Velon

kimea

An integrated suite of software and portable devices for transdermal drug delivery

- Velon is unique
- Easy to use at home
- Customized programs for each user
- Manageable locally & remotely

237.24-C

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Transdermal Methods

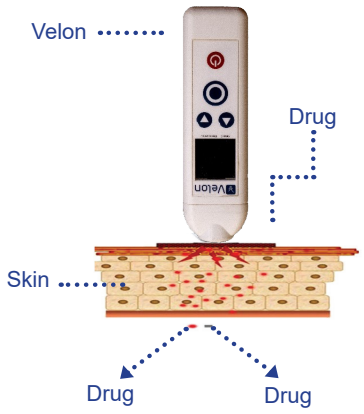
Transdermal drug delivery offers several advantages over traditional administration methods, however only a small percentage of drugs can be delivered due to the skin barrier properties.

To reach a stable therapeutic effect is therefore crucial to enhance skin penetration.

Transdermal Electroporation

Transdermal drug delivery by **electroporation** is a useful alternative to the traditional methods of administration such as oral or injectable means.

Transedermal electroporation is a technology based on a momentary creation of small pores in the skin by applying electrical pulses.



With appropriate electrical pulses, Velon creates a temporary permeabilized state that can be used to deliver a variety of compounds through the skin.

Velon Advantages

Velon is an innovative fully integrated skin electroporation system to be used at Home, Clinic & Spa

Medical & Cosmetics

Velon enhances penetration of a wide range of compounds available in the market. It also supports advanced personalized pharmaceutical or cosmetic formulations.

Personalized

Velon Proprietary Algorithm allows personalized treatments based on user's characteristics.

Home electroporation

The HandVelon compact portable design brings electroporation at home, allowing self tratments in a safe and easy manner.

Non invasive

Velon transdermal drug delivery has advantages over hypodermic injections, which are painful and generate medical waste that can pose risk of disease transmission.

Safe

Velon personalized electroporation signals ensure that low energy is used during treatments, eliminating the risk of inducing skin damages.

Efficient

Velon ensures high drug uptake with reduction of application frequency.

Management Software

Full - featured management software, with automatic Prescription generation, Rental Reports & Adherence Reports.

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System Components

Velon - C
Velon - E

For Clinic/Hospital/Spa use

HandVelon
ClinicVelon

For Home & Clinic use

VelonMate

Velon Mobile App

Velon System Architecture

Kimea

Compound Sequence Library

A wide range of sequencies for commercial compounds and special pharmaceutical formulations

Clinic/Hospital/Spa

Velon - C
Velon - E

ClinicVelon

Full - featured management software

Home User

HandVelon

VelonMate

HandVelon brings electroporation at home

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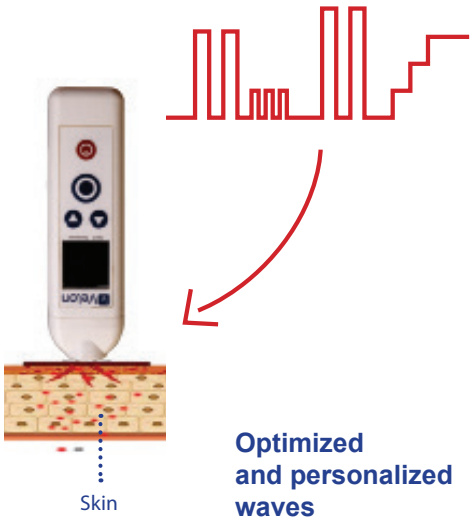
HandVelon™

HandVelon is an innovative handheld device designed for transdermal drug delivery by means of Electroporation



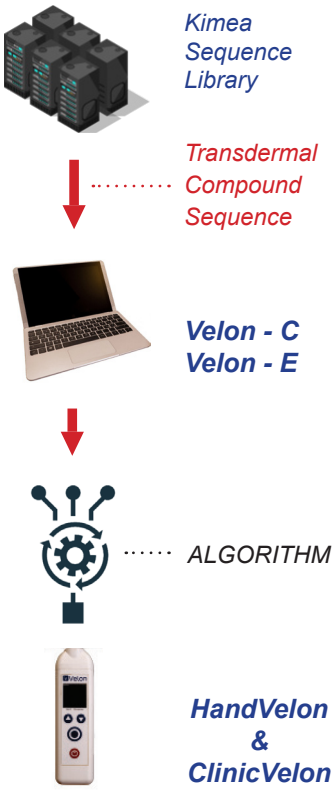
Skin microelectroporation

The pre-programmed electric waves generated by HandVelon create temporary pores on the skin outer most layer enhancing transdermal drug delivery.

Optimized Sequences

HandVelon electrical sequences are optimized for safe and efficient skin electroporation.

HandVelon stores sequences studied by biologists and medical experts, based on the physical and chemical characteristics of the substances to be administered.



Personalization

The Transdermal Compound Sequences - TCS, once loaded on HandVelon are processed by a proprietary complex algorithm for user personalization based on each user feature like anatomical site, age, gender and many other parameters.

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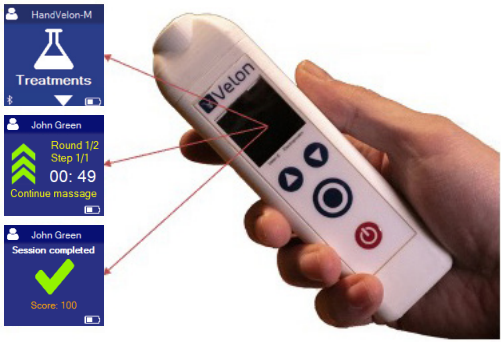
Treatment at Home

Easy to use

HandVelon is compact, very easy to use and designed to support personalized Electroporation Treatment Protocols -ETP- for user safety and convenience.



Treatment at Home

The compact battery operated HandVelon allows user to do self administration in a quick, safe and easy manner.

The device is loaded with customized programs for each user to deliver the prescribed substance.

Home treatments are logged and monitored to ensure strict compliance.

Users who needs repeated treatments can avoid repetitive visits to the Clinic / Hospitals / Spa saving time and money.

How to use

1. **Power on HandVelon and select treatment**

2. **Apply compound to skin**

3. **Hold HandVelon to the skin and massage as per program**

4. **“End of treatment” signal**

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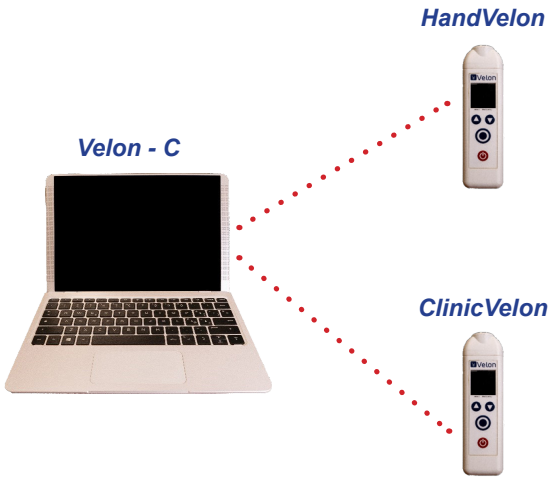
Velon - C

Management Software

Velon - C is a software application developed for easy **Programming**, **Customization** and **Management** of the HandVelon and ClinicVelon portable electroporator devices.



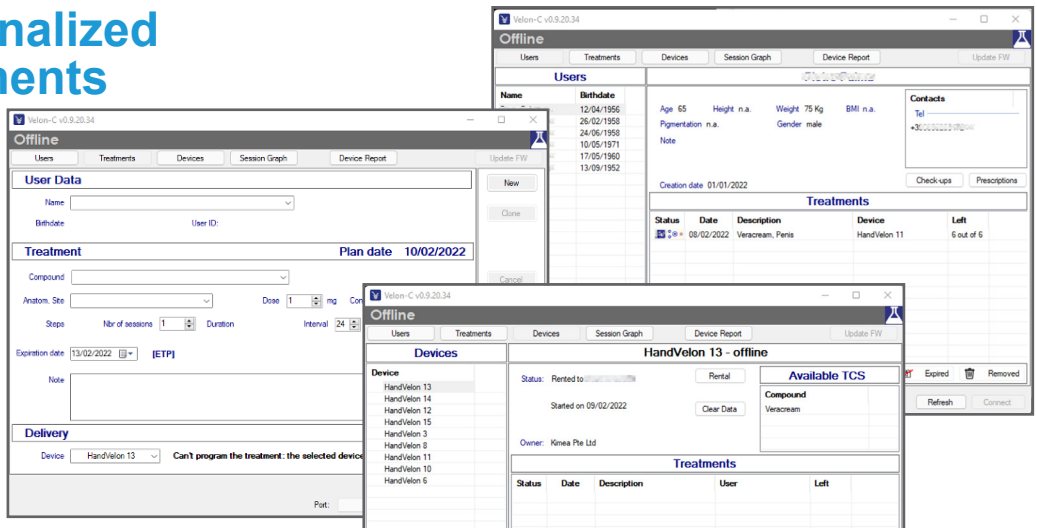
Velon - C main features are:

- **Create Electroporation Treatment Protocol (ETP)**
- **Program HandVelon for home use**
- **Create Compound Prescriptions**
- **Manage the Rental of multiple HandVelons**
- **Create Adherence Report**

Personalization

By means of Velon - C it is possible to program HandVelon and ClinicVelon based on user's data, and substance physicochemical characteristics for a personalized treatment.

Personalized treatments



User & Device Management

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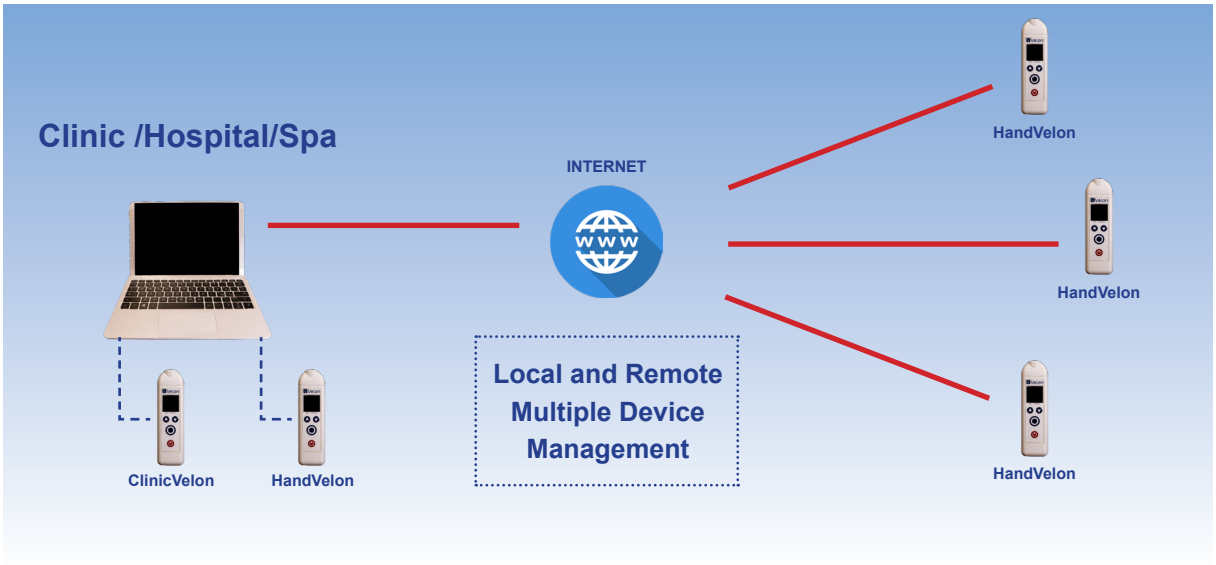
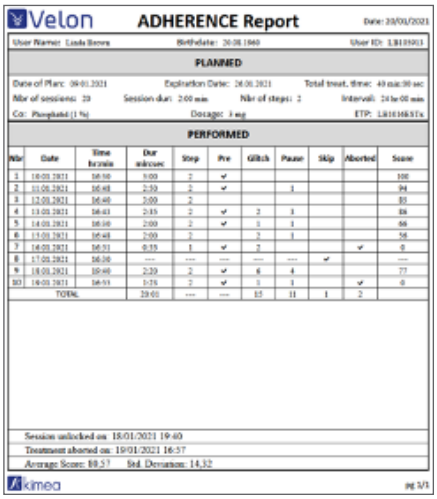
Management Software



Adherence Report

The Adherence Report describes the degree to which a user correctly follows the advices during home treatments.

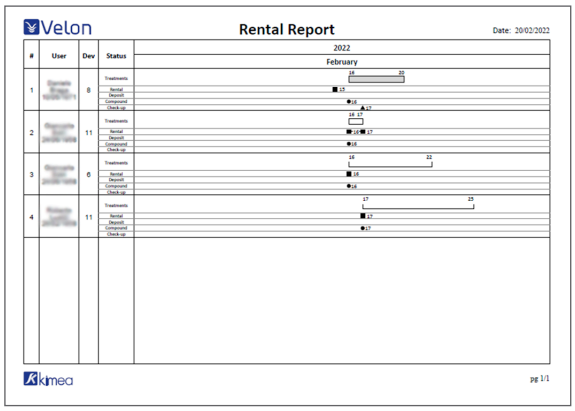
HandVelon logs in real time all the user's treatment data.
Specialists & Doctors can assess patient compliance with all the treatments performed at home.



Rental Report

The Rental Report shows an overview of all active rentals as a given time.

For each rental, the Treatment duration, the Start and End dates, the Compound Prescription and the Rental charges are shown.



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Compound Sequence Library

Wide library of skin electroporation electrical sequences developed for each substances can be downloaded from Kimea Server.

Examples:

- **Prescription only medicine**
- **Over the Counter medicine**
- **Cosmetic products**

Galenic Formulations

Thanks to Velon flexibility and personalization features, a range of Cosmetic and Pharmaceutical formulations are supported.

Velon System Components

HandVelon

Compact, portable, easy to use electroporator

HandVelon - M
Clinic Velon Treatment

HandVelon - E
Esthetics

HandVelon - R
Research

Velon - C

Application software for the management of multiple HandVelon and Clinic Velon devices.

Velon - E

Application software for the management of multiple HandVelon-E devices for Esthetic.

VelonMate

Smartphone App for mobile assisted self treatment.

Velon - SG

Application software for the programming of the electroporation and microcurrent electrical sequences.

Standards & Certifications

CE Mark

EN 60601-1 EN 60601-1-6 EN 14971 EN 1041
EN 60601-1-2 EN 60601-2- EN 980 EN 10993-1

Patents Pending

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