

A New Technology to Enhance Motor Activity for Stroke Patients

Functional Electrical Muscle Stimulation (FES) that is directly controlled by motor imagery activates afferent nerve connections to the sensorimotor cortex.

Visit us at **MEDICA 2016** in **hall 17, booth D20!**



recoveriX is an innovative brain-computer interface (BCI) and the first rehabilitation system for stroke patients that pairs brain activity with feedback. It helps the patient regain function of the upper and lower extremities, and can be used in addition to standard therapy. It can also be used in acute, sub-acute, or chronic states.

A unique combination of 3 rehabilitation approaches

Movement imagination can activate specific brain regions. This activation can be detected in the EEG. The virtual reality representation of imagined limb movements (e.g. the left and right hand) supports the activity of mirror neurons. Imagined movement will trigger real limb movement with the help of electrical muscle stimulation. This stimulates brain plasticity, a process in which the brain grows new neural pathways to move the affected limbs again.

recoveriX flagship gyms worldwide

recoveriX can be installed in clinical institutions like hospitals, neurorehab facilities or other therapy centers that are specialized in stroke rehabilitation. The recoveriX flagship gym in Schiedberg (Austria), like our gyms in Barcelona (Spain) and Albany (New York, USA) that will open soon is a special institution where patients can get this training exclusively for post-stroke rehabilitation, and where physiotherapists study how recoveriX works.

Contact

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