

## Brazilian Oral Research

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### Abstract

[MENEZES, Natascha Giovannetti de](#) and [COLOMBO, Ana Paula Vieira](#). Lack of association between the TNF- $\alpha$  -308 (G/A) genetic polymorphism and periodontal disease in Brazilians. *Braz. oral res.* [online]. 2008, vol.22, n.4, pp. 322-327. ISSN . doi: 10.1590/S1806-83242008000400007.

This study evaluated the frequency of the tumor necrosis factor-alpha (TNF- $\alpha$ ) -308 G/A polymorphism in Brazilians with periodontal health (PH = 51), chronic periodontitis (CP = 74) and generalized aggressive periodontitis (GAgP = 38). Human DNA was obtained from mouthwash samples and TNF- $\alpha$  genotyping was performed by PCR and RFLP analyses. Differences in clinical and genetic parameters among groups were sought by Kruskal-Wallis,  $\chi^2$  and Fisher's exact tests. The allele -308G was detected in 91.7%, whereas the allele -308A was found in 35.4% of all subjects. No significant differences were observed in the frequency of these alleles ( $\chi^2 = 2.610$ ,  $p > 0.05$ ) and the genotypes G/G, G/A, and A/A ( $\chi^2 = 2.547$ ,  $p = 0.636$ ) among groups. The data suggest that the TNF- $\alpha$  -308 G/A polymorphism is not associated with periodontitis in this Brazilian population.

Keywords : TNF-alpha; Periodontal diseases; Genetic polymorphism; PCR.

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