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### **New real-time monitoring function of physical information with HAL Lumbar Type ~ new feature that could improve the effect of Neuro HALFIT ~**

CYBERDYNE, INC. [Tsukuba, Ibaraki, CEO: Yoshiyuki Sankai (the “Company”)] announce to launch new monitoring function as an optional feature for "HAL Lumbar Type for Well-being (FB02)", a device developed to maintaining and improving the functions of the body trunk and lower limbs of people with weak legs and hips. The new monitoring function is capable of displaying information of the wearer obtained through HAL Lumbar Type for Well-being (FB02) such as bio-electrical signals derived from the wearers brain-nerve-musculoskeletal system, angle of the inclination of the trunk and etc. at real time. As the monitor enables both the wearer and staff members who supervises the program to see such information, the new feature will allow the wearer to train themselves more efficiently.

Wearable Cyborg HAL developed by the Company is the world’s first Wearable Cyborg capable of connecting with the human brain-nerve systems and functioning as if it is part of the body, just by wearing the system. HAL is used in a variety of business fields including medical, nursing-care and living support. As one of its main business lines, the Company is utilizing HAL at 14 Robocare Centers in Japan to maintaining/improving the physical functions of people with disabilities, preventing the decline of physical functions of the elderly and to improving the performance of athletes.

It was thought to be difficult to visualize posture, tension/relaxation of muscles of a person during training at real time, which made it difficult for supervisors to provide useful advices or instruction in a timely manner. The new monitoring function which was added for HAL Lumber Type connects HAL to external devices such as PC or tablets via wireless communication and displays various information of the human body at real time. By using this new feature, a user who initially had difficulty getting the grasp of his/her posture, tension/relaxation of muscle and etc., can now check and analyze such information objectively. Physiotherapists and sports trainers can also check the aforementioned information in real time and instruct appropriate body movements in a timely manner.

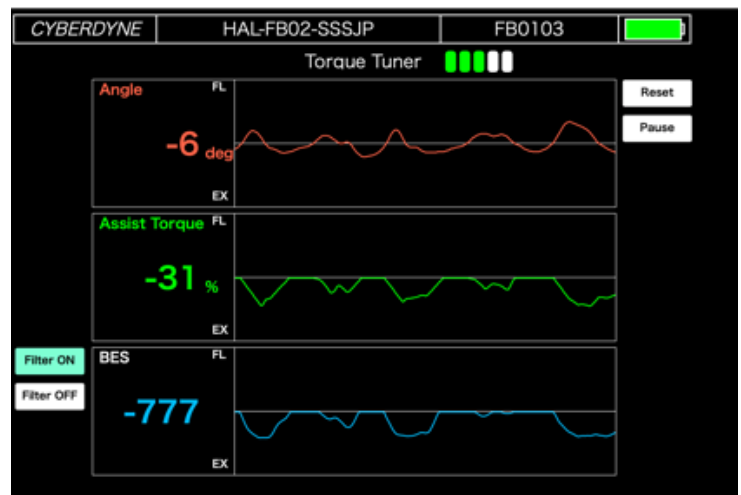
At Yotsuya Robocare Center, operated by the Company and IWA JAPAN, professional athletes have already gone through trial sessions of "IWA Neuro HAL Plus" and is now offering a newly developed program for professional athletes. This new monitor function will be integrated in the "IWA Neuro HAL Plus" as well. Top



athletes in various sports including tennis, golf, and snowboarding, including baseball player Kenta Maeda, are taking part in "IWA Neuro HAL Plus". The Company will also integrate the new monitor function to other Robocare Centers, which is currently offering Neuro HALFIT as a program to maintain/improve the function of people with disabilities and people with weakened physical functions due to aging etc.

With the cooperation of IWA JAPAN, the Company will continue to provide "Neuro HALFIT" at Yotsuya Robocare Center with the aim to induce improvement in the brain-nerve-musculoskeletal system for people with disabilities and people with declining physical function due to aging, simultaneously with "IWA Neuro HAL Plus", which aims to improve the performance of top athletes. The Company will coordinate further with IWA JAPAN to research and develop products and projects suited for various sports, spreading Cybernics Technology to athletes.

The Company will continue its R&D in the area of care and welfare while accelerating its effort to create a new industry. The Company will utilize its innovative Cybernics Technology that fuses and combines the function of human, robot and information systems to realize the hyper smart society of "Society 5.0/5.1".



## CYBERDYNE, INC.

URL	<a href="https://www.cyberdyne.jp/english/">https://www.cyberdyne.jp/english/</a>
Founded	June 2004
Share capital	26.778 billion Japanese yen (as of March 31, 2019 : non-consolidated, Japanese GAAP)
CEO	President and CEO Yoshiyuki Sankai
Address	2-2-1 Gakuen-minami, Tsukuba, Ibaraki, Japan

The Group's business is to realize "Society 5.0/5.1", a future society based on the idea of Techno-Peer-Support where human and technology live together and support each other. This goal is attained through revolutionary changes in industry and society, and The Group seeks to utilize "Cybernics Technology" (fusion and combination of systems of human, robot and information) that handles "human" + Cyberspace" + "Physical space", to create a "Cybernics Industry" for this transition following the breakthroughs of the Robotics Industry and IT Industry.



The Group's business has a unique advantage in its ability to access and integrate information within the human body (e.g. Brain-nerve and vital systems) in addition to information outside the human body (behavior, life and environmental information) and applying them to different fields such as medicine, nursing care, production, household, and work places. All of the Group's devices and interfaces are compatible with Internet of Humans/Internet of Things ("IoH/IoT"), and through these products, information of the brain- nerve, vital, physiological, behavioral, life and environmental systems can be integrated and connected to a super computer. The Group aims to realize a system where Big Data of the aforementioned information are accumulated, analyzed and processed with AI. The Group simultaneously works on research and development, business development and formation of business alliances to further accelerate the emergence of a Cybernic Industry that will solve the problems facing society.