

Comparison of the 532-nm KTP and 1064-nm Nd:YAG lasers for the treatment of cherry angiomas.

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Abstract

BACKGROUND: Laser **therapy** is the **treatment** of choice for **cherry** angiomas since it is more effective and has better cosmetic results. There is no comparative study about the **treatment** efficacies with KTP and **Nd:YAG** lasers for **cherry** angiomas.

OBJECTIVE: To compare the efficacy and side effects of 532-nm KTP and 1064-nm **Nd:YAG** lasers for the **treatment** of **cherry** angiomas.

METHODS: Two comparable lesions of the same patient were chosen. One of them was treated with the KTP laser while the other was treated with the **Nd:YAG** laser. Sessions were repeated every 4 weeks until complete clearance was achieved. Side effects were evaluated using a severity scale (0 to 4).

RESULTS: The number of sessions was significantly higher with the KTP than with the **Nd:YAG** laser ($p = 0.002$). Erythema, edema, pain and scar formation were higher in the **Nd:YAG** laser group (erythema: $p = 0.001$; edema: $p < 0.001$; pain: $p < 0.001$; scar: $p < 0.001$). The hyperpigmentation rate was statistically higher with the KTP laser ($p = 0.01$).

CONCLUSION: Both KTP and **Nd:YAG** lasers were found to be effective methods. The **Nd:YAG** laser offered fewer **treatment** sessions, but a higher risk of scar formation. The KTP laser seems more advantageous, but in dark-skinned patients the **Nd:YAG** laser may be preferable.

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