

Improve your quality of life with the

MYSPINE PATIENT-SPECIFIC SCOLIOSIS CORRECTION



Suffering from Scoliosis?

If scoliosis limits your daily activities, affects your mood,
your health and your general well-being...

You're certainly not alone!

Has your doctor recommended Patient-Specific Scoliosis Correction?

There are a number of surgical and non-surgical solutions available to treat your disease. Depending on your condition, your doctor may suggest that you undergo a spinal fusion surgery (which is a surgical procedure used to correct problems with the vertebrae in your spine).





The Medacta MySpine Patient-Specific Platform may be your solution!

MySpine is an innovative, patient-specific surgical platform specifically designed to your personal spinal anatomy to improve clinical outcomes and reduce your radiation exposure in the operating room.

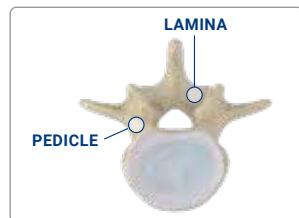
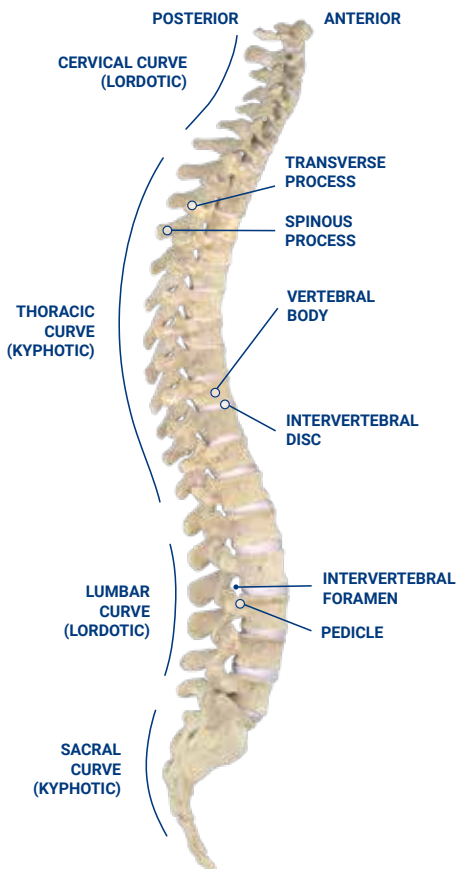


Spine Anatomy

The spine is one of the most important structures in the human body. It supports a large majority of the body's weight, provides points of attachment for muscles and ligaments, and protects the **spinal cord**. A healthy spine is strong yet flexible, allowing for a wide range of movements.

The spine is made up of individual **vertebrae** and is divided into four major regions: the **cervical curve**, the **thoracic curve**, the **lumbar curve**, and the **sacrum/coccyx**. **Discs** are located between the vertebrae and act as shock absorbers to protect the vertebrae and allow spinal rotation and bending. Each disc consists in two parts:

- Annulus fibrosus, a tough outer fibrous ring
- Nucleus pulposus, a soft gelatinous center



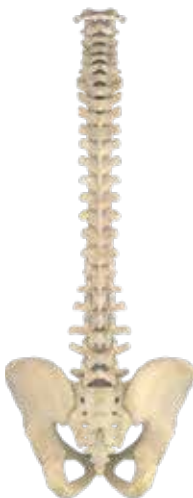
What is Scoliosis?

Scoliosis is a sideways curvature of your spine. When the spine is viewed from the front or back, it appears to be straight. However, for patients with scoliosis, their spines have curves that look like a “C” (one curve) or an “S” (two curves) when viewed on an X-ray.

Scoliosis is a common spinal problem, affecting approximately six million people in the United States. Although scoliosis can occur at any age, it commonly begins developing in children between 10 and 20 years old; in this case, your scoliosis will likely be considered Adolescent Idiopathic Scoliosis. Scoliosis that occurs or is diagnosed in adults is considered a different condition; in this case, your scoliosis will likely be considered an **Adult Deformity**. The causes of scoliosis and treatment goals are often different between Adolescent Idiopathic Scoliosis and Adult Deformity.

If conservative measures to control your scoliosis are not effective, your doctor may suggest that you undergo a **Patient-Specific Scoliosis Correction** tailored specifically to your spinal anatomy, severity of your disease, and your overall medical condition.

NORMAL CONDITION



C-SHAPED CURVE



S-SHAPED CURVE



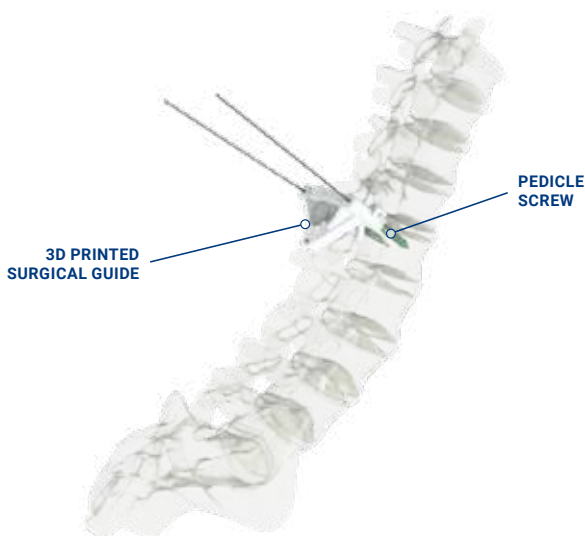
What is a Patient-Specific Scoliosis Correction?

A **patient-specific scoliosis correction** surgery is a means of using patient-specific surgical instruments to help rotate and stabilize your spine. Using **3D printed patient-specific surgical instruments**, your surgeon will insert multiple titanium screws into your vertebrae connect them together with metal rods to help rotate your vertebrae into the correct alignment and then fixate your vertebrae in place.

The MySpine Patient-Specific Platform provides in-depth **pre-operative planning** to guide your surgeon throughout your surgical experience to help achieve the best clinical outcomes for you. Your surgeon will insert spinal implants into vertebrae only in the locations where your scoliosis needs to be corrected, with the following components in order to help stabilize your spine:

- a **patient-specific 3D printed surgical guide (MySpine)** to help placing implants accurately, safely, and quickly
- a **pedicle screw (M.U.S.T. - Medacta Universal Screw Technology)** that is inserted into the pedicle of your vertebrae
- a **rod (M.U.S.T.)** that helps connect the individual pedicle screws to form a rigid construct

NOTICE: the M.U.S.T. Pedicle Screw System is intended for use in skeletally mature patients



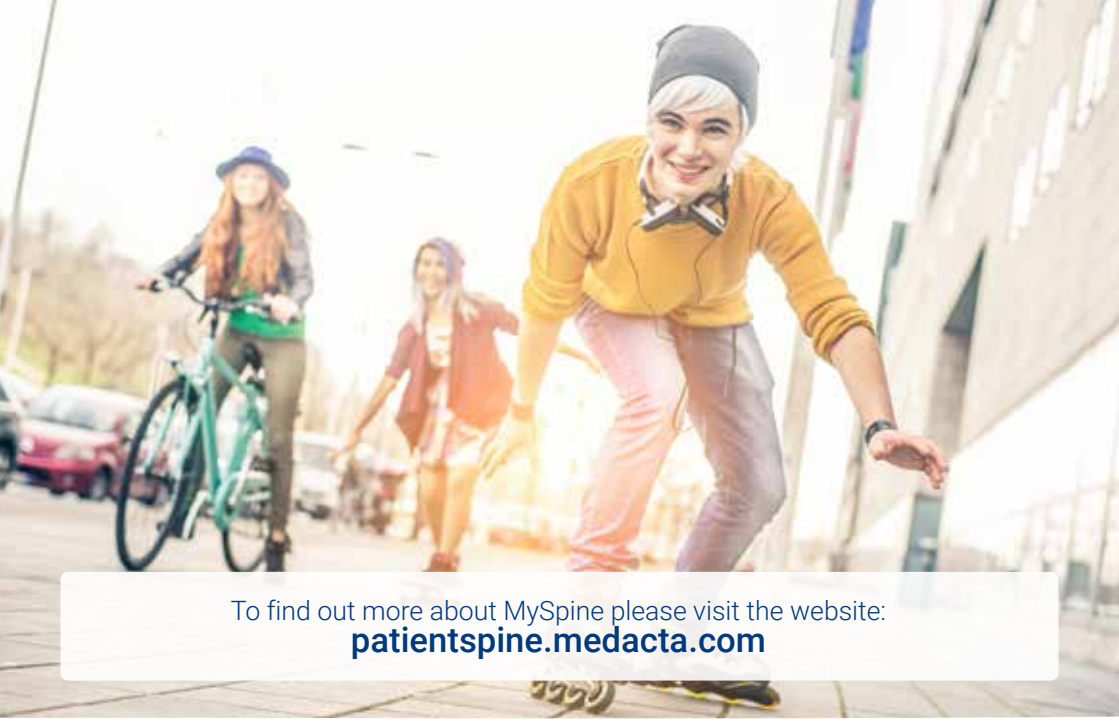
Why a Patient-Specific Scoliosis Correction?

Patient-Specific scoliosis correction is one of the **most accurate and safest options** for patients with scoliosis affecting their spine.

The benefits of a successful Patient-Specific scoliosis correction include:

- 1. LOW RADIATION EXPOSURE FROM START TO END**
- 2. DELAY, AND IN SOME CASES, AVOID THE NEED OF A MORE EXTENSIVE SPINAL SURGERY**
- 3. REDUCTION IN PAIN, RECOVERY OF MOBILITY, AND IMPROVEMENT IN YOUR QUALITY OF LIFE**
- 4. POTENTIAL FOR A SHORT HOSPITAL STAY AND FAST RECOVERY**





To find out more about MySpine please visit the website:
patientspine.medacta.com

"My daughter had a patient-specific scoliosis correction surgery and is doing better than ever before!

It was very comforting to see the surgeon pre-operatively plan the surgery!"
E.L., USA

"Having your child need surgery is a scary experience, but being able to see the work and preparation that was done before the surgery really made me trust what was happening. I felt like I was in good hands!"
R.S., USA



Medacta International SA
Strada Regina - 6874 Castel San Pietro - Switzerland
Phone +41 91 696 60 60 - Fax +41 91 696 60 66
info@medacta.ch