



CONNECT

A wristband to treat movement disorders?

Background

Cala Health, a California-based company, focuses on the treatment of tremor disorders. The US start-up was founded in 2014 by Kate Rosenbluth and Scott Delp, who discovered that the site of deep brain stimulation is also accessible via the peripheral nerves of the wrist. From this germinated the idea of treating the movement disorder non-invasively, outside the brain through stimulation at the wrist surface. In 2018, the first product, Cala One, was approved by the FDA and in 2020, the company received the Edison Award for their Cala Trio.

Non-invasive tremor treatment

Uncontrollable, oscillating trembling of the hands or other body parts are the symptoms tremor patients are confronted with. The continuous tremor can have different causes such as stress, age, an unhealthy lifestyle or can also be hereditary. Regardless of the cause, the patients' everyday life is significantly restricted.

Around 5% of the population suffer from some form of tremor disorder, which is the most common movement disorder worldwide. The most widespread form is the action tremor, which is intensified by movement. Up to now, the various forms of tremor have been treated primarily with medication, which does not achieve the desired results for many sufferers and has unpleasant side effects. Other options are Botox injections or surgery.

Medical technology company Cala Health has set an innovative milestone with its world's first wearable for tremor treatment. Research results have shown that the deep brain stimulation needed to treat a tremor can also be stimulated via the peripheral nerves on the wrist. With its Cala Trio products, Cala Health offers an individual therapy solution tailored to the patient's specific tremor.

Affected people wear a special wristband on the wrist of the affected arm that immediately reduces the movement disorder significantly. 75% of users report a strong improvement and relief of symptoms after only 40 minutes. The bracelet measures and recognises the specific form of tremor present and responds by providing mild, peripheral electrical stimulation to the radial and median nerves. This stimulation is transmitted to the ventral intermediate nucleus of the thalamus in the brain, causing an interruption of the pathological tremor frequency signals. The technology behind this is based on accelerometers that detect and measure physiological signals and calibrate individual electrical signals based on these.



Your Connection
to MedTech
Expertise

A wrist-band to treat movement disorders?



A major advantage of the concept is that no medication needs to be taken for treatment and there are no known serious side effects. In addition, the bracelet is unobtrusive and easy to use. At this stage, Cala Trio can only be prescribed by a doctor and cannot be purchased in any other way.

Because of the electrodes on the inside of the wristband, it needs to be replaced after 90 days to maintain the same results. In addition, Cala Trio is not waterproof and some patients report a persistent tingling sensation in their fingers. So far, Cala Health products are only available in the US.

Neuromodular treatment techniques meet your field of interest? Would you like more information or direct contact with a company that has its focus on tremor treatment? We would be happy to put you in touch! We have already researched some national and international companies for you in advance! arcoro CONNECT links innovative trends with people and helps to understand tomorrow's knowledge today.

COMPANY	LOCATION	WEBSITE	FIELD OF EXPERTISE
Cala Health Inc	USA (CA)	https://www.pentracor.de/	Tremor treatment
GyroGear Ltd	UK	https://www.zoll.com/	Tremor treatment
Microsoft Corporation „Emma Watch“	USA (WA)	https://csi360.com/	Tremor treatment
Insightec Inc	Israel	https://bioventrix.com/de/main	Tremor treatment
Sperling Medical Group	USA (FL)	https://www.mhh.de/	Tremor treatment

Visionary personalities, doctors with years of experience and strong opinion leaders - we have done the research for you. Find experts in the field of innovative, non-invasive tremor treatments below. Would you like more information at your fingertips? We will be happy to connect you!



Your Connection
to MedTech
Expertise

A wrist-band to treat movement disorders?



INDUSTRY EXPERT	JOB POSITION	FIELD OF EXPERTISE
Dr. Kate Rosenbluth	Founder & CSO of Cala Health	Tremor treatment
Dr. Dr. Sebastian Schreglmann	Specialist at the Neurological Clinic and Polyclinic of the University Hospital Würzburg (UKW)	Neurology

© arcoro GmbH • www.arcoro.de



Your Connection
to MedTech
Expertise