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## Effect of diode laser as an adjunct to conventional flap surgery for treatment of chronic periodontitis – Clinical and microbiological study

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Periodontitis is a chronic inflammatory disease that affects the supporting structures of teeth, resulting in tooth loss. Mainly initiated by plaque-biofilm and characterized by bacteria induced inflammation which leads to the destruction of tooth supporting structures and alveolar bone. Periodontitis is one of the major causes of tooth loss in adults. Periodontal diagnostic procedures provide useful information to the clinician regarding the present periodontal disease type, location, and severity. These findings serve as a basis for treatment planning and provide essential data during periodontal maintenance and disease-monitoring phases of treatment. Traditional periodontal diagnostic parameters used clinically include probing depths, bleeding on probing, clinical attachment levels, plaque index, and radiographs assessing alveolar bone level. Non-surgical periodontal procedures like scaling and root planning followed by periodontal surgical procedures are carried out to restore the periodontal health and function. A major objective of periodontal therapy is to remove the soft and hard, supra and sub gingival deposits from the root surface to stop disease progression. The surgical procedure involving treatment of periodontal pockets mainly aims at reattachment and readaptation of the pocket walls rather than the surgical eradication of the outer walls of the pockets. Recent advancements like lasers, microsurgery and other treatment aids have set a milestone in the field of periodontics. Hence, the aim of this study is to evaluate the benefit of a diode laser to conventional flap technique in the surgical treatment of chronic periodontitis.

### Biography

Hasan Kaleemi has completed his Bachelors in Dental Surgery from Rajiv Gandhi University of Health Sciences and Research. He is currently a senior Post graduate pursuing Masters in Dental Surgery in Periodontology and Implantology. He has presented papers and posters at National and State level conferences.

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