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(57) Abstract :

The invention relates to herbal product gel formulation as an adjunct to scaling and root planing in the treatment of mild to moderate (4-6 mm) periodontal pockets. It particularly relates to effective turmeric gel formulation as an adjunct to scaling and root planing in the treatment of mild to moderate (4-6 mm) periodontal pockets. It specifically relates to preparation of turmeric gel and chlorhexidine gel as an adjunct to scaling and root planing and to evaluate and compare the efficacy of subgingival application for its effectiveness in the treatment of mild to moderate (4-6 mm) periodontal pockets. Turmeric gel formulation comprising effective amount of turmeric powder or curcumin and pharmaceutically acceptable carriers and excipients that includes Carbopol 934, Hydroxypropylcellulose, Triethanolamine, Sodium Saccharin, Menthol and ethanol. The results revealed that both Chlorhexidine gel and Turmeric gel has the effect on mild to moderate (i.e. 4-6 mm) periodontal pockets in chronic periodontitis patients. The turmeric gel demonstrated statistically significant reduction in Plaque Index, Gingival Index, Sulcus bleeding Index, Pocket probing depth. Significant greater reduction was observed in all the parameters in the experimental group with turmeric gel. The turmeric gel is more effective than the chlorhexidine gel in the treatment of mild to moderate periodontal pockets.

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