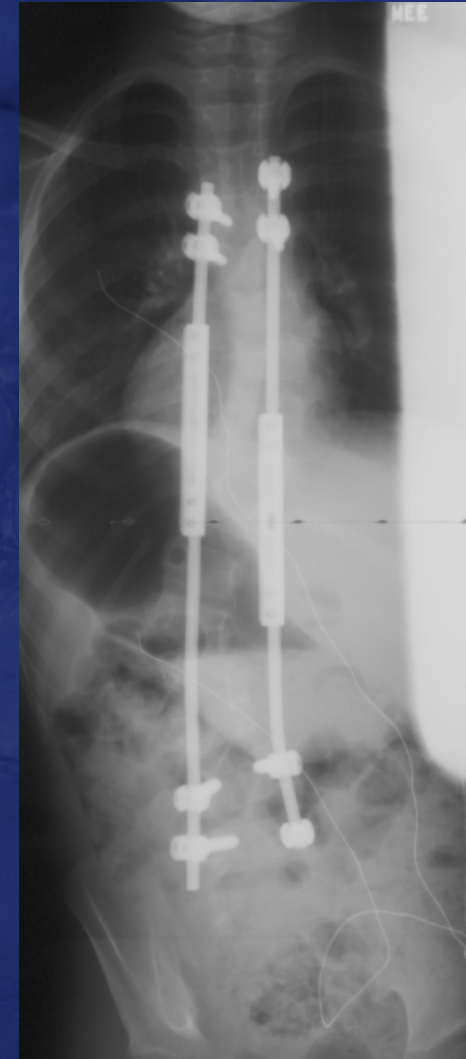
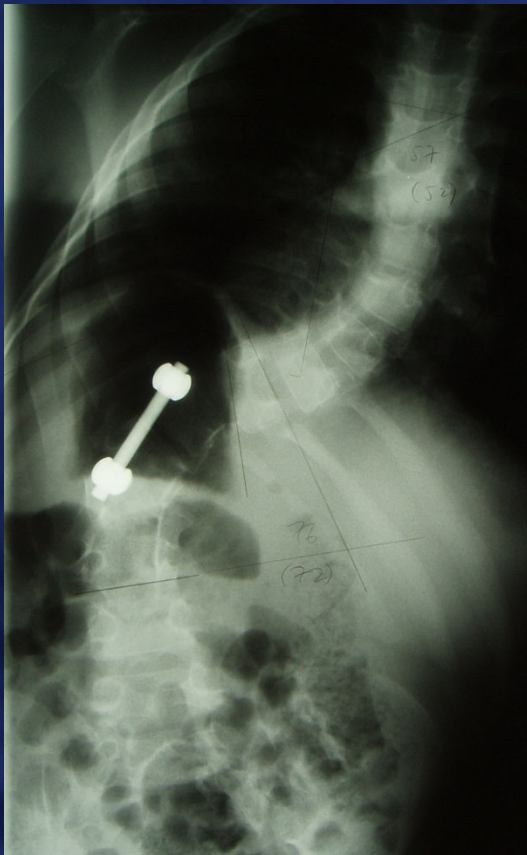
- 16 pts with modified R technique with apical screw fixation
- Some gains in T1-S1 height



Apical Control

Get it

– little stiffening as possible





FAILURE
is
SUCCESS
if we learn
from it.

Malcolm Forbes

