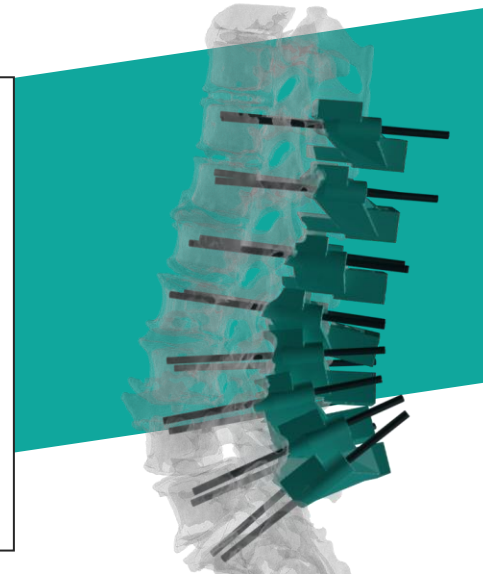


Degenerative scoliosis

Lumbar degenerative disease is a term used by physicians to describe the natural degeneration of the lumbar spine overtime.

It includes conditions such as **spondylosis** (degeneration of the spinal discs as in osteoarthritis), **spinal stenosis** (narrowing of the spinal canal and the openings through which nerve roots exit) and **spondylolisthesis** (forward sliding of the vertebrae).

In those cases where surgery is required, the use of **TOR JIG® S** system enables an easy and fast pedicle screws placement.



Surgeon	Dr. Antonio Luis Mostaza Saavedra
Hospital	San Juan de Dios (León)
Patient	80 years old man with dorsolumbar pain and functional impotence, gait claudication, as well as coronal and sagittal tilt to the left.
Pathology	Degenerative scoliosis
Treatment	Descompresión radicular, artrodesis transpedicular, partial scoliosis correction T11-S1.
System used	TOR JIG® S : Anatomical biomodel and 8 personalized surgical guides



TOR JIG® S

Personalized surgical guides system for pedicle screws placement

Surgical planning

- Screws position and orientation are marked according to the surgeon's prescription.
- 3D anatomical model is made.
- Personalized surgical guides are designed for each case. Finally, the biomodel and the guides are manufactured via 3D printing.

Surgical process

The main objective of this type of surgery is to achieve the correct positioning of the spine, so that the patient's pain is reduced, so that he/she can recover his/her daily activity as soon as possible. The **TOR JIG S** system facilitates the proper placement of the pedicle screws quickly and accurately, a key stage during surgery.



Performance

After surgery, the patient immediately regained what would be considered normal positioning. As a result, the patient's pain is reduced and walking is improved.



Information about the device. Custom Made Medical Device: Device made to be used on a patient by a practitioner for the surgical treatment of a pathology, being an invasive surgical product, transient use class IIa. Rule 6, Annex VIII, MDR.