1064 nm long-pulsed Nd:YAG laser treatment of basal cell carcinoma.

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BACKGROUND AND OBJECTIVE: Standard surgical and destructive treatments for basal cell carcinoma (BCC) can result in significant morbidity and scarring, stimulating the investigation of alternative non-surgical options. The objective of this study was to determine the safety, clinical, and histological efficacy of pulsed, high-fluence 1064 nm Nd:YAG laser therapy for the treatment of BCC on the trunk and extremities.

STUDY DESIGN/MATERIALS AND METHODS: This was a prospective, non-randomized, open-label clinical trial. Ten subjects with a biopsy-proven BCC less than 1.5 cm in diameter on the trunk or extremities received one treatment with a 10 milliseconds pulsed 1064 nm Nd:YAG laser. Standard excision was performed 1 month after laser treatment to confirm histologic clearance.

RESULTS: The laser treatment was quick and well tolerated. There was complete histologic clearance after one treatment in 92% of the BCC tumors, overall. At higher fluences, there was 100% histologic clearance after one treatment. No significant adverse events were seen, including scarring.


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KEYWORDS: BCC; laser therapy; laser treatment; nonmelanoma skin cancer; skin cancer

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