

KNEE PROSTHESIS WITH ADJUSTABLE MOBILITY

Description:

Knee prostheses achieve, most of the time, a spectacular improvement in the quality of life of patients with alterations of this joint in whom other therapeutic measures have failed. However, some patients may continue with the disorders prior to this surgery or develop new problems that will often require the removal of the implanted prosthesis and replacement with another. Sometimes, to achieve a stable and painless knee, the extracted prosthesis can only be replaced by another device that completely and permanently fixes the joint (arthrodesis). Situations in which temporary immobilization of the knee is required after a revision surgical procedure for a replacement arthroplasty are also not uncommon. Prosthetic revision surgery is today the main problem in orthopedic surgery services, not only in terms of frequency, technical complexity or costs, but also in the high rates of morbidity and mortality of patients undergoing these procedures. Despite this, there is currently no model of knee prosthesis that, once implanted in the patient, either primarily or by revision, allows the angle of rotation of this joint to be adjusted at will. Thus, the present invention consists of a knee prosthesis with the option of regulating the angle of rotation allowed once it has been implanted in the patient, either from a total block in extension (equivalent to an arthrodesis effect) to virtually any angle. chosen, requiring only one or two small incisions in the patient's knee to achieve it.

Keywords:

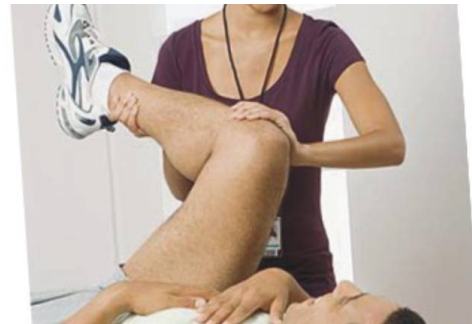
[Prosthesis](#), [Cirujia](#), [Medicine](#), [Knee](#)

Sectors:

[Health](#)

Areas:

[Therapeutics](#), [Quality of life](#)



Advantages:

Among the advantages of the present invention, the following stand out: * Possibility of carrying out a complete and permanent fixation of the knee joint (arthrodesis), when the clinical situation of the patient with this prosthesis requires it, without the need for prior extraction of the prosthetic components. * Possibility of temporary fixation of the knee joint after reconstructive surgical procedures (failure of the extensor apparatus, osteoarticular defects, ...), thus avoiding the inconveniences of external immobilization devices. * Possibility of performing a progressive but controlled mobilization of the knee joint after reconstructive surgical procedures that require it. * Possibility of performing the turning angle regulation procedure quickly, easily and safely, by means of one or two small incisions in the knee, which represents a considerable reduction in surgical risk for the patient. * Possibility of adapting this rotational angle regulating mechanism without the characteristics or requirements, general or specific, currently demanded of a modern knee replacement arthroplasty being modified in any way.

Uses and Applications:

The present invention belongs to the field of medicine, specifically to the area of knee prostheses, being a new prosthesis with more advantages compared to existing ones.

Patent Number: ES2429390B1

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Filing Date: 29/03/2012

Protection Level: National (Spain)

Processing Status: Spanish patent