



News



March 2, 2018
CYBERDYNE, INC.
Brooks Rehabilitation

CYBERDYNE & BROOKS, Inc. established to commence operation in the U.S.

~to start marketing Medical HAL to the entire U.S. from its Brooks Cybernic Treatment Center~

CYBERDYNE, INC. [Tsukuba, Ibaraki, (“Cyberdyne”)] and Brooks Rehabilitation [Jacksonville, Florida, (“Brooks”)], one of the busiest rehabilitation hospital groups in the U.S., established a joint venture company, “CYBERDYNE & BROOKS, Inc. [Mr. Michael Spigel, President and COO of Brooks presumed the role as the president of the joint venture company (“C&B”)]. Cyberdyne invested 66.7 percent and Brooks invested 33.3 percent in C&B. C&B will open Brooks Cybernic Treatment Center (“BCTC”) on March 2, 2018 (EST) and commence its sales operation to spread HAL for Medical Use Lower Limb Type (“Medical HAL”) to all parts of the U.S.

Brooks has been serving the southeast for more than 45 years. Brooks operates one of the nation’s largest inpatient rehabilitation hospitals in the U.S. with 32 outpatient rehabilitation clinics that serve more than 30,000 patients per year and a clinical research center for rehabilitation of stroke, spinal cord injury and other diseases. Brooks treats more than 45,000 patients per year.

C&B will develop its BCTCs in Florida and other states to deliver treatment service with Medical HAL. Furthermore, in BCTCs, C&B will accumulate knowledge and experience on various matters such as additional clinical data and application examples on coverage with private insurance. C&B will also make use of medical professionals, such as medical doctors and physiotherapists of Brooks and its connection with various organizations and personnel in the US medical society, in order to disseminate Medical HAL to hospitals in all areas of the U.S.

Through this business of the joint venture, Cyberdyne and Brooks aim to disseminate the innovative treatment with Medical HAL, which was developed as the result of utilizing Cybernic technology. This way, the two companies will contribute to solving social problems and creating new industry simultaneously by improving the quality of lives (QoL) of the patients through improvement of body function, reducing the burden of care through promotion of patients’ independence and diminishing the social cost as a whole.

<About Medical HAL>



Cyberdyne obtained marketing clearance from the U.S. FDA for Medical HAL as a medical device in December 17, 2017 (EST). Marketing clearance from the FDA that the company obtained on this occasion is targeted at spinal cord injury patients. Many aspects of Medical HAL have been reflected in this marketing clearance such as,

- Indication for use: Medical HAL is a gait training device intended to temporarily* improve ambulation upon completion of the HAL gait training intervention.
- The therapeutic effects: The results of HAL gait training intervention suggest a statistically significant improvement in the gait related outcome measures collected without wearing HAL and clinical significance was acknowledged.

* Long term use of over 12 weeks (60 treatment session) has not been clinically tested and therefore the term “temporarily” is used

Also, in order to expand the target disease to stroke, in Japan, the investigator initiated clinical trial of Medical HAL Single Leg Model on stroke patient is currently in progress.

<About Cybernetics>

*“Cybernetics” (adjective: Cybernetic) is a new academic field that is centered around cybernetics, mechatronics and informatics fused/combined with various other fields. Cybernetics is championed by Yoshiyuki Sankai, a professor at the University of Tsukuba in Japan. Cybernetic Technology is a innovative application of Cybernetics to technology that connects humans, robots and information functionally and establishes physical, informative and biological interaction. This technology is also utilized for Medical HAL and it establishes interactions between the patient and HAL in order to induce the improvement of functions of the patient.



Exterior of Brooks Rehabilitation



Brooks Cybernic Treatment Center (Opening on March 2, 2018)

<About Brooks Rehabilitation>

Brooks Rehabilitation has been serving the southeast for more than 45 years. As a nonprofit organization based in Jacksonville, FL, Brooks operates one of the nation's largest inpatient rehabilitation hospitals in the U.S. with 160 beds, one of the region's largest home healthcare agencies, 32 outpatient rehabilitation clinics, a skilled nursing unit dedicated to orthopedic rehabilitation, a rehabilitation medicine physician practice, two skilled nursing facilities, assisted living and memory care. In addition, Brooks operates the Clinical Research Center, which specializes in research for



stroke, brain injury, spinal cord injury and more to advance the science of rehabilitation. Brooks also provides many low or no cost community programs and services such as the Brooks Clubhouse, Brooks Aphasia Center and Brooks Adaptive Sports and Recreation to improve the quality of life for people living with physical disabilities. For more information, visit BrooksRehab.org.

<About Cyberdyne>

Since its establishment as a venture company from the University of Tsukuba in 2004, Cyberdyne has promoted the comprehensive development of various Cybernic Systems (Cybernic devices, Cybernic interfaces, etc.) that utilize Cybernic Technology from research and development to social implementation, aiming to tackle the various issues that the society faces. The company has developed business in the fields of medicine, welfare and daily living (including the work environment), and its main product, Robot Suit HAL[®], is widely distributed not only in the medical and living-support fields but also in care support and labor support fields. In addition, new products such as Transportation Robot and Cleaning Robot equipped with artificial intelligence and environment recognition functions, HAL Lumbar Type for reduction of the load and stress on the lower back, smaller-sized HAL (Single-Joint Type), Vital Sensor for arteriosclerosis and arrhythmia measurements are continuously developed. For more details, please refer to the following website: www.cyberdyne.jp/eng/.