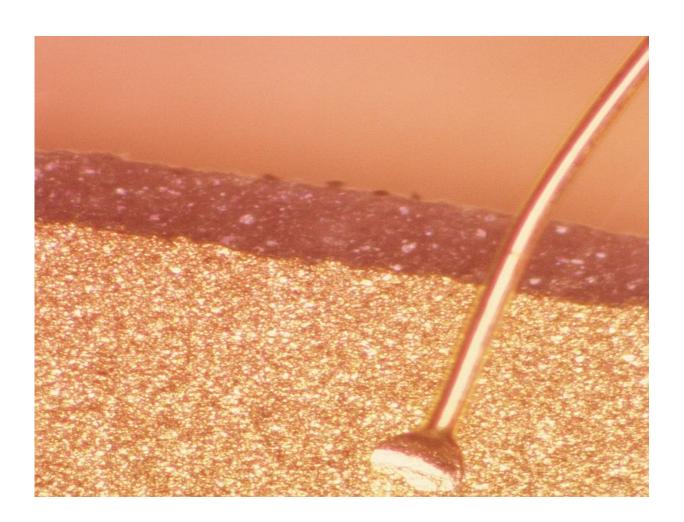


Skin pigmentation, fluence determine IPL side effects

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(HealthDay)—Darker skin pigmentation and increasing intense pulsed



light (IPL) fluence determine side effects after IPL exposure, according to a study published online July 30 in *Lasers in Surgery and Medicine*.

In a study involving 16 healthy subjects with Fitzpatrick skin types (FSTs) II to V, Daniel Thaysen-Petersen, M.D., from the University of Copenhagen in Denmark, and colleagues examined the contribution of skin pigmentation, fluence level, and ultraviolet radiation (UVR) on IPL-induced side effects. Three test areas were separated into four sites and randomly allocated to a single IPL exposure of 22, 34, and 46 J/cm² or triple stacking of 46 J/cm²; subsequently, areas were randomized to no UVR or single solar-simulated UVR exposure. Each area had a corresponding control. Patients were followed for up to four weeks after IPL.

The protocol was completed by 15 subjects with FSTs II to IV. The researchers found that IPL induced a range of skin reactions, including erythema (87 percent), hyper- and hypopigmentation (60 and 20 percent, respectively), purpura (27 percent), blisters (20 percent), edema (13 percent), and crusting (13 percent). Determinants for IPL-induced side effects included darker skin pigmentation and increasing IPL fluence (P ≤ 0.002); side effects were not exacerbated with single exposure of UVR (P ≥ 0.180).

"Skin pigmentation and IPL fluence are major determinants of <u>side</u> <u>effects</u> after IPL exposure," the authors write.

Several authors disclosed financial ties to The Proctor & Gamble Company, which funded the study.

More information: Abstract

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