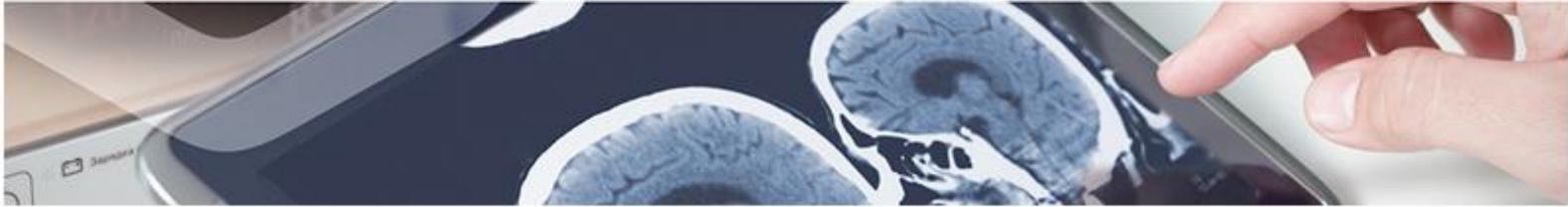


Medical devices

Device for the immobilization and fastening of bedridden patients

A research group of the Andalusian Public Health System has developed a device designed to immobilize patients who remain long time confined to bed in a certain and variable position depending on prescription.



Description

Patients requiring prolonged periods of time confined in bed are common at hospitalization units. Furthermore, these patients often need to maintain a certain tilt angle because of medical prescription as well as to avoid slipping off of the bed, wrong postures and patient falls.

Currently, there are some fastening devices specially designed for this purpose, such as Clipbelt abdominal clamp bands or Vettel bed fasteners. However, these technologies have several disadvantages. On the one hand, they are not compatible with certain positions of the patient's bed, who tends to slip off of the bed when its tilt angle is increased. On the other hand, these systems are not useful when a compression of the chest, abdomen or pelvis of the patient is not recommended.

Therefore, there is an unmet need of providing a medical device which allows the immobilization and fastening of patients who are confined to bed for long periods of time. Furthermore, this device should solve the problems of current technology, mainly derived from the bed tilt bed required by prescription.

The present technology describes a novel patient restraint device for bedridden patients that overcome the above drawbacks by two main features: a truss is used to fasten the patient which is fixed to the headboard of the bed instead of to the sides.



Advantages

1. The present device does not compress the abdominal region of the patient due to its design.

2. It allows holding the patient with different bed tilt degrees, avoiding that he falls down when the bed is inclined.
3. Moreover, this technology enables the patient to adopt a position suitable for non-invasive mechanical ventilation, avoiding positions that would increase the risk of aspiration, inadequate ventilation, and thus, the risk of ventilation failure. This is especially advantageous in certain situations when different bed tilt degrees are prescribed, for instance, in patients with head trauma and increased intracranial pressure.
4. The truss may be made of any common material for this type of clothing.



Intellectual Property

This technology is covered by a European patent application.



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

Activity/Type: Medical device
Pathology: Other
Technology: Other