

→ **Did you know?**

Back pain is the leading cause of disability between the ages of 19 and 45 and the second most common cause (after headaches) of missed work days.



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

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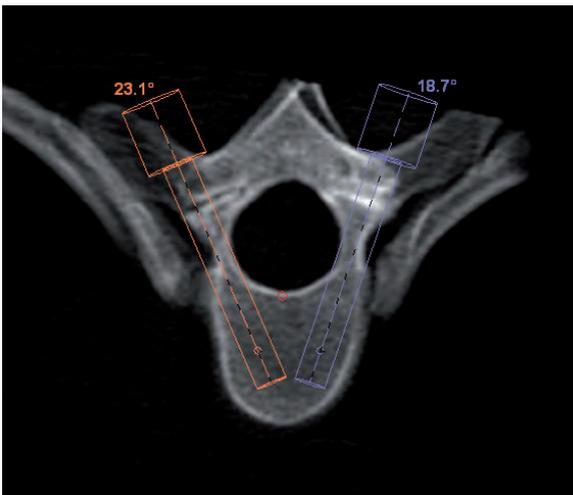
# Spinal Fusion



# ➔ Spinal Fusion with Mazor Robotics

## What is spinal fusion?

Spinal fusion is the process of 2 or more vertebrae fusing together, immobilizing them to create a single continuous bone. It is used to treat broken vertebra, a spinal deformity, spinal weakness, spinal instability, or chronic low back pain.



Surgeons use a bone graft—extra bone tissue, either from the patient (autograft) or a donor (allograft)—in conjunction with the body's natural bone growth (osteoblastic) processes so that spinal fusion can occur. This bone graft may be in a preformed shape or contained in a cage made of plastic, carbon fiber, or metal. Surgeons often use implanted plates, screws, or rods to hold the vertebrae and graft to promote healing. Once this bone graft heals, the vertebrae are permanently fused.

## What type of surgery is needed for spinal fusion?

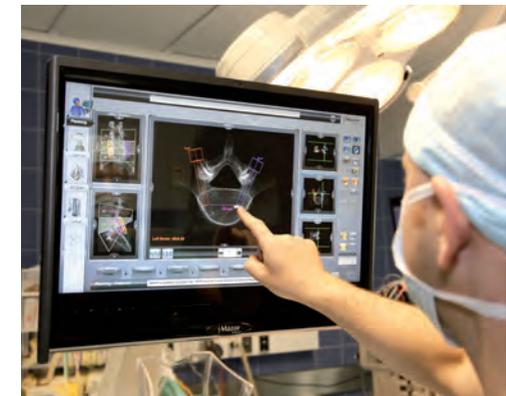
Surgeons sometimes perform this procedure in open surgery, creating an incision that provides a direct line-of-vision to the vertebra, which simplifies the process of inserting the bone graft and implants. However, this also results in damage to surrounding healthy tissue, large scars, and postoperative pain.

Minimally invasive surgery (MIS) uses smaller incisions and usually results in less postoperative pain and faster recovery. However, MIS requires many intraoperative X-rays to compensate for the surgeon's lack of direct line-of-vision, which usually makes it less accurate than open surgeries.

➔ Mazor Robotics technology enables surgeons to overcome these limitations and perform precise spinal fusion with minimal radiation.



## What are the advantages of spinal fusion with Mazor Robotics technology?



Mazor Robotics technology guides the surgeon's tools and implants in both open and minimally invasive surgery (MIS), while ensuring the highest levels of accuracy of implant placement. It decreases soft tissue trauma, preserving surrounding healthy tissue. This results in fewer complications, less blood-loss, minimal scars, less pain, faster recovery, and quicker return to daily life.

With Mazor Robotics' system the surgeon requires fewer intraoperative images, which means less radiation exposure.

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