

→ **Did you know?**

Vertebral compression fractures are often a result of osteoporosis, a disease where the mineral density of the bone is reduced. Even mild stress such as coughing can create a fracture of an osteoporotic vertebra.



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For more information on spinal surgery visit
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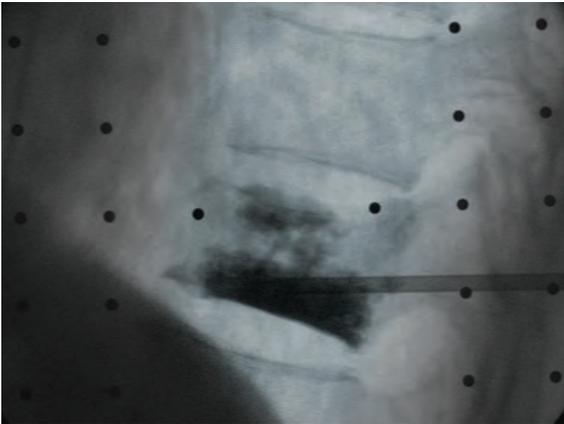
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Vertebroplasty



➔ Vertebroplasty with Mazor Robotics

What is vertebroplasty?



Vertebroplasty is usually an outpatient procedure with local anesthesia for treating compression fractures of the spine—to stabilize the fracture and relieve the pain caused by the fracture. It can also help prevent further weakening of the spine. Vertebroplasty is a minimally invasive procedure, performed through a small incision that requires a high level of precision.

What happens during the vertebroplasty procedure?

During the vertebroplasty procedure, synthetic bone cement is injected through a needle into the fractured vertebra to fill the spaces in the bone. After the needle is removed, the bone cement hardens in 10 minutes, stabilizing the fractured vertebra. Finding the right spot for injection can be challenging. Surgeons must accurately place the needle in the precise location to avoid spillage, which can create pressure on the nerve canals. To compensate for the lack of direct visual accessibility, surgeons usually need high levels of X-ray radiation to guide them throughout the procedure.

What are the advantages of vertebroplasty with Mazor Robotics?

Mazor Robotics technology allows surgeons to create a preoperative surgical blueprint, which is a map for pinpointing the precise location for injecting the bone cement. In the operating room, Mazor Robotics' system guides the surgeon's tools with minimal radiation.

In a recent clinical study of osteoporotic vertebroplasty, Mazor Robotics technology significantly reduced radiation exposure and its high level of accuracy enabled performing vertebroplasty in cases not previously possible such as complicated burst fractures; it also reduced procedure time for multiple fractures and enabled better patient outcomes.*

*Source: Silberstein, B. Bruskin, A. Alexandrovskii, V. Robot guided surgery in treatment of osteoporotic fractures. Presented at: European Federation of National Associations of Orthopaedics and Traumatology (EFORT) 2011 Annual Congress; June 1-4, 2011:abs 1097.



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