motorika

THERAPY WITH A ROBOTIC TOUCH

ReoGo™

YOUR LIFE IN YOUR HANDS

Personalize therapy and accelerate recovery of the upper extremities with our innovative and highly-effective robotic system

Accelerate recovery and promote independence in daily life with the ReoGo

The ReoGo is an innovative, clinically proven motorized robotic arm. The system combines personalized training programs and interactive games to facilitate both 2-D and 3-D movements for enhancement of motor and functional recovery of the upper extremities.

Our complete solution is specifically designed to meet the rehabilitation needs of a wide spectrum of patients suffering from stroke or other brain-related injuries, and orthopedic conditions at different stages of recovery.

ReoGo's highly-effective, patient-specific functionality allows patients to relearn upper limb normal movement through neuromuscular reeducation and brain retraining. Through intensive and consistent repetitive motion and advanced biofeedback, the ReoGo improves range of motion, accuracy and smoothness of movement, speed, muscle strength and cognitive functions to promote patient independence and quality of life.

Features

- Quick setup and intuitive user-interface

- Personalized session planning and monitoring

- Portable and ergonomic robotic arm

- 5 modes of therapy (passive, 3 active assist & active)

- 2-D & 3-D movements

- Interactive training program

- Variety of exercises and engaging, game-based sessions

- Data collection & advanced reporting
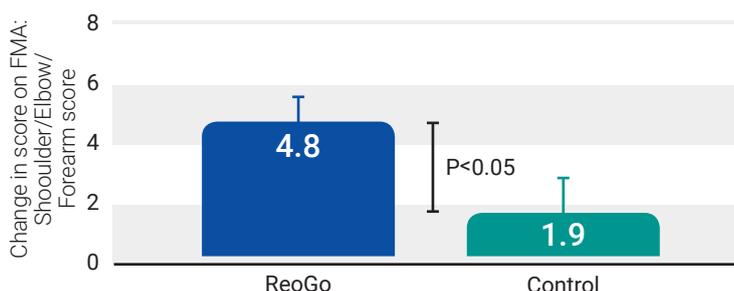
REOGO™:
YOUR LIFE IN YOUR HANDS

Clinically proven to accelerate functional recovery

Clinical evaluations of therapy using the ReoGo have been conducted in the U.S., Japan, Italy, Germany and Israel with a combined total of over 350 sub-acute and chronic stroke patients. Key results published in peer-reviewed medical journals and conferences show the ReoGo therapy is[1,2,3,4]:

- Safe and effective
- Appropriate for a wide range of post-stroke populations (sub-acute and chronic)
- Demonstrating functional improvements which are maintained over time
- Showing patient compliance and satisfaction are excellent.

Significant improvement
in upper extremities movement compared to control[3]

(60 sub-acute stroke patients, Fugl-Meyer Assessment (FMA) score change on shoulder/elbow and forearm: 4.8 ± 5.0 ReoGo vs. 1.9 ± 5.5 control; p < .05)


Change in score on FMA: Shooulder/Elbow/Forearm score

4.8 — ReoGo
1.9 — Control
P<0.05

Significant improvement
in upper extremities synergy movement compared to control[3]

(60 sub-acute stroke patients, Fugl-Meyer Assessment (FMA) score change in flexor: 2.1 ± 2.7 ReoGo vs. - 0.1 ± 2.4 control; p < .01)

Change in score on FMA: Flexor Synergy m score

2.1 — ReoGo
-0.1 — Control
P<0.01
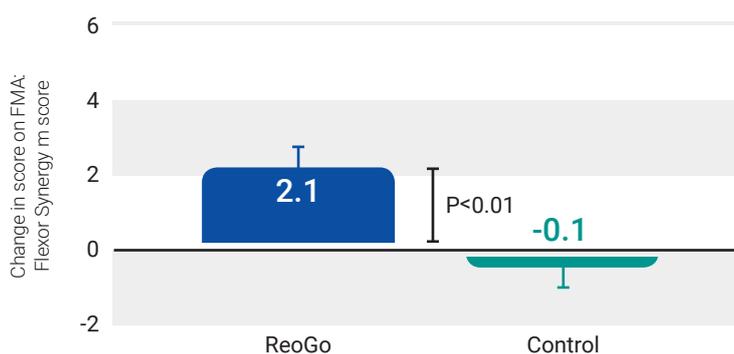
Significant improvement
in low level functional ability compared to control[3]

(60 sub-acute stroke patients, Fugl-Meyer Assessment (FMA) score change in Shoulder/Elbow/Forearm: 6.6 ± 5.1 ReoGo vs. 2.2 ± 6.2 control; p < .05)

Change in score on FMA: Shooulder/Elbow/Forearm score

6.6 — ReoGo
2.2 — Control
P<0.05
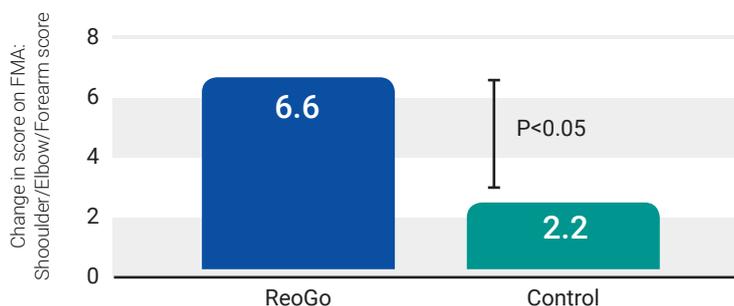
Complete solution for a wide spectrum of patients

The ReoGo is a user-friendly, versatile robotic rehabilitation therapy that is designed to optimize results in every therapy session for every patient.

- Adult and pediatric patients
- Neurological and orthopedic patients
- Acute, subacute and chronic patients
- Various stages of recovery

"The Reo™Go robotic arm gives us an opportunity to explore ways of treating the arm that we never had before. It helps train sequence and movement patterns by progressively challenging patients with more complex movements."

Susan D. Ryerson, PhD, Physical Therapy Specialist, USA

Increased therapy efficiency and comfort

The ReoGo provides up to ten times more repetitions per session than an average non-robotic treatment [4], thereby, improving recovery and treatment outcomes, as well as reducing the therapist's physical effort.
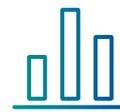
>10 times more repetitions per session (ReoGo vs non-robotic)

Quick and easy set-up

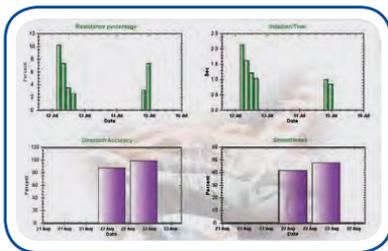**Multiple handle combinations** (flat, gyro, sphere ball, grip & release)

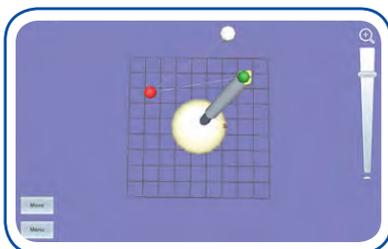**Objective assessment & analysis for improved management**

Tailored session planning for improved efficacy

Advanced clinical features

Highly Customizable Management Software for Maximum Results
Personalize therapy by customizing exercise patterns, mode of assistance and number of repetitions for each patient.

Library of Functional Exercises for Different Rehabilitation Needs
Tailor training sessions to patient's needs with "Grip and Release" exercises, three difficulty levels and Range of Motion (ROM) adjustments.

Multi-tasking Games to Challenge Motor and Cognitive Training
Improve motor and cognitive function with multiple engaging & goal-orientated games providing real-time audio and visual feedback.

ReoGo

CHOOSE THE REOGO FOR
HIGHLY-EFFECTIVE UPPER LIMB THERAPY

OUR PARTNERS

The ReoGo is widely used by leading rehabilitation centers of excellence and hospitals throughout the world.

MOSS REHABILITATION CENTER

U.S. Department of Veterans Affairs

RUSK Rehabilitation

ALLIED HEALTH SUPPORT SERVICES

Bryn Mawr Hospital Main Line Health

Kessler INSTITUTE FOR REHABILITATION Select Medical

Encompass Health

Children's Hospital of Philadelphia

GOOD SHEPHERD REHABILITATION

Magee Rehabilitation Jefferson Health System

high HOPES HEAD INJURY PROGRAM

BROOKS Rehabilitation

"It was amazing – at first the robot showed me the way, but then I actually moved my hand towards the point all by myself…, I was able to see progress already on my third session."

Vicky, USA

TECHNICAL SPECIFICATIONS

Length	Width	Height	Weight	AIO computer I5
101 cm (39.8 in)	58 cm (22.8 in)	90 cm (35.4 in)	79 kg (174.2 lb)	Windows 10 Pro, 23.8 in. touch screen

System rating	Frequency	USB ports	Multiple handles for all patient needs:	
115/230 VAC 500VA	50-60 Hz	As part of AIO PC	Forearm support handle, flat handle, grip & release handle	

INTEGRATED WHEELS FOR EASY TRANSPORT

References:
1. Takebayashi T. et al. Assessment of the Efficacy of ReoGo™-J Robotic Training Against Other Rehabilitation Therapies for Upper-Limb Hemiplegia After Stroke: Protocol for a Randomized Controlled Trial. Front Neurol. 2018; 9: 730.
2. Kim G. et al. Is robot-assisted therapy effective in upper extremity recovery in early stage stroke? —a systematic literature review. J Phys Ther Sci. 2017 Jun; 29(6): 1108–1112.
3. Takahashi K et al. Efficacy of Upper Extremity Robotic Therapy in Subacute Poststroke Hemiplegia: An Exploratory Randomized Trial. Stroke. 2016;47:1385-1388.
4. Bovolenta F. et al. Robot-aided therapy for upper limbs in patients with stroke-related lesions. Brief report of a clinical experience. J Neuroeng Rehabil. 2011 Apr 9;8:18.

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HIGHEST STANDARD OF CUSTOMER SUPPORT

- 24 hour response
- 24/7 remote online support
- Dedicated technician with on-site visits
- 2-day breakdown response time

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