

KOREADERMA 2023 Abstract Submission

Abstract submission for:

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Title of abstract (25 words maximum): The innovative new premium pore and acne treatment – Gold PTT for Asian skin

Authors (Please include full contact details for corresponding authors and relevant affiliations for all including conflicts of interest, underline the presenter of authors and refer to the below.):

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Main body (250 words maximum):

Background:

Oral medication and topical retinoids as well as IPL and laser treatments are often administered for acne treatments, however, depending on the patient, results are difficult to predict as many of these treatments are not targeting the sebaceous gland, which is the root cause of severe acne.

Objective:

Evaluate a new treatment focusing on delivering gold nano particles followed by laser irradiation resulting in heating of the sebaceous glands.

Method:

Sonophoresis was used to deliver gold nano particles into the sebaceous gland of 10 patients who complained of acne, open pores, and redness. After delivery of the gold nano particles, laser treatment was performed by a long pulsed Nd: Yag laser. Clinical photographs were taken by a skin analysis system, in addition to 2D and 3D photos. Patient satisfaction was measured by a patient self questionnaire.

Results:

In most cases, acne improvement was seen with less than 3 treatments, while no external drugs and topicals were used. Improvement in pore size and redness was also significant.

Conclusion:

When using a laser device alone for acne treatment, it is important to target the sebaceous glands with significant heat. In the future, verification of effectiveness of gold nano particles using other laser modalities to further increase the number of gold nano particle acne patients in Japan. Monitoring and follow up on all acne patients as well as further evaluation of the number of treatments on resistant acne is required.

Keywords (*A minimum of one, a maximum of three*): **Acne, pores, redness**