GENROBOTICS®
MEDICAL AND MOBILITY

G Gaiter

RUN BACK TO WALKING

REVOLUTIONISING
HEALTH-TECH ROBOTICS

www.genroboticsmedical.com

Edition : 3.5

THE NEED FOR G GAITER ROBOTIC GAIT TRAINING

Despite advancements in traditional physical therapy for the rehabilitation of patients with stroke, spinal cord injuries, Parkinson's disease, cerebral palsy, and other musculoskeletal problems, a considerable number of patients still experience gait disabilities that impede their ability to walk independently. In response to this challenge, robotic gait training has emerged as a promising intervention, offering personalized and intensive therapy to enhance gait patterns and functional outcomes in these individuals. G Gaiter stands at the forefront of robotic gait rehabilitation, offering a highly advanced and sophisticated system for efficient, high-quality, and repeatable gait training.

CAUSES OF GAIT DISABILITIES

- Stroke
- Spinal Cord Injury
- Parkinson's Disease
- Cerebral Palsy
- Musculoskeletal Problems

World Health Organization | APTA American Physical Therapy Association | ISPRM International Society of Physical and Rehabilitation Medicine

"The World Health Organization (WHO) acknowledges the potential benefits of robotic gait training in the rehabilitation of individuals with mobility impairments. In their 2020 Rehabilitation in Health Systems guidance, WHO states that robotic devices, including those for gait training, can be beneficial in providing intensive and repetitive training for individuals with neurological or musculoskeletal conditions."

Rehabilitation in Health Systems, WHO

*Graphic illustrations and symbolic icons used for explanatory purposes

WHY G GAITER IS THE LEADING ROBOTIC GAIT TRAINER?

AI Powered Natural Gait Pattern

Exoskeleton Technology

Advanced VR Technology

Enhanced Safety with Intelligent Spasm Detection

Dynamic Bodyweight Support System

HOW G GAITER IS BETTER THAN OTHER CONVENTIONAL METHODS?

Personalized Treatment: G Gaiter ensures personalized treatments with Active, Passive and Assistive modes which enables patient curated training for more effective recovery.

Precise and Repeatable Movements: G Gaiter provides a high degree of precision and repetitive movements with G-Plot technology which is crucial for ensuring that patients receive effective therapy.

Consistency: G Gaiter can deliver consistent therapy during rehabilitation with the help of AI, which is essential for motor relearning.

Motivation & Engagement: G Gaiter's virtual reality experience provides the patients with a sense of participation, enthusiasm and boosts the patients morale for a motivated therapy session.

Reduced Workload: G Gaiter comes with Dynamic Bodyweight Support System which aids in reducing workload during therapy sessions of patients.

Tracking Patient Improvement: G Gaiter automatically store, analyse and create reports on gait patterns which can help doctors track their patients recovery over time.

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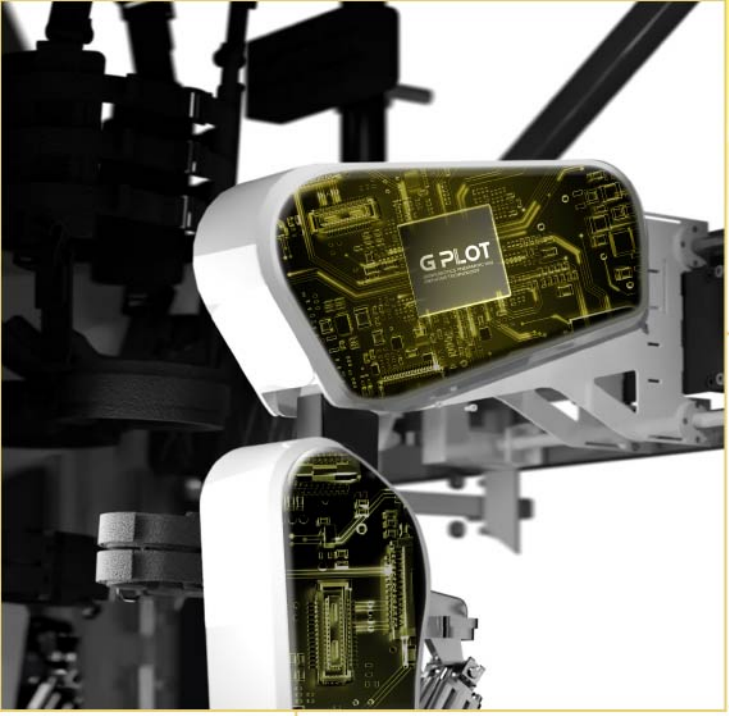

G-PLOT – PROVIDING QUALITY GAIT TRAINING WITH EXOSKELETON TECHNOLOGY

With G-PLOT technology and Artificial Intelligence, G Gaiter provides the most advanced Robotic Gait Training with better quality, reliability, and comfort.

Robotic Exoskeletons are designed to restore locomotion and assist individuals with mobility impairments, such as spinal cord injuries or brain injuries, to walk again, with studies demonstrating improved walking speed, balance, and endurance in patients recovering from various conditions.

With the invention of G-PLOT, G Gaiter can provide vibration-free and noise-free Exoskeleton-based gait training to the patients compared to Electrical motor-based trainers.

Thus, G-PLOT makes it easy to develop an Efficient and Natural Gait Pattern for the G Gaiter Robotic Rehabilitator.

ARTIFICIAL INTELLIGENCE – PROVIDING THE MOST PERSONALIZED REHAB

The integration of AI in G Gaiter provides the most advanced gait training with Active, Passive and Assistive Modes, creating the most flexible and dynamic rehabilitation. Through each of the modes, G Gaiter helps patients in developing the most natural gait pattern for their effective recovery.

Passive Mode

G Gaiter assumes 100% gait control, as the patient is not capable of producing any effort from their legs. Here, the G Gaiter's AI algorithm carefully delivers the right amount of actuation to ensure an accurate range of motion.

Assistive Mode

AI helps G Gaiter to provide positive assistance to the patients, continuously monitoring the effort and also helping them to complete their gait cycle. Here, the AI identifies the effort put in by the patient and changes automatically.

Active Mode

G Gaiter's active mode encourages the patient to exert more effort to achieve the desired gait pattern. The level of resistance can be gradually increased, thereby enabling the patient to improve their effort delivery/muscle strength.

LEVEL OF RESISTENCE

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ENHANCED PATIENT SAFETY

INTELLIGENT SPASM DETECTION

G Gaiter is equipped with sensors that continuously monitor for spasticity in the patient's leg muscles. If spasticity is detected, the device safety mechanism will immediately stop the gait procedures and lift the patient slightly above the treadmill, freeing their legs for the therapist to provide remedial measures

CONTINUOUS PATIENT MONITORING

The G Gaiter's live patient monitoring feature ensures patient safety by monitoring the patient vitals and oxygen consumption during gait training.

EMERGENCY STOP

Patient side grab handles are independently adjustable as per patient's comfort requirement. Also, the handles have built-in safety stop switches at both patient's and therapists' side's that they can stop the procedure in case of necessity.

INBUILT PATIENT EFFORT TRACKING TECHNOLOGY

The patient effort tracking technology comes with four different sensors on each joints, which automatically detects and records the gait effort exerted by the patient on each step.

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G Gaiter

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DYNAMIC BODYWEIGHT SUPPORT SYSTEM

At any time during therapy, the bodyweight control system is intended to offer variable weight support as needed by the therapist. To challenge the patient, the weight support can be adjusted in the smallest incremental fractions.

ADJUSTABLE PATIENT HARNESS STRAPS AND CUSHION PADS FOR PATIENT COMFORT

The Harness system is carefully designed to evenly distribute the lifting stress. High-quality cushion pads absorb the lifting pressure and keep the patient comfortable throughout the session.

IMPROVED PATIENT PARTICIPATION THROUGH INTERACTIVE DISPLAY

Equipped with an HD-ready visual monitor, which shows multiple infotainment features like games, and patient effort feedback which is helpful for the patient.

FLEXIBLE PELVIC SUPPORT

Flexible pelvic pads allow the lateral translation and transverse rotation of the pelvis, providing pelvic support during gait, shifting their weight completely over their stance leg and thereby activating their core muscles and hence creating balance.

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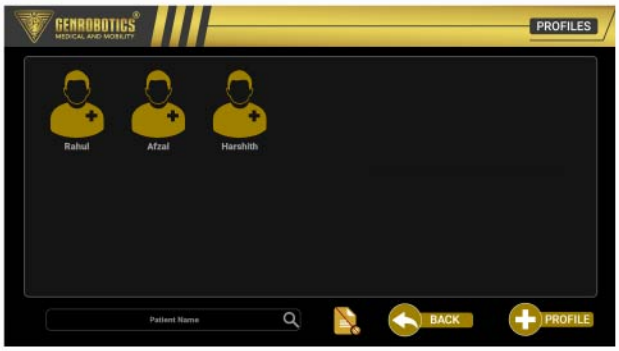
INBUILT PATIENT PROFILE MANAGEMENT SYSTEM

EASY PATIENT PROFILE MANAGEMENT AND DATA RECORDING

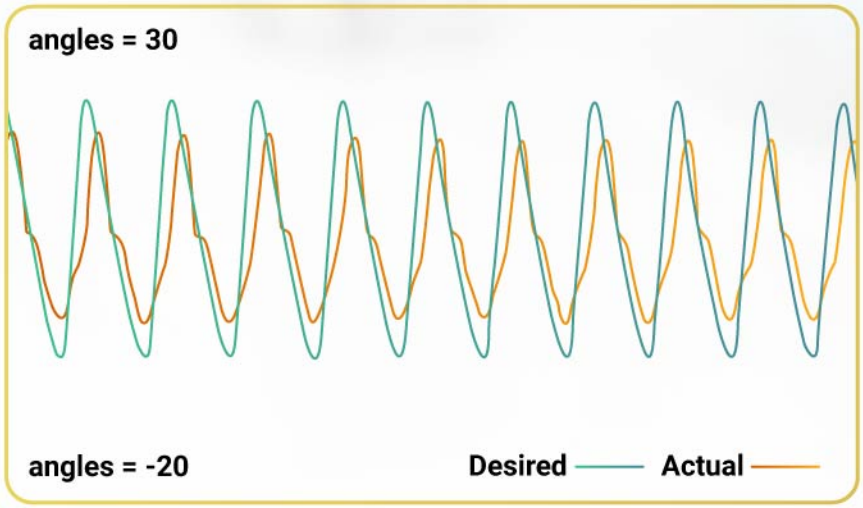
With just one click on the user's profile, doctors can now more easily create different patient profiles and store their individual gait therapy data. The in-built data collection system records each patient's efforts throughout the therapy and automatically stores a record of previous therapies. This makes it simpler to quickly analyse their therapy progression as a whole.

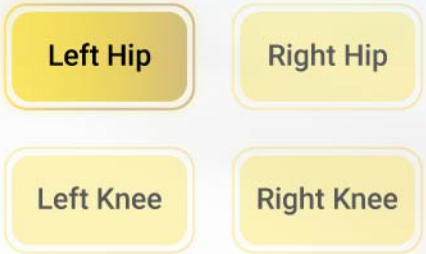


IMPROVEMENT TRACKING AND REPORT GENERATION

Using G Gaiter's improvement tracking system, doctors are able to track and analyse the improvement of the patient before and after a particular gait training session on various parameters such as maximum and minimum effort, gait speed, duration of a session, heart rate, SpO2 etc and create reports for easier diagnosis.

HASSLE-FREE PATIENT IMPROVEMENT TRACKING





Doctors can easily analyse and generate patient reports with the patient effort tracking system to understand patient improvements in gait training.

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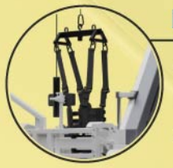

DYNAMIC BODYWEIGHT SUPPORT SYSTEM

- The most effective therapy experience with weight adjustments to meet the **patient's comfort.**
- Provides variable weight support to the minor incremental factors to provide **personalized gait training.**

G-PLOT PATENTED PNEUMATIC LEG ORTHOSIS TECHNOLOGY

- G Gaiter comes with the **patented pneumatic leg orthosis technology, G-Plot.**
- It provides a **vibration-free, cushioned, and comfortable** patient gait training experience.
- Created the most natural gait pattern with the help of AI, providing **consistent, reliable, and quality gait training.**

PATIENT MANAGEMENT SYSTEM

- It is now easier for doctors to **create profiles of patients.**
- Store patients' data on their profiles providing **easy record management.**
- This helps in easily understanding their overall therapy data conveniently.

PATIENT EFFORT DETECTION

- Easy **analysis of the maximum and minimum effort** put in by the patient during therapy.
- Four independent effort sensors are placed on both legs for **better effort detection.**
- The data is automatically collected according to the date and time of gait training.

VR BOOSTED GAIT TRAINING

- G Gaiter's virtual reality experience provides the patients with a **surreal visual experience**
- Creating a sense of **participation and enthusiasm** while training, through various virtual environments.
- Helps in boosting the **patient's morale** for a motivated therapy session.

PATIENT IMPROVEMENT TRACKING SYSTEM

- **Automatically store, analyse and create information** on gait patterns.
- **Easy report generation** for the doctors for better analysis.

INBUILT PHYSIOTHERAPEUTIC TREADMILL

- The inbuilt treadmill system **helps doctors choose speeds** according to varying requirements.
- It **syncs with the orthosis movement** for better gait training for the patients.

EASY TO USE UI

- Providing a **seamless experience** through a smart & easy user interface.
- **Best-in-class touchscreen interface** for easy patient training.

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WORLD-CLASS REHABILITATION
EXPERIENCE WITH

VR
TECHNOLOGY

IMMERSIVE VIRTUAL REALITY CREATING
IMPROVED PATIENT MORALE

FEATURE RICH HD DISPLAY

INCREASED MOTIVATION AND ENGAGEMENT
THROUGH REAL-TIME GAMES

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REVOLUTIONISING HEALTH TECH ROBOTICS IN KERALA

IN 1 YEAR

100+ PATIENTS

10,00,000+ ROBOTIC ASSISTED STEPS

1500+ SESSIONS

Thanal Brain and Spine Medcity marks a historic milestone in their journey by introducing G Gaiter advanced robotic gait rehabilitator for aiding the recovery of patients with gait disabilities! With the introduction of G Gaiter, **Thanal Medcity** has become the pioneer in Kerala to deliver world class neuro-rehabilitation for their patients.

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G Gaiter - the most innovative Robotic Gait Trainer was introduced at **SP Well Fort Hospital**, to enhance neurorehabilitation for patients with stroke, Parkinson's disease, spinal cord injuries and accidents. Using the cutting-edge technology of G Gaiter, SP Well Fort is able to provide personalized therapy to ensure maximum results with reliable and quality gait patterns.

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DOCTORS TESTIMONIALS

Dr. Idrees V
(Chairman, Thanal)

"Thanal Medcity has long been a leader in the healthcare industry, and we are committed in delivering the best neuro-rehabilitation services to our patients. Moving closer towards this goal, we are introducing the G Gaiter, a state-of-the-art robotic gait rehabilitator from Genrobotics Medical. The G Gaiter's robotic exoskeleton technology will enable us to deliver high-quality gait training therapy as well as treat more patients than any other conventional methods."

G Gaiter will be able to support our neurorehabilitation domain with the advanced features built into it. Leveraging the principles of neuroplasticity, G Gaiter robotic gait training helps us to effectuate accurate and consistent gait training to the patients.

Dr. Hafeeza Tamton
(Aster Mother, Areekode)

Dr. Aathithya
(SP Well Fort)

Our goal was to provide affordable futuristic rehab in Kerala, and we've achieved it with G Gaiter which is making a big difference in beneficiaries' lives and is a gateway to world-class rehab. I'm confident this innovative approach will change the way we approach rehab. I'm honoured to be a part of this incredible initiative.

Implementing G Gaiter at General Hospital Trivandrum is expected to aid us in neurorehabilitation by providing precise and personalized therapy to patients with conditions like stroke, spinal cord injury etc. We are also planning to conduct clinical research studies with G Gaiter, demonstrating its effectiveness in improving rehabilitation outcomes of the patients.

Dr. Arun John
(GH, Trivandrum)

OUR CLIENTS

Thanal Brain & Spine Medcity
The Complete Neuro Rehab Centre

Aster
We'll Treat You Well

SP WELL FORT
Inspired by Health

General Hospital

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EXOSKELETON TECHNOLOGY - IMPROVING QUALITY IN REHAB

Features	G Gaiter EXOSKELETON	End-Effector
Independent Joint Support	✔	✖
Accuracy of Range of Motion	✔	✖
Effective Lower limb support	✔	✖
Knee Buckling Safety	✔	✖
Active, Assistive and Passive modes of Therapy	✔	✖
Effective Body Posture and Balance Control	✔	✖
Range of Motion and Effort Sensing of each joint	✔	✖

LET'S REVOLUTIONISE HEALTH-TECH ROBOTIC REHAB!

Reach out to our panel of experts to make headway towards revolutionising recovery by virtue of robotic rehabilitation.

HDFC BANK | G Gaiter RUN BACK TO WALKING

Now you can own G Gaiter with the support of HDFC Bank's EMI option!

STAY CONNECTED TO GENROBOTICS MEDICAL

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Innovation Beyond Technology

GENROBOTICS®
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