

EZIVEIN PARTNERS WITH NIMBUS TO DEVELOP SOLUTIONS FOR PATIENTS SUFFERING FROM DIFFICULT VEIN ACCESS



BACKGROUND

Industrial product designer Marie Casey, CEO & Founder of McAS Design Ltd went on to complete a higher diploma in health, safety and welfare at work followed by a master's in public health at UCC, before working at the city's Mercy University Hospital. While there, Marie came up with the idea for the EziVein device.

EziVein is a medical aid designed to enhance the visibility of a vein to reduce the time and trauma for a blood draw or IV cannulation in the 35% of patients who suffer from DVA – difficult vein access.

THE NEED

To bring the idea to reality Marie approached the Nimbus Research Centre at CIT. As one of fifteen Enterprise Ireland Technology Gateways, with 60 full-time researchers and engineers on-site, Nimbus provides businesses with innovative software and hardware technical research and development capabilities. EziVein availed of Enterprise Ireland's €5,000 Innovation Voucher funding initiative, which is open to all small and medium-sized limited companies registered in Ireland.



THE SOLUTION

The objective of the work undertaken by Nimbus was to design and develop a vein-detection device that utilises the transillumination approach to detect veins.

The device is designed to be operated by trained medical personnel and to be universally applicable across all demographics. Some of its more novel features include; applicable for single-use, very low-cost materials and a new design for more effective usage.

BENEFITS OF THE ENGAGEMENT

The engagement with Nimbus has had a significant impact for the company. Partnership with hospitals and medically trained staff increases the adoption of this portable and cost-effective device. This can also be useful in training as well as help mitigate patient frustration in the process.

This disposable device is affordable and user-friendly and requires no maintenance or main power. It also allows for procedures to be carried out by a single staff member instead of two.

“My EziVein development with the Nimbus Technology Gateway has been a wonderful experience. The team have been enthusiastic and keen to deliver a high-quality solution from the word go. EziVein will now realise its first serious working prototype accompanied with relevant design and CAD material. EziVein used one innovation voucher with Nimbus and got so much value from it. We will certainly work with Nimbus again.”

- Marie Casey, EziVein.

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