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## Transdermal Therapy

The Transderm Ionto system is a powered drug-delivery system that has been approved for the local administration of ionic drug solutions into the body for medical purposes and can be used as an alternative to injections. Both positive and negative ions of drugs can be accurately delivered.



The system, which combines traditional microdermabrasion with dermoelectroporation, is designed to provide the benefits of transdermal drug-delivery treatments without the limiting effects of iontophoresis and ultrasound techniques. The instrument can be used on small and larger areas. When connected to the Ultrapeel Crystal T Microdermabrader, it is possible to combine microdermabrasion with dermoelectroporation for accurate transdermal delivery of any type of ionic substances. Since controlled microdermabrasion will boost the transdermal delivery rate, the combination of the two systems allows users to get a higher transdermal delivery flux than normal. Microdermabrasion enables a standardisation of skin characteristics, so the drug delivery rate is reproducible. Macromolecules previously not deliverable transdermally by classical iontophoresis (e.g. heparin, hyaluronic acid and collagen) can be inserted with transdermal therapy.

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