
Homebalance: Therapeutic System for Home-Based Therapy

Homebalance
Balance disorder
Home-based therapy, stability
Stabilometric platform

"Our interactive rehabilitation aid can be used to rehabilitate patients after serious injuries, brain damage, cerebral palsy and geriatrics."

Homebalance: Interactive System for Home-based Therapy of Balance Disorders

- Interactive rehabilitation tool aimed for patients with balance and motor skill disorders of different origins
- It can be used in rehabilitation of patients after brain damage both in acute and chronic state of the disease, while the conventional treatment is no longer effective
- It can be employed in pediatrics, e.g. in case of a post-traumatic condition or cerebral palsy
- It can be applied in geriatrics, mainly for prevention of fall due to stability disorder

The System Offers

- Training of stability by shifting the center of gravity on a stabilometric platform
- The therapy includes active repetitive game-like trainings
- Standing on the stabilometric platform, the patient is instructed to move the displayed item by shifting their center of gravity
- Tasks are also combined with cognitive training
- The game can also be played by tilting the tablet with the patient's hands (upper limb training of coordination)
- Possibility to monitor a patient during his or her own home-based therapy

System Components

- 10,1" Tablet computer with separate power supply that can be connected to external display/TV
- Diagnostic and therapeutic software for both
- medical facilities as well as
- for home-based therapy
- Portable stabilometric platform with separate power supply
- Size 53,2 x 31.6 x 5.3 cm
- Weight 3.5 kg
- Weight limit 150 kg

The Therapy Has a Beneficial Effect on

- Stability
- Coordination
- Spatial orientation
- Length of reaction time
- Memory
- Attention
- Motivation for regular exercise
- Psychological well-being of the user

Availability

- Diagnostic and therapeutic system Homebalance has been certified as a Class I medical device.
- The system was put on the market in the Czech Republic and Slovakia in 2016 by Homabalance s.r.o. (spin-off company of the Charles University in Prague).

- Thanks to its certification it is, therefore, possible to buy this system and use it within a healthcare sector.
- The application can be also found in the field of social services, for example in houses with nursing services.
- We plan to expand its market to foreign countries in the near future.

Cooperation

Selected workplaces are involved in studying the effects of the therapy and consultations are made with healthcare professionals. These include:

- Department of Rehabilitation Medicine of the First Faculty of Medicine of Charles University and General University Hospital in Prague
- Neurological Clinic of the 2nd Faculty of Medicine and Motol University Hospital
- Rehabilitation Center Kladruba
- MS Center of the First Faculty of Medicine and General University Hospital in Prague.

The results are continuously presented at scientific journals and conferences.

Are you interested in taking part of scientific research activities?

Are you interested in a commercial partnership?

Do not hesitate to contact us!

Spin-off Company and Research Results Commercialization Center of the First Faculty of Medicine, Charles University in Prague.

Are you interested in this expertise?

Please contact CPPT UK

Web: www.cppt.cuni.cz/

Mail: transfer@cuni.cz

Phone: +420 224 491 255

Experts and their department

MUDr. Markéta Janatová

Spin-off Company and Research Results Commercialization Center of the First Faculty of Medicine

Web: <http://www.homebalance.cz/cz.html>