



Ministry of Food and Drug Safety



exoRehab

*Muscle Strengthening
Pain Relief*

For Better Life

exoRehab is a Data-driven Wearable Rehab Solution for musculoskeletal system

What & Why



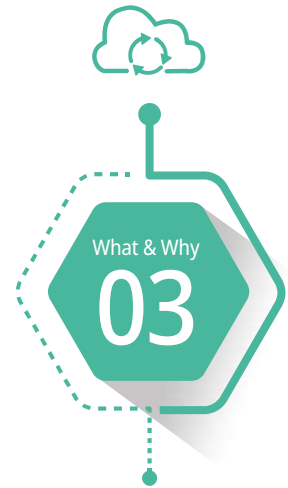
Biosignal-based Custom Exercise

exoRehab measures personal status of musculoskeletal system and helps efficient and effective recovery by providing personalized rehabilitation trainings.



Easy-to-use Wearable NMES

Ergonomic design of wearables sets optimal attachment for NMES and a simple APP controller provides intuitive manipulability.



Cloud-based Rehab Management

All activities are stored in Cloud DB and provided to medical experts with well-analyzed information, supporting effective and efficient treatment.

For Whom



Biosignal-based Custom Exercise

With exoRehab, all users are able to have customized rehabilitation trainings, which are automatically adjusted based on personal physical condition. It helps elaborated rehabilitation management and fine recovery of musculoskeletal system.



01. Gamified Rehab Exercises

Gaming contents help to motivate users to achieve goals of overall rehab process with a joy.



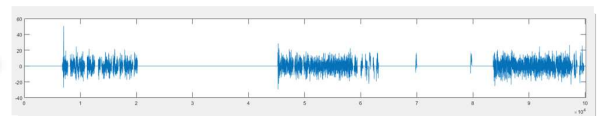
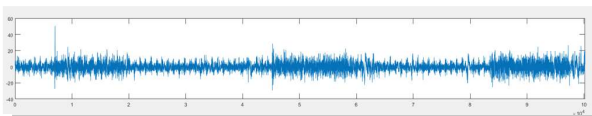
02. Professional Rehab Exercises

Rehabilitation trainings, which are designed with medical experts, can be fulfilled independently with properly customized levels.

Check your Health Status

Highly refined data helps to understand user's physical condition and make it possible to provide standards for a personalized rehabilitation.

- With a simple wear, exoRehab detects biosignals
- Motion and muscle abilities are acquired with a high accuracy due to unique algorithms
- The "Adaptive Threshold Detection Algorithm" is one of the best technologies in exoRehab
- It distinguishes user's intentional movements and removes unnecessary noises



Provide personal care for you

Highly-refined personal status information helps to understand user's physical condition. Based on a clear and objective information, all contents are adjusted to proper levels, which are demanded by medical standards in the field.

Easy-to-use Wearable NMES* *Neuromuscular Electrical Stimulation

No more difficulties. No more suffering. Deep considerations of design and development make it possible to provide better usability and user experience of NMES in all aspects.

01 Excellent Wearability

Just wrap around thigh and shin. It's ready to begin NMES

02 Ergonomic Design

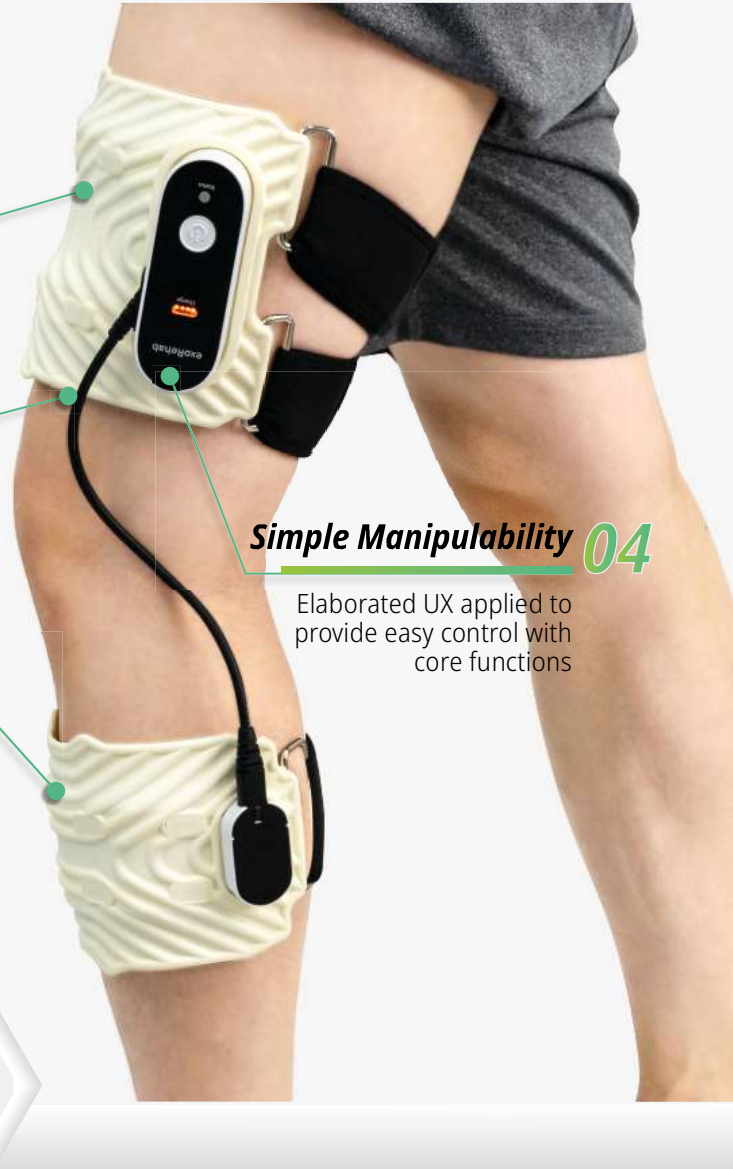
Finest structure persists adhesion, even with dynamic movements

03 Safe Materials

Qualified components secure safety and hygiene

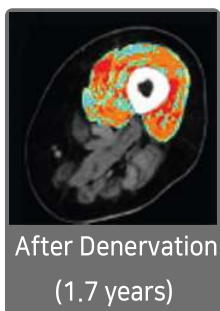
Simple Manipulability 04

Elaborated UX applied to provide easy control with core functions

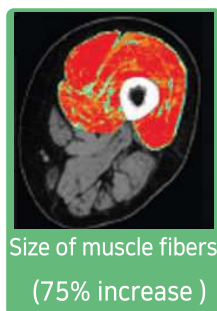


Strengthening your Muscles

Neuromuscular Electrical Stimulation(NMES) artificially makes muscle contraction by using electric impulses. NMES stimulates motor neurons as if given by neural system and leads them to reactivate and produce active potential that contracts muscle fibers.



2-years of
Home-based
FES



Synergy of Smart NMES

In custom exercises of exoRehab, there is a supportive NMES function, which makes it possible to exercise and stimulate at the same time. With the function, recovery of musculoskeletal system can be accelerated way more effectively and efficiently.



*Knee-surrounding design of exoRehab supports NMES to work as FES (Functional Electrical Stimulation)

Cloud-based Rehab Management

exoRehab Cloud system supports medical experts to manage patients in a smart way and helps them to drill down for deep analysis.



01 Compliance Tracking

For a long time, compliances of patients in rehabilitation field has been unknown. exoRehab, however, makes it possible to monitor and check every data related to rehabilitation. Experts can observe recovery progresses of patients and can use the information for better treatments.

02 Digital Management

Medical experts are able to manage patients online, even at a remote place. A cooperation with colleagues becomes much easier on exoRehab web service.

03 Data-driven Assistant

Musculoskeletal data is analyzed into various useful indexes that experts can refer to. Based on objective and professional information, highly systematic data-driven treatment can be performed to patients.

exo-AI with Cloud *Release later

By analyzing acquired musculoskeletal data, exoRehab AI suggests supportive information for a better healthcare.



- Movement Status Info (Range of Motion, Progress etc.)
- Muscle Status Info (Fatigue Level, Improvement etc.)
- Activity Info (Exercise Achievement Level, Time etc.)