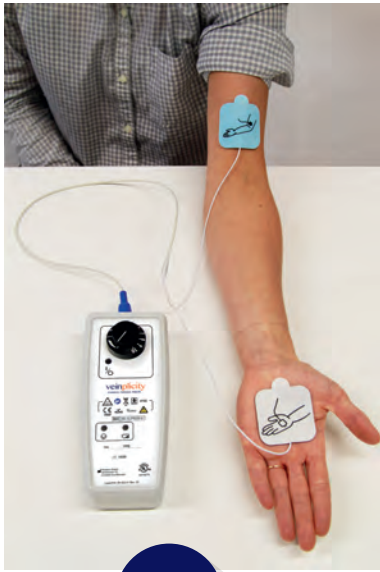


How to use the Veinplicity device

veinplicity
POWERFUL. PORTABLE. PRECISE.



1

Apply the electrodes to the palm of hand and bicep; ensure both plugs are fully inserted



2

Turn on stimulation and gradually increase until tolerability of patient is reached or fasciculation is observed



3

Palpate and **watch** for the appearance of more prominent veins



4

Switch off the device to stop stimulation



Patients should be stimulated between **2 and 10 minutes** depending on the individual profile of the patient and condition of their veins.

The device automatically switches off after approximately 15 minutes of stimulation.

Engorged veins remain palpable for **10 to 30 minutes** after stimulation, allowing practitioners to use both hands to gain venous access.

Having difficulty with venous access?



The problem

UNMET MEDICAL NEED

Using a tourniquet to help gain peripheral venous access has not significantly changed for over 80 years. However, the success rate for venous access is practitioner dependent and varies greatly based on the patient population.

- For example, the first-attempt failure rate for adults in emergency settings ranges from **14 to 26%**^{1,2}.
- Failure rates are even higher in pediatric cases, ranging from **21 to 51%**^{3,4}, depending on the setting.

Access is problematic for many patient groups, including:

- Elderly patients with frail veins
- Obese patients
- Patients with darker skin tones
- Chemotherapy patients
- Trauma patients

Additionally, leaving a tourniquet on for a longer period of time can cause misleading blood values (e.g., potassium); while stressful procedures can increase the chance of anxiety and vasovagal episodes.

The solution

VEINPLICITY®

- Is an innovative, first-in-class electrical stimulation device
- Is used as an adjunct for venipuncture
- Increases local blood volume
- Improves practitioners' ability to gain venous access
- Has a state-of-the-art, robust design
- Is suitable for use in hospitals or in the field

HOW IT WORKS

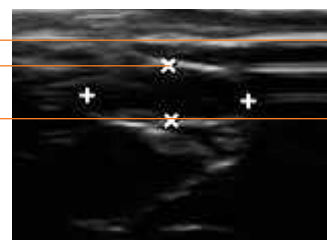
- Utilizes a gentle current to induce a physiological response that increases local and peripheral blood flow
- Vein wall thickens, stability increases, and the lumen diameter expands, allowing easier venous access
- Practitioners have their hands free for venous access procedures

The effect of Veinplicity on the lumen diameter (ultrasound view)

BEFORE stimulation

AFTER stimulation

Increases vein size up to **50%***



*Source: University Hospital Radboud Nijmegen NL

1 Carr, P. J., et al (2016). The Journal of Vascular Access, 17(2): 182 – 190.

2 Lapostolle, F., et al (2007). Intensive Care Medicine, 33(8), 1452-1457.

3 Perry, A. M., et al (2011). Pediatric Emergency Care, 27(1), 5-10.

4 Hess, H. A. (2010). Pediatric Nursing, 36(5), 259.

ABOUT US:

Located in Schaffhausen, Switzerland, Physeon is a boutique medical device company established in 2015. We apply the latest technology and research to rethink current limitations in healthcare and achieve the unthinkable with simple, superior products.

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