

Sample, Report

Date Of Birth: 09/20/1980 (36 yrs)
 Gender: Female
 Patient Id:
 Patient Location:

Reason for Testing: Not Provided

Related info: Not Provided

Patient History: Not Provided

Ordering Provider

Ronald McGlennen MD
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Sample Information

Specimen#: 4385853729
 Accession#: 201703-10434
 Specimen: Oral Rinse(P)
 Collected: 05/10/2017 13:00
 Received: 05/11/2017 08:50
 Reported: 05/12/2017 09:39

MOLECULAR DETECTION OF IL-6 PERIODONTAL RISK FACTORS

Genotype	Risk
G/G	HIGH

Interpretation:

This individual's interleukin 6 genotype (IL6) is G/G. This MyPerioID result indicates your patient has a high risk for periodontal inflammation due to the genetic variation examined in this test.

Comments:

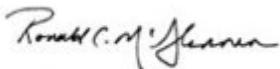
- **Significance:** The prevalence of the G/G genotype is reported to be higher in individuals with moderate to severe chronic periodontitis and aggressive periodontitis than in individuals with no periodontal disease. This finding was independent of other risk factors such as age, smoking, ethnic origin. The 'G' allele is associated with overproduction of interleukin-6 (IL-6) cytokine in the presence of pathogenic periodontal bacteria.

- **Risk:** Individuals carrying an IL6 G allele are associated with increased odds of the concomitant detection of *A. actinomycetemcomitans*, *P. gingivalis* and *T. forsythensis*.

- **Consider:** IL-6 is a potent stimulator of osteoclast differentiation and bone resorption, is an inhibitor of bone formation, and overproduction has been implicated in systemic diseases such as juvenile chronic arthritis, rheumatoid arthritis, osteoporosis, Paget's disease and Sjogren's syndrome. The MyPerioID test assesses one of several risk factors that should be included in an overall evaluation of periodontal disease. Specific bacteria are associated with the initiation of the periodontal disease. Additional risk factors including other genetic markers, smoking, diabetes, and oral hygiene have an amplifying effect on disease progression and duration. The incidence of IL6 genotypes is reported to vary by ethnicity. Additional testing, such as MyPerioPath, may be considered if not already performed.

Methodology: Genomic DNA is extracted and tested for the interleukin 6 genetic variation located at position -174 (rs1800795). This genetic variation is tested by methods of the polymerase chain reaction, endonuclease digestion and resultant restriction fragment detection by automated microcapillary electrophoresis.

Disclaimer: The reported genotypes are a subset of the group of genes that comprise the complete immune system. This genetic analysis may not detect specific immunologic diseases or predict the health and effectiveness of a person's immunity for specific diseases. Such an evaluation may require genetic counseling and testing directed to characterize those genetic conditions. This test was developed and its performance characteristics determined by OralDNA Labs. It has not been cleared or approved by the US Food and Drug Administration.



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