



## DID YOU KNOW?

Pain from scoliosis may be similar to pain from osteoarthritis. Your doctor will be able to best assess if the pain is generated by scoliosis.



Southwest Neurospine Institute is the first in El Paso to offer a minimally invasive procedure using the Mazor Robot. This advanced technology, combined with the expertise of Dr. Martin, may provide less rehabilitation from surgery and get patients back to normal activities much more quickly.

If you suffer from back pain, log onto [www.swnsi.com](http://www.swnsi.com) to learn more about robotic spine surgery.

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For more information on spine surgery visit  
[www.MazorRobotics.com](http://www.MazorRobotics.com)

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# Reconstructive Spine Surgery



**Renaissance**  
From Art to State of the Art

[www.MazorRobotics.com](http://www.MazorRobotics.com)



# Reconstructive Spine Surgery with Mazor Robotics Renaissance™

## What is reconstructive spine surgery?

Spine disorders such as adult scoliosis and kyphosis are usually treated by reconstructive spine surgery. Scoliosis is a sideward curving of the spine, while kyphosis is characterized by a forward curve that hunches the back.



Anterior view of 1. normal spine;  
2. scoliotic spine

Side view of 3. normal spine;  
4. kyphotic spine

Scoliosis and kyphosis can occur together and are caused by chronic degenerative conditions such as disc degeneration and osteoporosis (loss of bone density). These conditions can cause vertebrae to collapse, resulting in compression fractures.

A common symptom of vertebral compression fractures is lower back pain. Some patients also experience leg pain while standing or walking, and often the pain is greater in the morning. A change in posture, especially stooping forward, is common with multiple vertebral compression fractures.

## Conservative or surgical treatment?

For milder cases, your doctor may recommend conservative (i.e. nonsurgical) treatment such as physical therapy and anti-inflammatory medication. If the symptoms become debilitating or the pain becomes intolerable despite conservative treatment, your doctor may recommend surgery to straighten and fuse the spine. This is achieved by placing implants, such as screws and rods in and along the spine to fixate it, and adding bone grafts and specialized spacers between the vertebrae to facilitate the fusion of the bones together.



## What are the advantages of surgery with Renaissance?

Reconstructive spine surgery requires planning and precision. Osteoporosis, which is common in adult patients, adds to the challenges of spine surgery. Renaissance™ allows the surgeon to plan the perfect surgery, taking all the clinical factors into consideration. During the operation, the plan serves as a blueprint for Mazor Robotics Renaissance to guide your surgeon to place the implants with great accuracy. Renaissance only guides; your surgeon is in full control of the surgery itself.

Whether you have already had back surgery or are considering it for the first time, reconstructive spine surgery with Mazor Robotics Renaissance could help correct your spine disorder and relieve your pain, so that you can get back to doing the things you love.



**Ask your doctor if Mazor Robotics Renaissance Spine Surgery is right for you.**