

June 2024

Villa Beretta Rehabilitation Research Innovation Institute and BioXtreme are proud to announce the launch of a new joint clinical trial at our facility in Costa Masnaga.

BioXtreme has developed plaXtreme, a groundbreaking robotic device for motor-learning, based on innovative error enhancement technology for finger and palm rehabilitation post-stroke and other neurological injuries.

The clinical trial will focus on the effect of plaXtreme's Error Enhancement technology on stroke and traumatic brain injury patients in the sub-acute and chronic phases. The trial will involve 32 patients who will adhere to a strict treatment protocol established by our staff and BioXtreme's experts.

The project will be supervised by Dr. Franco Molteni, our Clinical Director, and Eng. Eleonora Guanziroli, senior researcher and the head of the Bioengineering Lab. The hospital's therapeutic staff has already been trained to operate the device, and the project has commenced with the recruitment of the first patients who have started the treatment protocol.

This clinical trial further solidifies the cooperation between VBRRII and BioXtreme, which began with the installation of deXtreme™ (upper limbs) at the rehabilitation lab. It also puts our institute yet again at the forefront of innovation in rehabilitation technology and strengthens our commitment to providing the best and most advanced care possible to our patients.

About Villa Beretta:

Villa Beretta Rehabilitation Research Innovation Institute of Valduce Hospital, is a structure dedicated to the best possible functional recovery of people with problems deriving from disability due to genetic or acquired neurological diseases. Villa Beretta is equipped with high technological devices for evaluation of patients functions as well as for rehabilitation treatment both for lower and upper limb. From the clinical perspective, the most advanced technology is used, from diagnosis to monitoring to aids and personal tutors and orthosis, to robotics, augmented reality, virtual reality and home-care systems in order to follow patient when they go back home.

<https://www.valduce.it/beretta>

About BioXtreme:

BioXtreme Rehabilitation Robotics is instilling new dexterity for stroke and other neuro injuries patients. Using a patent-protected groundbreaking Error Enhancement technology, BioXtreme has developed a robotic system that helps with upper limb motor rehabilitation. Our product, deXtreme™ preforms automatic rebuild of motion range and capability through adaptive/intuitive learning. Based on

unique robotic system that applies Error Enhancement forces, BioXtreme technology helps reprogramming the mind for extreme performance.

www.bio-xtreme.com

