Washington University in St. Louis
ORTHOPAEDIC SURGERY

Shilla: Who is my Ideal Patient for Shilla?

Children's HOSPITAL • ST. LOUIS
BJC HealthCare

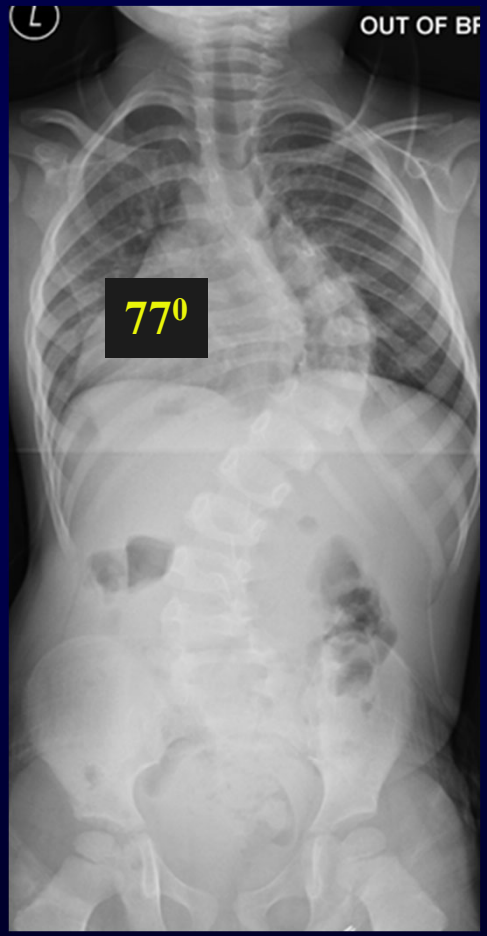
BARNES-JEWISH Hospital
BJC HealthCare

Scott J. Luhmann, MD

Department of Orthopaedic Surgery
Washington University School of Medicine

IIS: 3+8 years

- Braced since 21 month of age
- Marginal brace compliance



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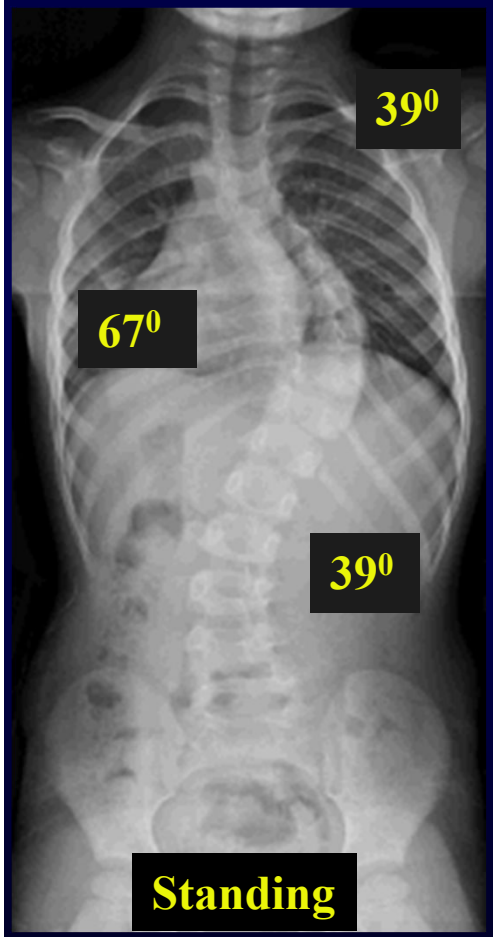
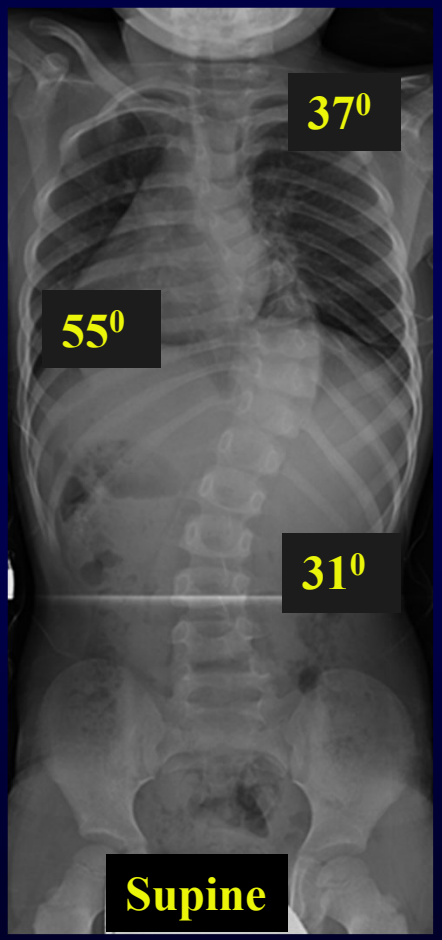
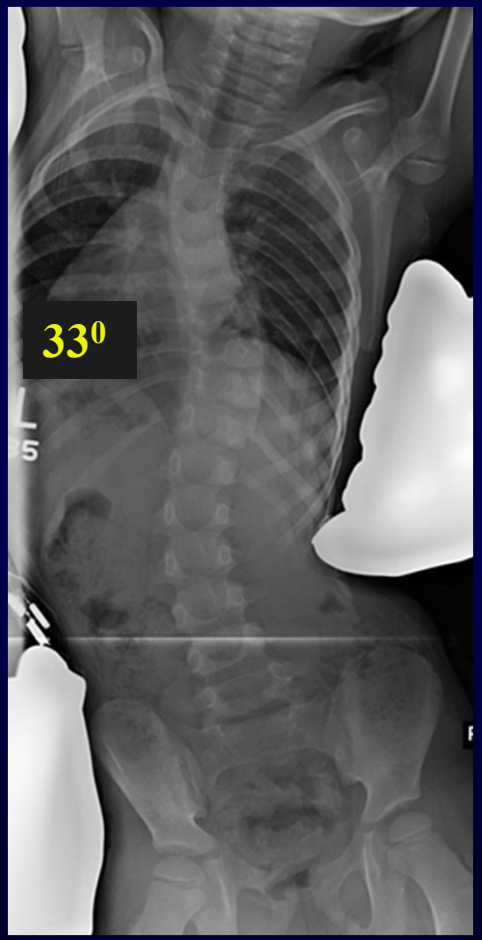
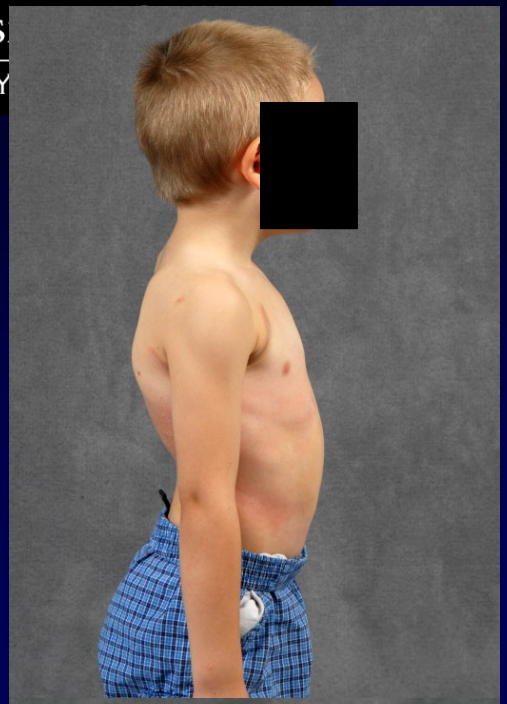
5+0 years
6 Spine casts









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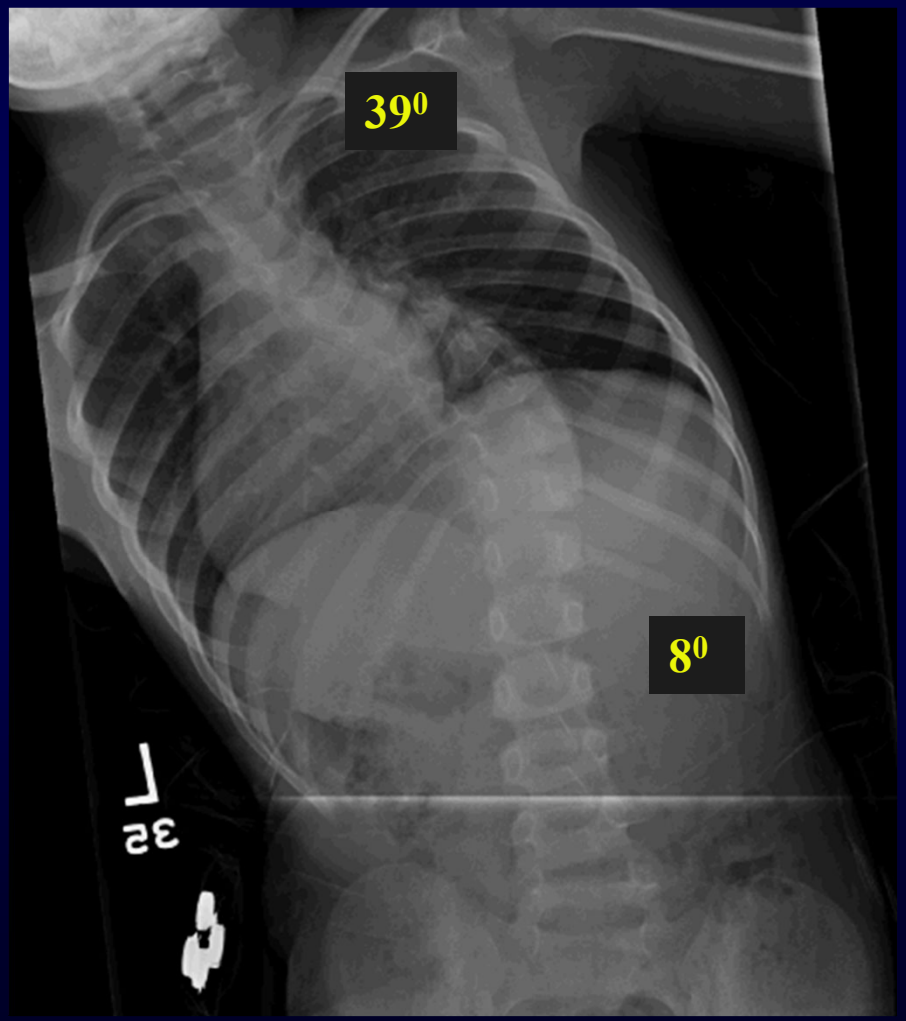

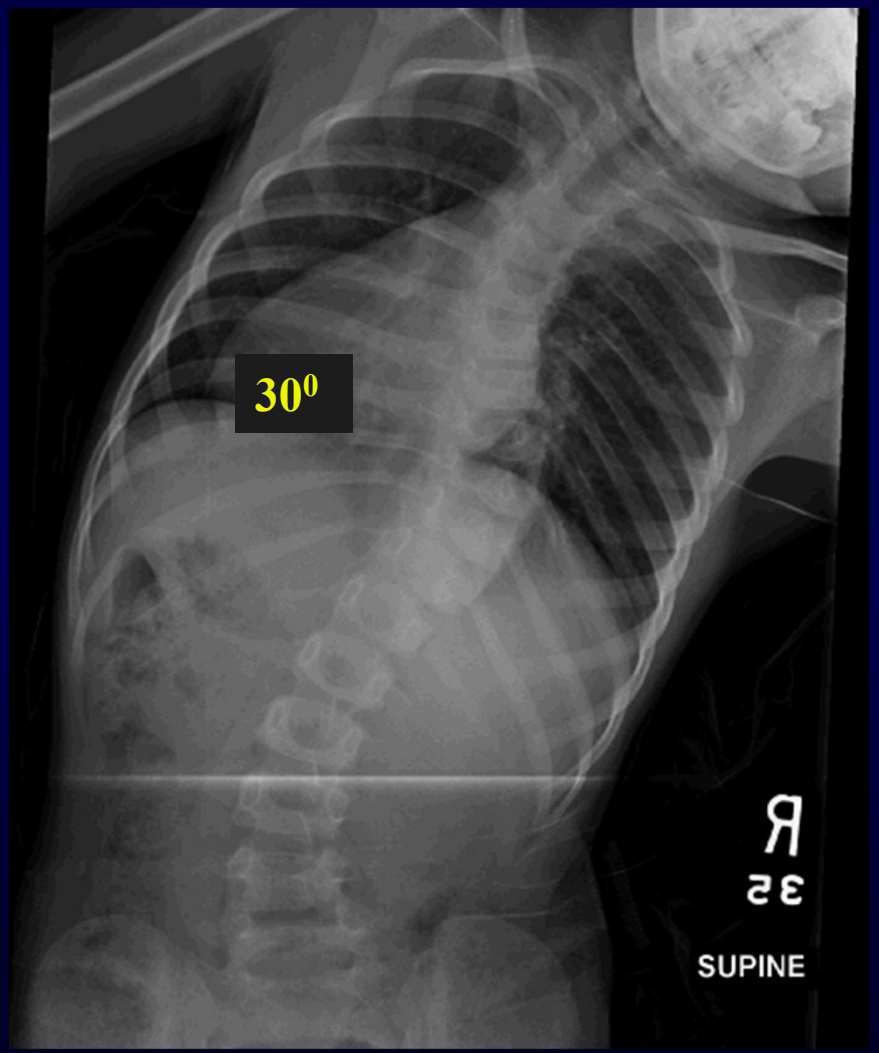

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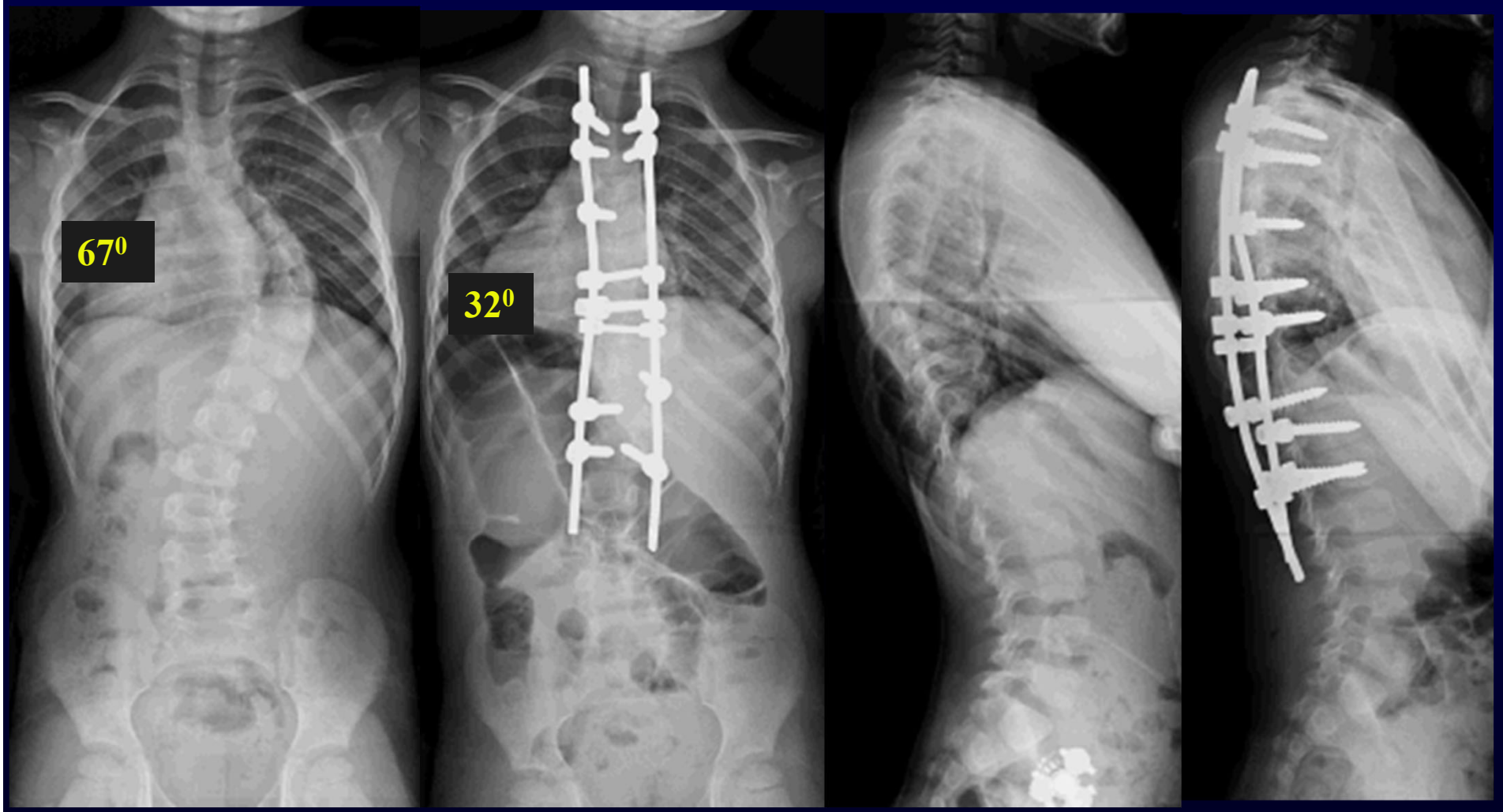
5+0: Shilla Procedure
T8-T9 PSF; PSSI T3-L1



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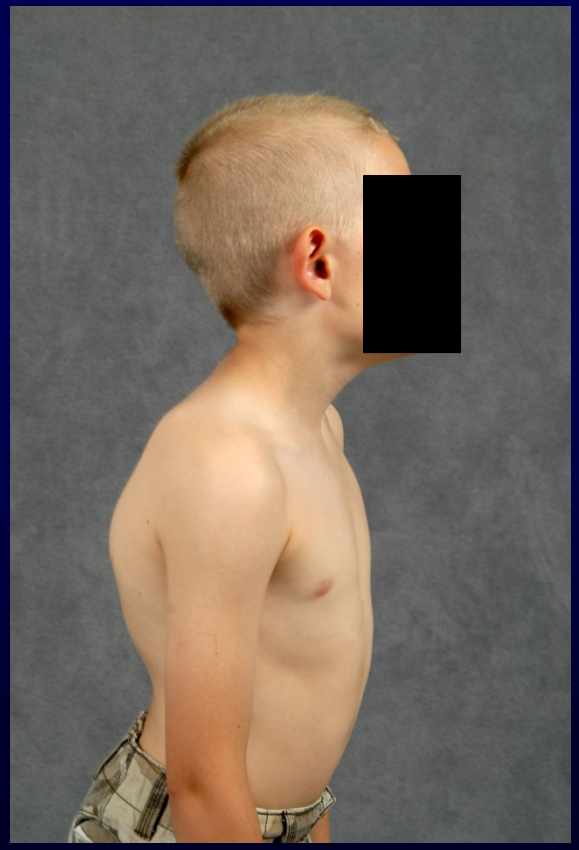
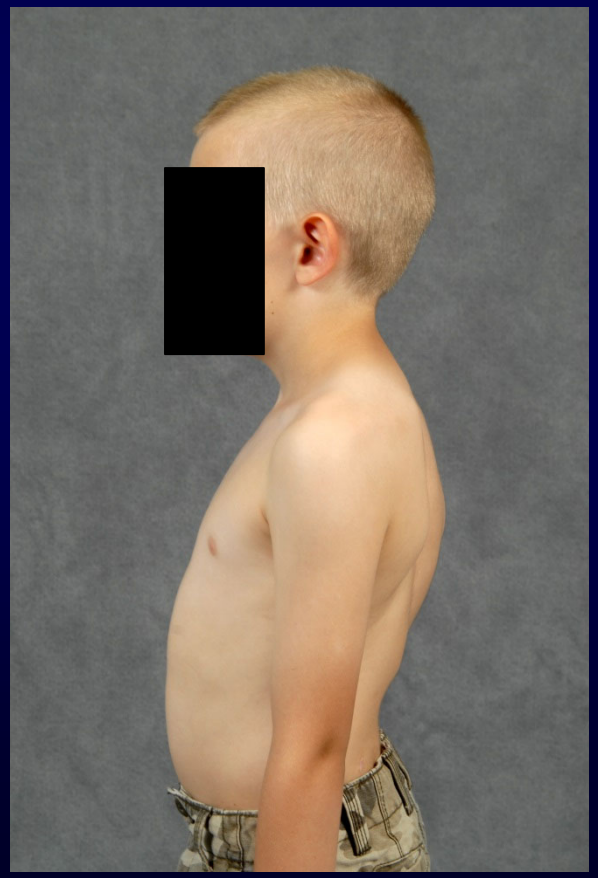
3 years postop





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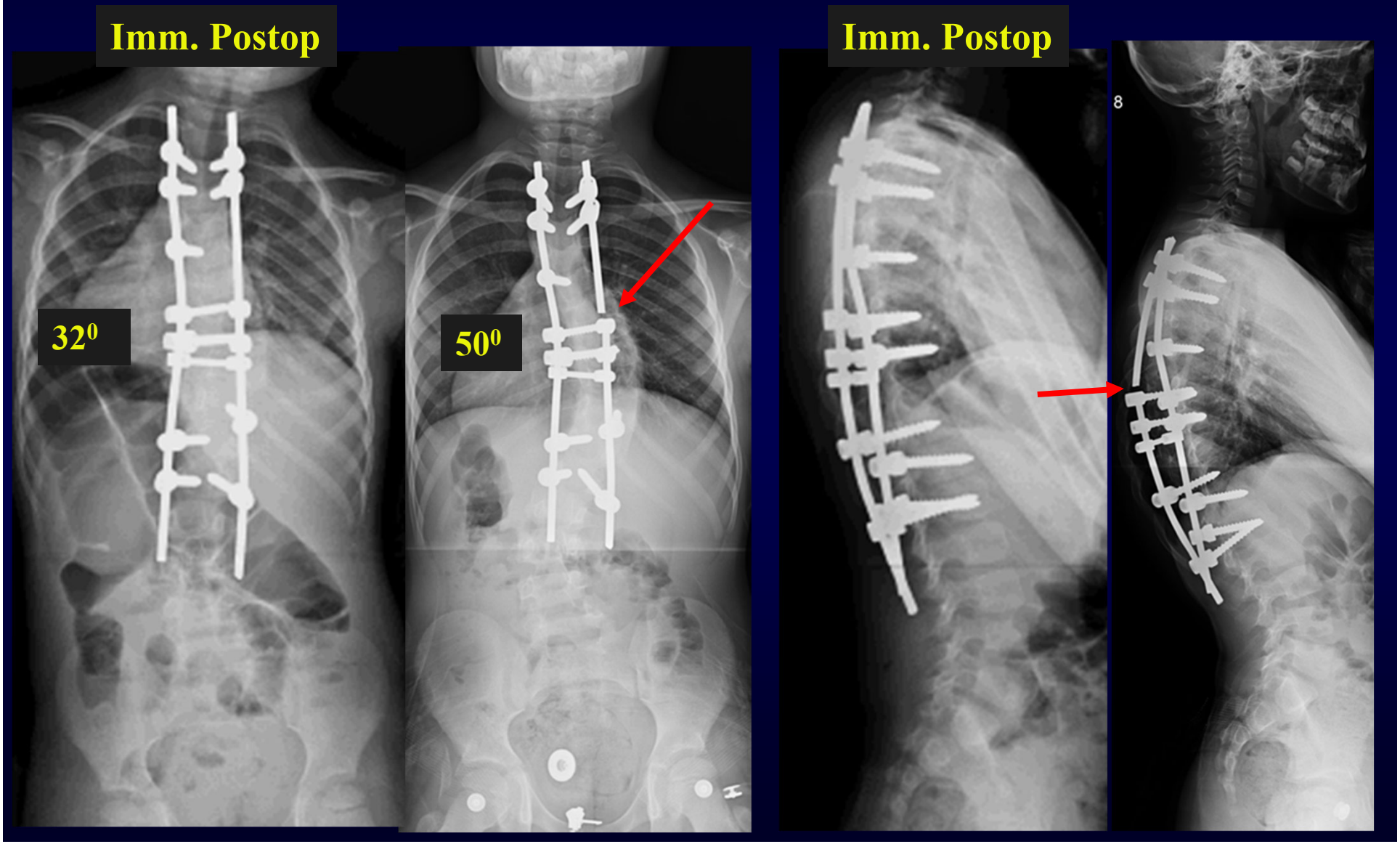
8+1; 3 years postop; B rod revision



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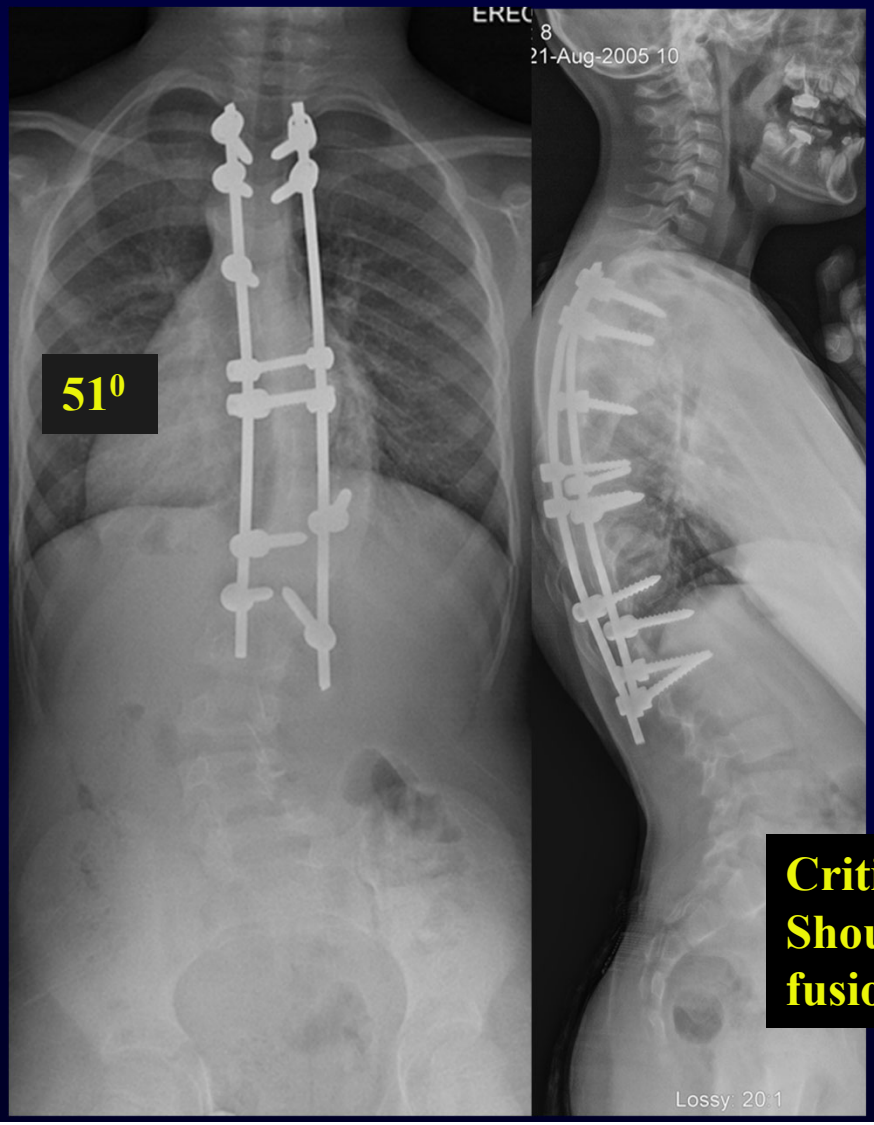
10+1 y/o; 5 years postop

- T1-T12: 210 mm
- T1-S1: 330 mm
- CCW: 201 mm



Only 2 Surgeries!
If traditional growing rods, then ≥ 8 surgeries.

Critique:
Should have done 3-4 level fusion

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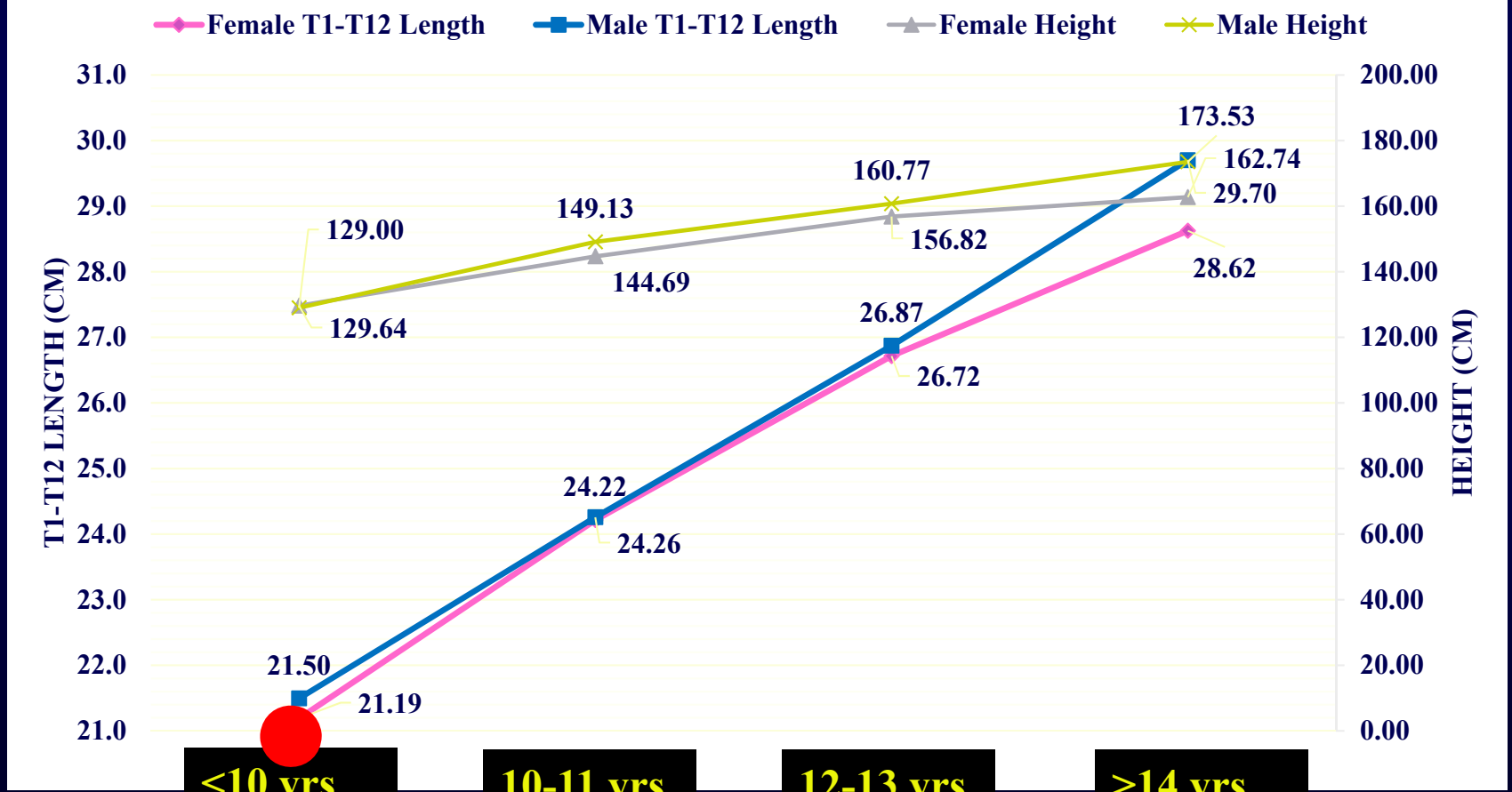
T1-T12 LENGTH STRATIFIED BY AGE



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9.5 y/o male, JIS

SCM 23°

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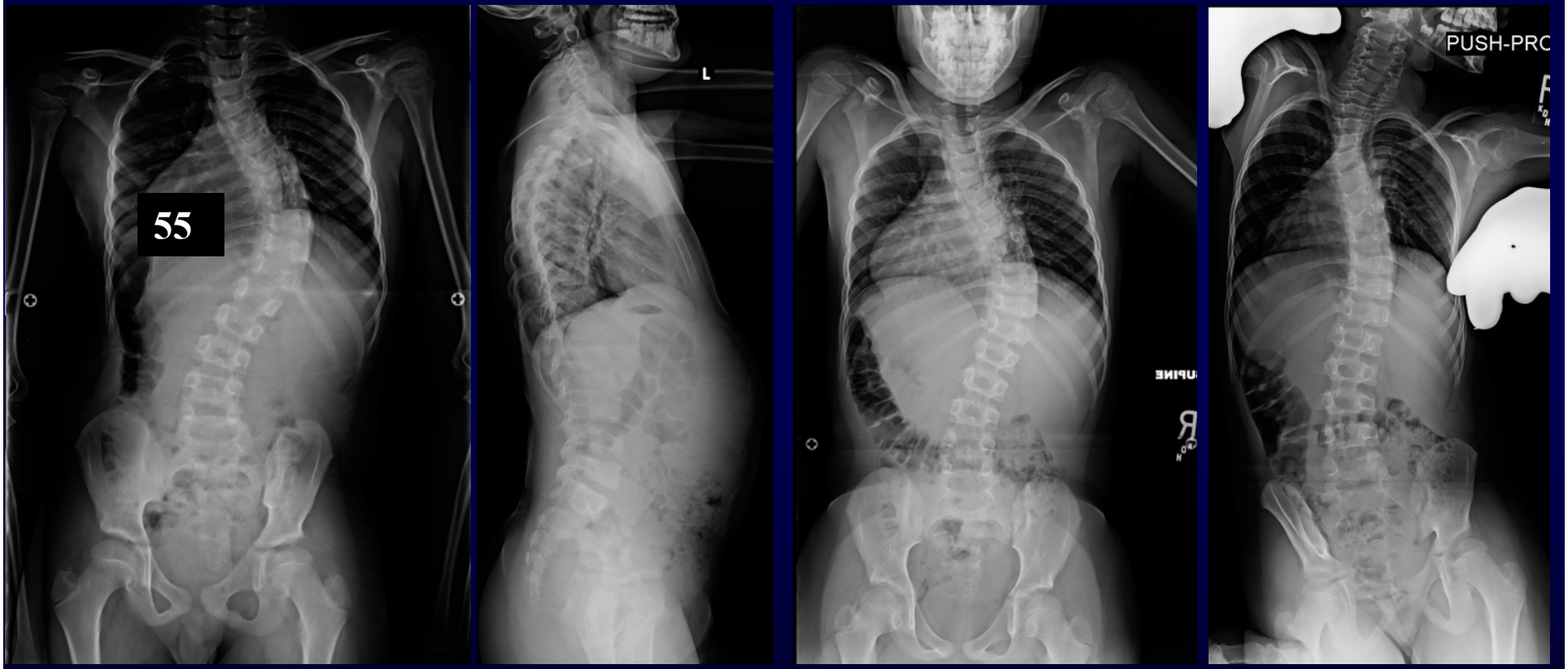
9.5 y/o male, JIS



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1 year s/p Shilla procedure
PSF T9-T11, PSSI T3-L3

3 level apical fusion
Blockers

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1 year s/p Shilla procedure
PSF T9-T11, PSSI T3-L3

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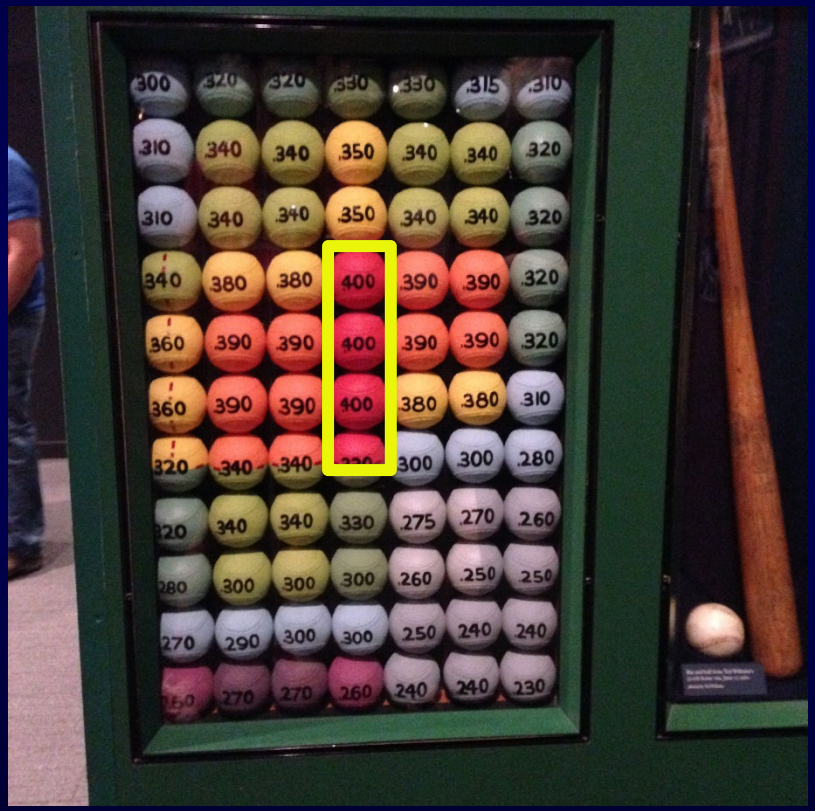
"Ideal" Shilla Patient



Lifetime 0.344 hitter
≥ 0.400 3 years

- 5-10 years of age
- Idiopathic dx
  - "Normal" growth
  - Good bone density
  - Adequate pedicle size
  - Good flexibility
- Deformity
  - <70° Coronal
  - Normal kyphosis

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Thank You