

Erigo[®]



**Accelerate early rehabilitation of neurological patients
and prevent complications of long term immobility**

We move you

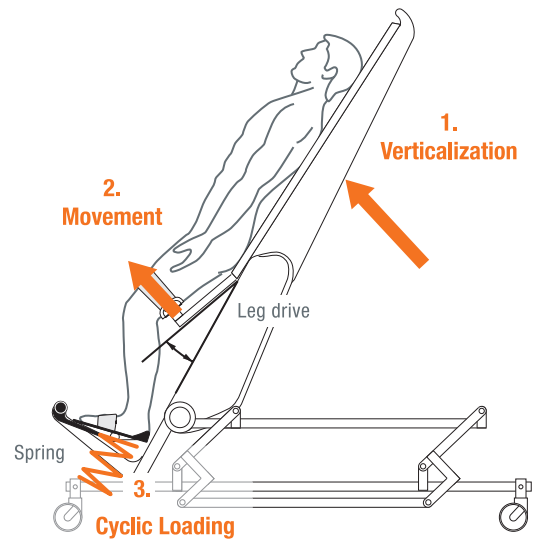
Verticalize and mobilize neurological and bedridden patients to accelerate recovery and minimize complications.

The Erigo® combines a continuously adjustable tilt table with a robotic stepping mechanism, enabling early, intensive therapy.

Clinical challenge: Mobilization and early rehabilitation of neurological patients

- Patients confined to prolonged bed rest endure reduced cardiac output, reduced oxygen uptake, muscle atrophy and skeletal demineralization, and the risk of injury when eventually elevated.
- The function of many organ systems improves when patients assume an upright position and begin movement therapy.
- After neurological injuries and long bed rests, patients have to be re-adapted slowly to an upright position.
- Static uprighting of patients on conventional tilt tables is often followed by complications with blood circulation.

Therefore clinics need a therapy solution that can slowly adapt and challenge bedridden patients as soon as they are stabilized.



Combined therapy, operable by a single therapist

The Erigo simplifies single-therapist administration of three established therapies by combining them in one device:

- 1 **Verticalization** of the patient at a 0-80 degree tilt range with
- 2 intensive **movement** therapy and
- 3 **cyclic loading** and unloading of the lower extremities.

The Erigo combines simultaneous dynamic leg movement and physiological loading of the lower extremities – all while the patient is tilted to the most vertical position tolerated.

Patients can be easily mobilized and accustomed to an upright position at an early rehabilitation stage.



Movement

Easily adjusted to each patient's tolerance of tilt angle and exercise effort

- Secure patient to the table with patient harness.
- Fasten each thigh to the drive mechanism with provided cuff.
- Fix patient's feet into two variable foot plates with integrated springs which apply an adjustable load to the sole while hip and knee are extended during stance phase.
- Adjust tilt angle to patient's cardiovascular and neuro-muscular condition.
- Use touch screen computer to adjust cadence and range of motion.
- Save training data and settings for each patient.

Enables individually adjusted therapy to meet patient specific therapy needs.



Cyclic loading

The Erigo® therapy provides effective patient mobilization at an early rehabilitation stage.



Benefits of the Erigo®

- Combines verticalization, leg movement and loading
- Supports and facilitates patient mobilization
- Activates the cardiovascular system
- Intensive afferent sensory stimulation
- Repetitive physical motion reduces spasticity in some patients
- May reduce risk of secondary complications caused by immobility
- May improve alertness in vegetative state patients
- Relieves physical strain on therapists
- Easy to use

Easily integrated in clinical settings.

An ideal addition to in-patient rehabilitation and long term care facilities.



Automated operation, programmable to patient needs

The Erigo provides easy handling for therapists and automates all main functions:

- A manual control switch allows for automatic height (45 to 78 cm) and tilt (0 to 80 degrees) position adjustments.
- A touch screen allows therapists to adjust leg movement (speed and range of motion) and additional functions. An asymmetric mode enables setting of range of motion for each leg individually.
- Patient settings and training information such as duration and number of steps are displayed during the training and can be saved to document progress.
- Comfortable patient transfer out of a wheelchair or from a bed thanks to the adjustable height and mobile leg cuffs.

Successfully applied in leading rehabilitation centers

The Erigo is easily integrated in various clinical settings and is successfully used for the mobilization of neurological patients in the early rehabilitation phase or of long-bed-rest patients (e.g. coma vigil patients).

Dr. Friedemann Müller MD, MSc; Head Physician Neurology, Neurological Clinic Bad Aibling, Germany, reports on his experience with the Erigo in *Brain Journal*:

*"Experience at our institution suggests this system may alter the way in which patients are treated in intensive care units, as well as enhance early and intensive rehabilitation protocols that ideally would begin as soon as the patient is stabilized." **

* Müller F. New technologic approach to minimizing immobilization effects of patients with brain injury. Published in International NeuroTrauma Letter, IBIA, Issue 01, 2007.

Technical data

Dimensions (L x W x H): 260 x 100 x 270 cm

Required space (L x W): min. 400 x 400 cm

Required room height: min. 270 cm

Mains connection: 230 V / 50 Hz or 120 V / 60 Hz

Medical device approvals/registrations in compliance with European, US and Canadian Medical Device Regulations.



Erigo therapy of a traumatic brain injury patient.
Courtesy of Landeskrankenhaus Hochzirl, Austria.

Product Disclaimer

All Hocoma products are medical devices and must be used in strict adherence to the User Manual; failure to do so may result in serious personal injury. It is strongly recommended that you regularly consult Hocoma's website (www.hocoma.com/legalnotes) for the latest available information. Please contact Hocoma should you have any questions.

Use only under the supervision of qualified medical personnel. However, certain Hocoma products are marketed for home use and must be strictly used according to the recommendations of your medical care provider who is knowledgeable about your specific needs. Consult the User Manual and Hocoma's website (www.hocoma.com/legalnotes) for appropriate product designation. Failure to obtain and follow the recommendations of your medical care provider may result in serious personal injury.

This information provides details about medical products which may not be available in all countries and may not have received approval or market clearance by all governmental regulatory bodies throughout the world. Nothing herein should be construed as a solicitation or promotion of any product or of an indication of any specific use for any product which is not authorised by the laws and regulations of the country where the reader of this information resides.

Hocoma International Headquarters:

Hocoma AG

Industriestrasse 4

8604 Volketswil / Switzerland

Phone +41 43 444 22 00

E-mail info@hocoma.com

www.hocoma.com

With the compliments of: