



<Press Release>

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**CYBERDYNE, INC.**  
**August 9, 2017**

**Medical HAL obtained medical device approval in Saudi Arabia**

**~ Innovative medical technology of Cybernic treatment that is originated in Japan is now available in Saudi Arabia~**

CYBERDYNE,INC.(Headquarters Tsukuba, Ibaraki, Japan. CEO: Yoshiyuki Sankai [the “Company”]) obtained approval to manufacture and sell robot treatment device Medical HAL (Lower Limb Type), as a medical device from The Saudi Food and Drug Authority (the “SFDA”).

The Company will introduce Medical HAL to the medical institutions owned by its business partner in Saudi Arabia, ALJ so that cutting-edge medical technology of Cybernic Treatment could be offered to the people of Saudi Arabia in September 2017, at the earliest opportunity. In Saudi Arabia, the Company will continue to coordinate with ALJ on insurance coverage of Cybernic treatment and also on dissemination of Medical HAL to other collaborating hospitals of ALJ. It must also be noted that the Company received support from both ALJ and its Japanese subsidiary on this process to obtain the medical device approval from the SFDA.

Alike the medical device approval for Medical HAL that the Company obtained in EU, Medical HAL was approved in Saudi Arabia for wide variety of diseases such as cerebrovascular diseases and spinal cord injuries. Saudi Arabia aims to improve the quality of life of its people through its “Saudi Vision 2030”, in which healthcare is one of the main focus areas. In this context, the population of approximately 13,000 new patients in 2015 suffering from after-effects of spinal cord injuries in Saudi Arabia, which is higher than some other countries, including Japan, is a big issue for the country. The Company is pleased to contribute to sound medical development of Saudi Arabia by offering cutting-edge medical technology of Cybernic treatment.

**\* Cybernic Treatment**

Cybernic Treatment is described as “Functional Regenerative Medicine” realized by devices like Medical HAL that are developed using Cybernic Technology, and it is an innovative treatment technology that promotes the functional improvement/regeneration of the brain-nerve-physical systems. HAL establishes interactive biofeedback by moving according to intension-based motion



information from the brain-nervous system and activating sensory systems like muscle spindle fibers to form a neural loop between the brain-nerve system and the musculoskeletal system. Even if the patient is unable to generate enough muscle strength to move due to motor dysfunction, the treatment is able to repeatedly realize actual movement that is in sync with the motion intent of the brain while avoiding excessive burden on the brain-nerve-muscle systems, thus making functional improvement/regeneration possible. A physician can intervene by tuning the many adjustable parameters related to the patient's motor and neurological information built into the device, in a way that appropriately circulates the patient's neurological information through the neural loop between the brain-nerve system and the musculoskeletal system.

Cybernic Treatment is not limited to Medical HAL and can be administered by other Medical Cybernic Systems that take on various forms using Cybernic Technology.

### 【Outline of the product】

Brand name: HAL for Medical Use (Lower Limb Type)

Authorization Number: MDMA17080023

Medical Device National Listing Number: MM06353SFDAA0001



Image of Cybernic Treatment with Medical HAL (Photo provided by Cyberdyne Care Robotics, Germany)

(Link)

- **Announcement of business alliance with Abdul Latif Jameel** (2017/03/14)  
[https://www.cyberdyne.jp/wp\\_uploads/2017/03/Abdul-Latif-Latif.pdf](https://www.cyberdyne.jp/wp_uploads/2017/03/Abdul-Latif-Latif.pdf)
- Website of Abdul Latif Jameel: <http://www.alj.com/en/>
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