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(54) **Title:** IMPROVED METHOD AND KIT FOR DETERMINING SEVERITY AND PROGRESSION OF PERIODONTAL DISEASE

(57) **Abstract:** An improved method and kit of determining whether a patient is predisposed to having severe periodontal disease and/or having high risk of progression of periodontal disease, comprising the steps of (i) taking a biological sample from said patient; (ii) genotyping said biological sample for genetic polymorphism pattern comprising IL1B (rs16944), IL1B (rs1 143623) and IL1B (rs4848306); and (iii) comparing said genetic polymorphism patterns to a reference composite genotype pattern; wherein the similarity of said genetic polymorphism patterns to said reference pattern indicate said patient's predisposition to having severe periodontal disease and/or having high risk of progression of periodontal disease.



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