

# Non-ablative laser treatments improve mature burn scars

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Image courtesy of Blausen Medical

"Combined superficial and deep non-ablative fractional laser-treatments induce long-term clinical and histological improvement of mature burn scars," the authors write.

One of the authors received a grant to cover laboratory costs, and Palomar Medical Technologies provided laboratory equipment.

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

(HealthDay)—Non-ablative fractional laser treatment may provide long-term improvement of mature burn scars, according to research published online Aug. 22 in *Lasers in Surgery and Medicine*.

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Elisabeth H. Taudorf, M.D., of the University of Copenhagen, and colleagues analyzed data for 17 [patients](#) with normotrophic (11 patients), hypertrophic (five patients), or atrophic (one patient) scars. Side-by-side scar areas were randomly assigned to three monthly combined superficial and deep non-ablative fractional laser treatments or no treatment. Clinical outcomes were assessed using a modified-Patient-and-Observer-Scar-Assessment-Scale (mPOSAS; 1="normal skin," 10="worst imaginable scar"); histological outcomes also were evaluated.

The researchers found that laser-treated scars, compared with untreated scars, showed continuous improvement in appearance (mPOSAS baseline: 7; six months: 4). Histologic findings at six months indicated collagen remodeling. At six months, patients reported satisfaction with [treatment](#) (6 on a scale of 1 to 10), and 82 percent reported improved scar texture. Treatments caused mild to moderate pain. No patient experienced worsening of [scar](#) appearance.

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