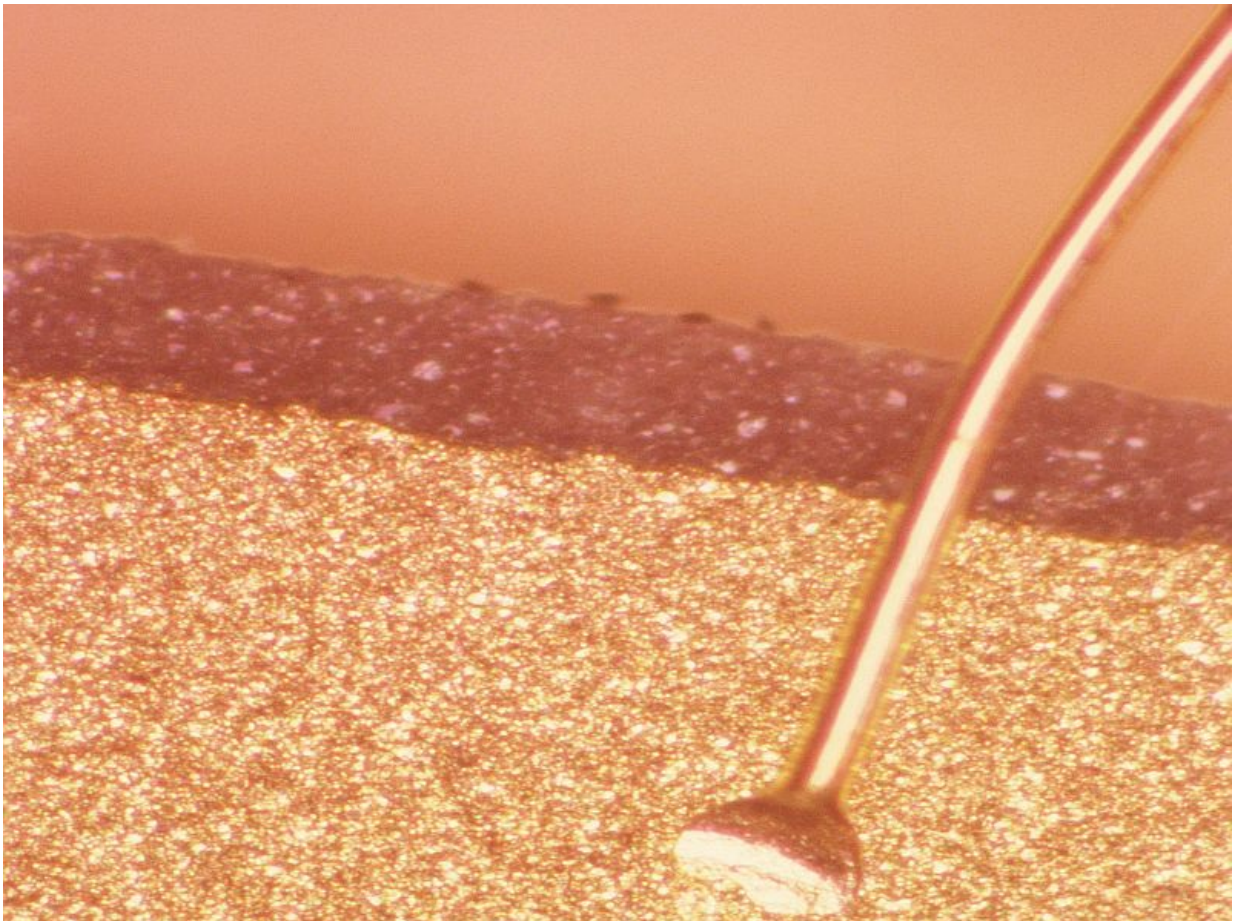


Er:YAG Laser shows superior efficacy in Rx of acne scars

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(HealthDay)—Er:YAG is more efficacious than bipolar radiofrequency

combined with diode laser (BRDL) for treatment of mild-to-moderate acne scars, according to a study published online Nov. 2 in *Lasers in Surgery and Medicine*.

Seonguk Min, M.D., Ph.D., from the Seoul National University College of Medicine in South Korea, and colleagues compared the efficacy of Er:YAG laser and BRDL for the treatment of [acne scars](#). Twenty-four subjects with mild-to-moderate scars were treated in a split-face manner with two treatment sessions four weeks apart.

The researchers found that the degree of improvement based on the Investigator's Global Assessment was 50 percent for fractional Er:YAG and 25 percent for BRDL. Er:YAG induced later and higher peak TGF β and collagenase expression, while BRDL correlated with earlier and lower induction of TGF β and collagenases, respectively. PPAR γ peaked in the Er:YAG-treated side and then dropped rapidly, which correlated with expression of tissue inhibitor of metalloproteinase (TIMP). Higher TIMP expression was seen after Er:YAG versus BRDL, which may be linked to upregulation of collagen fibers.

"The superior efficacy of Er:YAG to BRDL in the treatment of acne scars may be associated with higher expression of collagen which is associated with differential expression of TGF β s, collagenases, PPAR γ , and TIMP," the authors write.

More information: [Full Text \(subscription or payment may be required\)](#)

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