

Inclusion

All patients between 8 and 17 years, with adolescent idiopathic scoliosis (Cobb angle $>10^\circ$) visiting the outpatient clinic of the UMCG.



Informed consent



Evaluation every 6 months



Exclusion

- Previous spinal operation
- Skeletal dysplasia
- Abnormalities of maturation or height that would influence height measurements

Summary study protocol

- Anamnesis
- Physical exam
 - Physical exam back
 - Length and weight measurements
 - Secondary sexual characteristics
- Total body X-ray
 - Spine: classification scoliosis, Cobb angle, length scoliotic spine
 - Pelvis: Triradiate cartilage, Risser sign
 - Hand: Tanner Whitehouse skeletal age
 - Elbow: Sauvegrain skeletal age
- EMG ratios paraspinal muscle activity