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2378 Non-surgical periodontal treatment response in male smokers with chronic periodontitis

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Objectives: To study the 12 months healing response after non-surgical periodontal therapy in Chinese male moderate-to-severe periodontitis smokers (test) and neversmokers (control), who were matched for age and mean probing pocket depth (PPD). Methods: 30 patients (mean age 45.6 ± 6.9 years) were recruited. 17 were smokers (≥ 10 cigarettes/day). They received non-surgical periodontal therapy provided by experienced dental hygienists. Clinical parameters including (PPD), probing attachment level (PAL), presence of bleeding on probing (BOP%), and supragingival plaque (PI%) were assessed at six sites around each tooth, excluding third molars, at baseline, 6- and 12-months posttherapy. PPD and PAL were measured using the Florida Probe». Gingival crevicular fluid (GCF) was also measured at 4 sites in each patient. The significance level was set at 0.008, adjusting for multiple comparisons. Results: At baseline smokers had a mean PPD of 2.8mm compared to never-smokers of 2.5mm, p=0.23, and percentage of sites \geq 5mm was 10.6% in smokers and 8.6% in never-smokers, p=0.32. PI% and BOP% were significantly reduced in test (PI%: 77.3%-34.0%, p<0.008; BOP%: 50.0%-24.2%, p<0.008) and control groups (PI%: 84.9%-25.8%, p<0.008; BOP%: 65.4%-25.0%, p<0.008) over the 12-month period. Pocket reduction of sites with initial PPD ≥ 5 mm was significantly less in smokers at 6-months (2.2±0.4mm vs. 2.8±0.6mm, p=0.001) but not at 12-months $(2.4\pm0.4\text{mm vs. }2.9\pm0.6\text{mm}, p=0.016)$. PAL gains in both groups were similar. Smokers presented with more pockets \geq 5mm at both 6- (2.8 \pm 2.1 vs. 0.8 \pm 1.2, p=0.002) and 12months (3.0±2.2 vs. 1.2±1.8, p=0.004). GCF volume was significantly reduced at 6- and 12-months compared to baseline for both groups but the reduction in smokers was less. Conclusion: The present study indicates that the 12 months healing response after nonsurgical periodontal therapy was in general less favorable in male Chinese smokers than never-smokers. Smokers presented with more pockets after non-surgical periodontal therapy.

Seg #191 - Non-surgical Periodontal Therapy

3:30 PM-4:30 PM, Friday, 30 June 2006 Brisbane Convention & Exhibition Centre Exhibit Hall 1

<u>Back to the Periodontal Research - Therapy Program</u>
Back to the IADR General Session & Exhibition (June 28 – July 1, 2006)