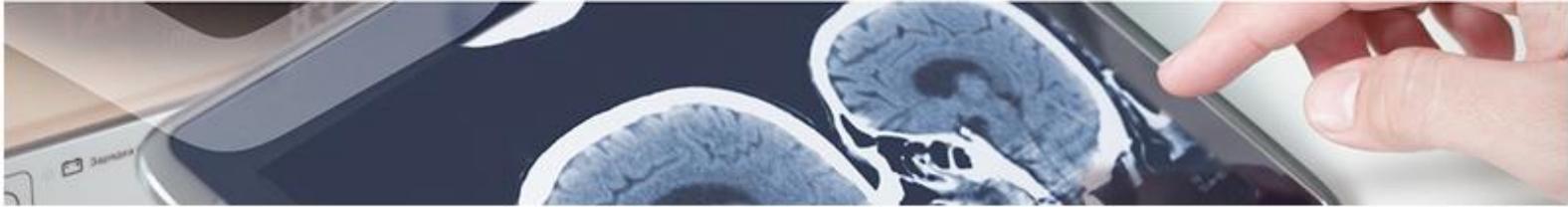


Medical Devices

Device for assessing the subtalar joint

A research group of the Andalusian Public Health System, in collaboration with the University of Seville, has developed an innovative medical device that allows a full assessment of the subtalar joint in patients with suspected instability-pain syndrome and in healthy subjects.



Description

The subtalar (or talocalcaneal) joint is responsible for providing , in states of both motion and rest, stability to the rearfoot, with the involvement of ligaments, tendons and muscles. This structure provides balanced support to the foot, enabling it to adapt to the ground it stands on, both at rest and in motion, and when bearing additional weight, running, jumping, etc.

Instability of the subtalar joint is often associated with instability throughout the ankle. 10-30% of ankle sprains (whose incidence is estimated at one case per 10,000 population per day) result in chronic ankle instability which, among cases treated surgically, 10-25% are associated with a painful instability of the subtalar joint. These surgeries fail in a high percentage of patients.

Due to the proximity between the ankle joint and the subtalar joint, the exploration of the latter is almost imperceptible, even by expert hands. There are no devices currently geared specifically to the study of the subtalar joint. Additionally, existing devices for general explorations of the foot and ankle entail extremely complex alternatives with high purchasing costs and significant human, infrastructural and energy resourcing needs.

There is, therefore, a need to provide alternatives focused exclusively on the study of the subtalar joint that are of low cost and that avoid the enormous complexity of the devices currently on the market.

1. The ability to conduct a full pathomechanic assessment of the subtalar joint, both in patients with suspected unstable-pain syndrome and in healthy subjects.
2. The ability to reproduce, with the patient in supine decubitus position, the axial load on the patient's foot under real conditions.
3. The ability to perform simultaneous studies of both limbs.
4. It generates data useful for diagnosing, prognosing or monitoring the evolution of instability-pain syndrome of the subtalar joint.



Intellectual Property

This technology is protected by patent.



Aims

We are looking for a partner interested in a license and/or a collaboration agreement to further develop and exploit this innovative technology.



Advantages



Classification

Area: Medical Device