

## 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.



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



Preoperative CT



Postoperative CT

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.