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"Neuro HALFIT" now available at home as a new service for individual user

CYBERDYNE Inc. [Tsukuba, Ibaraki, CEO: Yoshiyuki Sankai (the "Company")] announced to start a new service that enables "Neuro HALFIT" at home. HAL Lumbar Type for Well-being will be rented to individual users so one could use the device in their own houses. This service is launched to induce improvement of brain-nerve-musculoskeletal function in daily lives, allowing users to further improve their independence for the need of care and preventing the reduction of physical functions.

■ **Background**

Neuro HALFIT is a new program that induces improvement of brain-nerve-musculoskeletal system by utilizing the world's first Wearable Cyborg HAL. The most novel feature of Neuro HALFIT is that, for people who have difficulty standing, sitting, walking, or moving their arms on their own due to decline in physical function from aging, diseases or injuries etc., wearing HAL activates the neural loop of the brain-nerve systems, thereby inducing improvement in the brain-nerve-musculoskeletal systems. Even for people who no longer feels improvement in traditional rehab, with Neuro HALFIT they can expect further progress. Since the service was launched, more than 2,000 people went through or are currently conducting Neuro HALFIT at Robocare Centers.

To this date, Neuro HALFIT was a tailor-made program to help the goal of each visitors of Robocare Center. At the same time, there were growing number of requests to take HAL home, so they could undergo further improvement of physical function.

Furthermore, in Japan, the government body have asked people not to go outside to prevent the spreading of COVID-19. This request may lead to loss of opportunity to move the body or reduction of amount of exercise, risking decline of physical function. After conducting trial with people who is undergoing the Neuro HALFIT program such as para-athletes, the Company determined to launch the new service in advance from the initial plan. The Company will rent out HAL Lumbar Type to people who wish to train with HAL at their own houses.

The new service image is only available in Japanese language at this point. Please check through the following link.
https://robocare.jp/personal/

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部門責任者

Example of movements with HAL Lumbar Type at home

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■　**Outline of the new service**

The new service that is announced on this occasion is a service that rents HAL for 3 months to individual customers so they can work on Neuro HALFIT at their own houses, aiming to induce the improvement in the function of the brain-nerve-musculoskeletal systems. The program is designed to provide users with a pleasant and safe experience at home. As the first step, the Company will rent out HAL Lumbar Type for Well-being. HAL Lumbar Type is easy to wear and because the device assists the movement, it is well suited for people who dislike hard and tough training. To start using HAL, one must visit the closest Robocare Center to receive training on the device. Also, the Robocare Center staff will support each customer to achieve their goal by creating menus, plans and providing advices on correct movement.
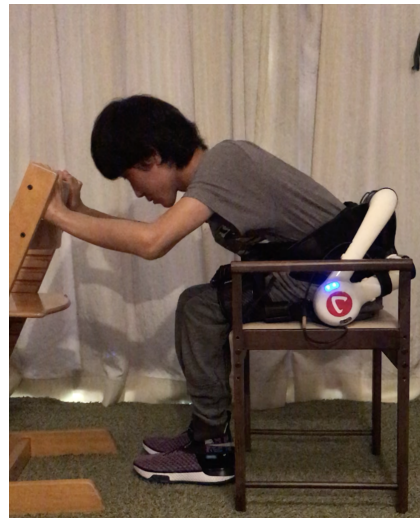
The program is a perfect fit for wide range of customers, such as customers with disability, customers who wish to prevent frailty and customers who want to maintain their current physical state.

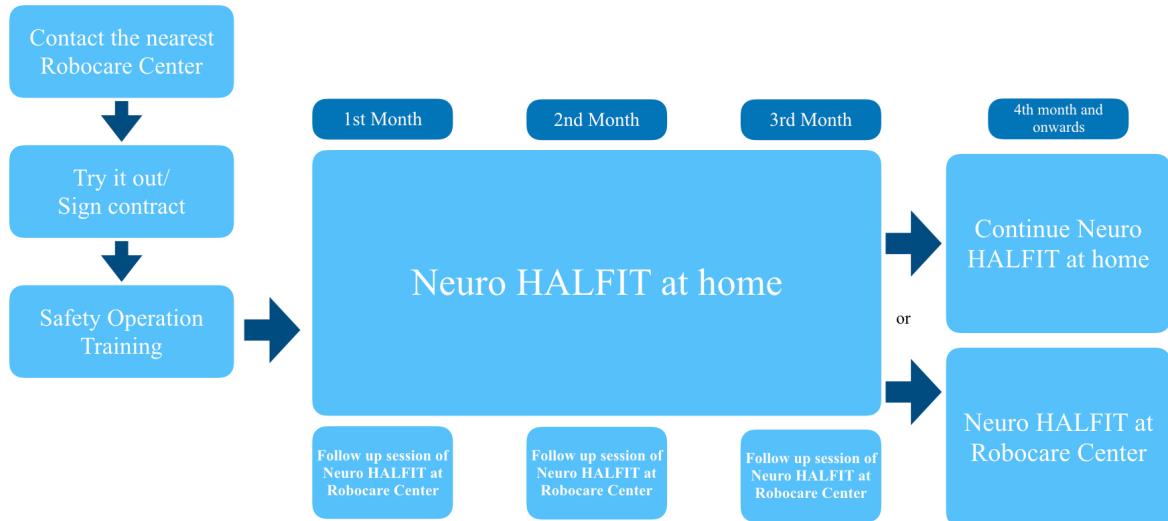■　**Description of HAL Lumbar Type for Well-being**

The Company started renting HAL Lumbar Type of Well-being for maintaining and improving the function of the body trunk and lower limb on October 2017. By wearing it and practice moving the body trunk or stand and sit motions, HAL induces the improvement of the physical function. Even without HAL, it can be expected to increase the degree of independence in daily life, and the device has already been used by many medical institutions and care facilities. The newly added monitor function wirelessly connects HAL to PCs and tablets to display information of the wearer, such as bio-electrical signals, angle of the tilted body, at real time. This would visualize posture, tension and loosen of the muscle, which used to be difficult to observe or analyze. The monitor function is well operated in Yotsuya Robocare Center where it is used for top athletes of baseball, tennis, golf, snowboarding and many more in addition to people with disability and elderly visitors.

HAL Lumbar Type with Monitor Function
(Photo provided by IWA JAPAN)

Flow chart for the new service

```
Contact the nearest
Robocare Center
        │
        ▼
Try it out/
Sign contract
        │
        ▼
Safety Operation
Training  ──────▶  Neuro HALFIT at home  ──────▶  Continue Neuro HALFIT at home
                                                              or
                                           ──────▶  Neuro HALFIT at Robocare Center
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1st Month | 2nd Month | 3rd Month | 4th month and onwards

Follow up session of Neuro HALFIT at Robocare Center | Follow up session of Neuro HALFIT at Robocare Center | Follow up session of Neuro HALFIT at Robocare Center

Example of movement with HAL Lumbar Type

Suited for all levels!

Increase the amount of exercises
Improve the habit of life
Continue to be part of social activity

Increase muscle strength
Improve walking speed

Acquire ability to stand smoothly
Improve walking posture

Cooperative movement during transfer
Excretion control

Waking up smoothly from the fowler's position
Extending time to maintain seated position

Change of quality of life through exercises with HAL Lumbar Type (Report from verification facilities)
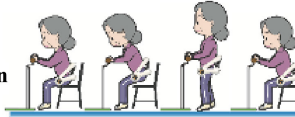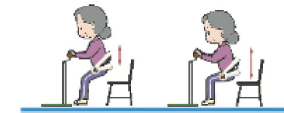
1. Back & forth pelvis movement
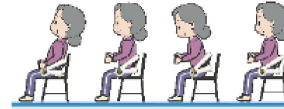
2. Bending back and forth

3. Stand up/ Sit down

4. Squatting

Effortlessly
tailor made program to suit any conditions

Easily
No need of special skills easy to put on

Robocare Center
Follow up on regular basis to check the progress

Condition of usage
- The wearer, or the person who would support the wearer to put on the HAL must take the Safety Operation Training at the Robocare Center and complete the course.
- In principle, the customer using the service must visit the Robocare Center once a month to take the Neuro HALFIT session with the staff members to check the progress and set the goals.

✧ During the period of request for refraining from going out
In order to use the new service, the customer must visit a closest Robocare Center to try the product, to take the Safety Operation Training course, and to receive follow ups from the staff member in a private session of Neuro HALFIT. However, because of the request for refraining from going out issued by each prefecture, the Company will offer the new service to customers if the customer can communicate with video conference call via internet until the request is no longer in effect.

■ **Contact for the new service**

The new service is only available in Japan in Japanese language at this point. Please contact through the following link
https://robocare.jp/contact/

- **Prospects**

By offering "Neuro HALFIT" at home, the Company aims to create an environment in which customers can improve their physical functions regardless of location or time. Also, the Company continues to reinforce products and services that will suit the needs of wide variety of customers.