

CRAWLISKATE

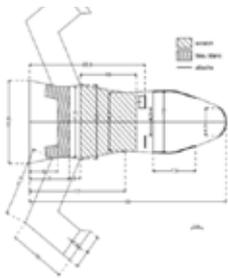
ERG\NEO

L'AVENIR EST FAIT D'AUDACE

The **Crawliskate** is an innovative medical device to stimulate mobility as soon as birth in order to prevent motor disability in at-risk infant as it is the case in premature neonates.

PRESENTATION

There are about 1M premature newborns / year (EU + US). 40% of babies born before 32 weeks will develop a more or less severe motor dysfunction. Stimulating the active motricity of these children as early as possible and on a regular basis, when their sensory-motor system is at its maximum plasticity, is a key factor in the prevention of future deficits in their posture and mobility. The Crawliskate is an innovative medical device especially adapted to such stimulation, designed for babies from one day to 5 months of age, which allows them to actively exercise posture, motor skills and propulsion on a daily basis. Comfortably and securely wrapped prone on top of the device, the infant can not only move its arms, head, trunk, and limbs, but also propel itself in any direction thanks to small ball-bearing-style wheels secured to the underside of the skateboard deck.



Visual sketches
Credit : Erganeo

Infant development - Active Mobility - Preterm birth - Propulsion
Early Intervention - Brain Plasticity

COMPETITIVE ADVANTAGES

- Allow's baby comfort Fast to use
- Appropriate for child with special need
- Can be used by therapist or at home
- Facilitates ecologic motor function
- Allow the infant self propulsion
- Allow daily and early intervention

PUBLICATIONS

[1] MV Dumuids, D I Anderson, J Provasi, M Strassel, V Biran, M Barbu-Roth. What early crawling tells us about motor development in very premature and term-born infants: comparison at term & 2 months later. Outstanding award at the International Conference on Infant Studies (ICIS), Glasgow 2020. [2] Forma V., Anderson D.I., Provasi J. , Soyez E., Martial M., Huet V., Granjon L., Goffinet F., Barbu-Roth M. (2019). What does prone skateboarding in the newborn tell us about the ontogeny of human locomotion? Child Development, 90 (4), 1286–1302. DOI: 10.1111/cdev.13251

INTELLECTUAL PROPERTY

Patent granted European : EP 2 974 624 A1, 01/2016,
International : WO201609022_A1

DEVELOPMENT PHASE

- ✓ Pilot clinical trial on healthy children.
- ✓ Pilot clinical trial demonstrating the beneficial effect. of training on premature infants in progress.

APPLICATIONS

- Development of infant postural control
- Stimulating infant cative mobility
- Promote balance in the flexor-extensor muscles of the legs and arms
- Development of infant self locomotion
- Balancing mobility of the right and left hemi bodies

CONTACT

+33 (0)1 44 23 21 50
industriels@erganeo.com
Ref. project : 106