

Villa Beretta Rehabilitation Center - BioXtreme Post Marketing Evaluation Site

Villa Beretta Rehabilitation Center and BioXtreme are proud to announce that they have agreed to conduct a joint evaluation project in the hospital's facility in Costa-Masnaga, Italy.

BioXtreme has developed a ground-breaking robotic device for motor-learning, based on innovative error enhancement technology for upper limb rehabilitation from stroke and other neurological injuries. Villa Beretta is world known rehabilitation center in Italy with a cutting-edge R&D department.

The evaluation project will focus on the effect of BioXtreme's Error Enhancement technology on stroke inpatients, in the sub-acute phase. The evaluation period is planned for 3 months with the possibility to extend with additional 3 months for a total of 6 months. We expected that approximately 10 patients will be treated each months, according to a treatment protocol written by the hospital's clinicians together with BioXtreme's medical advisors. The hospital will also be a referral and demo centre for other rehabilitation facilities interested in BioXtreme's robotic technology.

The project will be supervised by Dr. Franco Molteni, the the director of Villa Beretta Rehabilitation Centre, Department of Rehabilitation Medicine of VALDUCE Hospital. The hospital therapeutic staff was already trained to operate the device and the project is expected to start immediately.

About Villa Beretta:

The Villa Beretta Rehabilitation Centre, Department of Rehabilitation Medicine 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.

Nowadays it has become an international reference centre for neuro-muscular rehabilitation treatments, movement analysis and telemedicine, mainly due to the applied research and development of leading-edge technology applicable to all phases of the different possible rehabilitation pathways. Villa Beretta Rehabilitation Center has a Bioengineering Department equipped with a Gait&Mov Analysis Lab, Virtual Reality Environment for Rehabilitation and a Live Lab to test Innovative Rehabilitation Technologies . In particular VALDUCE has a long time experience in the use of robotics systems in clinical environment, in FES systems and in Virtual and Augmented Reality systems. All these systems are used in the therapeutic setting as well as in clinical trials. Villa Beretta Rehabilitation Center take part in several research projects with the aim to transfer into the rehabilitation activities innovative technologies.

<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 Enforcement forces, BioXtreme technology helps reprogramming the mind for extreme performance.

www.bio-xtreme.com

