

Long-Term Skin Improvement through Combined MFU-V and CaHA Treatments

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BACKGROUND

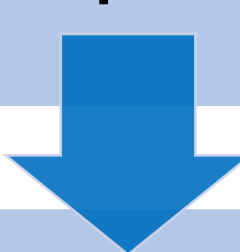
Many patients are interested in improvements to skin health and firmness that complement their natural appearance without drastically altering their features. To achieve this, we have utilized two non-invasive aesthetic treatments, microfocused ultrasound with visualization (MFU-V) and the injectable biostimulator, calcium hydroxylapatite (CaHA), that have both been shown to stimulate collagen and other extracellular matrix (ECM) components¹.

METHODS

Eleven patients were treated with a combination of MFU-V (Ultherapy®, Merz North America, Inc. Raleigh, NC, USA) and CaHA (+), a biostimulating filler with 0.3% integral lidocaine (Radiesse® (+), Merz North America, Inc. Raleigh, NC, USA).



Patients received 560 lines of MFU-V in one session. CaHA (+) treatment was done on the same day or 2-4 weeks following. A volume of 1.5 mL of CaHA was injected subcutaneously or in the pre-periosteal plane. Patients repeated MFU-V or combination treatments about once a year for up to 7 years.



A three-dimensional stitched image (LifeViz®, Quantificare, Biot, France) was taken before their initial treatment and after their final treatment. Visual assessment included the measures of skin quality: skin firmness, surface evenness, tone evenness, and glow.² Effects of lifting and the global aesthetic improvement scale (GAIS) were also noted.

RESULTS

Photographic evidence demonstrates that combined CaHA (+) and MFU-V treatment offered aesthetic improvements over baseline

2017 – 2024

2018 – 2024

2018 – 2023



DISCUSSION

Observations of before-and-after photos demonstrate an improvement over baseline following combined treatment with CaHA (+) and MFU-V. The authors attribute the results to both treatments’ properties of regenerative biostimulation. Improvements to the skin biomechanics are made possible by increased collagen production, especially in areas where soft tissue is anchored to the bone. Improved collagen production would also contribute to the sustainability of the results.

¹Yutskovskaya, Y.A., Sergeeva, A.D. & Kogan, E.A. Combination of Calcium Hydroxylapatite Diluted With Normal Saline and Microfocused Ultrasound With Visualization for Skin Tightening. *J Drugs Dermatol* **19**, 405-411 (2020). <https://doi.org/10.36849/JDD.2020.4625>
²Goldie, K., Kerscher, M., Fabi, S.G., Hirano, C. *et al.* Skin Quality - A Holistic 360 degrees View: Consensus Results. *Clin Cosmet Investig Dermatol* **14**, 643-654 (2021). <https://doi.org/10.2147/CCID.S309374>
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