

RESUME
CLINICAL SURVEY ON THE THERMO-COAGULATION
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THE THERMO-COAGULATION ON THE TREATMENT OF THE VARICULAS

The varicose illness is relatively well treated in its therapeutic approach and today whatever case of varicose veins, of localisation and of diameter, its eradication is almost assured.

It doesn't go on the same way for variculas. That's a frustrating report, when we know that the demand of **variculas eradication** represents **more than 70% of the consultation claims in plebology**.

The **microsclerose**, even realised by expert practitioners, doesn't bring more than 65% of good results and after numerous sessions so as to obtain a lessening more than a visible disappearance.

The **laser** looks again for its landmark and for the moment there are very few surveys demonstrating its interest in the therapeutic treatment of the variculas.

We have seemed interesting to **study the effects of the thermocoagulation on the variculas**.

The principle of the thermocoagulation is based on the action of a **very high frequency current** (about 4 Mega Hertz) which realises a **thermal lesion** (at the point of a needle a current concentration brings a vibration or a friction of the surrounding atoms creating heat) and non chemical release of NA 011.

Those last years, the thermocoagulation has benefited from **electronic and computer innovations**.

Those **improvements** concern essentially:

the **generator** :

- adapted power
- time of impulse pre-regulated responsible for **optimal energetic effects avoiding any risk of necrosis** (by reducing the time of contact)

the **needle** :

- insulating sheath protecting the non-treated area.
- Only the vessel is treated and the epidermis is not affected.

With those two modifications, we obtain a more **targeted action**, more **efficient** and **devoid of any risks**.

The apparatus is constituted of a generator with programmer and remote control linked to a treadle and to a needle-holder pen, some gold needle ballet of 0.055 and 0.075 mm diameter and a magnifying glass headband.

The **technique** is simple.

After disinfection of the cutaneous area to treat, we take the needle-holder pen above the vessel so as to prick perpendicularly by pressing on the treadle to bring the impulse.

You coagulate on this way the vessel every 2 or 3 mm.

None compressive or haemostatic dressing is useful.

THE SURVEY has included :

400 female patients from 25 to 70 years old have been treated by thermo-coagulation.

Each one of them has been treated on average **during 5 sessions.**

That makes a **total of 2 000 sessions.**

RESULTS

USUAL FOLLOWS

- Instantaneous disappearance of the variculas
- Little papules of erythema in the minutes which follow
- The result is visible at 48 h
- Aspect of scratches during a few days or a few weeks
- Then total disappearance

COMPLICATIONS-INCIDENTS

Nothing to signal

On 2 000 sessions, none side-effects has been discovered

CONTRA-INDICATIONS

Allergy to nickel

Pace-maker

Cutaneous infection

ACTUAL EXPERIENCES

Pain : very bearable

Comfort : None dressing ; None ecchymosis

Availability : The treatment can be effectuated during all the year

Real security

Efficiency very appreciated

ADVANTAGES OF THE THERMOCOAGULATION

- Easy to use
 - Instantaneous disappearance
 - Exceptional allergy
 - No pigmentation
 - No burns
 - Very fast treatment (a session lasts from 10 to 15 minutes at a maximum)
- For 400 to 500 impulses, we borrow in only one session 80 to 100 cm of variculas
- Good efficiency : On all the variculas
 - On the variculas non accessible to the microsclerose (<0.3mm)
 - On the variculas of the feet
 - Can be realised on any kind of skin

CONCLUSION

2 000 sessions, 400 patients and 18 months of detachment

That permits to maintain, thanks to its efficiency and to its innocuousness, today that the thermo-coagulation represents **the optimal therapeutic approach for the treatment of the variculas.**

With the thermo-coagulation, **you change the way of communicating with your patient , you pass from uncertain to the assurance of the result.**
The medical and aesthetic approach results totally transformed.