C-17. Treatment of Intrabony Defects with Guided Tissue Regeneration using Space-Providing Suturing Technique. 1 year clinical outcomes.

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The purpose of this clinical trial was to compare the clinical efficacy of 2 treatment modalities in the treatment of deep interproximal intrabony defects. Thirty-four (34) defects in 28 patients were randomly assigned to 1 of 2 treatment groups. The test group was treated with expandedpolytetrafluoroethylene (ePTFE) membranes and space-providing suture technique; the second group was treated with an access flap procedure only. During the 1-year observation period, patients were subjected to a stringent infection control program including professional tooth cleaning every week for the first 6 weeks (two groups) and then checked third a month for 12 months (two groups).

The results indicated that; ① treatment modalities of the two groups resulted in clinically and statistically significant improvements in clinical attachment level(CAL) and probing depths(PD) at 1year; ② a significantly greater amount of CAL gain(P<0.0174) was observed in the test group($4.06\pm1.60\,\mathrm{mm}$) with respect to the control group ($2.53\pm1.94\,\mathrm{mm}$); ③ a significantly greater amount of PD reduction(P<0.0005) was observed in the test group($4.35\pm1.46\,\mathrm{mm}$) with respect to the control group($2.53\pm1.28\,\mathrm{mm}$)

It can be concluded that the combination of space-providing suture technique with expanded polytetrafluoroethylene (ePTFE) membranes resulted in significantly greater CAL and PD improvements than access flaps.

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