Medical Devices

Anchoring device for pelvis fastening

An Andalusian research group has developed an anchoring device particularly adapted to vertically and stably attach a human pelvis in a universal testing machine, thus constituting an accurate and reliable model for conducting research and biomechanical studies.

Oficina de TRANSFERENCIA DE TECNOLOGÍA
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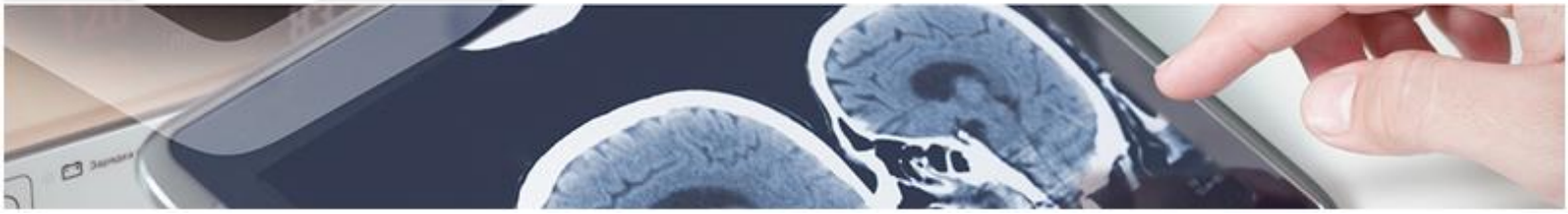

Description

Pelvic fractures are especially relevant for the traumatologist as they often occur in the context of politraumatic patients. Trauma patients require a multidisciplinary treatment with high consumption of hospital resources. However, early intervention can lead to problems in the treatment of other associated diseases. Pelvic fractures are frequently associated with injuries to other organ or systems. These fractures, by themselves, are important causes of morbidity and mortality due to bleeding. The measurement methods used are generally varied, using different measurement techniques and units whose results are difficult to interpret and the information obtained is incomplete or biased.

The present technology is an anchoring device for fastening a preferably human, upright, safe and stable pelvis which allows obtaining an accurate, reproducible and highly reliable model for biomechanical studies and research projects on human pelvis model. This device is intended to be used in a universal testing machine, through which a measurement of different parameters and generation of offsets by applying axial loads on the pelvis under study are possible. It basically comprises two anchors: an upper attachment and a lower attachment, having two points of fastening.

Advantanges

1. Adapted from a pelvis to a universal testing machine allowing a physiological position thanks to a correct bond between the bone (vertebrae, sacrum and femur), the steel of the anchor device and the testing machine.
2. Angulation and deformity of the pelvis control when the universal testing machine applied a load.
3. Lateral displacements of both femurs by applying axial load.
4. Correction of bone defects due to non-uniformity of the lengths of the femurs of the pelvis under study.

Intellectual Property

This technology is protected by a Spanish 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.

Classification

Area: Medical device
Pathology: Traumatology/ Muculoskeletal Disorders

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