

→ Did you know?

Idiopathic means a disease of unknown cause. Researchers discovered a gene that is believed associated with this adolescent idiopathic scoliosis only a few years ago.

Reference: Ogilvie JW, Braun J, Argyle V, Nelson L, Meade M, Ward K. The search for idiopathic scoliosis genes. *Spine*. 2006;31(6):679-81.



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For more information on spinal surgery visit
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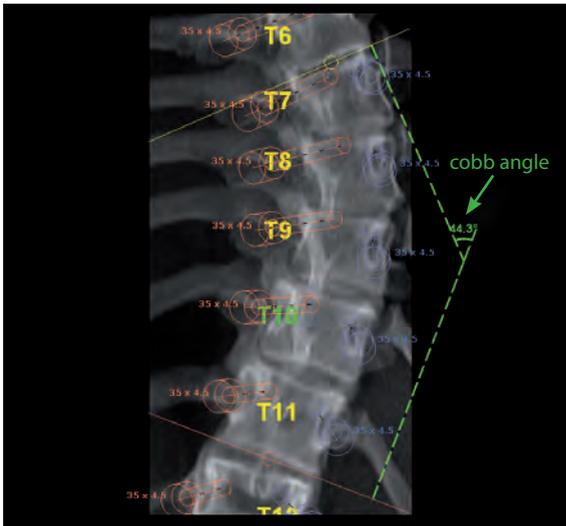
Scoliosis



➔ Scoliosis Surgery with Mazor Robotics

What is adolescent idiopathic scoliosis?

Adolescent idiopathic scoliosis is an abnormal C-shaped or S-shaped curvature of the spine. The curvature of the spine is measured by the Cobb angle.



A Cobb angle greater than 15° is considered scoliosis.

➔ Small spinal curves occur with similar frequency in boys and girls, but girls are more likely to have a progressively larger scoliotic curve requiring treatment.

What are the symptoms?

Symptoms of adolescent idiopathic scoliosis include back pain, unequal leg lengths, uneven hips, uneven shoulders (one shoulder appears higher than the other), abnormal gait, as well as breathing difficulties when the rib cage puts pressure on the lungs. When left untreated the deformity might progress significantly.

How is adolescent idiopathic scoliosis treated?

For milder cases, your doctor may recommend nonsurgical treatment such as bracing. Braces are usually worn for several hours daily. This can be effective if the child is still growing and has a Cobb angle between 25° and 45°.

In cases which are progressive or the Cobb angle is greater than 45°, your doctor may recommend surgery to straighten and fixate the spine, which is achieved by placing implants such as screws, rods, hooks, and wires in and along the spine.

➔ Surgery treats but does not cure scoliosis, it corrects the abnormal curvature and prevents further progression of the disease.

What are the advantages of treatment with Mazor Robotics compared to other methods?

Surgical treatment of adolescent idiopathic scoliosis requires planning and precision. Each scoliotic curvature has unique challenges, and often the patient's vertebrae are deformed, twisted and abnormally small, which makes for a challenging surgery.

Mazor Robotics technology provides increased safety and precision in corrective surgery. It allows surgeons to plan ahead before entering the operating room; Mazor Robotics advanced 3D planning software is used before surgery to create a unique surgical blueprint, which is the ideal procedure for each patient's condition.

➔ Ask your doctor if Mazor Robotics spine surgery is right for you. ↓

During the operation, the physician does the actual work; Mazor Robotics' system guides the surgeon's tools according to the predetermined blueprint to place the implants safely and with the highest level of accuracy in the exact preplanned locations.

➔ Studies have validated superior clinical results for treating adolescent idiopathic scoliosis with Mazor Robotics technology, which is in use in leading scoliosis clinics worldwide.

