

A-16 A comparative study on the predominant cultivable microorganisms following the applications of e-PTFE and collagen membrane and their antibiotic susceptibility test.

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The comparative study on the predominant cultivable periodontopathic bacteria were done 2 weeks after the application of the e-PTFE membrane and collagen membrane in the controlled tissue regeneration procedures. The purpose of the present study also included the antibiotic susceptibility test (ciprofloxacin, tetracycline, clindamycin) of those cultured organisms.

0.1% chlorhexidine mouthwash (10ml twice/day for 6 weeks) and systemic doxycycline (200mg/day for 2 weeks) were administered for supragingival and subgingival plaque control respectively.

Four clinical isolates of A.a from 2 patients were found to be resistant to tetracycline which were susceptible to clindamycin and ciprofloxacin, and two isolates of unidentified microorganisms were resistant to tetracycline. One isolate of W.r and two unidentified microorganisms were resistant to clindamycin and one isolate of NID BPB and E.c and two isolates of unidentified microorganisms were resistant to ciprofloxacin. Overall susceptibility of tested microorganisms to ciprofloxacin, tetracycline and clindamycin were 85%, 77% and 89% respectively.

The result indicated no significant differences in the percentage of cultivable periodontopathic bacteria between the two membranes, and also the microorganisms resistant to tetracycline after systemic administration of doxycycline turned out to be susceptible to either ciprofloxacin or clindamycin.