

Business News Letter

excagol medtech

Since we, the excagol medtech team, are committed to transparency towards interested observers and partners, from now on a regular basis, we will publish a newsletter with a topic that currently concerns us.

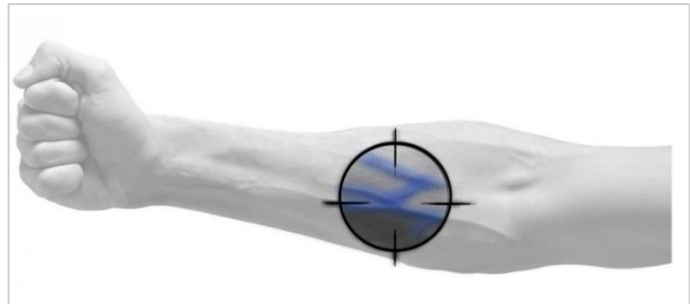
1 The electronic venipuncture automate (EVA) from excagol medtech

Short introduction of excagol medtech

In mid 2021, Eilon Mario Netzer founded excagol medtech with the aim of developing an electronic venipuncture automate (EVA). Shortly thereafter, the company was awarded the second prize for innovative medical solutions by the Sheba Medical Center in Israel. Today, a team of 12 people is working on the implementation of the product vision.

Origin of the product idea

If a suitable blood vessel does not appear to be visible to the naked eye and cannot be found by palpation of the arm, venipuncture can be quite a complex medical treatment. An in-house analysis of several studies shows the average success rate at the first attempt:



Using US and AI for identifying a suitable vein for puncture

One out of four venipunctures fails. This gave rise to the idea of developing an electronic venipuncture device that will replace the classic, manual puncture in clinics and medical practices in the future. With the invention of the product, the excagol medtech team has set itself the goal of increasing the success rate of the first puncture attempt from 75 percent to 95 percent. In addition to increasing the quality of venipuncture and reducing unwanted complications, treatment time and consumables, patients and medical staff should also benefit from psychological relief.

Technical principle of the electronic venipuncture automate

With the help of an ultrasound probe built into the device, the vascular structures of the patient's arm are detected and displayed on a screen, which also serves as a control module. Subsequently, an analysis of the vein localization is carried out using artificial intelligence and a suitable vessel is proposed for puncture. The venipuncture is carried out by means of an automated motor guidance. In addition to a function for taking blood, a function for inserting a peripheral intravenous cannula on the patient's arm is also being considered. Two versions in the form of a semi- and fully electronic venipuncture automate are currently being developed.

Excagol medtech is currently in talks with initial investors and is very interested in further contacts for the further development of the company, including financing, networking, know-how transfer or active cooperation. Further information or the possibility to contact us can be found on the excagol medtech website.

We look forward to hearing from you!