

Positioner for placing infants in the prone position

Positioner device specifically designed for keeping neonates in the prone decubitus position. This positioner adapts to the body size and shape of newborns and promotes their neurodevelopment and specific respiratory characteristics.

Description and essential characteristics

A positioner that enables the correct placement in prone decubitus of newborns undergoing monitoring. The device is specially designed to be used with preterm infants and infants with respiratory distress.

The device enables the correct positioning of infants who have these problems, encompassing care focused on neurodevelopment and their specific respiratory characteristics.

The device essentially consists of a base (made of a smooth, hypoallergenic material, given that it remains in contact with the neonate's skin) on which are arranged two additional components: a chest part and a pelvic part.

The chest part has an elongated tubular configuration and is designed to support the neonate's chest. The neonate's head is placed on the base. The neonate's head and chest are thereby placed at different heights.

The chest part also has adjustable positioning above the base, while remaining attached to the base (when the device is being used) through specific attachment components.

The pelvic part has a curved tubular configuration that adapts perfectly to the shape of the neonate's pelvis. This part also has a harness that ensures correct placement of the neonate in the device and maintains the neonate's position.

The chest part and pelvic part are not attached to each other.

Competitive advantages

The positioner is simple and inexpensive to manufacture and is constructed of a mouldable material.

Furthermore, the device helps achieve the required anatomical and functional respiratory conditions for infants with the previously mentioned problems.

In particular, this device allows for the stabilisation of the lower rib cage, facilitating the contraction of the neonate's diaphragm, promoting abdominal movement and increased abdominal pressure. The device also helps perform care focused on the neonate's neurodevelopment.

In summary, the device:

- Promotes neurodevelopment
- Improves respiratory problems (for spontaneous respiration and assisted respiration conditions)
- Increases tolerance
- Reduces the respiratory rate thereby requiring less ventilatory support (in cases that have assisted ventilation)

Type of collaboration sought

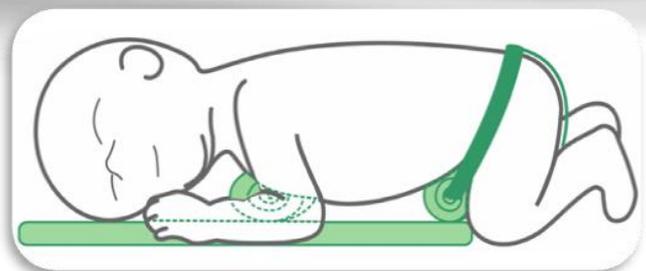
Cooperation is sought with any Party interested in partnering, licensing or investing in the technology, whether it be an investor to fund the project, a partner interested in getting involved in any of the various phases until its placement on the market, a licensee, etc. The organisations potentially interested in this technology are those devoted to the manufacture, commercialisation and/or distribution of healthcare products, particularly medical devices; as well as universities, hospitals, research centres and all types of institutions engaged in neonatal care.

Current stage of development

A hand-made prototype has been developed and validated.

Current state of intellectual property

Spanish utility model U201330102, granted in May 2013.



For further information, please contact

Innovation Unit
Foundation for Biomedical Research of La Paz University Hospital (FIBHULP) - IdiPAZ
Telephone number: + 34 91 207 12 34
e-mail: innovacion@idipaz.es
Web: www.idipaz.es