ACADEMIA ESPAÑOLA DE DERMATOLOGÍA Y VENEREOLOGÍA

FUNDACIÓN AEDV PIEL SANA

ACADEMIA ESPAÑOLA DE DERMATOLOGÍA Y VENEREOLOGÍA

Patrocina: UCB

2025

AEDV Highlights

34ª edición

17-20 sep

PARÍS

Brilla el futuro de *la dermatologia*,
donde nace *la luz*

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Brilla el futuro de *la dermatologia*,
donde nace *la luz*

DERMATOLOGÍA ESTÉTICA Y LÁSER

Francisco José Rodríguez Cuadrado

Grupo Pedro Jaén

Instagram: @drfrancuadrado.eligederma

NO TENGO CONFLICTO DE INTERESES
EN RELACIÓN CON ESTA PRESENTACIÓN

ACADEMIA ESPAÑOLA DE DERMATOLOGÍA Y VENEREOLOGÍA

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ACADEMIA ESPAÑOLA DE DERMATOLOGÍA Y VENEREOLOGÍA

Patrocina: ucb

Estética: Tópicos

Trifaroteno

ORIGINAL ARTICLE

Long-term safety and efficacy of trifarotene 50 µg/g cream, a first-in-class RAR-γ selective topical retinoid, in patients with moderate facial and truncal acne

U. Blume-Peytavi,[1] J. Fowler,[2] L. Kemény,[3] Z. Draelos,[4] F. Cook-Bolden,[5] T. Dirschka,[6] L. Eichenfield,[7] M. Graeber,[8] F. Ahmad,[8] A. Alió Saenz,[8,*] P. Rich,[9] E. Tanghetti[10]

› Acta Pharm. 2024 Sep 14;74(3):461-478. doi: 10.2478/acph-2024-0025. Print 2024 Sep 1.

Trifarotene alleviates skin photoaging injury by inhibition of JNK/c-Jun/MMPs

Xuan Fei [1], Lele Zixin Yang [2], Jingjing Zhang [1], Xiang Li [1], Mengtian Pan [1], Guangchen Xu [1], Cuixia Zhang [3], Fei Liu [3], Weirong Fang [1]

Affiliations + expand

PMID: 39279528 DOI: 10.2478/acph-2024-0025

Free article

Trifarotene demonstrated therapeutic effect against UV-induced photoaging by inhibiting MMP expression and reducing collagen degradation, alleviating oxidative stress by balancing SOD expression, and limiting the inflammatory response by lowering phosphorylated JNK and c-Jun kinases of the MAPK pathway in ICR and BALB/c-nu mice and the HaCaT cell line. These results present trifarotene as a promising therapeutic alternative against retinoic acid, achieving the same therapeutic effect at a lower minimum effective dose while curbing the common allergic and inflammatory complications of retinoic acid. However, future studies on the underlying mechanisms, safety evaluation, and potential side effects of trifarotene as a therapeutic on photoaged skin are still needed.

Blume-Peytavi J Eur Acad Dermatol Venereol. 2020
Milosheska D et al. Adv Ther. 2022
Fei X et al. *Acta Pharm*. 2024

Seletinoide G

International Journal of *Molecular Sciences*

MDPI

Article

Synthetic Retinoid Seletinoid G Improves Skin Barrier Function through Wound Healing and Collagen Realignment in Human Skin Equivalents

Eun-Soo Lee [1], Yujin Ahn [2], Il-Hong Bae [1], Daejin Min [1], Nok Hyun Park [1], Woonggyu Jung [2], Se-Hwa Kim [3], Yong Deog Hong [1], Won Seok Park [1] and Chang Seok Lee [4,*]

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2 Department of Biomedical Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan 44919, Korea; whi506@naver.com (Y.A.); wgjung@unist.ac.kr (W.J.)
3 Center for Nano-Bio Measurement, Korea Research Institute of Standards and Science, Daejeon 34113, Korea; shkim@kriss.re.kr
4 Department of Beauty and Cosmetic Science, Eulji University, Seongnam 13135, Gyunggi-do, Korea
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Received: 31 March 2020; Accepted: 29 April 2020; Published: 30 April 2020

check for updates

Abstract: The outer epidermal skin is a primary barrier that protects the body from extrinsic factors, such as ultraviolet (UV) radiation, chemicals and pollutants. The complete epithelialization of a wound by keratinocytes is essential for restoring the barrier function of the skin. However, age-related alterations predispose the elderly to impaired wound healing. Therefore, wound-healing efficacy could be also considered as a potent function of an anti-aging reagent. Here, we examine the epidermal wound-healing efficacy of the fourth-generation retinoid, seletinoid G, using HaCaT keratinocytes and skin tissues. We found that seletinoid G promoted the proliferation and migration of keratinocytes in scratch assays and time-lapse imaging. It also increased the gene expression levels of several keratinocyte proliferation-regulating factors. In human skin equivalents, seletinoid G accelerated epidermal wound closure, as assessed using optical coherence tomography (OCT) imaging. Moreover, second harmonic generation (SHG) imaging revealed that seletinoid G recovered the reduced dermal collagen deposition seen in ultraviolet B (UVB)-irradiated human skin equivalents. Taken together, these results indicate that seletinoid G protects the skin barrier by accelerating wound healing in the epidermis and by repairing collagen deficiency in the dermis. Thus, seletinoid G could be a potent anti-aging agent for protecting the skin barrier.

Keywords: seletinoid G; wound healing; keratinocyte; human skin equivalents; optical coherence tomography; second harmonic generation

Lee ES et al. Int J Mol Sci. 2020
Milosheska D et al. Adv Ther. 2022

Vitamina C

International Journal of Cosmetic Science

SOCIÉTÉ FRANÇAISE DE COSMÉTOLOGIE

SCS

ORIGINAL ARTICLE

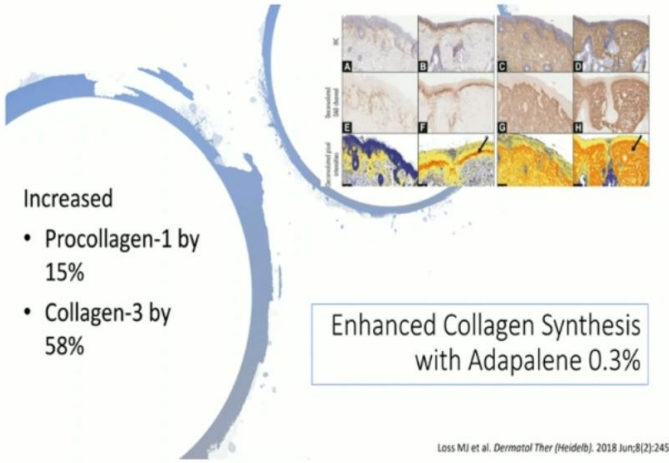
In vivo efficacy of a stabilized Vitamin C-based serum at pH 6 on some ageing facial signs of women of different ages and phototypes

Muriel Isoir-Ingrez ✉ Anna Veriato, Sara Figueiredo, Céline Cornillon, Sandra Hassler, Pamella H. Wang, Jean-Thierry Simonnet

First published: 09 January 2025 | https://doi.org/10.1111/ics.13037

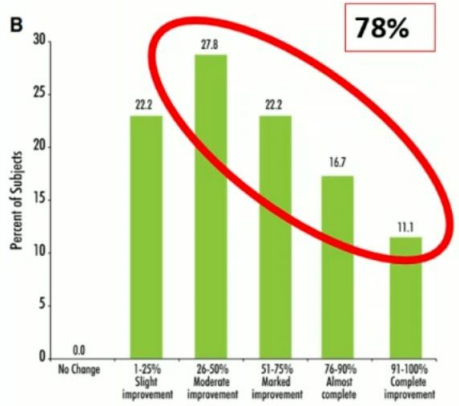
Estética: Tópicos

Adapalene 0.3% - Gene expression microarray study



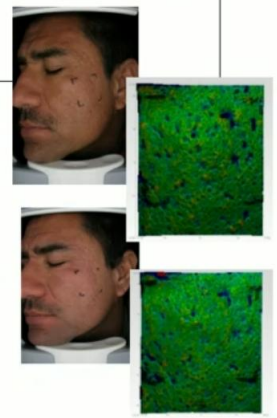
- Modulation of scarring genes
  Gene expression level differences between week 0 and week 24 were significant for COL1A1 and COL3A1 ($p<0.05$; >1.5)
- Retinoid responsive CRABP-2 gene was significantly upregulated
  ($p< 0.05$; >50%)

Phase II study: Adapalene 0.3% Gel: Treatment to improve scar severity



- 24 week open label pilot study (N=20)
- Patients with history of acne (no active lesions at the time of recruitment)
- Moderate to severe facial atrophic acne scars (grade 3 or 4)
- >5 atrophic scars

- **78% of patients described moderate to complete improvement in scars**
- **Smoothing effects**
- **Clinical effects supported by molecular markers of increase collagen**



Loss MJ et al. Dermatol Ther (Heidelb) (2018) 8:245–257 https://doi.org/10.1007/s13555-018-0231-8

Estética: Tópicos

Table 4. Relative abundance of the predominant genera (top10) of PA participants before/after 4-week product intervention

Genus	BL	W4
Cutibacterium	27.59%	35.90%
Staphylococcus	10.64%	10.03%
Streptococcus	5.86%	4.88%
Moraxella	**6.26%**	**2.76%***
Corynebacterium	4.81%	4.11%
Deinococcus	4.56%	4.03%
Flavobacterium	2.86%	5.26%
Sediminibacterium	1.19%	5.68%
Acinetobacter	**5.01%**	**1.13%***
Chryseobacterium	3.15%	1.22%
Unclassified	9.39%	7.66%
Other	18.68%	17.34%

*LDA>2 & FDR < 0.05

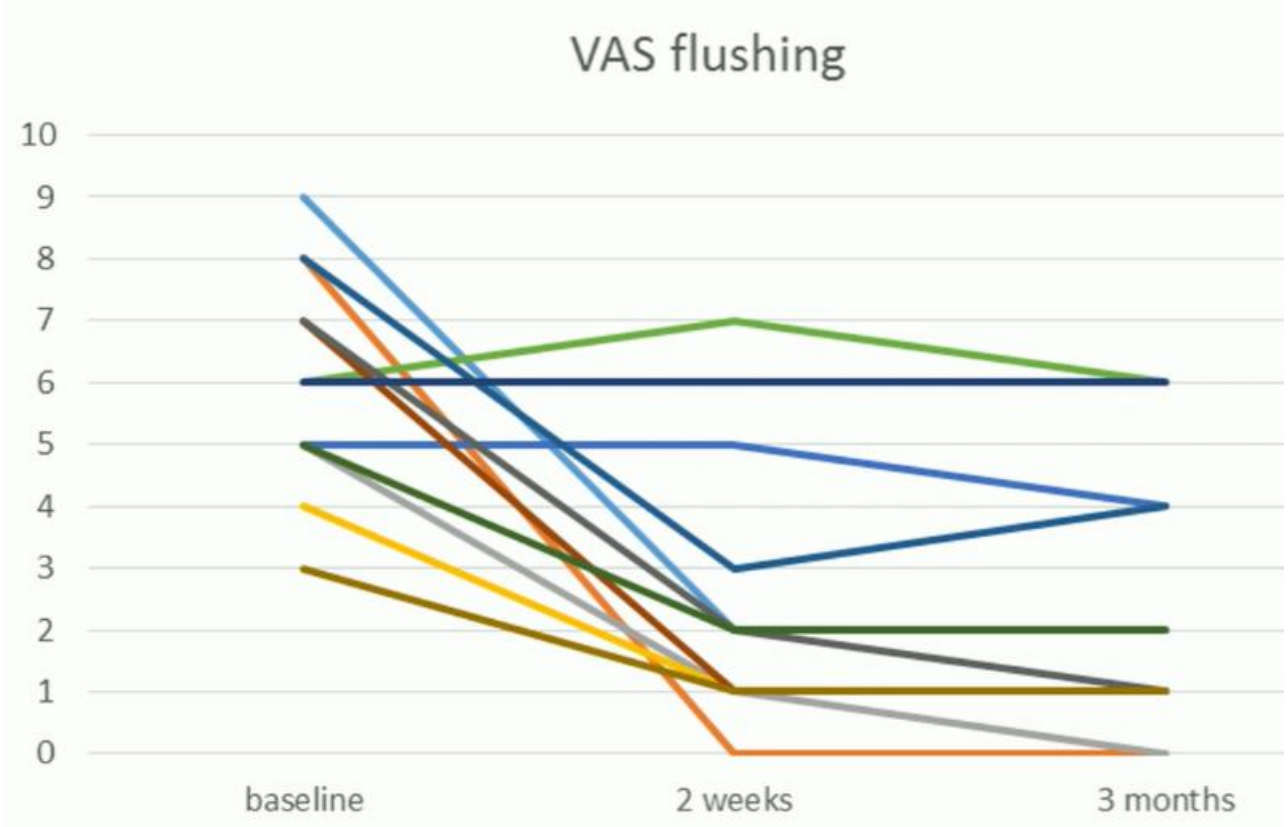
- **Topical retinol contributes to reprofiling the microbiome of PA participants**
- **Acinetobacter and Moraxella were significantly reduced**
- **The abundance of Cutibacterium was enhanced**

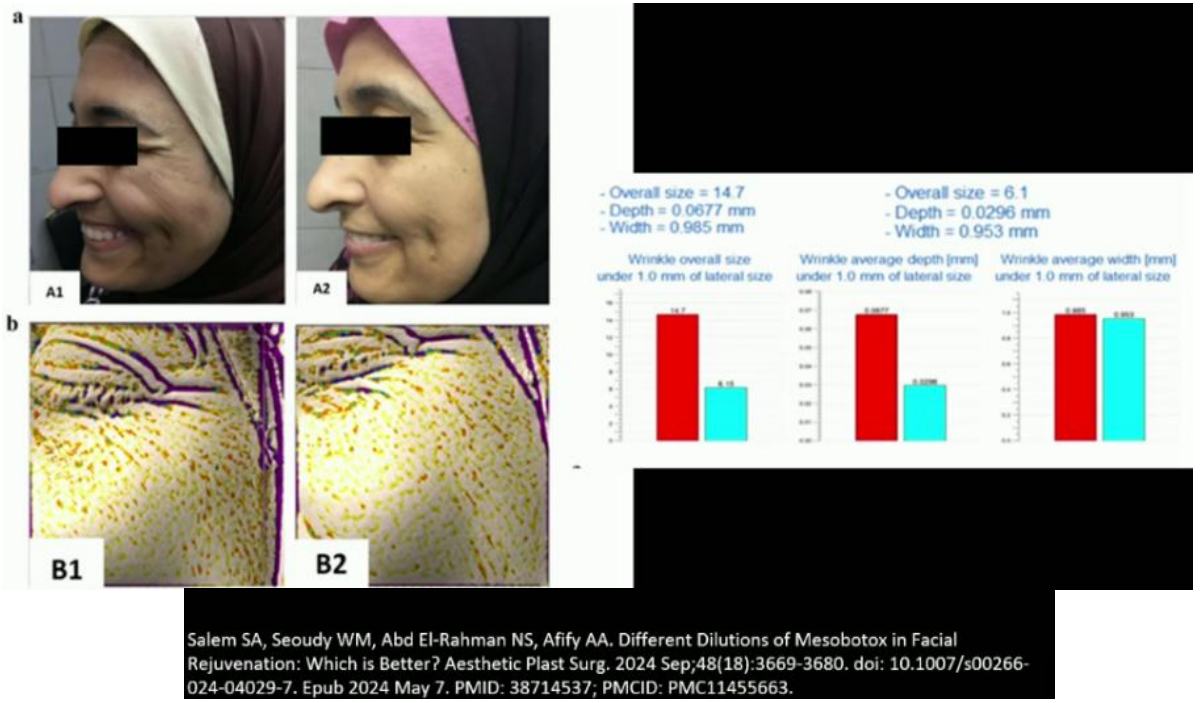
Lidiya Todorova: Topicals: What is the evidence?

Estética: Toxina botulínica

Peter Velthius: Meso-botox

Estética: Toxina botulínica

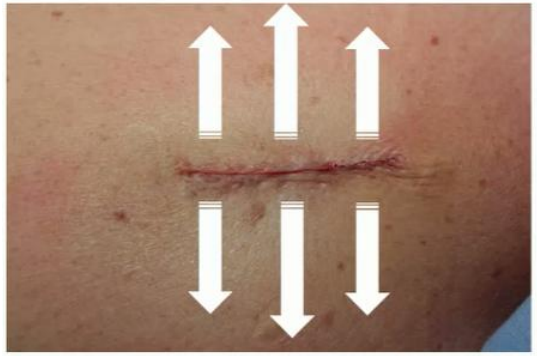


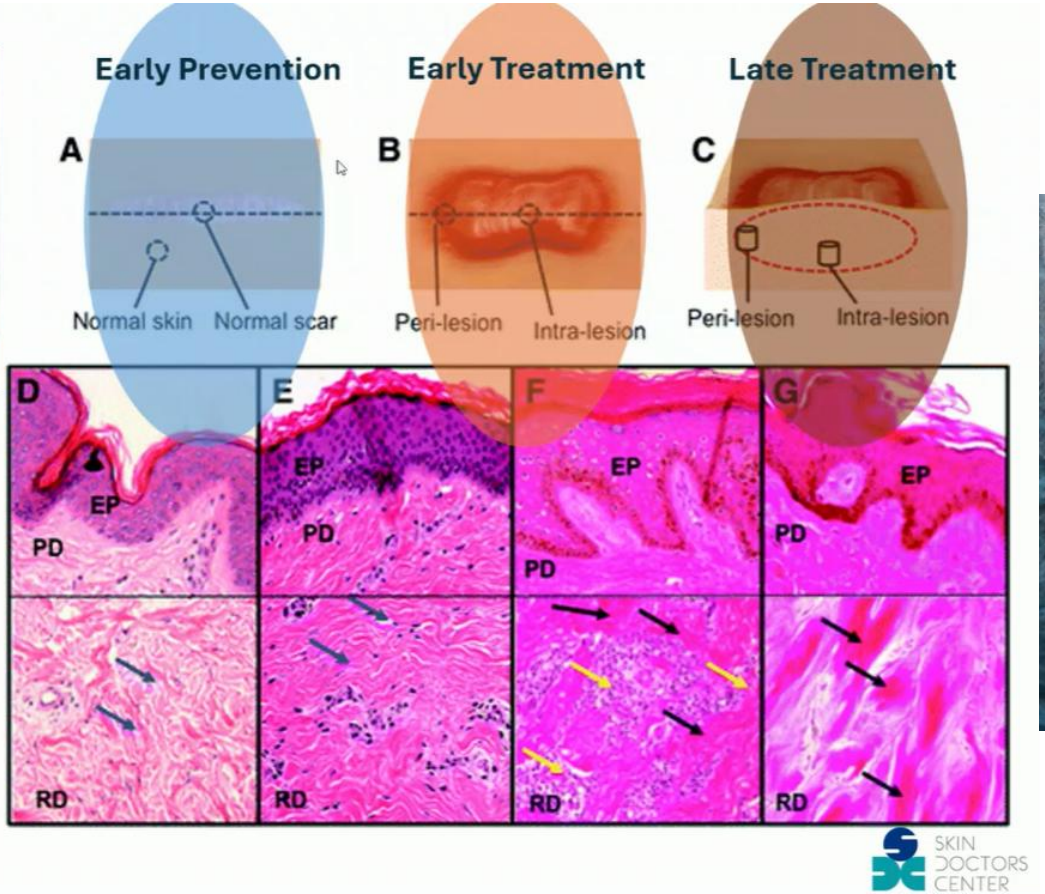


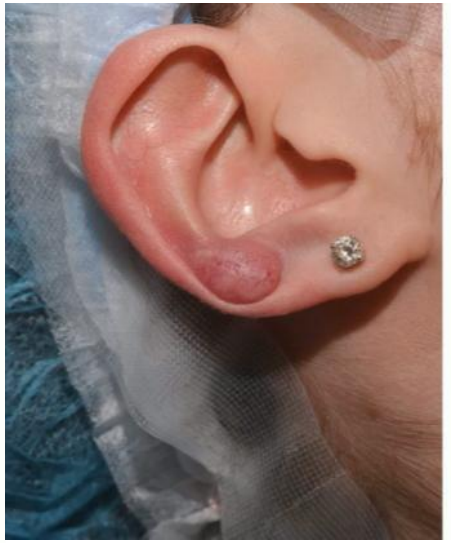
Salem SA, Seoudy WM, Abd El-Rahman NS, Afify AA. Different Dilutions of Mesobotox in Facial Rejuvenation: Which is Better? Aesthetic Plast Surg. 2024 Sep;48(18):3669-3680. doi: 10.1007/s00266-024-04029-7. Epub 2024 May 7. PMID: 38714537; PMCID: PMC11455663.

Peter Velthius: Meso-botox

Estética: Toxina botulínica





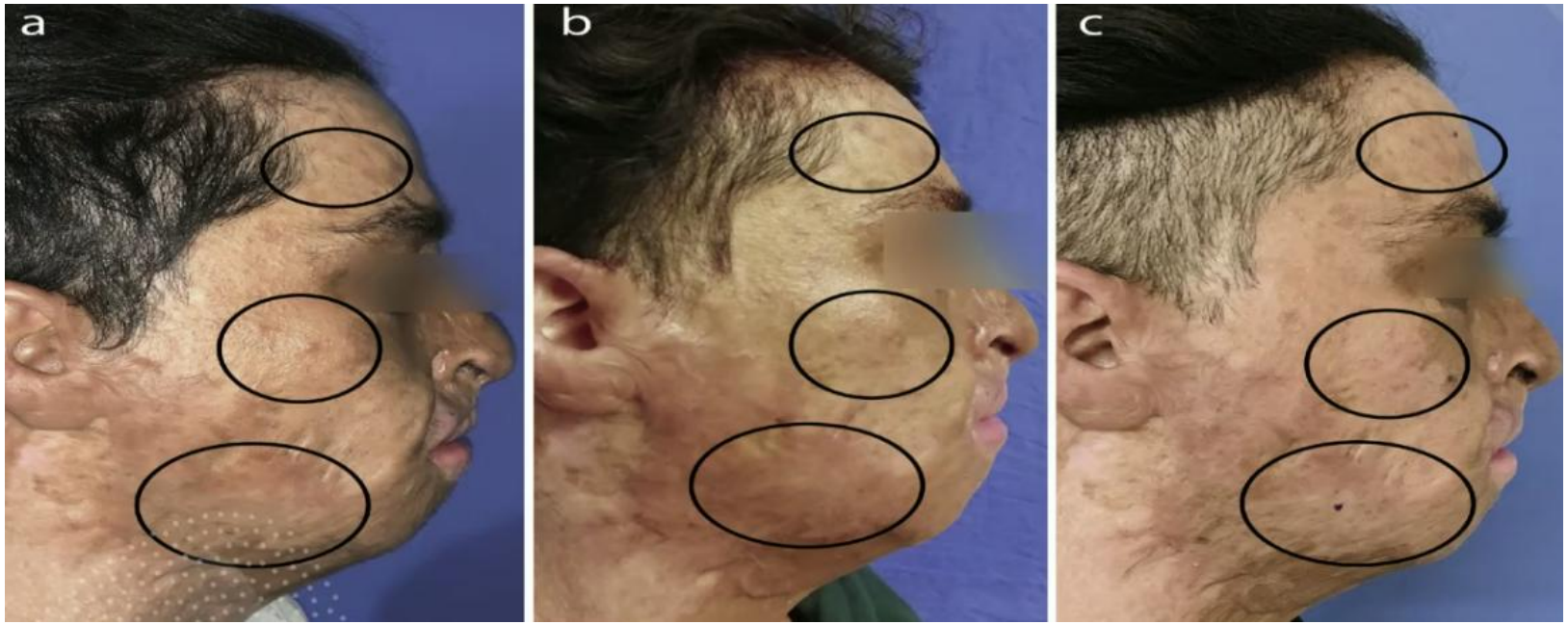


Leonardo Marini: Scar prevention and wound healing

Estética: Hidroxiapatita cálcica

Feasibility of calcium hydroxyapatite (Radiesse®) for improving the biomechanical properties of facial burn scars: A pilot study

Mariana del Carmen Radilla-Flores [a #],
Erik Agustín Márquez-Gutiérrez [b #],
Mario Vélez-Palafox [b],
María Isabel Castrejón-Vázquez [c],
Osiris Cristina Chávez-Flores [a],
Mario Chopin-Doroteo [d], Maykel González-Torres [e]



Estética: Hidroxiapatita cálcica

Blending Hyaluronic Acid and Calcium Hydroxylapatite for Injectable Facial Dermal Fillers: A Clinical and Ultrasonography Assessment

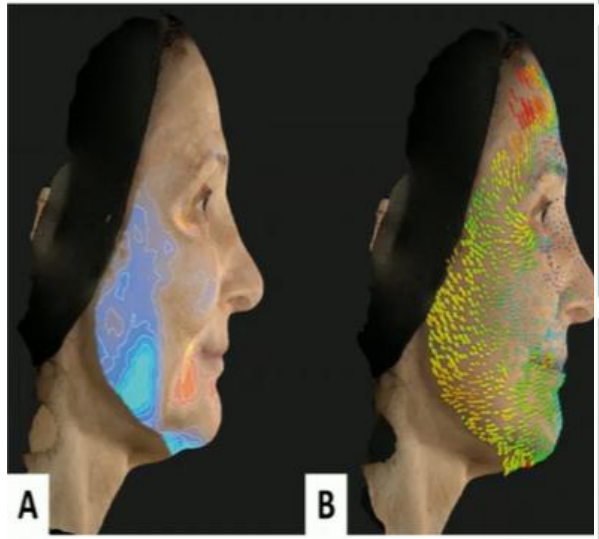
by Bruna Bravo *, Raquel Carvalho, Leonardo Bravo, Laís Penedo and Mariana Elias

Bravo Clinic, Rio de Janeiro 22240-032, Brazil
* Author to whom correspondence should be addressed.

Cosmetics **2024**, *11*(2), 61;
https://doi.org/10.3390/cosmetics11020061

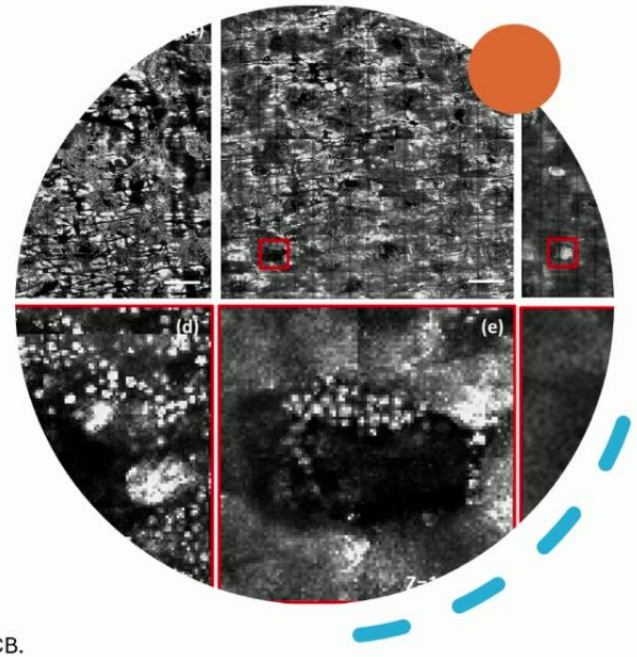
Submission received: 14 February 2024 / Revised: 5 March 2024 / Accepted: 9 March 2024 / Published: 17 April 2024

Figure 3. Combined technique for facial filling with hyaluronic acid (Belotero Intense™) and calcium hydroxylapatite (Radiesse™). Volume (**A**) and vector (**B**) evaluation.



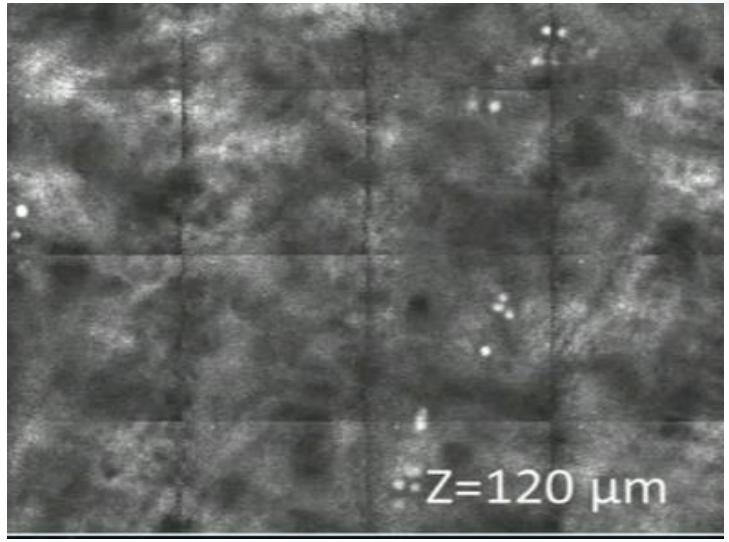
Estética: Hidroxiapatita cálcica

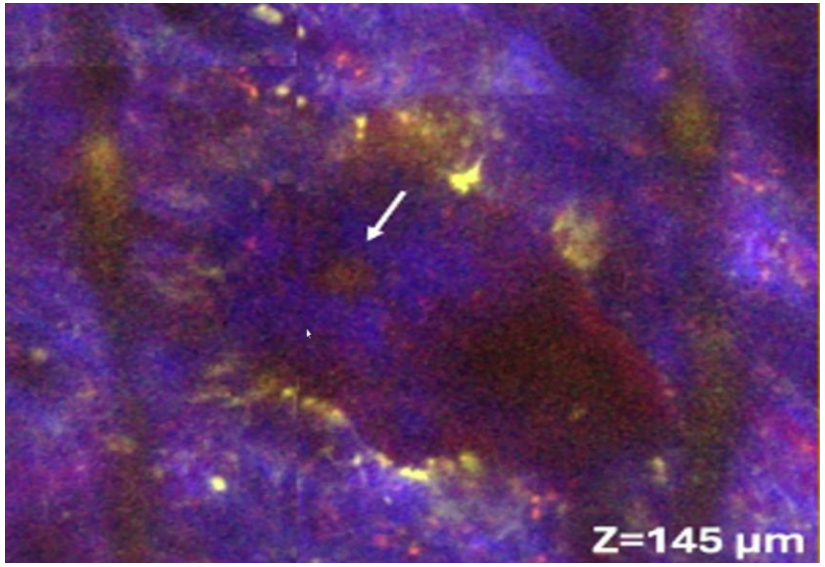
Ablative fractional laser and topical CaHa
Reflectance Confocal Microscopy



1 h post-treatment. Images showing a representative microchannel filled with calcium hydroxyapatite microparticles visualized as bright spheres as deep as 180 µm.

Driscoll W, Golbari NM, Vallmitjana A, Durkin AF, Balu M, Zachary CB.
Intradermal Delivery of Calcium Hydroxylapatite With Fractionated Ablation.
Lasers in Surgery and Medicine. 2025:57(1):46–53. doi:10.1002/lsm.23830. (Epub 2024-08-19)

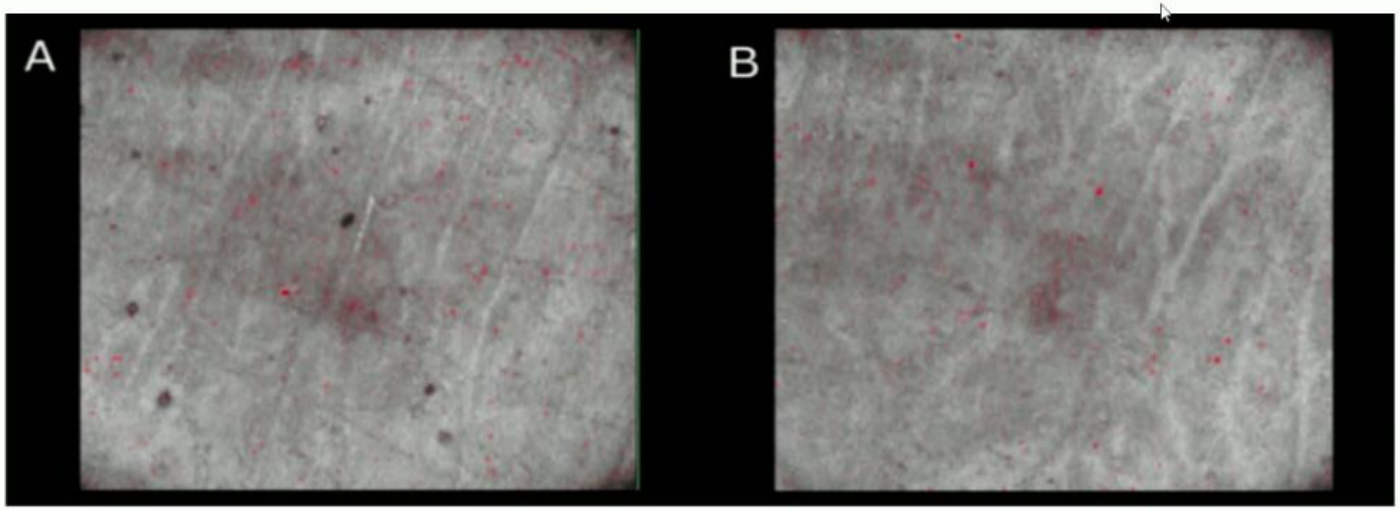




Estética: Radiofrecuencia con microagujas

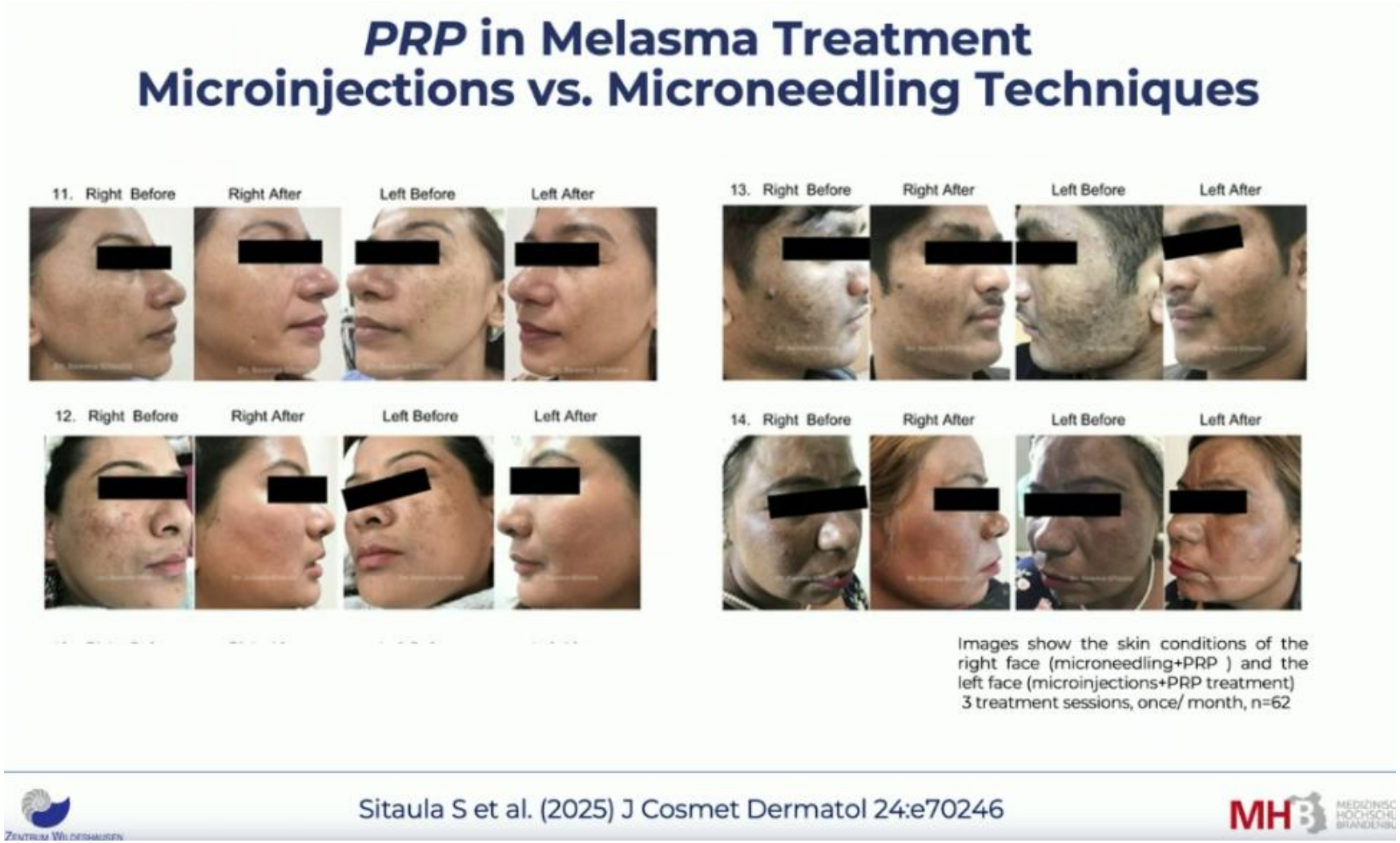
RF microneedling at 30 minutes - OCT

Bipolar **Monopolar**



Seiger K, Driscoll W, Messele F, Golbari NM, Fan X, Holmes J, Zachary CB. *Use of Optical Coherence Tomography to Assess Properties of Cutaneous Defects Following Radiofrequency Microneedling and Laser Treatment.* **Lasers in Surgery and Medicine.** 2024 Nov;56(9):762–769.

Estética: PRP



Evgenia Makrantonaki: PRP, adipose tissue and stem cells

Estética: Terapia fotodinámica

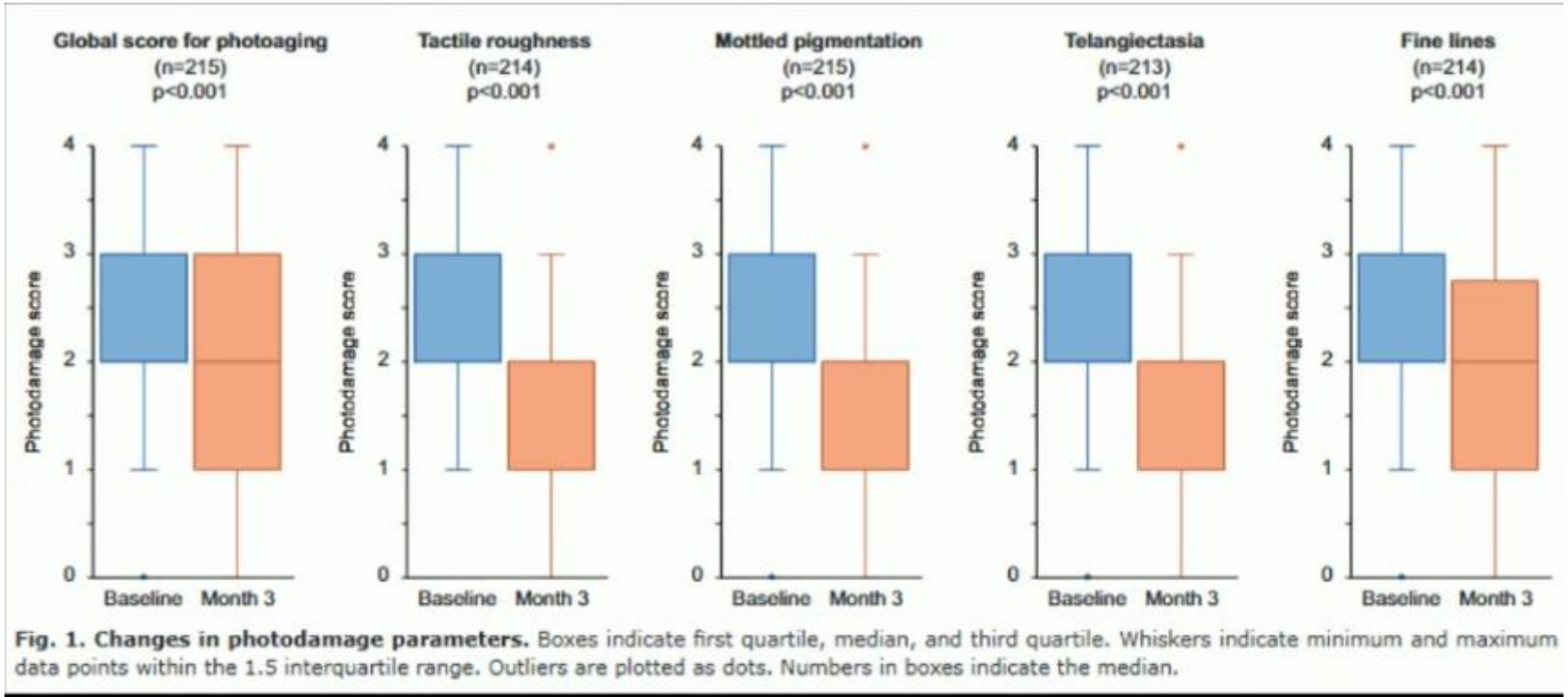
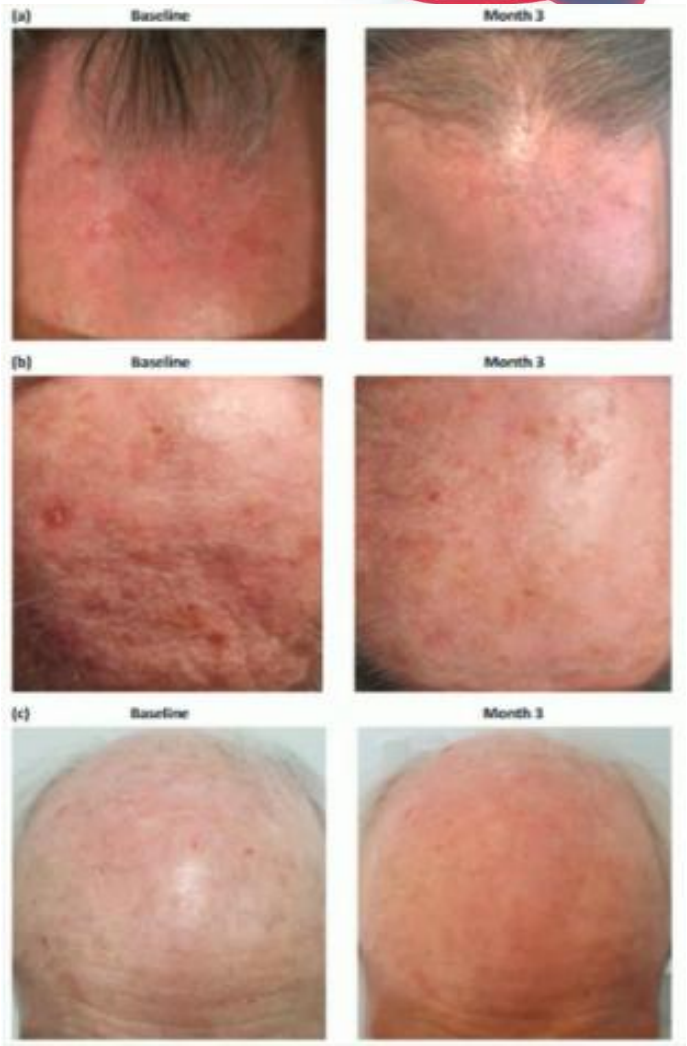
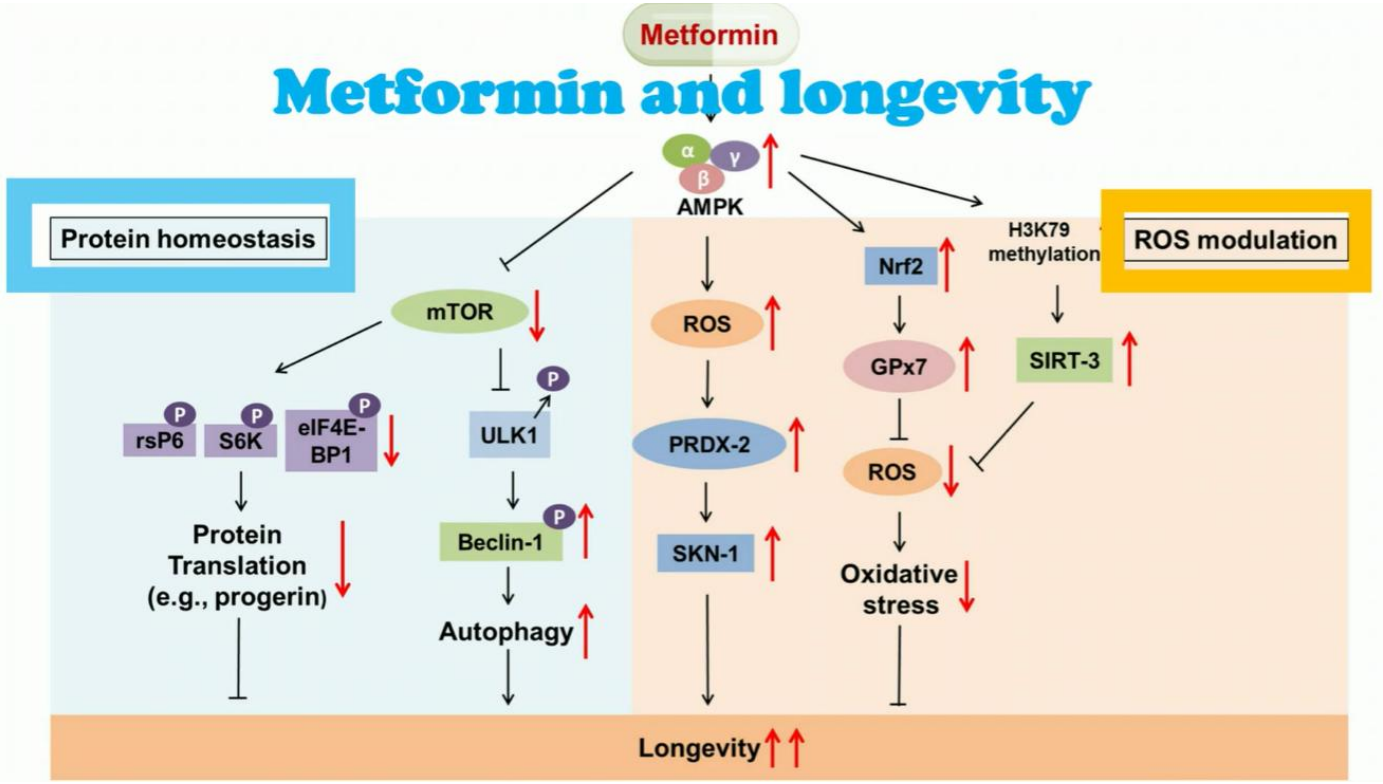


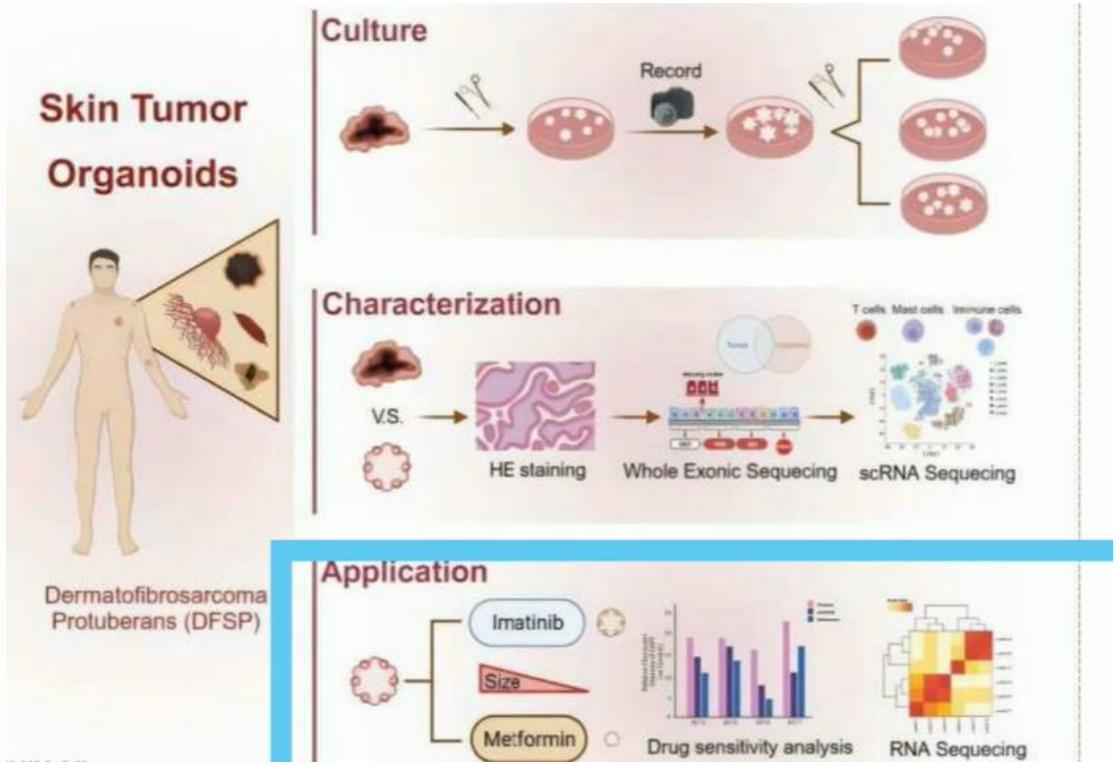
Fig. 1. Changes in photodamage parameters. Boxes indicate first quartile, median, and third quartile. Whiskers indicate minimum and maximum data points within the 1.5 interquartile range. Outliers are plotted as dots. Numbers in boxes indicate the median.

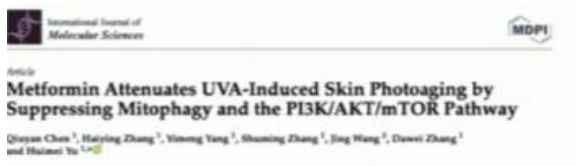


Szeimies RM, Brückner M, Hoffmann M, Baé M, Fränken J, Großmann B, Paasch U, Quist S, Lang BM, Chavda R, Philipp-Dormston WG. Photoaging and Cosmetic Result with Artificial Daylight Photo-dynamic Therapy Using Methyl Aminolevulinate. Acta Derm Venereol. 2025 Apr 22;105:adv43245. doi: 10.2340/actadv.v105.43245. PMID: 40263972; PMCID: PMC12041794.

Estética: Metformina







Metformin Attenuates UVA-Induced Skin Photoaging by Suppressing Mitophagy and the PI3K/AKT/mTOR Pathway

Yanghua Shi et al, Patient-derived skin tumor organoids with immune cells respond to metformin, *Cell Organoid* (2024).

Natasha Meshinkovska: Metformine and semaglutide

Láser: CO2 en el postquirúrgico casi inmediato

AEDV Highlights 2025 — 34ª edición 17-20 sep PARÍS

REVIEW ARTICLE OPEN ACCESS

Fractional CO_2 Laser to Treat Surgical Scars: A System Review and Meta-Analysis on Optimal Timing

Qiang Ji[1] | Lili Luo[2] | Jun Ni[1] | Xiaolan Pu[1] | He Qiu[1] | Dongmei Wu[1]

[1]Department of Aesthetic Plastic Surgery, West China School of Public Health and West China Fourth Hospital, Sichuan University, Chengdu, China | [2]Department of Anesthesiology, West China Hospital, Sichuan University, Chengdu, China

Correspondence: Dongmei Wu (dr.wudongmei@foxmail.com)

Received: 24 April 2024 | **Revised:** 18 October 2024 | **Accepted:** 19 November 2024

Funding: The authors received no specific funding for this work.

Keywords: fractional carbon dioxide laser | scars | surgery

ABSTRACT

Background: Surgical scars with textural changes can be disfiguring and uncomfortable for patients. Various laser therapies have shown promise in softening and flattening these scars. Therefore, the authors conducted a systematic review and meta-analysis on the efficacy of fractional CO_2 laser in treating surgical scars.

Objective: This study aims to present evidence from controlled trials investigating the efficacy of ablative carbon dioxide fractional laser in treating surgical scars.

Materials and Methods: A literature search of Medline (via PubMed), Ovid, Web of Science, and Embase for relevant trials was conducted before March 2024. After assessing for inclusion, data extraction was performed using Population, Intervention, Comparison, Outcomes and Study criteria (PICOS). Quality, validity, and risk of bias were assessed using the RevMan5.3 risk of bias assessment tool.

Results: A total of 14 controlled trials involving 492 participants or postsurgical scars were included in the system review and meta-analysis. Both in RCT and non-RCT settings, fractional CO_2 laser therapy exhibited the same efficacious outcomes, with MD values of −0.63 (95% CI: −1.15 to −0.12; $I^2 = 70\%$; $p = 0.02$) and − 1.86 (95% CI: −2.65 to −1.07; $I^2 = 85\%$; $p < 0.001$), respectively. Moreover, furthermore analysis illustrated that initiating FRACTIONAL CO2 LASER treatment sessions at or within 1 month after surgery significantly reduced postoperative scars compared to control groups and groups on treatments initiated more than 3 months after surgery (MD: -1.66; 95% CI: −2.31 to −1.01; $I^2 = 89\%$; $p < 0.001$ and MD: -1.93; 95% CI: −2.24 to −1.62; $I^2 = 48\%$; $p < 0.001$). However, fractional CO_2 laser treatment administered over 3 months after surgery did not significantly improve post-operative scars (MD: −0.17, 95% CI: −0.56 to 0.21, $I^2 = 37\%$, $p = 0.37$).

Conclusion: The systematic review and meta-analysis provide robust support for the efficacy of fractional CO_2 laser in treating surgical scars, particularly when administered at or within 1 month after surgery. One treatment session within 1 month after surgery also can produce significant results, but most clinical trials support 2–3 treatment sessions or more.

DeepFX, 15 mJ, 300 Hz, 5%.

Zhang Y, Liu Y, Cai B, et al. (2020). Early CO_2 laser intervention for surgical scars. Lasers Surg Med, 52(2)

Issler-Fisher AC, Fisher OM, Haertsch P, Li Z, Maitz PKM.
Ablative fractional resurfacing with laser-facilitated steroid delivery for burn scar management: Does the depth of laser penetration matter?
Lasers Surg Med. 2019 Sep 30

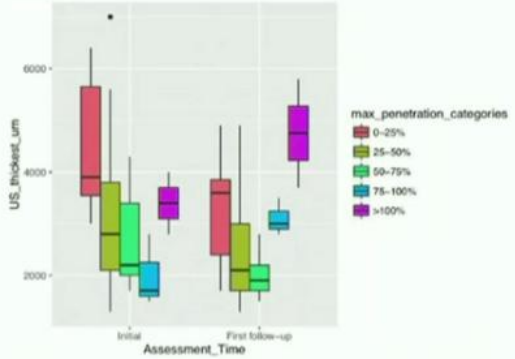


Fig. 1. Boxplot demonstrating the effect of different penetration categories on scar thickness before and after one treatment with the CO_2-AFL.

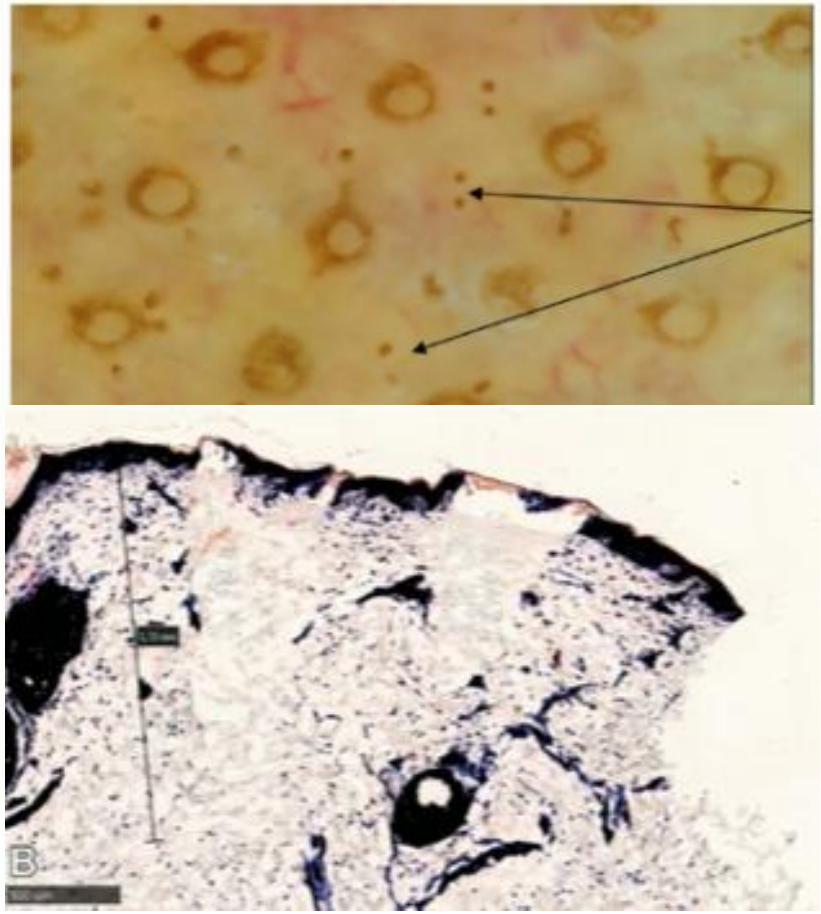
Our results suggest that a scar penetration of 51–75% achieves the greatest reduction in scar thickness.

Louai Salah: Laser light: Illuminating new paths in scars

Láser: Láser 1550 de punto focal

What is FPT?

- 1550 nm, high-NA laser beam shaped into a ring.
- Creates Conical Thermal Zones (CTZs) with central epidermal sparing.
- Depth tunability: <100 µm to 1.8 mm.
- High energy delivery possible with less surface injury.



Láser: TFD asistida por láser

Results i-PDT BCC and Bowen's disease

	# lesions	# failure	% failure
			Incomplete result after 2 PDT sessions
BCC	3706	168	5
Bowen	2109	24	1

CO2 laser	energy	pulse duration	% density	time incubation min
BCC	30-60 mJ/pulse	1msec	13,3	180
Bowen	30 mJ/pulse	1msec	13,3	180
AK	30mj/ pulse	1msec	5	90

2023

2024 after 6 sessions PDT

BCC underlip female 81 yr

2020

2024

Johan Snauwaert: 10 years experience of laser assisted PDT in the treatment of skin cancer

Láser: PDL en malformaciones vasculares

Case Reports > Lasers Surg Med. 2023 Oct;55(8):741-747. doi: 10.1002/lsm.23693. Epub 2023 Jun 9.

Largest comparative analysis: Novel large spot size 595 nm, high-energy, pulsed dye laser reduces number of treatments for improvement of adult and pediatric port wine birthmarks

Pooja Sodha [1], Jordan V Wang [2], Nader Aboul-Fettouh [3], Katherine Martin [4], Roy G Geronemus [2, 5], Paul M Friedman [6, 7, 8]

> JAMA Dermatol. 2024 Apr 17:e240293. doi: 10.1001/jamadermatol.2024.0293. Online ahead of print.

Weekly Pulsed Dye Laser Treatments for Port-Wine Birthmarks in Infants

Shirin Bajaj [1, 2], Joy Tao [1], David A Hashemi [1], Roy G Geronemus [1, 2]

Láser: Láser “amarillo” 577nm

> J Cosmet Dermatol. 2022 Jan;21(1):242-246. doi: 10.1111/jocd.14085. Epub 2021 Mar 31.

The effect of 577-nm pro-yellow laser on demodex density in patients with rosacea

Selami Aykut Temiz [1], Koray Durmaz [2], Begüm Işik [3], Arzu Ataseven [3], Recep Dursun [3]

> J Cosmet Laser Ther. 2021 Nov 17;23(7-8):221-224. doi: 10.1080/14764172.2022.2075898. Epub 2022 Jul 3.

Evaluation of the effect of 577-nm pro-yellow laser on demodex intensity (5)

Nihal Altunişik [1], Dursun Turkmen [1], Serpil Sener [1]

Randomized Controlled Trial > J Cosmet Dermatol. 2020 Jul;19(7):1642-1647. doi: 10.1111/jocd.13474. Epub 2020 Jun 10.

The efficacy and safety of a 577-nm high-power optically pumped semiconductor laser in the treatment of postacne erythema (3)

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Yu Ri Woo [1], Hei Sung Kim [1]

Affiliations + expand

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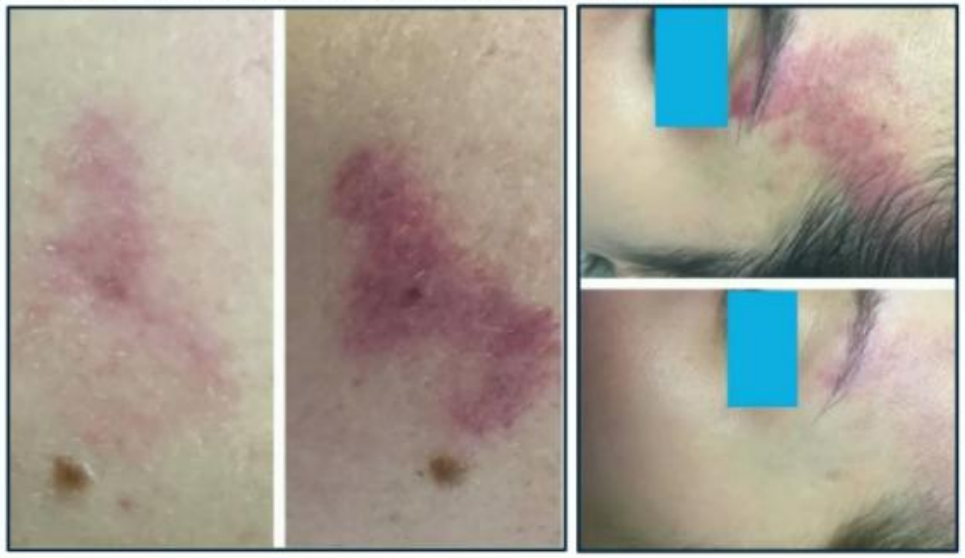

Daniel Brualla: Vascular lesions

Láser: Alternativa – TFD con hemoporfirina

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Current clinical evidence is insufficient to support HMME-PDT as the first choice of treatment for young children with port wine birthmarks

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Láser: Vascular en hemangioma y vino de Oporto

Comparative evaluation of laser therapy for infantile hemangiomas: A systematic review of clinical outcomes and treatment considerations

Alain Chaple Gil [a], Rodrigo Caviedes [b], Leonardo Díaz [c,d,e], Alfredo Von Marttens [c], Claudio Sotomayor [f], Javier Basualdo [f], Víctor Beltrán [g], Gilbert Jorquera [h], Cristian Bersezio [b], Pablo Angel [b], Rodrigo Cabello Ibacache [b], Eduardo Fernández [b,i,*]

Enhanced outcomes of combining beta-blockers with pulsed dye or Nd:YAG laser treatments versus monotherapy

Urgent need for standardized clinical protocols and optimized therapeutic parameters

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Perioral scarring in the paediatric cohort as a complication of laser treatment for port wine birthmarks

Research | Published: 07 April 2025
Volume 40, article number 179, (2025) Cite this article
Lasers in Medical Science

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Assessing the Safety and Efficacy of a New 532-nm and 1064-nm Laser Device With Variable Sequencing and Cryogen Spray Cooling for Rosacea Treatment

[Article in English, Spanish]
E Berna-Rico [1], J J Lluch-Galcera [2], B Pérez-García [1], J Naharro-Rodríguez [1], C Azcárraga-Llobet [1], J Company-Quiroga [1], P Boixeda [1]

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