



BIODERMOGENESI®

A NEW LIFE FOR YOUR SKIN

Traitements des vergetures par la Médecine Régénérative



EXPO ITALIA
MEDICAL AND WELLNESS SOLUTIONS



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EXPO ITALIA E-LEARNING PROJECT

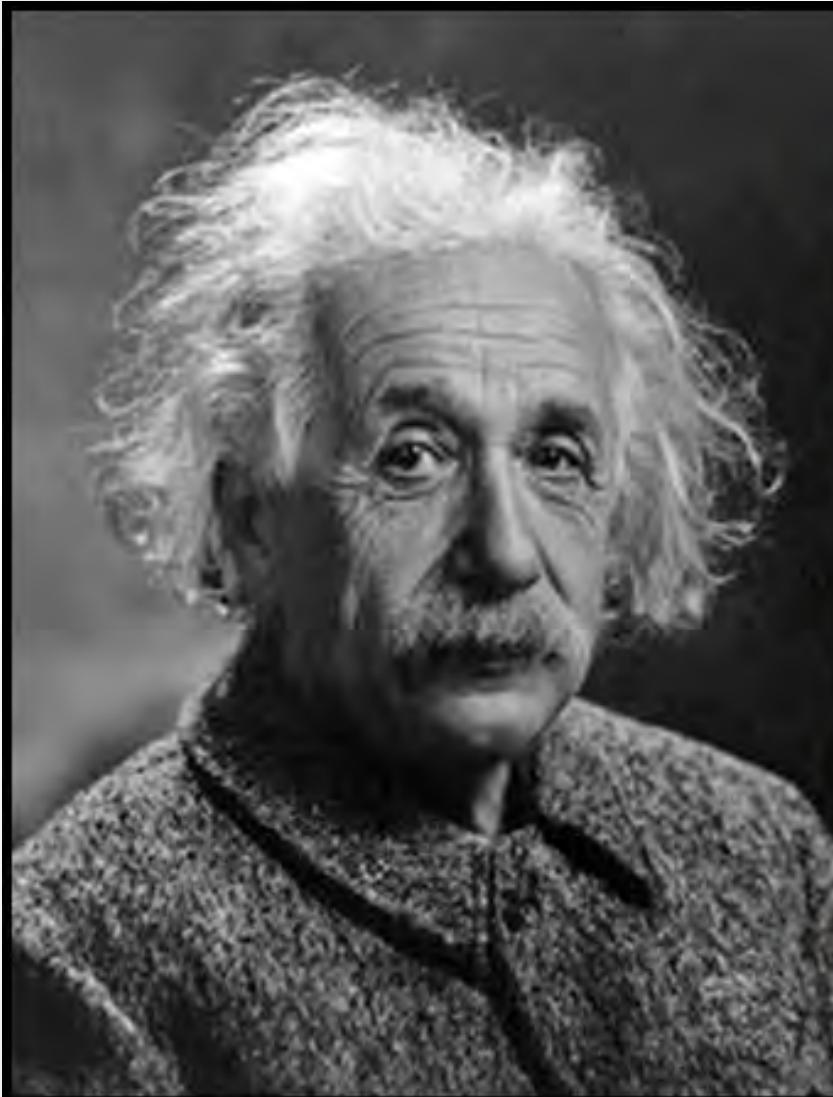


Les vergetures déterminent une forte tension émotionnelle, en particulier chez les femmes, car elles affectent les symboles de la féminité, tels que les seins, les fesses et l'abdomen.

De plus, les vergetures ne bronzent pas !

**Quelle thérapie pouvons-nous proposer ?
Quels résultats pouvons-nous obtenir ?**





*It's easier to
break an
atom than a
prejudice*

*Albert
Einstein*

Pouvons-nous atteindre ces résultats ?

Pre



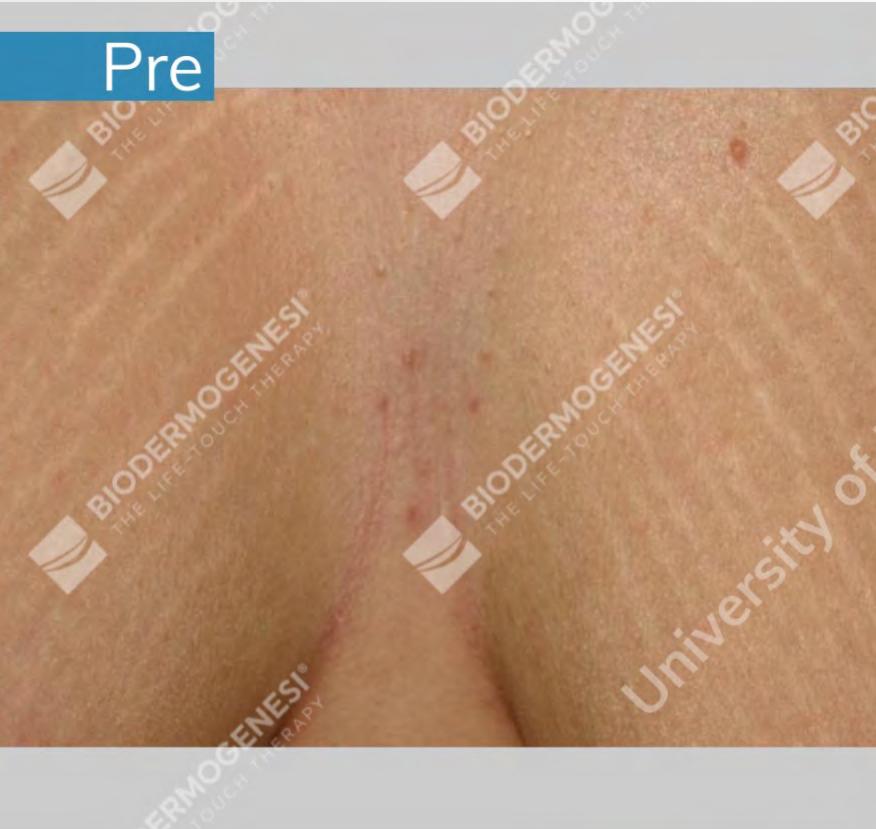
Post



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THE LIFE-TOUCH THERAPY

Pouvons-nous atteindre ces résultats ?

Pre



Post



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Pouvons-nous atteindre ces résultats ?

Pre

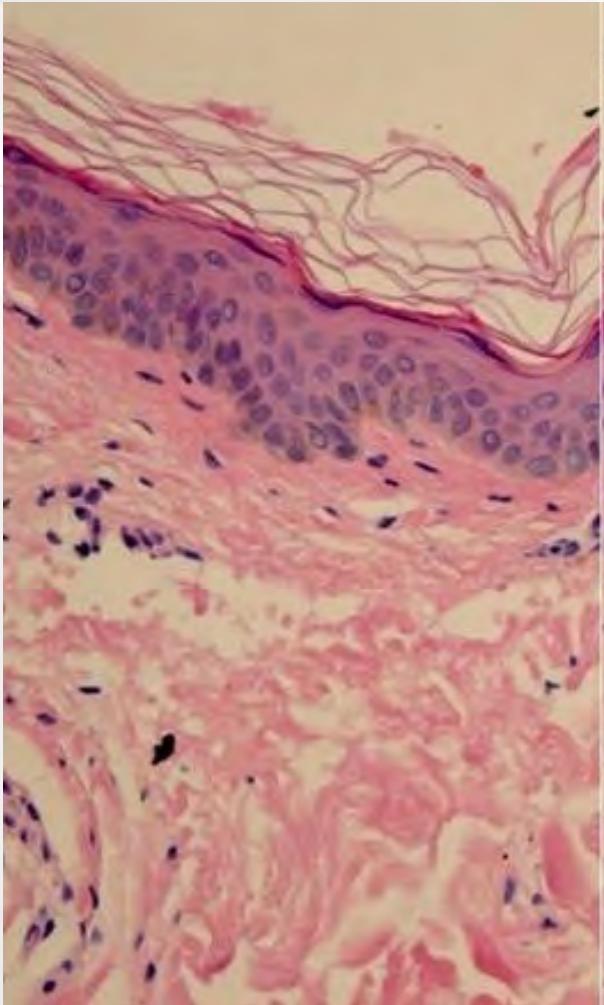


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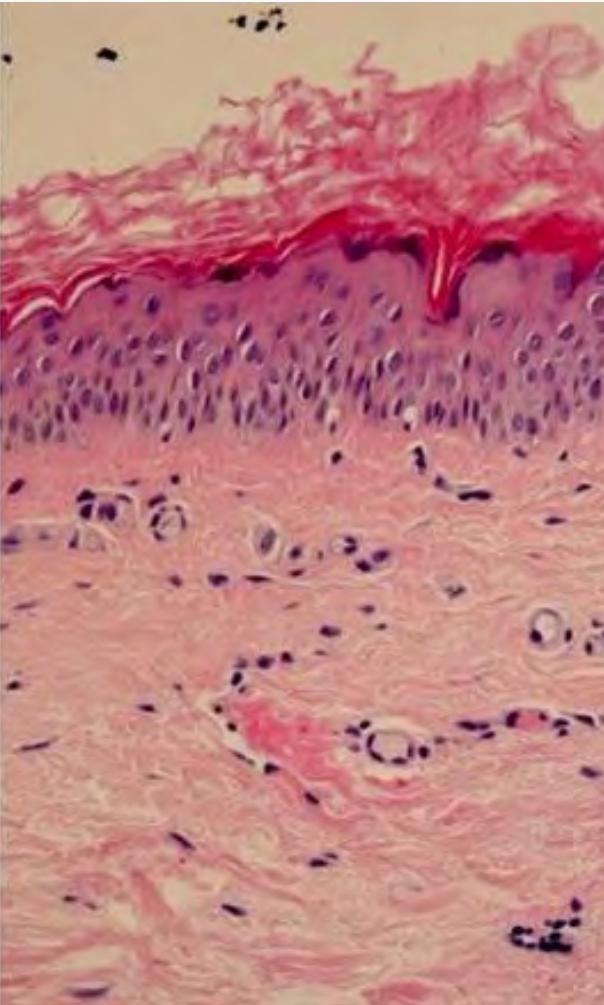


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Peau saine



Peau avec vergetures



Un petit apport d'oxygène
Nourriture mineure de la matrice
Mauvaise récupération des toxines

La matrice est pauvre en facteurs nutritionnels et ceux-ci sont difficilement transférés dans les membranes cellulaires.

La réduction de l'apport en oxygène réduit l'activité biochimique des fibroblastes et diminue la mitose cellulaire.

Les toxines sont des isolants électriques et elles ralentissent l'action de pompage du sodium et du potassium



"Avec cette étude, nous constatons pour la première fois **une véritable restructuration des vergetures sans effets secondaires**. L'aspect le plus significatif est certainement donné par l'uniformité des **résultats**, qui sont certainement **reproductibles sur n'importe quel sujet**, à condition de respecter les protocoles opératoires".



A.Artigiani, G.Cervadoro, B.Loggini, A.Paolicchi

Biodermogenesi: la soluzione non invasiva nel trattamento delle smagliature

School of Specialization in Dermatology and Venereology – University of Pisa
U.O. Dermatology, physiotherapy and Follow-up Burns

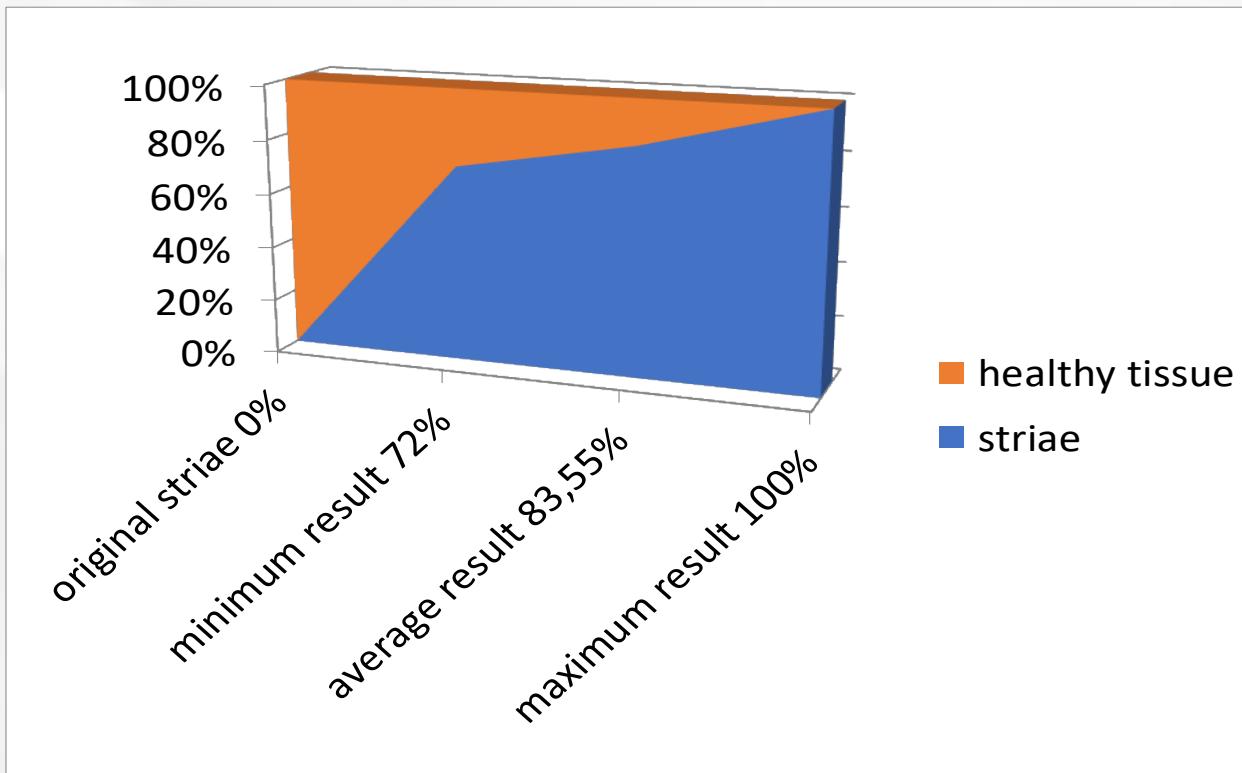


University of Pisa
Director Prof. Gregorio Cervadoro

La Medicina Estetica – 2012/01

Official journal of the Italian Society of Aesthetic Medicine, the International School of Aesthetic Medicine of the International Fatebenefratelli Foundation and the Italian Academy of Aesthetic Medicine.

Biодermogenesi® : le traitement des vergetures



Le comblement des vergetures



School of Specialization in
Dermatology
and Venereology – University of Pisa
U.O. Dermatology, physiotherapy
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Director Prof. Gregorio Cervadoro

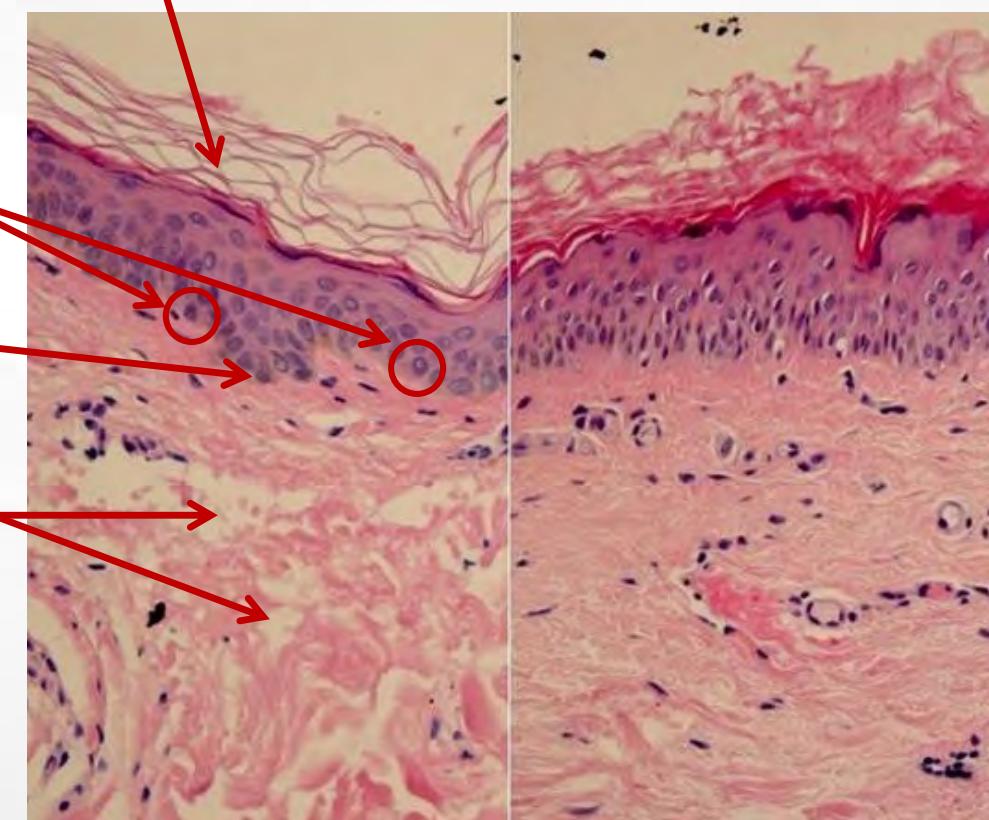
Biodermogenesi® : le traitement des vergetures

Réduction de l'épaisseur de la couche cornée

Mélanocytes

Rénovation de la membrane basale

Nouveau collagène non fibrotique de type III



Vergeture de 7 ans après les traitements Biodermogenesi®

Vergeture de 7 ans avant les traitements Biodermogenesi®



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and Venereology – University of Pisa
U.O. Dermatology, physiotherapy
and Follow-up Burns
University of Pisa
Director Prof. Gregorio Cervadoro



Bioidermogenesi® treatment is based on the synergy, never used before, between electromagnetic field, vacuum and electrostimulation.

ACTIVE PLUS HANDPIECE

Two-color diagnostic check-led in real time



**Electromagnetic field generator
shielded disk**

**Chamber of air for the production of
calibrated vacuum with varying intensity**

**Group of electrodes for electrostimulation
with rotation of the polarity**

Disposable hygienic cover



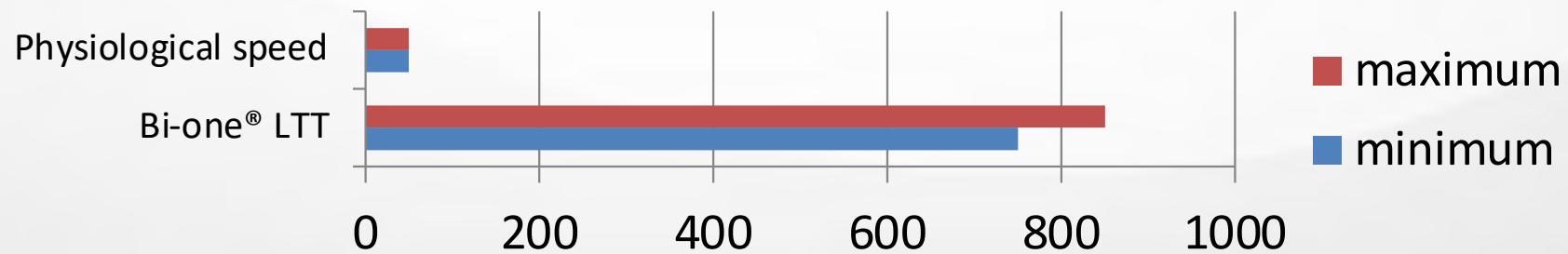


by



En utilisant une plateforme numérique développée par NXP Semiconductors, du groupe Philips, une application de bio-feed-back a été mise au point. Grâce à cette application, nous pouvons mesurer la vitesse du champ électromagnétique à travers le tissu cutané, en comparant la vitesse physiologique et Bi-one 2.0 LifeTouchTherapy.

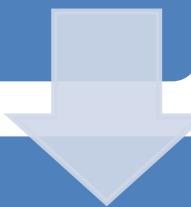
Bi-one® LifeTouchTherapy = accélération ionique entre **750 et 850 mv**
Vitesse physiologique = accélération ionique de **50 mv**



Activité accrue de Na + et K + à travers les membranes cellulaires (augmentation de la vitesse)



Influx proportionnel plus important d'oxygène et d'éléments nutritifs à l'intérieur des fibroblastes et des cellules



Augmentation proportionnelle de la production de collagène, de fibres élastiques et de la mitose cellulaire



BDG BODYSHAPING

FIELDS OF APPLICATION

Stretch marks, cellulite, skin hypotonia of body and breasts.

WORK PROGRAM

From 6 to 12 sessions, determined in advance with the BODY SHAPING evaluation form, to be performed with a frequency of 1 or 2 per week.

BENEFITS

Stretch marks

- Effective stretch marks on any type of stretch mark and on all skin types*
- Stretch marks fill with an average of 83.55%*
- Reduction of the tactile sensation to the touch*
- Tanning of the stretch marks on 100% of patients undergoing a complete cycle of sessions*
- Absolute absence of side effects and down time*
- Stable results after follow-up performed over 5 years

Skin hypotonia of body and breasts

- Quantitative and qualitative increase of elastic fibers*
- Increased firmness and elasticity
- Remodeling of the treated area

Cellulite

- Reduction in volume and evidence of the nodule**
- Greater uniformity and compactness**
- New angiogenesis



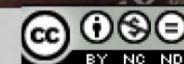
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Doctor Pierantonio Bacci - Doctor
Sabrina Frappi - Rome, Italy



aesthetic medicine

Official Journal of the
International Union of Aesthetic Medicine UIME

Indexed on:

Scopus®



Alberti G, Laura S.

Treatment of stretch marks aged more than twenty years with the synergy of electromagnetic field and vacuum. Clinical case studies and subsequent follow up. Aesthetic Medicine 2019;
5(1)14-21



Stretch marks regenerate, fill and tan progressively, the skin is more toned and elastic.
(Patient before the therapies, after the therapies and a first cycle of sun exposure and after the second cycle)

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Journal of Applied Cosmetology

Indexed on:

Scopus®

The synergy between vacuum and electromagnetic fields in the treatment of striae distensae: retrospective study on 917 patients with clinical and histological case records

Bacci P.A. MD, Alberti G. MD, Amuso D. MD, Artigiani A. MD, Benitez Roig V. MD, Di Nardo V. PhD, Garcia-Gimenez V. MD, Greco D. MD, Laura S. MD, Pagano M. MD, Reale A. MD, Sarracco I. MD, Saracoglu S. MD, Urbani C. MD, Venditti E. MD, Wade M. MD, Zunica R MD.

Les patients :

Phototype	I	II	III	IV	V	VI
Patients	22	325	348	105	73	44

	Women	Men
15-20 years old	92	18
21-30 years old	309	34
31-40 years old	291	11
41-50 years old	99	4
Over 50 years old	65	0

Les vergetures:

< 2 years	2-5 years	6-10 years	11-20 years	>20 years
263	165	278	372	178

Arm	Breast	Abdomen	Kidney area	Gluteus	Thigh	Calfs	Shoulder
90	146	322	63	346	215	42	32

Pregnancy	Puberty	weightlifting	Hormone therapy	Other	No idea
407	221	9	85	64	131

Les résultats:

	VAS doctors	VAS patients	
No improvement	0 (0%)	0 (0%)	Unsatisfied
1-25% of improvement	24 (1,91%)	31 (2,47%)	Slightly satisfied
26-50% of improvement	184 (14,65%)	183 (14,57%)	Satisfied
51-75% of improvement	485 (38,61%)	523 (41,64%)	Very satisfied
76-100% of improvement	563 (44,83%)	519 (41,32%)	Extremely satisfied



Les résultats:

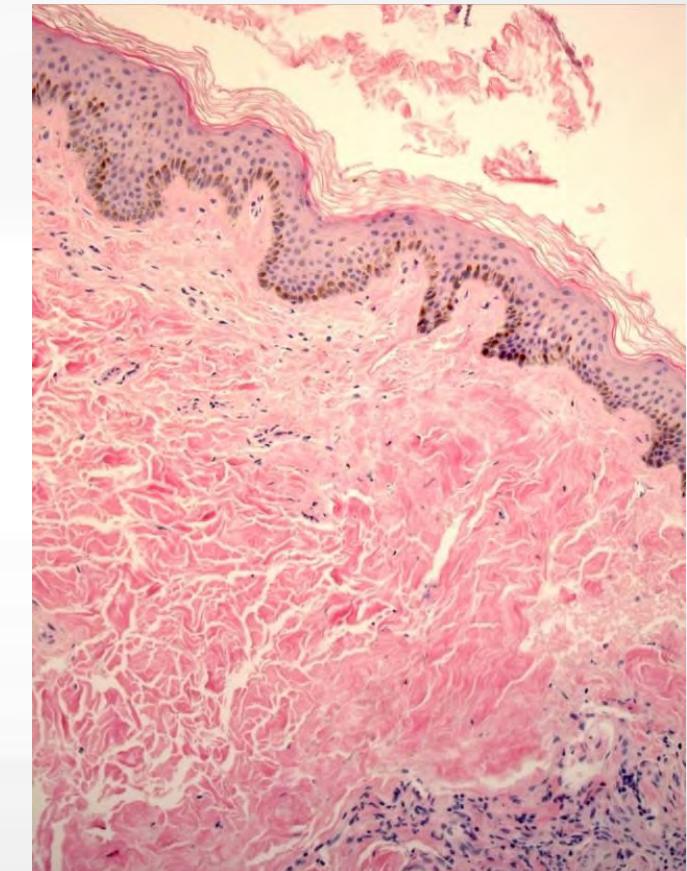
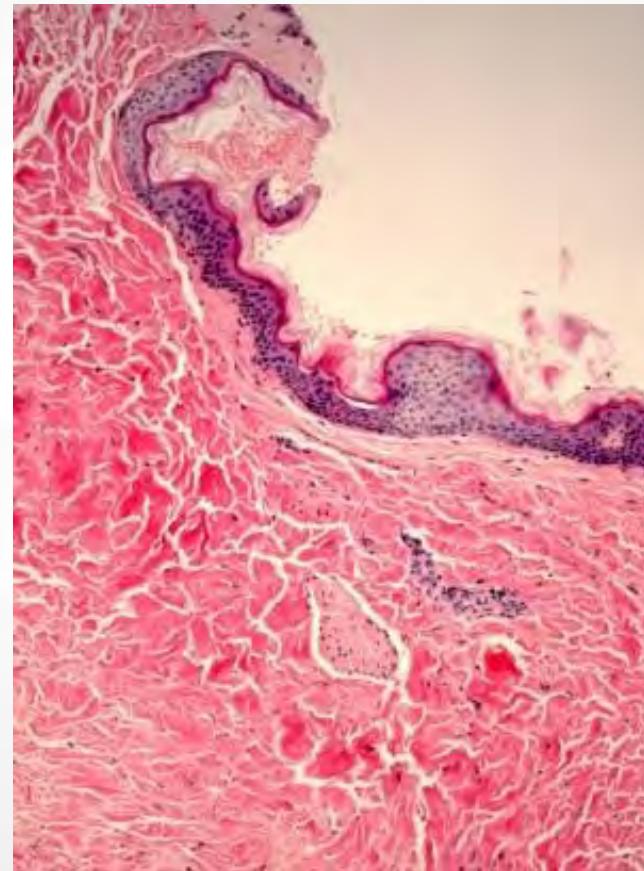
Analyse du bronzage sur 297 patients analysés :

100% des patients avec des vergetures bronzées – 297 sur 297



Les résultats:

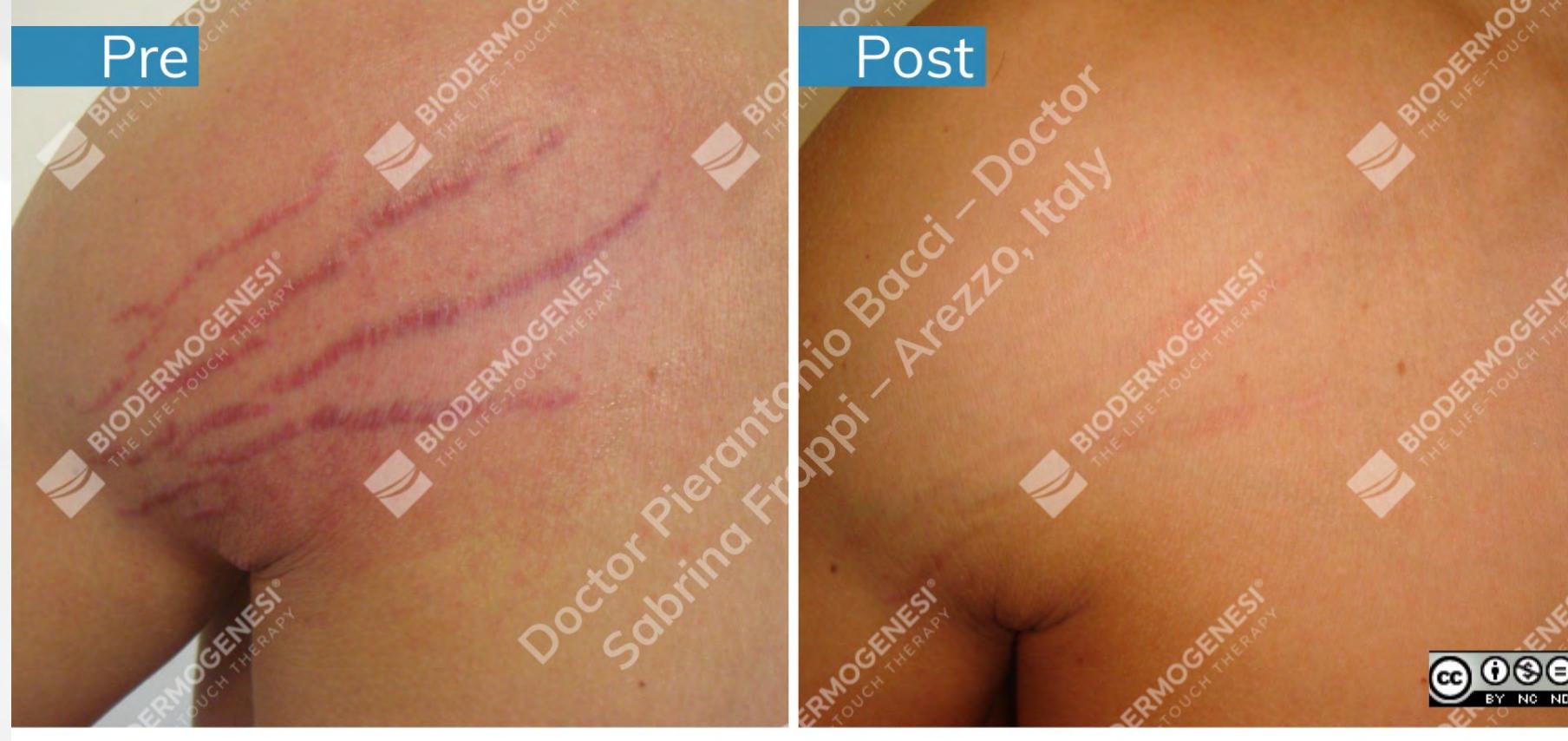
- Patient de phototype VI
- Vergeture de 25 ans
- Avant et après 7 séances Biodermogenesi®



Les résultats:

Effets secondaires, même légers,
constatés sur 9 784 thérapies réalisées:

0



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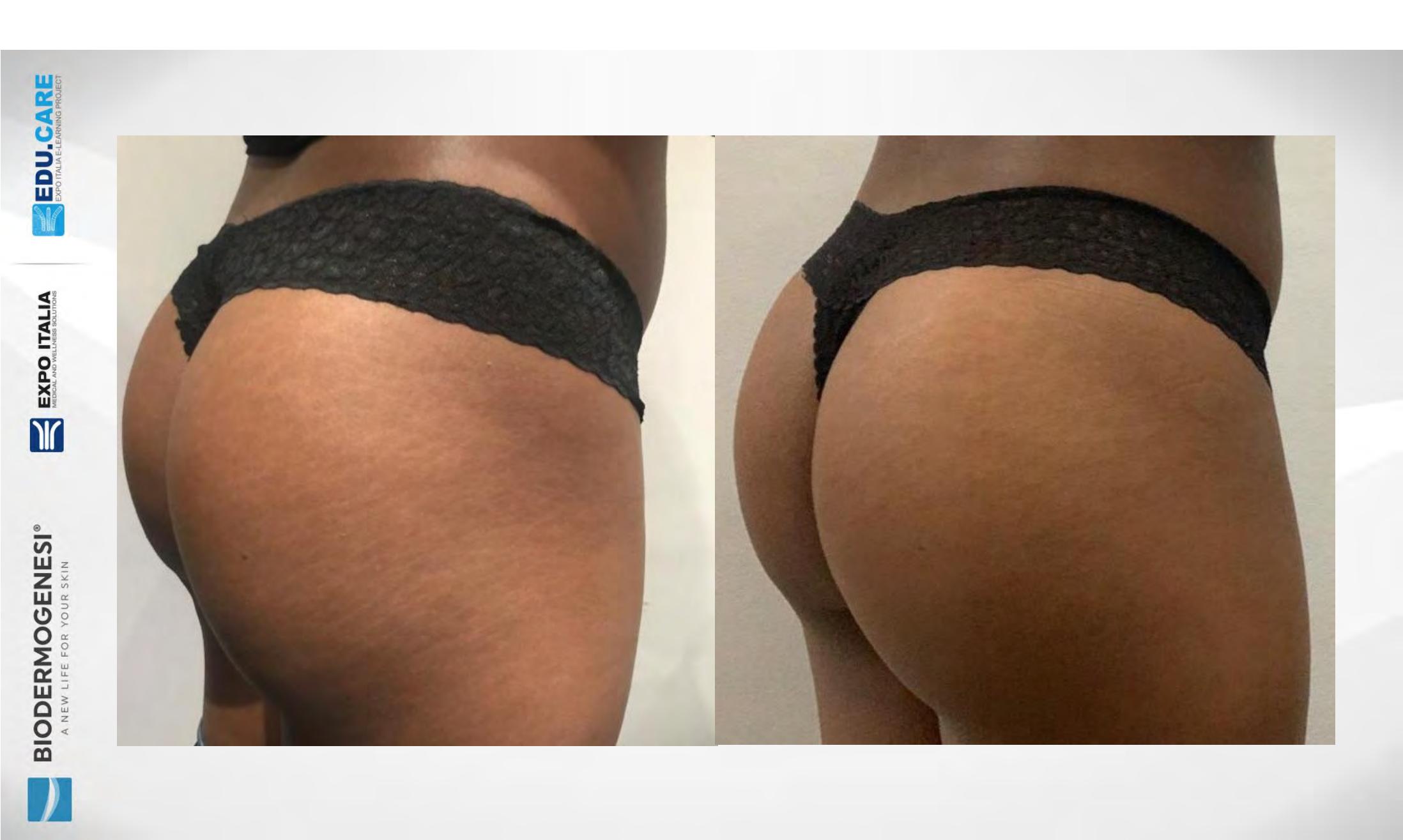
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Journal of
Cutaneous and Aesthetic Surgery

D. Amuso, A. Sbarbati, R Amore, E.L. Iorio, G. Ferraro, F. Lorusso and A. Scarano
A new treatment for stretch marks and skin ptosis with electromagnetic fields and negative pressure: a clinical and histological study.

Conclusions:

*Biopsies proved that the tissue was reorganized and restored to the original volume, characterized by the production of new, high-quality collagen and elastin molecules, by the reorganization of the basement membrane and by the correct positioning of the melanocytes. **No side effects were observed during the treatments.***

Indexed on:



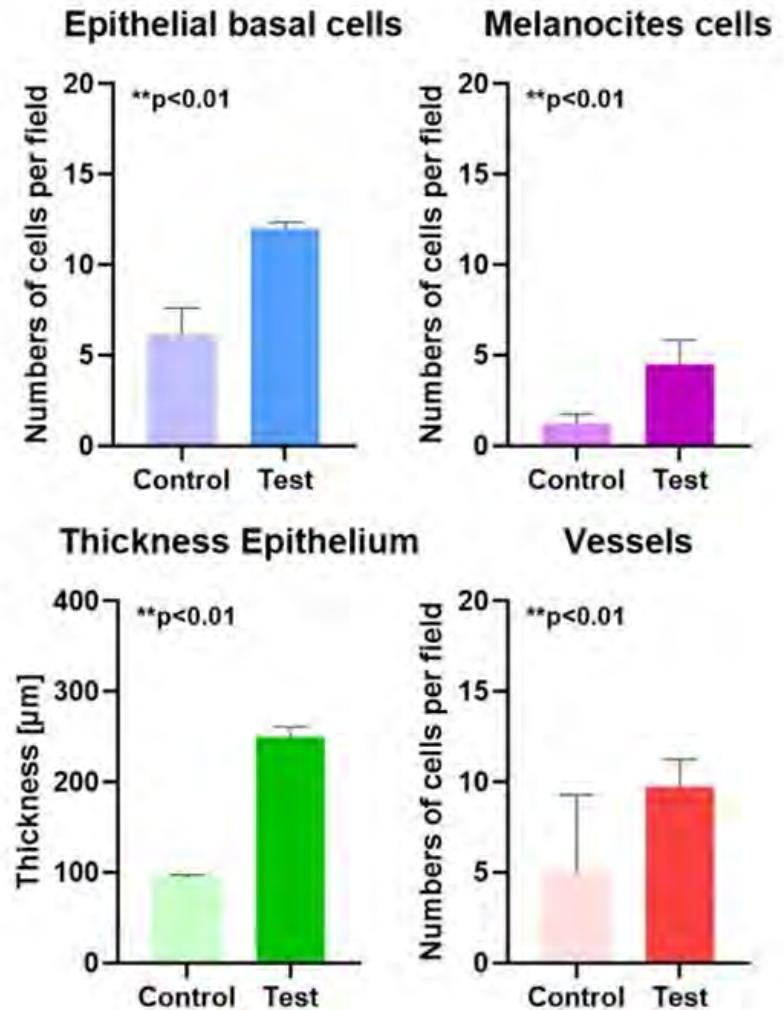
Journal of **Cutaneous and Aesthetic Surgery**

**60 patients with white stretch marks
treated with Biodermogenesi® and
outcomes evaluated with biopsies and
histochemistry.**

Histochemistry found:

**Type III collagen
elastic fibers
melanocytes
basal cells
angiogenesis**

**In addition to the reorganization of the
basement membrane.**





BDG DERMACARE

FIELDS OF APPLICATION

Hypotrophic scars, hypertrophic scars, keloids, burn scars.

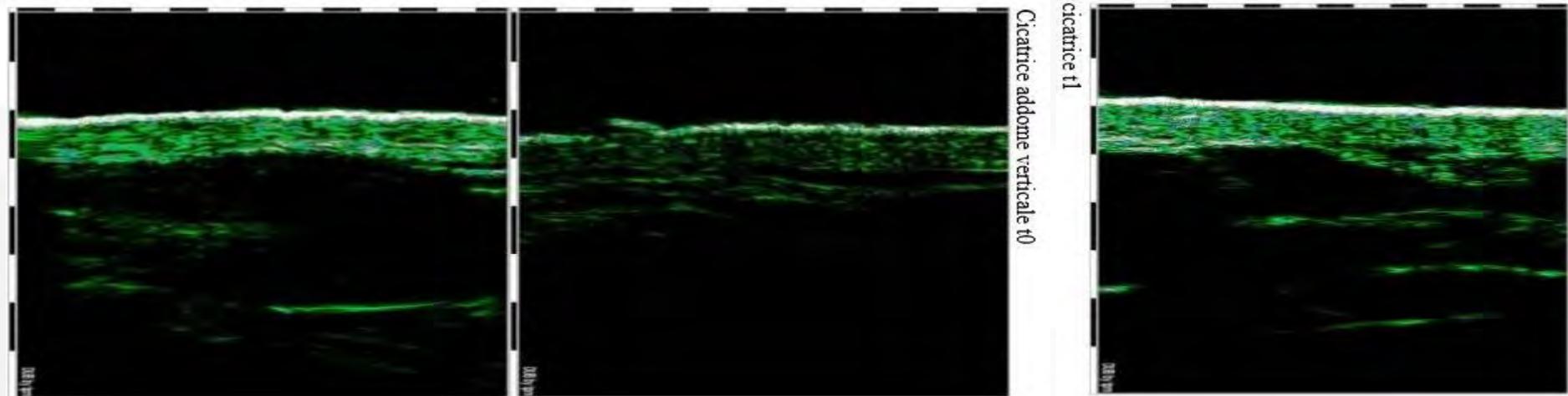
WORK PROGRAM

From 6 to 12 sessions on a weekly basis

BENEFITS

- **Filling of hypotrophic scars***
- **Retraction and flattening of hypertrophic scars* and keloids**
- **Reductions in fibrosis induced by scars***
- **Remission or reduction of pain induced by scars***
- **Recovery of joint motility reduced by scars***
- **Softening of scars, even in the skin transplantation cases**
- **Reduction of skin discoloration***

L'organisation structurelle des fibres de collagène régénérées récupère les propriétés optiques comme la peau saine.
Echographie 1 (tissu sain T0) et 3 (cicatrice T1) (Absorption de la lumière, réfraction, réflexion).Archive: Pavia University



Échographie du tissu sain près de la cicatrice et échographie de la cicatrice sur l'abdomen avant le traitement Biodermogenesi®.
Sur la droite, échographie de la cicatrice après les traitements Biodermogenesi®.



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PHOTOMEDICINE and LASER SURGERY

Indexed on:



Traitements des cicatrices hypertrophiques par l'association de la radiofréquence capacitive monopolaire, de la stimulation électrique et de la pression négative : une étude expérimentale in vivo sur l'homme.

Conclusions

Le traitement local, séquentiel et combiné des cicatrices hypertrophiques avec une stimulation électromagnétique et électrique de faible intensité en association avec une pression négative a démontré un effet synergique favorable sur le remodelage du réseau de collagène et de fibres élastiques de la cicatrice. Une amplification des effets de trois différentes énergies physiques bien connues a donc été obtenue sans aucun effet secondaire.

G. Nicoletti, O. Jaber, P. Perugini, S. Bellino, P. Capra, A. Malovini, A. Faga



Indexed on:



Veronese S, Beatini AL, Urbani C, Lanza E, Mosquera Paz O,
Saussaye Y, Lomuto M, Sbarbati A.
V-EMF treatment of facial scar: First results.
J.JTV.2022.07.22.



Archivio Dottor Claudio Urbani – Roma







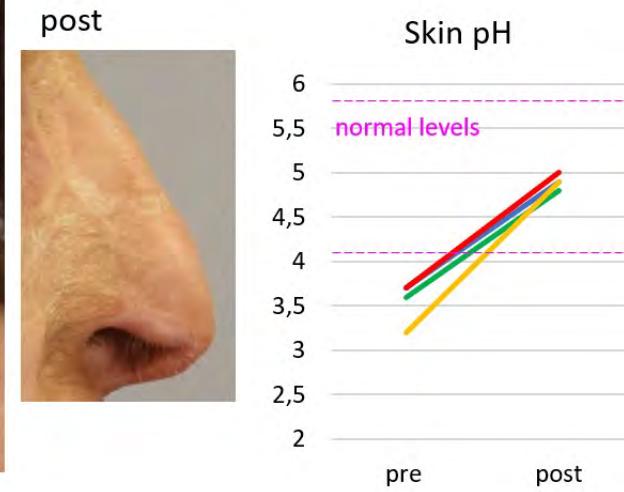
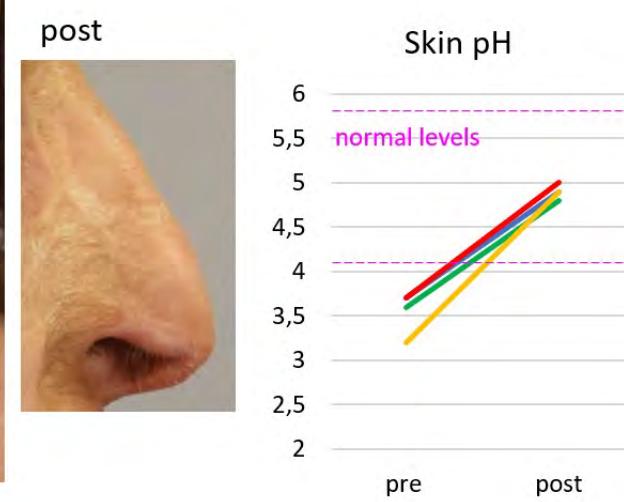
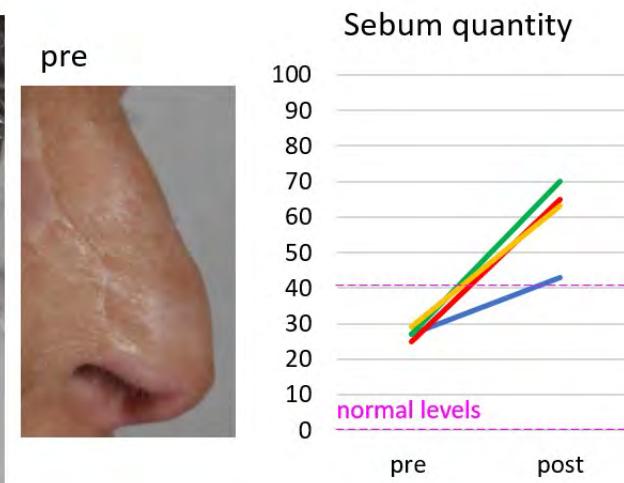
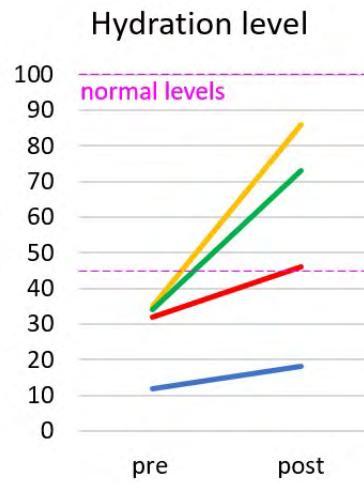
iu bioengineering

Indexed on:



Veronese S, Brunetti B, Minichino AM, Sbarbati A. Vacuum and electromagnetic fields treatment to regenerate a diffuse mature facial scar caused by sulfuric acid assault. Bioengineering 2022, 9, 799.

<https://doi.org/10.3390/bioengineering9120799>



— forehead — right cheekbone — left cheekbone — chin

Pourquoi connaître et traiter les vergetures est-il extrêmement important pour un gynécologue ?

Une avant première

V-EMF therapy: A new painless and completely non-invasive treatment for striae gravidarum.

Furthermore, the presence of striae seems to be a predictive marker of the risk of intraperitoneal adhesions in case of repeated caesarean delivery,⁴¹⁻⁴⁷ perineal trauma during delivery,⁴⁸⁻⁵⁰ and pelvic organ prolapse.⁵¹ There also appears to be a correlation between the presence and severity of striae and the presence and severity of stress urinary incontinence,⁵² pelvic floor pain,⁵³ low back pain,⁵⁴ and obstetric anal sphincter injury during childbirth.⁵⁵

Thérapie V-EMF : un nouveau traitement indolore et totalement non invasif pour les stries gravidiques.

Par ailleurs, la présence de stries semble être un marqueur prédictif du risque d'adhérences intrapéritonéales en cas de césarienne répétée (41-47), de traumatisme périnéal lors de l'accouchement (48-50) et de prolapsus pelvien (51). Il semble également y avoir une corrélation entre la présence et la sévérité des stries et la présence et la sévérité de l'incontinence urinaire d'effort, (52) des douleurs du plancher pelvien, (53) des lombalgies, (54) et des lésions obstétriques du sphincter anal pendant l'accouchement. (55)

41. Sönmez S, Akselim B, Karaşin SS. The effectiveness of preoperative diagnostic methods in predicting intra-abdominal adhesions before repeat cesarean section delivery. *Rev Assoc Med Bras (1992)*. 2023; **69(4)**: e20221455. <https://doi.org/10.1590/1806-9282.20221455>.
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43. Elprince M, Taha OT, Ibrahim ZM, Khamees RE, Greash MA, Atwa KA, et al. Prediction of intraperitoneal adhesions using striae gravidarum and scar characteristics in women undergoing repeated cesarean sections. *BMC Pregnancy Childbirth*. 2021; **21(1)**: 286. <https://doi.org/10.1186/s12884-021-03763-z>.
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46. Celik EY, Ersoy AO, Ersoy E, Yoruk O, Tokmak A, Tasci Y. Is striae gravidarum related to cesarean scar and peritoneal adhesions? *Pak J Med Sci*. 2018; **34(3)**: 568-573. <https://doi.org/10.12669/pjms.343.14288>.
47. Dogan A, Ertas IE, Uyar I, Karaca I, Bozgeyik B, Töz E, et al. Preoperative association of abdominal striae gravidarum with intraabdominal adhesions in pregnant women with a history of previous cesarean section: A cross-sectional study. *Geburtshilfe Frauenheilkd*. 2016; **76(3)**: 268-272. <https://doi.org/10.1055/s-0042-101545>.
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- Kokanlı MK, Ersak B, Tugrul D, Elmas B, Doganay M, Caglar AT. The neglected secret: Association of abdominal striae with stress urinary incontinence in primigravid pregnant women. *Eur J Obstet Gynecol Reprod Biol*. 2022; **275**: 37-40. <https://doi.org/10.1016/j.ejogrb.2022.06.011>.
- Lichtman Y, Horev A, Matyashov T, Rotem R, Katz ME, Eshkoli T, et al. Association between striae gravidarum and pelvic floor dysfunction symptoms during pregnancy. *Int Urogynecol J*. 2022; **33(12)**: 3441-3447. <https://doi.org/10.1007/s00192-022-05249-8>.
- Kokanlı D, Çağlar AT. Hidden association between the presence and severity of striae gravidarum and low back pain in pregnancy. *Eur J Obstet Gynecol Reprod Biol*. 2019; **233**: 49-52. <https://doi.org/10.1016/j.ejogrb.2018.12.004>.
- Halperin O, Noble A, Balachsan S, Klug E, Liebergall-Wischnitzer M. Association between severities of striae gravidarum and Obstetric Anal Sphincter Injuries (OASIS). *Midwifery*. 2017; **54**: 25-28. <https://doi.org/10.1016/j.midw.2017.07.019>.

*Merci
beaucoup!*

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**La ferita si cura, la cicatrice resta.
The wound heals, the scar remains.
La herida se cura, la cicatriz queda.**

**Lucius Anneo Seneca
Cordoba, 4 b.C. - Roma, 65 a.C.**



Finalmente dopo 2000 anni qualcosa è cambiato!