

Clinical study on

The improvement of stretch marks with a treatment of meso-needling + LED

MESO-NEEDLING AND LED INSTRUMENTAL STUDY ON STRETCH MARKS

Instrumental study realized by an independant **clinical research center in dermatology** (GREDECO, Paris, France) on 15 subjects.

- **Objective** : To measure the improvement of stretch marks (abdomen, hips, buttocks), 1 recent and 14 old, with the association Meso-needling NCTF 135HA + LED.
- **Protocol**: 12 sessions , 1 session per week during 12 weeks
 - Meso-needling NCTF135HA, (1mm needles)
 - LED : Continuous red and pulsed near IR (294Hz) in the same time during 12 minutes (8,64 Joules/cm² for continuous red and 7,2 Joules /cm² for pulsed NIR)
- **Evaluation** at D10 and D90 after the end of the treatment
 - Dermatologic scoring on wrinkled aspect, depth of the stretch marks
 - Profilometric study (Skin Station[®], unit: Volume/ mm²)
 - Chromatic analysis between stretch marks and normal skin (Chromameter Konica Minolta CR/DP-400[®])
 - Standardized photography
 - Measure of dermis density with a high-frequency ultrasound
 - Global efficiency score (0 to 10) done by the subjects.

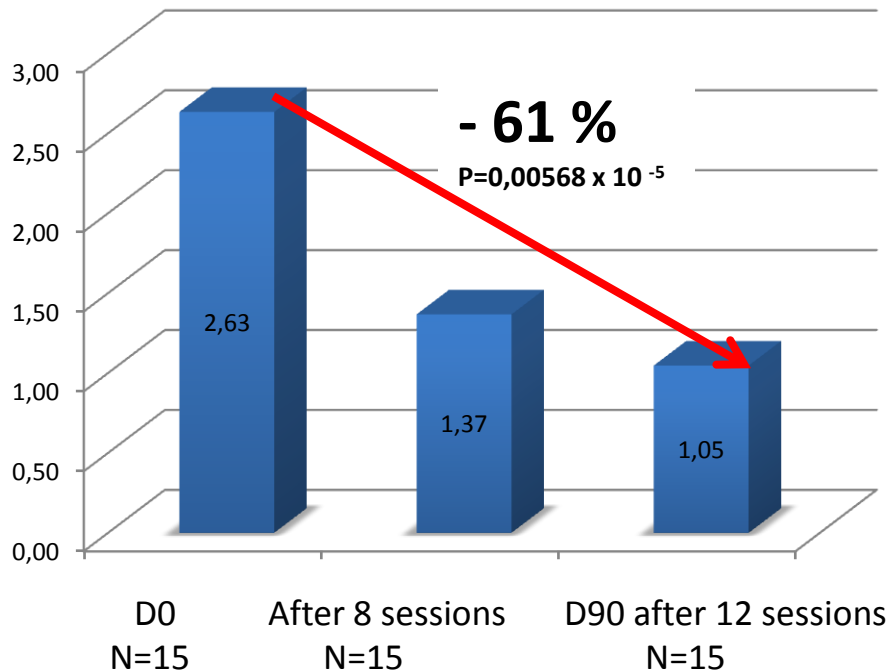


MESO-NEEDLING AND LED CLINICAL STUDY

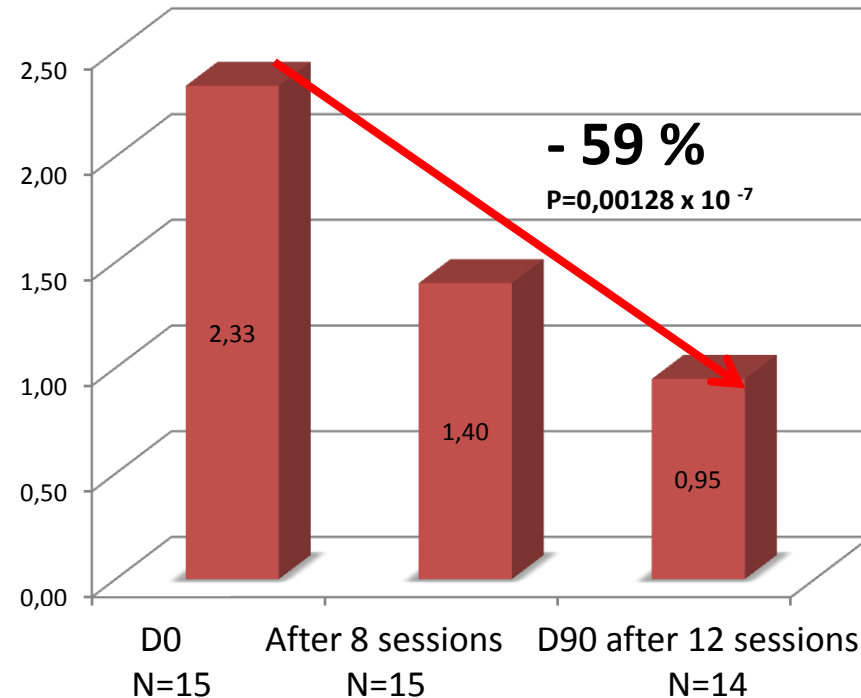
RESULTS OF AN INSTRUMENTAL STUDY ON STRETCH MARKS

Dermatologic scoring on wrinkled aspect, and depth of the stretch marks

Wrinkled aspect
Score 0 to 4 (worse aspect)



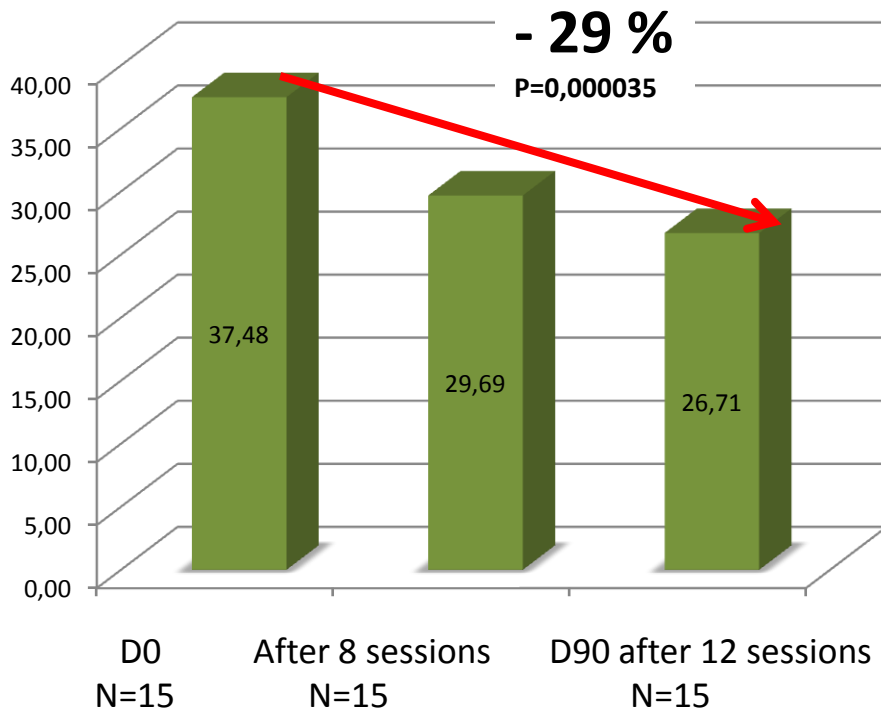
Stretch marks depth
Score 0 to 4 (deepest)



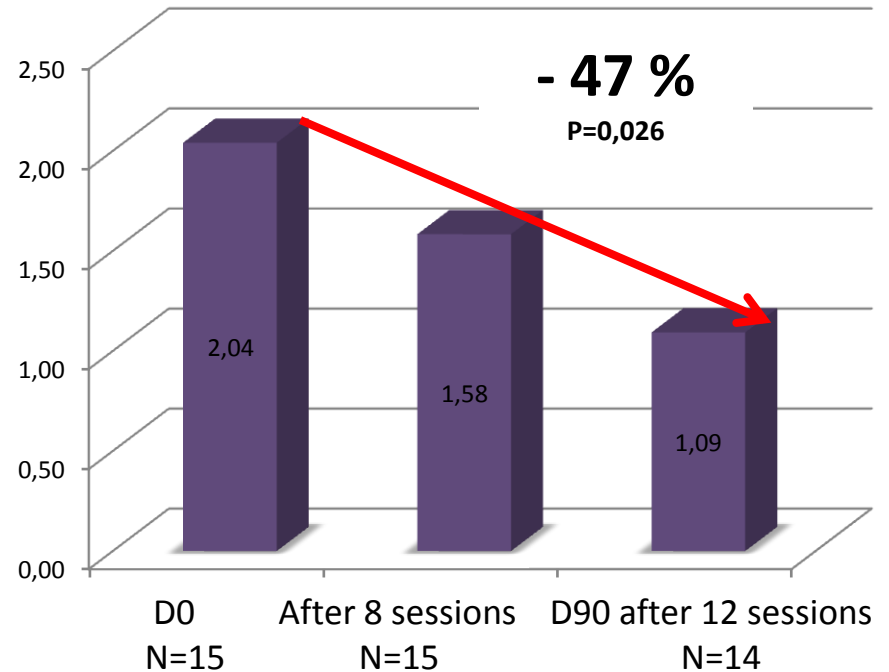
MESO-NEEDLING AND LED INSTRUMENTAL MEASURES

- Profilometric study (Skin Station[®], unit: Volume/ mm²)
- Chromatic analysis between stretch marks and normal skin (Chromameter Konica Minolta CR/DP-400[®])

Profilometric study (V/mm²)




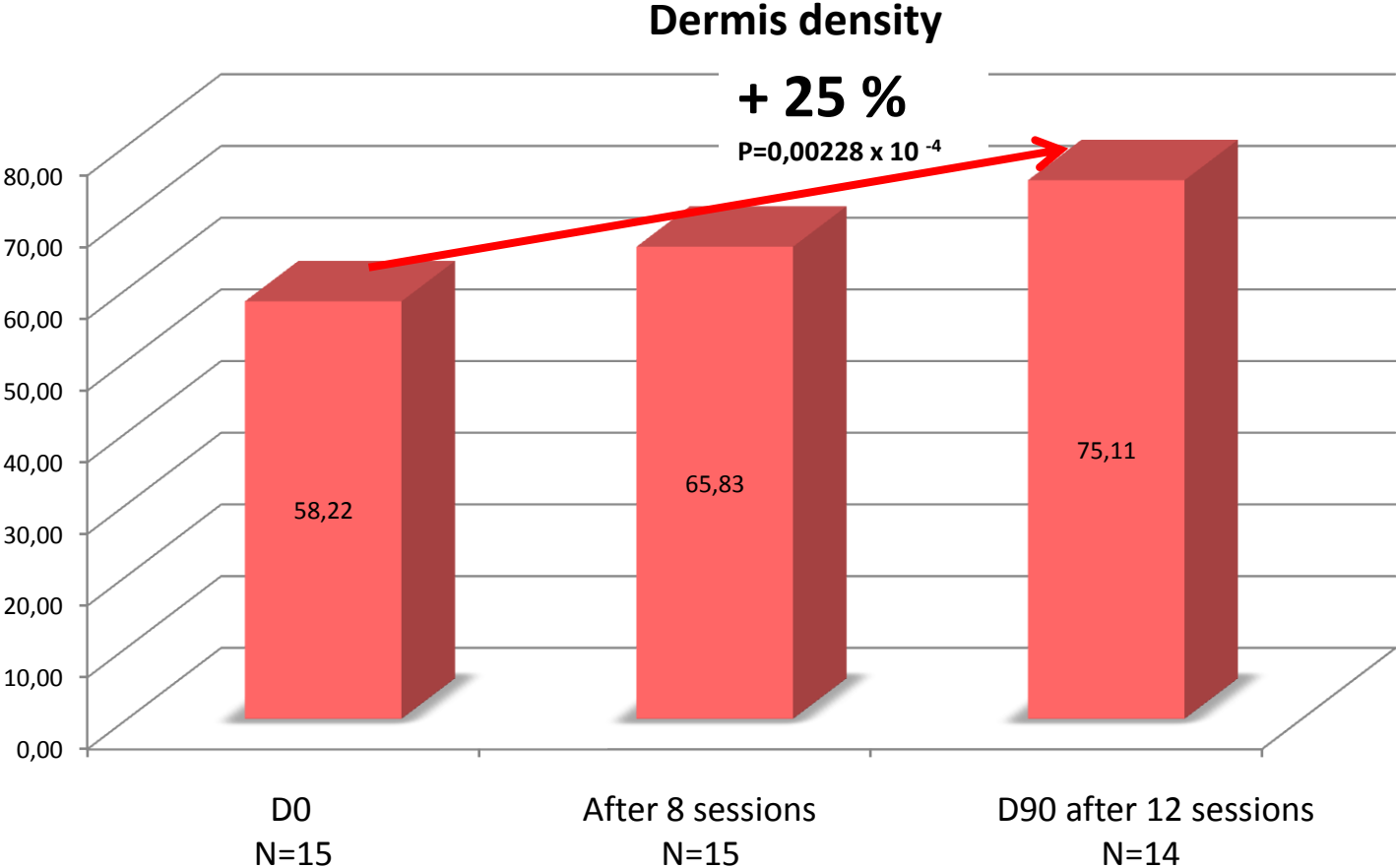
Chromatic analysis (L parameter) between stretch marks and normal skin



MESO-NEEDLING AND LED INSTRUMENTAL MEASURES

Measure of dermis density with a high-frequency ultrasound

 Reflect of the collagen density increased



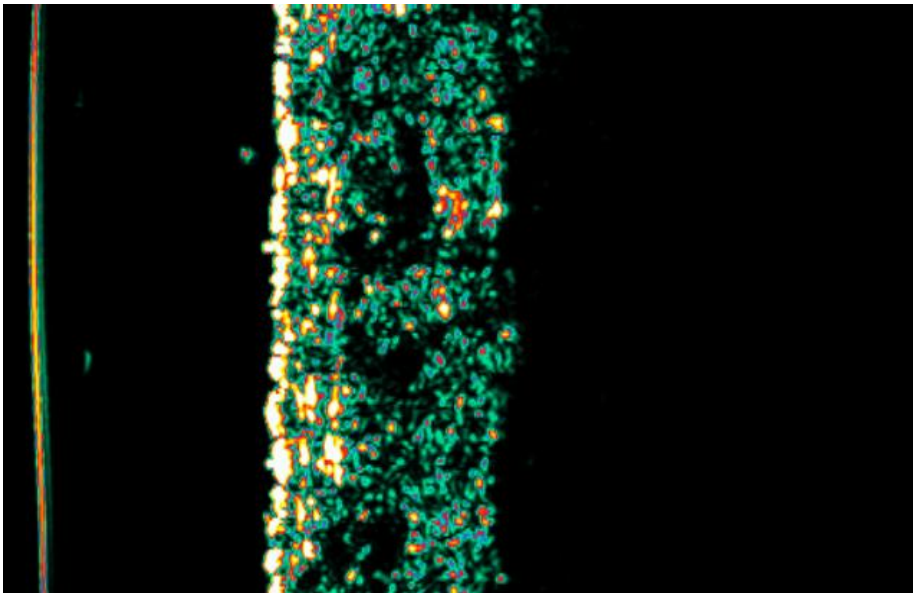
MESO-NEEDLING AND LED PICTURES WITH ECHOGRAPHY

Visible increased of the dermis density (reflect of collagen density)

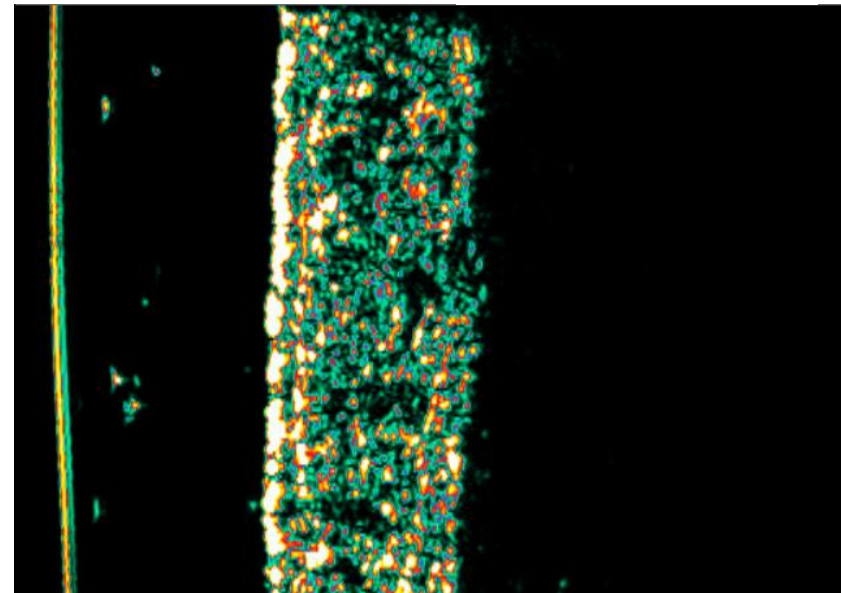
DermscanC-2D USB (20 probe, 20MHz)

Subject 4

D0



D90 after 12 sessions



MESO-NEEDLING AND LED VISIBLE IMPROVEMENT

Very good global efficiency score done by the subjects on a 0 to 10 scale:



7,47 / 10 at 10 days after the end treatment



8,07/ 10 at 90 days after the end treatment

Subject 7

D0

D90 after end treatment



MESO-NEEDLING AND LED VISIBLE IMPROVEMENT

Subject 4

D0



D90 after end treatment



Subject 6

D0



D10 after end treatment

