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**IMMUNOHISTOCHEMICAL ASSESSMENT OF THE ROLE OF FOLIC ACID
IN MANAGEMENT OF GINGIVAL HYPERTROPHY INDUCED BY
NIFEDIPINE IN RABBITS**

Abstract

Aim of the study: this study is aimed to evaluate the effect of folic acid as oral supplement ion in management the hypertrophy of gingivae that occur due to Nifedipine.

Materials and method: the study involve twenty eight male newzeland rabbit classified randomly into fourteen rabbit (control group) receive Nifedipine for about fourteen days for induction of gingival enlargement and the other fourteen rabbit (experimental group) receive both Nifedipine and oral folic acid to evaluate the effect of folic acid on reduction of gingival enlargement.

Result: statistical analysis show significant differences between two group with P-value ≤ 0.05 , in clinical examination there is high gingival enlargement in control group but less elevation in experimental group.

In immunohistochemistry analysis there is mild positive reaction of matrix metalloproteinase (MMP) in control group with strong positive reaction in experimental group.

Conclusion: oral folic acid is most important supplement that should taken for good health of oral mucosa and it show higher efficacy in reduction gingival enlargement in rabbit.