TECAR in Plastic Surgery: Preliminary Results

G.S. Toussoun*, A.Faga*
C. Cavallaro ~

* Plastic and Reconstructive Surgery Residency Program - Pavia
~ Nurse from Fondazione Salvatore Maugeri - Pavia

IRCCS Fondazione S. Maugeri
Biological Effects

- Endogenous Temperature
- Blood Flow
- Lymphatic drainage
- Collagen fibers viscosity
- Pain
The Scar in Plastic Surgery

UNAVOIDABLE

DESIRED IMPLICATIONS
- Reduction mammoplasty
- Liposculpture
- Abdominoplasty

UNDESIRED IMPLICATIONS
- Hand surgery
- Joints & orifcial areas
- Flaps surgery
Rationale for TECAR Treatment

- Increase of blood flow in the soft tissues in order to speed up the physiological wound healing processes
- Reduction of edema after surgical trauma
- Reduction of the stiffness in cutaneous scars
- Reduction of the compactness of deep scars
- Reduction of secondary soft tissues contracture.
Pilot Trial

Goals:

- Testing the device safety in plastic surgery practice
- Determining working parameters
- Evaluation of patients compliance

Methods:

- Treatment of recent skin scars
- Treatment of hypertrophic scars
- Treatment of deep scars contracture
- Treatment of post-operative chronic edema in flap surgery
Clinical Results
Clinical Results
Conclusions

- Safe on the skin
- Easy to learn and manage
- Good patients compliance
- Useful in the treatment of late scarring complications

Controlled and Randomized Trial