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A case series of treatment of oral mucosal lesions using diode lasers

Akshay Katara

DY Patil Deemed to be University School of Dentistry, India

Background: Einstein's photoelectric amplification theory provided the template for the development of lasers. With recent technological advancements, the increasing use of lasers in dentistry has had a meaningful impact on the diagnosis and management of oral mucosal lesions. This case series highlights lasers' impact. Case Reports: Five patients with diagnoses of arteriovenous malformation, homogeneous leukoplakia, mucocele, traumatic fibroma, and erosive lichen planus were treated with a diode laser (1,200 J/s; wavelength of 940 nm; 1.5 W; pulse mode). The patients were followed up to evaluate lesion healing and complete healing of the lesion was rapidly achieved with minimal discomfort. Conclusion: Soft-tissue lasers are trending in the management of various oral mucosal lesions due to their advantages of providing higher precision, a clean surgical field with minimal blood loss, accelerated wound healing, and fewer postoperative complications.



Figure 1: (a) A solitary bluish red sessile growth in the right buccal mucosa (Case 1). (b) The surgical site after laser excision (Case 1). (c) Completely healed surgical site