

Easy to use.

Transderm FDA cleared as alternative to injections.

New Internationally Patented proprietary Dermoelectroporation® Technology.

Non invasive.

Current delivery perception protected.

Control on homogeneous ionic drug solution delivery.

100% drug protection against external agents.

Real time skin impedance measurement feature.

Real time transdermal delivery monitoring.

Control on either amount of ionic drug solution to be delivered and time of treatment.

Capability of Transdermal Delivery of ionic drug solution of macromolecules (greater than 800.000Dalton!!).

Users don't need to change their sexisting protocols

Some applications (International doctor's experience):

- Hyperhidrosys
- Skin Rejuvenation treatments
- Wrinkles treatments
- Pre laser treatments
- Pre and post plastic surgery sessions
- Steroids applications
- Replacing injections for Mesotherapy applications and many others

Some deliverable drugs (International doctor's experience):

- Type A Botulinum Toxine
- Phosphatidylcoline
- Hyaluronic Acid
- Aminophylline
- Grow Factors
- Amino Acids
- L-Carnitine
- Lidocaine
- Heparine
- Collagen
- Vitamins
- Steroids
- Elastine
- and many others

**Benefit to patients:**

Astonishing results

Comfortable treatment sessions

No irritations, burnings or inflammations (No return electrode placement

No trauma from injections

# Transderm® ionto DEP System



## Transderm® ionto DEP

(DermaElectroPoration®) **System** is the new Non Invasive, Stand alone powered drug-delivery system carrying Dermoelectroporation® Technology to deliver Ionic drug solutions into the body for medical purposes.

As result of more than five years researches,

Mattioli **Dermoelectroporation®**, technology is consolidated to be an incredible procedure that allows the transdermal delivery of whatever Ionic drug solutions doctor's indicates, which are otherwise not absorbed into the skin because of the typology and dimension of their own molecules.

**Dermoelectroporation®** infact, increases the skin's permeability just using some skin's water based channels opened by a particular controlled current delivered to the patient and allowing the Ionic drug solutions to absobed till hypodermis and muscle membranes.



**Transderm® ionto** has been FDA approved for the "local administration of ionic drug solutions into the body for medical purposes and can be **used as an alternative to injections**".

**Transderm® ionto DEP System** is made of the following devices:

- Power supply and control base.
- DEP Transdermal delivery handpiece with
- Super Precision Liquid Dispenser – Super PLD.

Macromolecules (such as Hyaluronic Acid) previously not transdermally deliverable by traditional Ionthophoresis are now successfully deliverable due to the new Dermoelectroporation® Technology.

**Transderm® ionto DEP System features:**

- Homogeneous drug delivered on the selected area.
- Real time control on the amount of drug to delivered.
- Real time patient's skin impedance measurement for successful drug delivery.
- Drug administration in a timely manner to avoid waste of product with 100% protection against external agents.
- No Electrolysis effect – No drug PH modification
- No need of Pre-charged compounds/ Carrying Gels/ specific products or particular preparations.

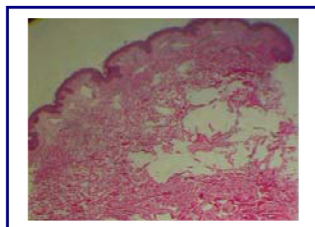
**Transderm® ionto DEP System** ensures speed of action, easier regulation of either current delivery and vibration and monitors skin impedance on real time to give users the final results they expect. The new revolutionalry handpiece allows users to see and manage at best the delivery with no waste of product and getting optimal results.

Operators will enjoy the accuracy provided by the **Transderm® ionto DEPSystem** Handpiece for any skin condition and for any length of treatment.

Patients will enjoy treatments with **Transderm® ionto DEP System** due to the very high comfortable sessions. Vibration feature makes electrical pulses delivery perception to decrease significantly and the handpiece won't allow undesired spilling of product.



1.700.000dalton Hyaluronic acid delivery through the dermis to hypodermis using Transderm® Ionto system – B&A and biopsy courtesy of Dr. Jaggy Rao, MD University of Edmonton ,Alberta,Canada



## TECHNICAL SPECIFICATIONS

**Power Supply** : 110Vac, 1A max, external

**Average Pulse Current** : +/-1 mA, 2 mA, 3 mA, 4 mA, 5 mA, user selectable,  $\pm 20\%$

**Load impedance** : 0 -15 KOhm

**Pulse frequency** : 2200 Hz

**Burst time** : 10 msec.

**Burst frequency** : 50 Hz.

## DERMOELECTROPORATION

**Dermoelectroporation®** is a new named and patented proprietary technology of Mattioli Engineering Labs of Florence, Italy. As result of more than five years researches, Mattioli **Dermoelectroporation®**, technology is consolidated to be an incredible procedure that allows the transdermal delivery of whatever substance operators want, which are otherwise not absorbed into the skin because of the typology and dimension of their own molecules. **Dermoelectroporation®** infact, increases the skin's permeability just using some skin's water based channels opened by a particular controlled current delivered to the patient and allowing the substances to be absorbed till hypodermis and muscle membranes.

**Dermoelectroporation®** allows ionic drug solutions to penetrate down till Hypodermis and it is faster than traditional Iontophoresis.

With **Dermoelectroporation®** micro and macro-molecules (greater than 800 Kdalton in size, such as Hyaluronic, Vitamins, Amino acids, Heparin, Antinflammatories etc) are safely delivered into the body without either modification of the ionic drug solutions pH and Electrolysis effect of the ionic solution itself.

This was not possible with traditional Iontophoresis systems before.



*Mattioli Engineering - A new science in Skin Care<sup>tm</sup>*

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