FINAL REPORT

MyPerioID® IL-6

SAMPLE, REPORT

Date of Birth: 01/01/1975 (48 yrs)
Gender: Female
Patient ID: 920-F
Patient Location: Test Site A

ORDERING PROVIDER

Ronald McGlennen MD
7400 Flying Cloud Drive
Suite 150
Eden Prairie, MN 55344
855-672-5362

SAMPLE INFORMATION

Specimen#: 5989009011
Accession#: 230306-03375
Specimen: Oral Rinse(P)

Collected: 06/17/2023
Received: 06/17/2023 23:00
Reported: 06/19/2023 11:30

OralDNA® Labs

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CLIA#: 24D1033809
CAP#: 7190878

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Reason for Testing	Routine Screening
Related Info	Not Provided
Patient History	Cancer, Immunosuppressed

MYPERIOID® MOLECULAR DETECTION OF IL-6 PERIODONTAL RISK FACTORS

Genotype	Risk
G/G	HIGH

Interpretation:

This individual's interleukin 6 genotype (IL-6) 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.

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, and ethnic origin. The 'G' allele is associated with overproduction of IL-6 cytokine in the presence of pathogenic periodontal bacteria.

Risk:

Individuals carrying an IL-6 G allele are associated with increased odds of the concomitant detection of A. actinomycetemcomitans, P. gingivalis, and T. forsynthensis.

Consider:

IL-6 is a potent stimulator of osteoclast differentiation and bone resorption, is an inhibitor of bone formation, and overproduction of IL-6 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 IL-6 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 IL-6 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. The analytical and performance characteristics of this laboratory-developed test (LDT) was determined by OralDNA Labs pursuant to Clinical Laboratory Improvement Amendments (CLIA 88) requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

Ronald C. McGlennen

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Medical Director