



## **LPG® TECHNIQUE IN BURN SCARS: A 14 YEARS EXPERIENCE**

### **L. TEOT**

Unité Brûlés - CHU Lapeyronie, Montpellier

Techniques of mechanisation, able to restore the organisation of the cutaneous scared tissue, in respect of epidermis and skin inflammation are now used since 20 years and can no more be passed round. Set up in 1986, LPG Technique has been used on after-effects of burns since 1991. By shifting of the both rollers located into the treatment head, the formed cutaneous fold is rolled and unrolled. A large choice of protocols allows a measured and adapted stimulation of the aponeurosis and skin connective tissue associated to an improvement of patients and of practitioner requests. The LPG Technique has evolved with 4 steps:

1995: development of the rhythmicity allowing a better control of the microcirculation and the inflammatory evolution.

1997: creation of the active treatment heads in order to preserve the epithelium by an appropriate tangential mechanization

1998: optimisation of the rhythmicity.

2002: creation of two independent motorized rollers (optimisation of tissue mobilisation).

In parallel, different studies have been carried out, allowing the evaluation of its effect on skin pigmentation, vascularization, relief, suppleness, inflammation, itching and pain.

Based on our clinical experience with more than 2500 patients, our lecture presents the choice criteria used by the therapists (epithelium, vitropressure test, sensitivity, oedema, adhesion) and the relation with topography. Then, we'll explain the different mostly used and especially the close relation between rhythmicity, inflammation and skin fragility. Finally, we'll evidence the interest of the LPG Technique when compared with other therapeutic techniques (data invariability, possibility of gentle manoeuvres, and precise adaptation to encountered problems).