

TITLE: NEW ADVANCED THERAPY FOR SPINAL FUSION SURGERY

FIELD OF INTEREST

Biomaterials (Advanced Therapy, Surgery, Bone, Cells)

CLINICAL NEED

Certain spinal pathologies such as disc disease, spondylolisthesis, etc., produce a situation of regional instability that may eventually develop a picture of pain and nerve involvement of adjacent structures. The treatment of these diseases is based on the fusion of the segments affected by posterolateral fusion of the transverse apophysis of the vertebrae. The material considered "gold standard" to get a good fusion of the affected segments is the iliac crest autograft. However, the use of autograft is limited to a certain volume and its use is not without complications up to 30% of patients. That is why in recent years it has been investigated the use of different alternatives. Among them, the demineralized bone matrix, or replacements of different combinations of calcium phosphate. All these methods have their limitations, and none has achieved similar rates to or higher than autograft fusion except for BMP.

DESCRIPTION OF THE INVENTION

Method for Spinal fusion surgery based on patient's osteoblast-enriched allografts.

TECHNOLOGY KEYWORDS

Arthrodesis, Spine, Allograft, Fusion, Osteoblast, Blood

IPR STATUS

Patent application number: P201430629.

Applicant: IIS-FJD.

TYPE AND ROLE OF PARTNER

Looking for technological partners for going through clinical trials as well as commercial partners interested in licensing.

Contact details:

Innovation Unit

e-mail: irene.ruano@fjd.es

Phone number: 0034-915504800 Ext.3455