

REHABILITATION CONCEPT






FOR THE LOWER LIMBS



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.

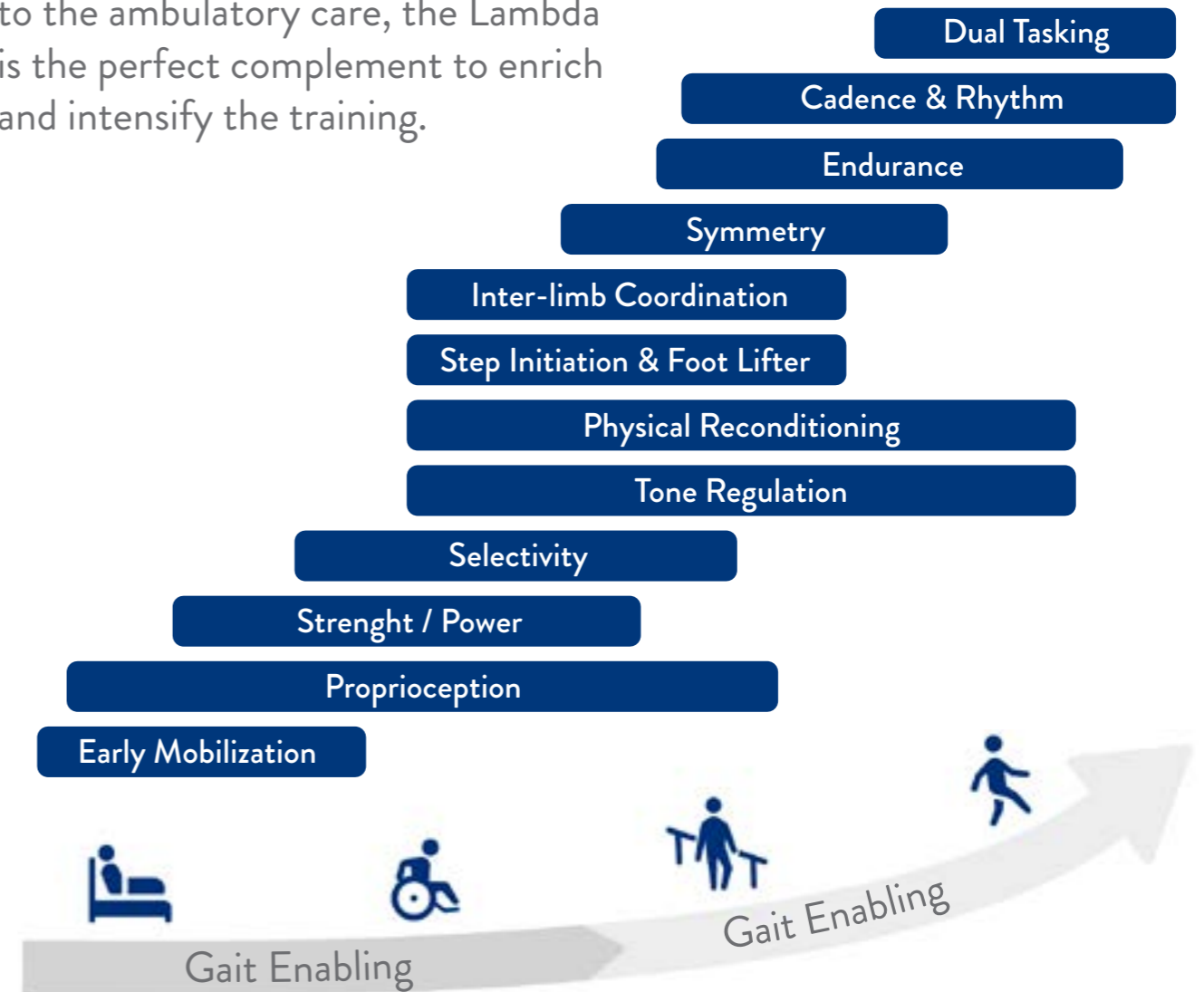
The innovative therapy robot Lambda makes all this possible. Analytical, task-oriented, playful and motivating for patients. Economical, effective and intuitive for users.

-  Neurological
-  Musculoskeletal and Orthopaedic
-  Geriatric
-  Post-covid
-  Cardiopulmonary



OBJECTIVES FOR ALL PHASES

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








POLYVALENT TRAINING

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.


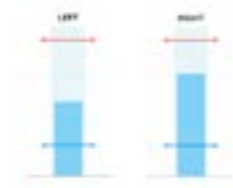

Movements


Press Leg	Cycling	Elliptical	
			Active-assisted
			Passive
			Isokinetic
			Concentric / Eccentric
			Double Task
Ankle	Knee	Hip	
			

Games

Ankle Dorsiflexion	Hip & Knee Flexion	Hip & Knee Extension	Cycling	Hip & Knee Extension
				


ENHANCED FEEDBACK

 Symmetry Inter-limb coordination and force symmetry can easily be trained on all muscular groups.	 Participation Even heavily affected patients are thrilled by the precise feedback due to the deduction of the weight of the limb.	 Games & VR Interesting for their playful aspects but also to enhance motor learning through multisensory feedback.
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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.

Dual tasking is possible with the combination of a remote control for the upper limbs.



EVALUATION AND DATA

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, incomplete SCI patient



OPERATIONAL ADVANTAGES

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

- Single transfer for 50+ exercises
- Highly limited surveillance possible
- Large patient population
- For all the phases of rehabilitation
- Multiple users : physiotherapist, assistant, nurses, etc.
- Easy and fast transfer
- Short setup and intuitive interface
- Optimized for group therapies



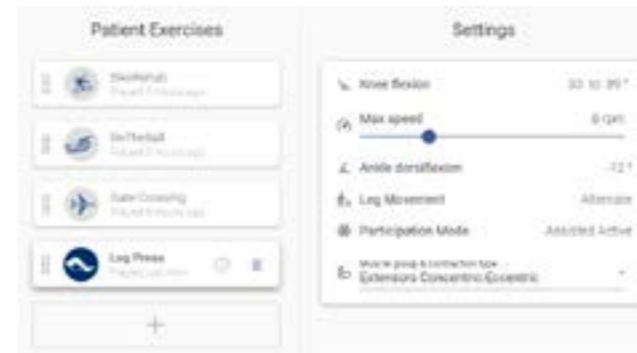
Easy and Fast Transfer

< 3 minutes
360° seat rotation
Retractable armrests
Auto-adjustment of seat and pedals



Support in Sagittal Plan

Physionomic orthosis
Adapted to heavily affected patients
20 seconds Installation



Easy to Use Interface

Auto-play of a full session possible
Auto-save of settings
Auto-adjustment of difficulty
Pre-sets for therapy objectives
All settings in patient joints amplitudes

" 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, Physiotherapist
Ospedale Valduce, Italy



CLINICAL PARTNERS



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