



THE MOST VERSATILE END-EFFECTOR  
SOLUTION FOR TREATMENT OF LOWER  
EXTREMITIES DISFUNCTIONS





# THE LAMBDA

Intensive and selective training of all gait impairments as well as feedback for the patient are doubtlessly central elements of a successful rehabilitation. An active-assisted, repetition-based and above all versatile mobilization from a very early stage are key elements to achieve the best possible outcome for patients.

The innovative therapy robot Lambda makes all this possible. Analytical, task-oriented, playful and motivating for patients. Economical, effective and intuitive for users.



Neurological



Musculoskeletal and Orthopaedic



Geriatric



Post-covid

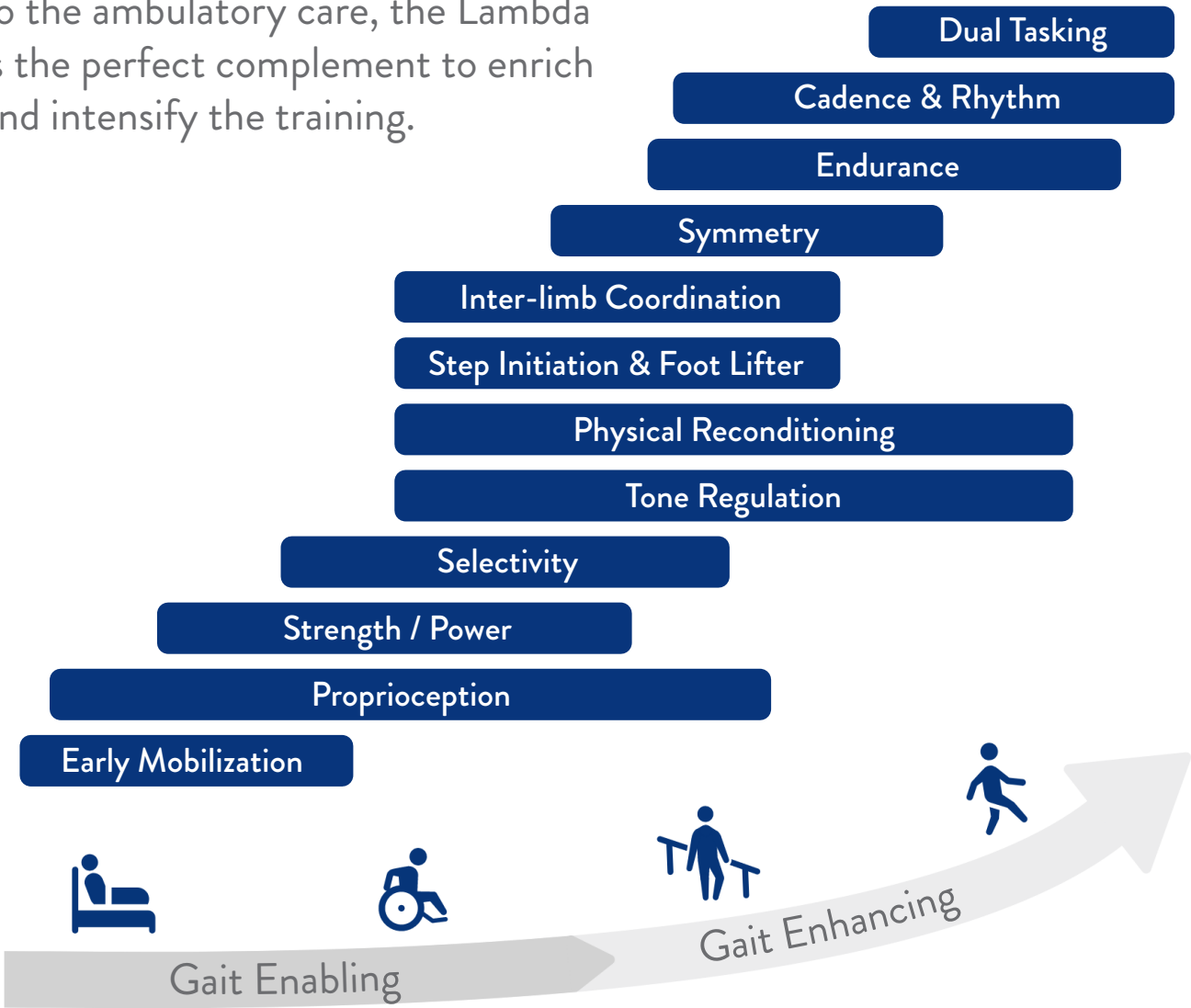


Cardiopulmonary



# CONTINUUM OF CARE

From the early phases of rehabilitation to the ambulatory care, the Lambda is the perfect complement to enrich and intensify the training.



" With the Lambda, we are able to do specific exercises to restore rhythmic movement and inter-limb coordination to support the training of the gait. "

Dr. Franco Molteni, Medical Director,  
Villa Beretta Rehabilitation Unit,  
Costa Masnaga, Italy



# VERSATILITY

The Lambda offers 50+ customizable therapy modes with a 3 minutes setup. The versatility of training and exergames ensure to target the patient needs and avoid boredom and frustration.

Movements

Combined

Press Leg

Cycling

Elliptical

Isolated

Ankle

Knee

Hip

Exergames

Ankle Dorsiflexion

Hip & Knee Flexion

Cycling

Hip & Knee Extension

Passive

Active-assisted

Active / Resistive

Concentric / Eccentric

Double Task

# ENHANCED FEEDBACK

### Symmetry

Inter-limb coordination  
Quality of movement  
Force symmetry

### Strength

Participation and sub-maximal training in single joints and combined movements with gravity deduction

### Games & VR

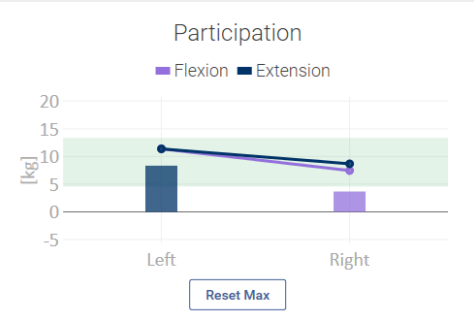
Interesting for their playful aspects but also to enhance motor learning through multisensory feedback

Exergames are available to target different gait impairments. During those trainings, the patient activity is oriented to improve fine motor control, strength or endurance. Typically, inter-limb coordination, symmetry, selectivity and cognitive aspects are at the heart of those therapies.

Possibility of dual task activities to enhance cognitive training.

# DATA EVALUATION

Lambda makes the fine evaluation of various parameters possible. Even a progression of 100 grams of strength is visible. Patient performances and evolution can easily be monitored in real time and exported.



"With the feedback from the games, there is a complete interaction between the mind and the body. It is fun and useful. I really appreciate the Lambda."

Marco C., affected by incomplete SCI





# COST EFFICIENCY

The Lambda can handle a patient every 30 minutes and allows a fast return on investment because of the following principles :

- More than 50 exercises in one solution
- < 3 minutes set up times
- Highly limited surveillance possible
- Large patient population
- For all the phases of rehabilitation
- Multiple users : physiotherapist, assistant, nurses, etc.
- Intuitive and easy to operate
- Optimized for group therapies



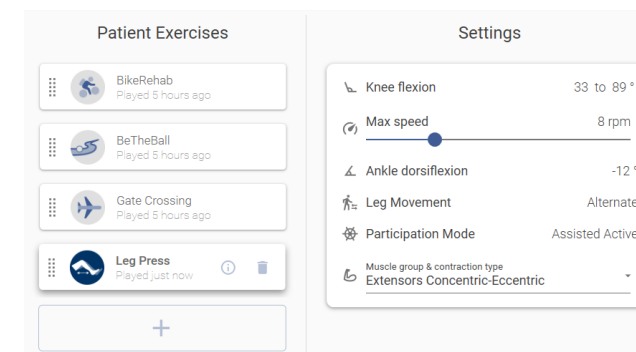
## Fast and Safe Transfer

360° seat rotation  
Retractable armrests  
Auto-adjustment of seat and pedals



## Knee Guidance

Adjustable orthosis  
20 seconds installation  
Ergonomic design



## Easy to Use Interface

Intuitive touch screen monitor  
Auto-play of a full session possible  
Pre-sets of therapy objectives  
Auto-save of settings  
Auto adjustment of difficulty available

" Because of the intuitive interface,  
the fast transfer and the large patient  
population of the Lambda, it is used in  
more than 50 therapies per week "

Gianni Giuliani, Senior Physiotherapist  
Ospedale Valduce, Italy



## CLINICAL PARTNERS



CONGREGAZIONE DELLE SUORE  
INFERMIERE DELL'ADDOLORATA  
OSPEDALE VALDUCE



حكومة الشارقة  
دائرة الخدمات الاجتماعية  
GOVERNMENT OF SHARJAH  
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