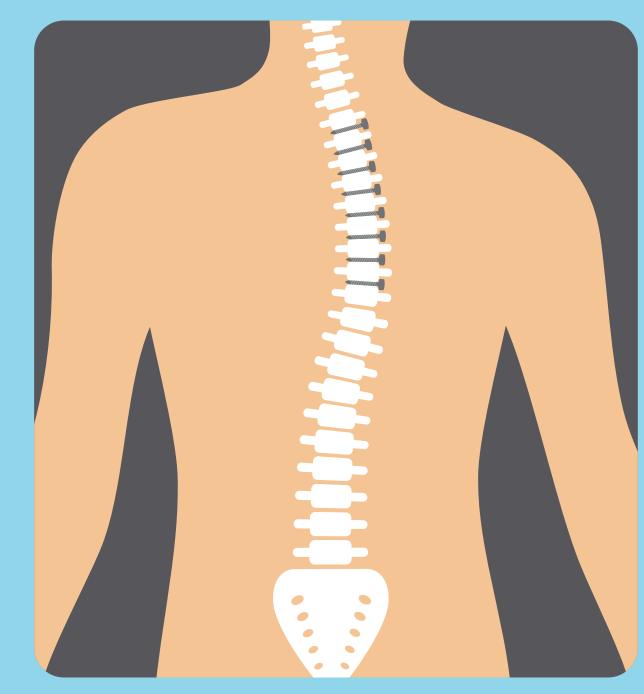
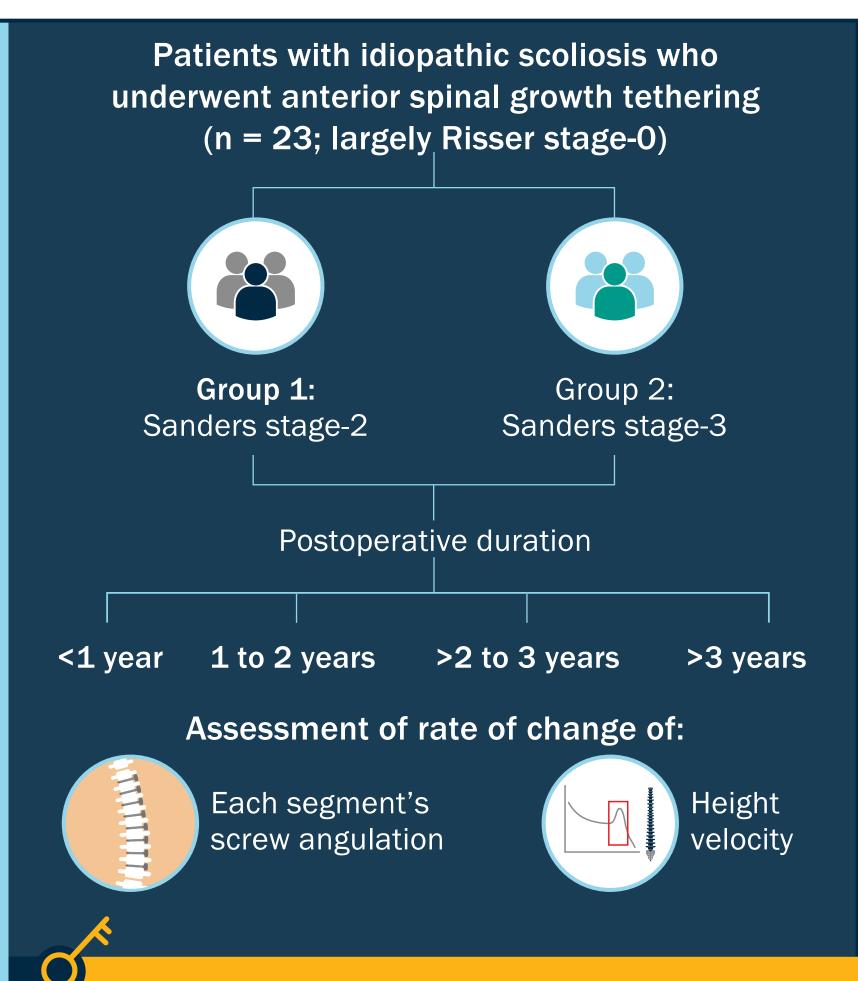
Growth Modulation After Anterior Spinal Growth Tethering for Idiopathic Scoliosis

Anterior spinal growth tethering is a contemporary treatment method for skeletally immature patients with idiopathic scoliosis



What is the association between changes in screw angulation and overall height after anterior spinal growth tethering?





Rate of change for each segment's screw angulation (degrees/month)

 \checkmark -0.16° for <1 year \checkmark -0.05° for >2 to 3 years

 \checkmark -0.14° for 1 to 2 years \checkmark 0.03° for >3 years



Rate of change of height velocity (cm/month)

√ 0.65 for <1 year
</p> \checkmark 0.30 for >2 to 3 years

 \checkmark 0.57 for 1 to 2 years \checkmark 0.19 for >3 years



After anterior spinal growth tethering, changes in screw angulation were associated with height increase

- ✓ Rate for group I (2.8° per segment per year)
- > Rate for group II (1.2° per segment per year)
- ✓ Group I continued for 3 years
- ✓ Group II continued for 2 years

Surgical timing that depends on patient's skeletal maturity influences proper postoperative correction after anterior spinal growth tethering

Rate of Scoliosis Correction After Anterior Spinal Growth Tethering for Idiopathic Scoliosis

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