

Media Release
20 September 2023

Articares revolutionises hand and wrist rehabilitation with the innovative 'ReHandyBot'

SINGAPORE - Articares, a Singapore-based company pioneering intelligent rehabilitation solutions, is thrilled to introduce ReHandyBot, an innovative robot designed for sensorimotor hand and wrist therapy.

Developed in close partnership with the Rehabilitation Engineering Laboratory (RELab) at ETH Zurich and Clinica Hildebrand Centro di riabilitazione Brissago, Switzerland, this new product is the result of over 15 years of advanced research on revolutionising technology-based hand rehabilitation.



Image 1: A patient using the ReHandyBot in his home (Singapore).

Expanding on a decade of success with the internationally recognised H-Man, an arm rehabilitation robot developed in collaboration with Nanyang Technological University and Tan Tock Seng Hospital (TTSH), Articares extends its upper limb rehabilitation suite with the launch of ReHandyBot.

ReHandyBot offers gamified therapy programs tailored to the unique needs of patients recovering from conditions such as stroke or orthopaedic injury affecting upper limb function. It automatically adapts to the individual's progress, and monitors improvement in real-time.

“By providing advanced haptic feedback, ReHandyBot enables patients to feel and manipulate virtual objects. This unique approach can simulate a wide range of daily activities, which is essential for regaining hand and wrist function.” says Prof. Roger Gassert of ETH Zurich.

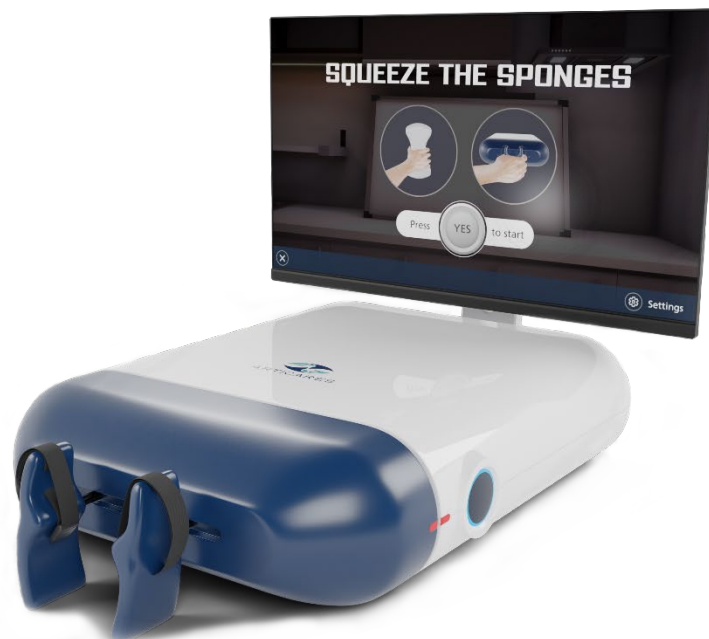


Image 2: ReHandyBot, an innovative portable robot designed for sensorimotor hand and wrist therapy.

Articares' commitment to user-friendly and smart rehabilitation robotics ensures that ReHandyBot can be used with little to no supervision, increasing therapy efficiency and empowering patients to enhance their hand and wrist rehabilitation after normal therapy hours or even in the comfort of their homes. In fact, Articares and RELab are collaborating within the Future Health Technologies (FHT) programme of the Singapore-ETH Centre, carrying out cutting-edge research and innovation, and conducting clinical trials with TTSH to validate the clinical impact of these technologies and bring them even closer to patients' homes.

“ReHandyBot uniquely integrates our approach to the restoration of hand function into a robotic solution. It’s a remarkable innovation that we fully endorse.”, says Dr. Paolo Rossi, neurologist and medical co-director of the Clinica Hildebrand Centro di riabilitazione Brissago.

The partnership between Articares and RELab reflects a shared vision of advancing rehabilitation technology and translating novel research into future gold-standard healthcare. Integrating Articares' expertise in developing smart and clinically validated solutions with RELab's expertise in robot-assisted rehabilitation of hand function, ReHandyBot increases accessibility to high quality rehabilitation.

"We are incredibly excited to partner with RELab and bring ReHandyBot to the global market. This innovation is more than just a technological breakthrough; it is a leap towards improving the quality of life for countless individuals in need of specialised hand and wrist therapy," says Asif Hussain, CEO of Articares.



Image 3: The team at Articares, RELab (ETH Zurich) and Singapore-ETH Centre, who are behind the development, testing and commercialisation of the ReHandyBot.

ReHandyBot will be introduced and demoed at RehabWeek 2023 from 24-28 September in Singapore. For further information or to book a demo, please reach out via www.articares.com.

-- END --

Media contacts:

Articares

Anubhav Seth

Email: anubhav.seth@articares.com

Mobile number: + 65 8291 9763

Product Success Manager

Singapore-ETH Centre

Yap Xiong

Email: communications@sec.ethz.ch

Mobile number: + 65 9747 0714

Communications Senior Executive

About Articares:

Headquartered in Singapore, Articares designs, develops, and markets clinically backed human-like decision making AI and combines it with user-friendly advanced robotics to offer rehabilitation after stroke, orthopaedic injuries or dementia, a common occurrence in the aging population. Their latest innovation, ReHandyBot, expands their rehabilitation solutions suite, setting new industry standards and reinforcing their position at the forefront of rehabilitation technology.

<https://articares.com/>

About RELab at ETH Zurich:

The Rehabilitation Engineering Laboratory (RELab) is part of the Institute of Robotics and Intelligent Systems at the Department of Health Sciences and Technology of ETH Zurich. The lab, co-directed by Prof. Roger Gassert and Dr. Olivier Lambercy, specializes in the development and clinical evaluation of rehabilitation technology. The collaboration with Articares on ReHandyBot exemplifies the lab's mission to drive forward innovation in healthcare.

<https://relab.ethz.ch/>

About Future Health Technologies at Singapore-ETH Centre:

Future Health Technologies (FHT) brings together leading Singapore- and Swiss-based universities, hospitals and industry partners to develop new health concepts for Singapore, including ETH Zurich, Nanyang Technological University (NTU), National University of Singapore (NUS), Duke-NUS Medical School, National Health Group (NHG), National University Health System (NUHS), and SingHealth. Its goal is to generate new technologies for providing high-value rehabilitation also outside of expert clinical settings.

FHT is a programme of the Singapore-ETH Centre, established by ETH Zurich – the Swiss Federal Institute of Technology Zurich and Singapore's National Research Foundation (NRF), as part of the NRF's Campus for Research Excellence and Technological Enterprise (CREATE).

<https://fht.ethz.ch>

About the Clinica Hildebrand Centro di riabilitazione Brissago:

The Clinica Hildebrand Centro di riabilitazione Brissago is one of Switzerland's leading competence centres for rehabilitation. The clinic is distinguished by its modern, innovative and well-equipped infrastructure that supports universally recognised diagnostic and therapeutic methods. The clinic is an expert centre for the neurocognitive therapy approach, which underlies the therapy concept implemented on the ReHandyBot. <https://www.clinica-hildebrand.ch/>