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COMPARISON OF MATTIOLI IONTOPHORESIS, MESOSYSTEMS, THE U225, AND MANUAL INJECTIONS

By H. M. DeBartolo, Jr., M.D., J.D.

This study comprises a double-matched pair comparison of the Mattioli technology, mesosystems, the U225, and manual injection.

MATERIALS AND METHODS

The author was provided the Mattioli iontophoresis, the mesosystems, and the U225 by the manufacturers. The author was provided the prescription materials from Apothecure Pharmacy. The author has no ownership in any of these companies. The subjects in the study ranged in age from 35 to 52. The conditions treated were cellulite, fat pads, skin wrinkling, and skin laxity. There were sixty double-matched pairs for a total of 240 subjects in this study.

TECHNIQUES

Using the Mattioli iontophoresis, a new electrode and new tubing and syringe was used for each patient. A standardized solution was used for each group of four conditions treated. Therefore, there was a separate, standardized solution for cellulite, fat pads, skin wrinkling, and skin laxity. With the mesosystems, a new syringe tubing and needle assembly were used for each patient, and with the U225 a new needle tubing, needle assembly as well as a new spacer were used on each patient. For the group that had manual injection, new syringes and needles were used for every patient and every body area treated.

RESULTS

There were similar results with all four systems with the following exceptions:

The Mattioli system took ten minutes per patient to administer 5 ml. of solution but had the advantage of no needle marks, which was especially important to patients who required treatment in facial areas. The Mattioli had the advantage of being the most pain-free system. The mesosystem was the second fastest to manual injection, which was the fastest. The U225 required the most time to set up and had the disadvantage that there was waste in the syringe and tubing systems with the last cc. not being able to be injected.

CONCLUSION

The Mattioli iontophoresis system compares favorably with the mesosystem, the U225, and manual system and has the advantage of no needle marks and no pain.

**SCAR REVISION AND MINIMALLY-INVASIVE
COSMETIC SURGERY USING
MATTIOLI ENGINEERING TECHNOLOGY**

By H. M. DeBartolo, Jr., M.D., J.D.

The following was presented at the annual meeting of the Illinois Society of Ophthalmology and Otolaryngology on September 11, 2005. Any trademarked or copywritten material is used with the permission of Mattioli Engineering. The author has no ownership or interest in Mattioli Engineering.