



Università degli Studi di Pavia

# TECAR in Plastic Surgery : Preliminary Results

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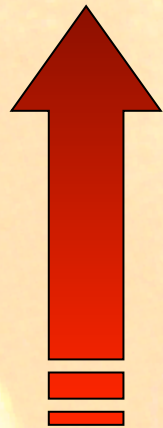
~ Nurse from Fondazione Salvatore Maugeri - Pavia



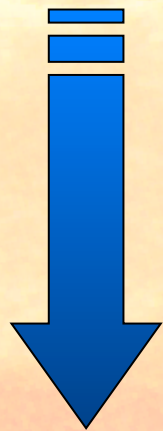
IRCCS Fondazione S. Maugeri

# TECAR® in Plastic Surgery : Preliminary Results

## Biological Effects



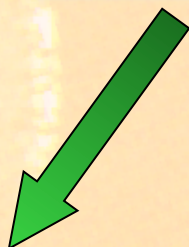
- Endogenous Temperature
- Blood Flow
- Lymphatic drainage



- Collagen fibers viscosity
- Pain

## The Scar in Plastic Surgery

### UNAVOIDABLE



#### **DESIRED IMPLICATIONS**



- Reduction mammoplasty
- Liposculpture
- Abdominoplasty



#### **UNDESIRED IMPLICATIONS**



- Hand surgery
- Joints & orificial 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.**

# **TECAR® in Plastic Surgery : Preliminary Results**

## **Pilot Trial**

### **Goals :**

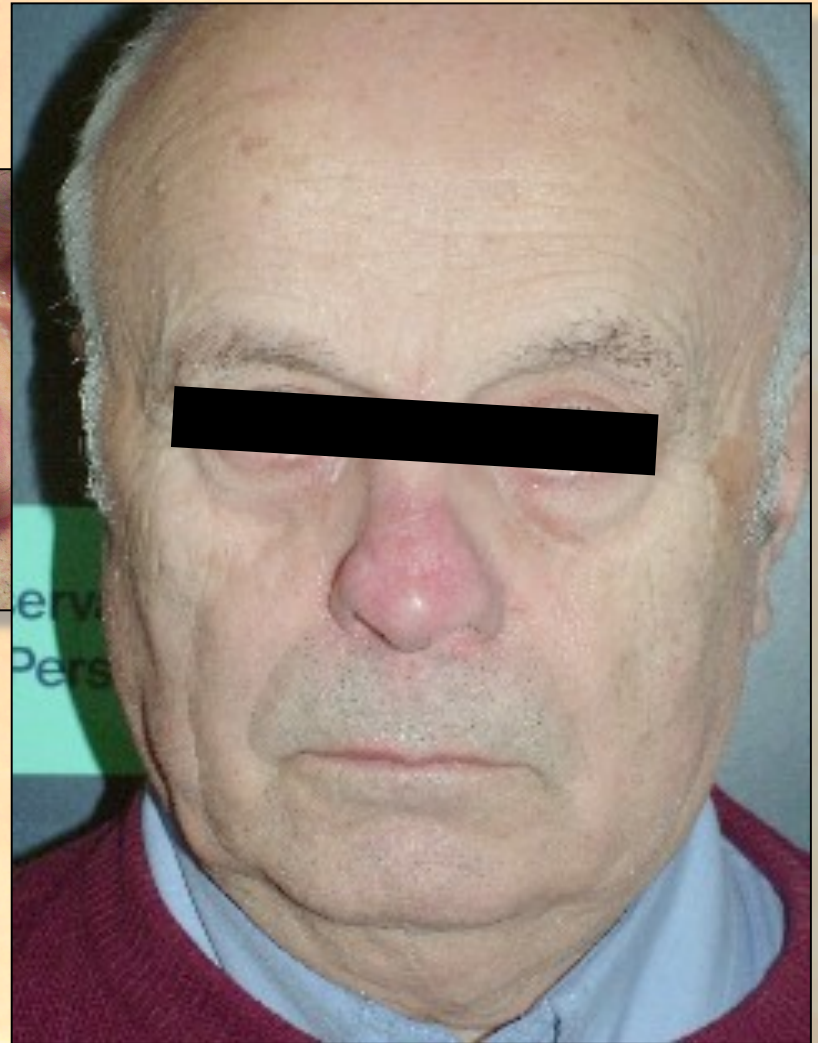
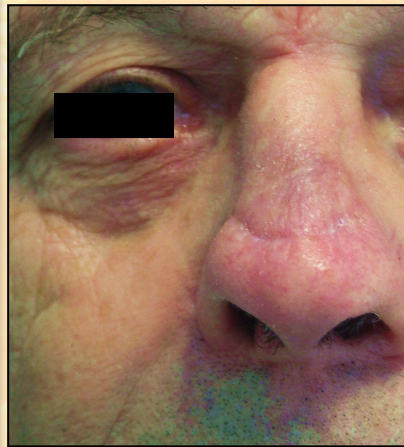
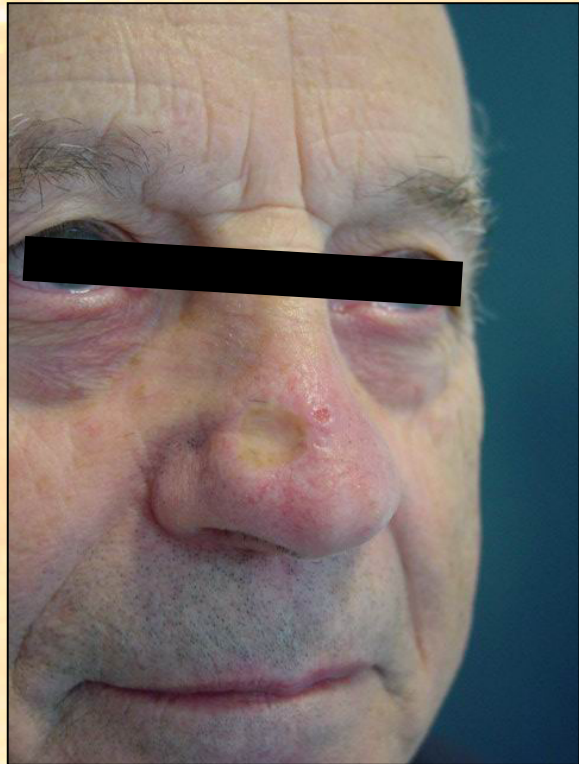
- **Testing the device safety in plastic surgery practice**
- **Determining working parameters**
- **Evaluation of patients compliance**

### **Methods :**

- **Treatment of recent skin scars**
- **Treatment of hyperthrophic scars**
- **Treatment of deep scars contracture**
- **Treatment of post-operative chronic edema in flap surgery**

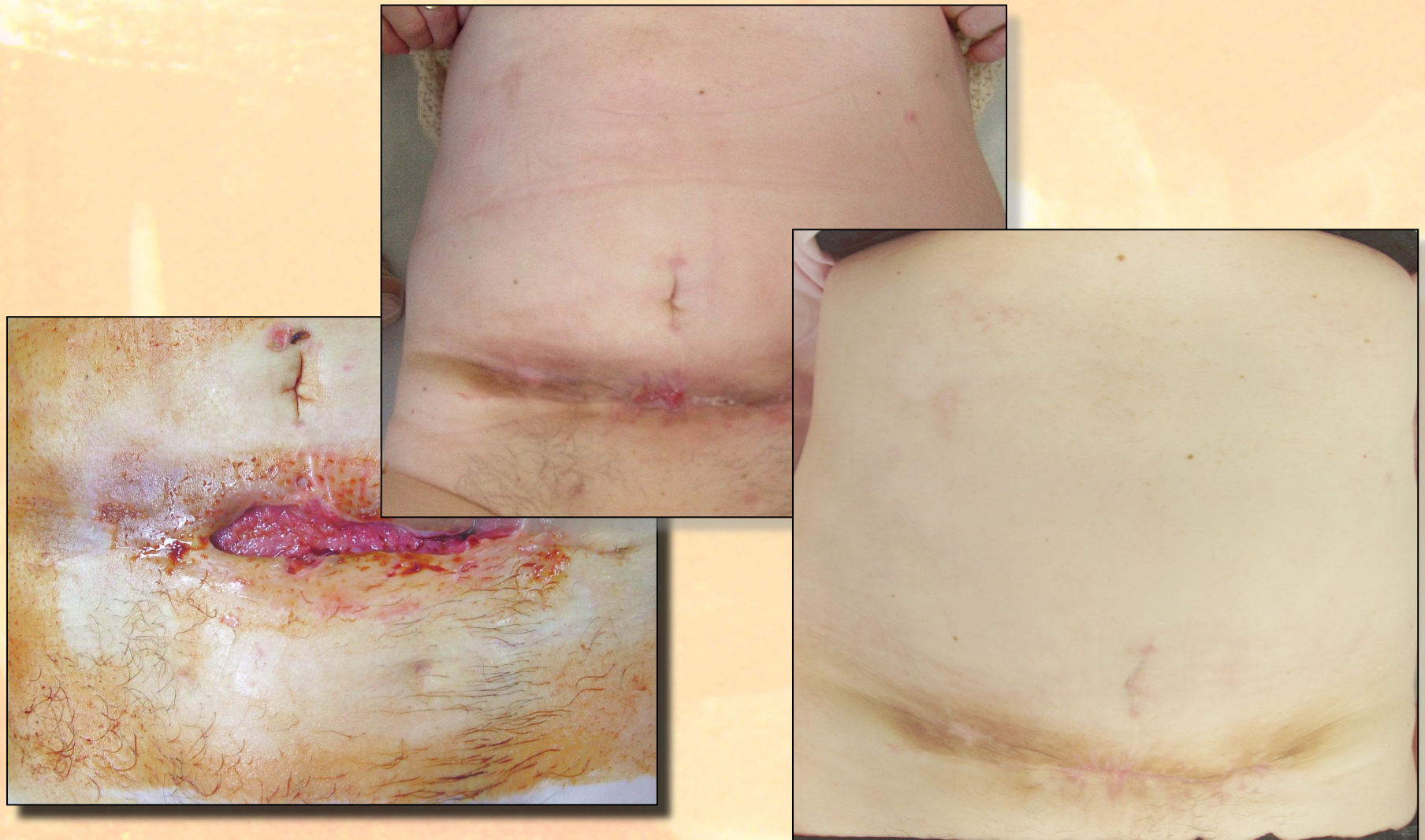
# TECAR® in Plastic Surgery : Preliminary Results

## Clinical Results



# TECAR® in Plastic Surgery : Preliminary Results

## Clinical Results



# TECAR® in Plastic Surgery : Preliminary Results

## Clinical Results



# TECAR® in Plastic Surgery : Preliminary 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**



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# CHIRURGIA PLASTICA

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