FINAL REPORT

MYPERIOPATH®

SAMPLE, REPORT

Date of Birth: 01/01/1980 (45 yrs)
Gender: Female
Patient ID: 920-A
Patient Location:

ORDERING PROVIDER

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

SAMPLE INFORMATION

Specimen#: 170001101239
Accession#: 202504-05931
Specimen: Oral Rinse(P)

Collected: 04/12/2025
Received: 04/13/2025
Reported: 04/15/2025 14:20

ORALDNA® LABS

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oraldna.com

CLIA#: 24D1033809
CAP#: 7190878

MYPERIOPROGRESS

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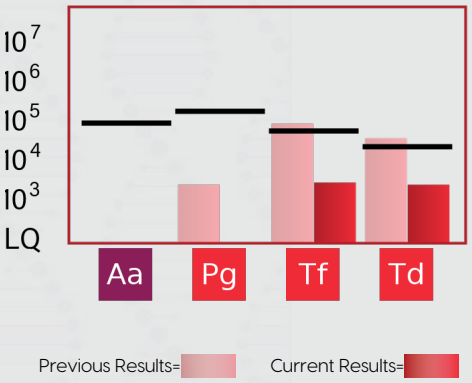
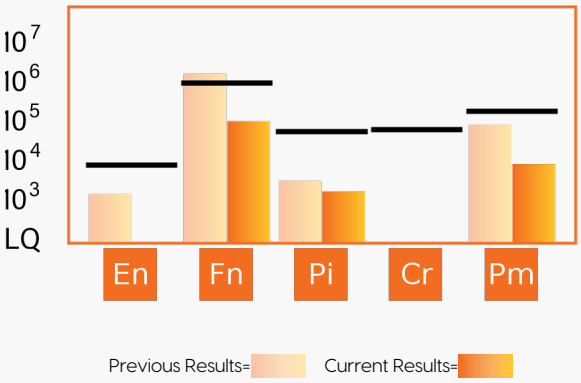
COMPARISON OF TEST RESULTS

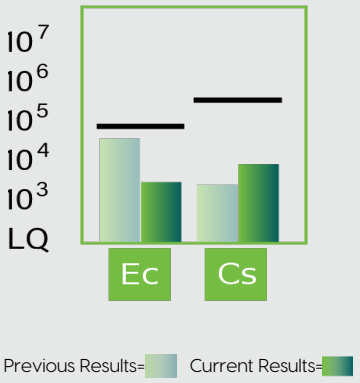
HIGH RISK PATHOGENS



MODERATE RISK PATHOGENS



LOW RISK PATHOGENS



The result graphic displays the bacterial level in genome copies/milliliter in log10 values. The limit of quantification (LQ) is the lowest bacterial level that can be repeatedly measured (10^2). The Reference Lines, displayed as black lines on each bar graph, indicate the mean bacterial level observed in patients with chronic periodontitis AAP Stage I-II. Reference Lines are not to be used as a basis of treatment.

SUMMARY OF RESULTS

Since patient's last test on 04/12/2025:

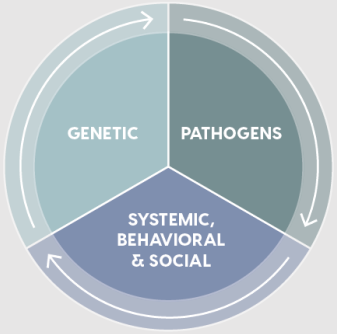
37% DECREASE/REDUCTION

- The results show a reduction of the red (**Pg**, **Tf**, **Td**), orange (**En**, **Fn**, **Pi**, **Pm**) and green (**Ec**) complex pathogens. The persistence of the green (**Cs**) bacteria may be due to their refractoriness to the given treatment.
- These current results are likely associated with a decrease in both oral and systemic inflammation. Consequences of high pathogenic bacteria present for years and decades add significantly to the risk of life threatening diseases beyond the mouth.
- For most treatment protocols, the maximal reduction in pathogen (burden) load is observed when follow-up testing is performed between 6-12 weeks post therapy.
- The typical magnitude of **Fn** reduction is 1.5-2.5 logs. Reduction of **Fn** to these levels may be viewed as success, in particular with a decrease in clinical signs of inflammation.

FURTHER CONSIDERATIONS

Oral and overall health can be influenced by various factors that should be explored

If the amount and profile of bacteria present is not consistent with clinical findings, consider testing for other disease associated organisms and factors including yeast (**OraRisk® Candida**), viruses (**OraRisk® HSV**), or genetic markers of inflammation (**Celsus One™**).



A follow-up test is recommended to monitor the effectiveness of current treatments and to determine the type and frequency of future care.

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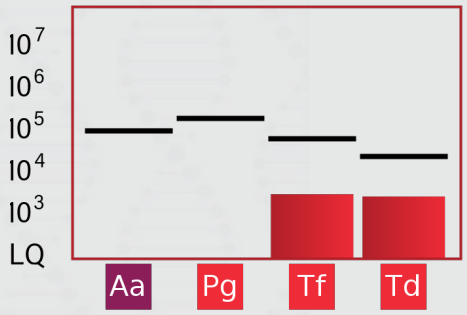
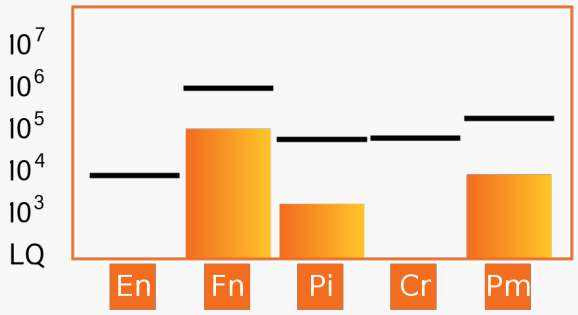
MYPERIOPATH® MOLECULAR ANALYSIS OF PERIODONTAL AND SYSTEMIC PATHOGENS

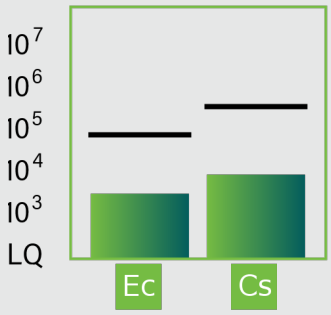
HIGH RISK PATHOGENS



MODERATE RISK PATHOGENS



LOW RISK PATHOGENS



Legend: The result graphic displays the bacterial level in genome copies/milliliter in log10 values. The limit of quantification (LQ) is the lowest bacterial level that can be repeatedly measured (10^2). The Reference Lines, displayed as black lines on each bar graph, indicate the mean bacterial level observed in patients with chronic periodontitis AAP Stage I-II. Reference Lines are not to be used as a basis of treatment.

INTERPRETATION OF RESULTS

For full names of bacteria - see Test Methodology.

- This result shows a combination of 2 high risk (**Tf**, **Td**) and 3 moderate risk (**Fn**, **Pi**, **Pm**) pathogens and low risk **Ec**, **Cs** below the Reference Lines (see Legend).
- Scaling and root planing (SRP) resistant microorganisms **Tf**, **Pi**, **Pm** may not respond to mechanical debridement alone. Tissue invasive microorganisms **Tf**, **Td** can be refractory to treatment. The microbiological characteristics of these bacteria are virulent and transmissible. Adjunctive therapies should be considered to address these bacteria.
- **Tf** can be tissue invasive and is strongly related to increasing pocket depths and refractory infections. A role for **Tf** in the setting of chronic periodontitis includes increased levels of low-density lipoprotein and total cholesterol, both linked to atherosclerotic heart disease.

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SUGGESTED THERAPIES:

To be determined by the healthcare professional

Mechanical/Debridement:

Disruption of biofilm including the removal of plaque and calculus deposits is needed to shift the oral microbiome. This action stimulates the tissue to heal.

Adjunctive Therapies:

Personalized treatment is sometimes needed to address the more resistant bacteria in the profile. Therapies could include some or all but are not limited to:

- Systemic Antibiotics
- Chemical Hygiene
- Antiseptics
- Localized Probiotics
- Localized Antimicrobials
- Lasers
- Tray Delivered Medicaments
- Localized Prebiotics

*The most recent research of the use of adjunctive therapies as monotherapies is not well documented.

Surgical Referral:

When clinical signs and symptoms of a periodontal infection persist, or periodontal anatomy is not conducive to health, periodontal surgical evaluation and/or intervention may be indicated.

Co-Management Referral:

Various bacteria can incite inflammation throughout the body. (See Systemic Effects). These bacteria are important to consider as a source of chronic and systemic inflammation. Additional evaluation for risk of disease may be indicated.

ANTIBIOTIC OPTIONS

To be determined by your healthcare professional. For antibiotic options, refer to:

MyPerioPath Antibiotic Options.

The use of systemic antibiotics should be administered responsibly. Dosage/Duration dependent on severity of infection.

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FOLLOW UP RECOMMENDATIONS

Follow up testing between **6-12 weeks post therapy** with MyPerioPath is recommended. Persistence of bleeding on probing is often indicative of unresolved infection. Retesting will identify residual or refractory bacteria. Currently there is not a cure for periodontal disease, only periods of remission.

Maintenance of periodontal health involves a home care regimen as detailed by your health care provider. Other factors to consider for achieving and maintaining health are attention to nutrition, stress reduction, proper rest, cessation of smoking, as well as emotional connectivity.

The natural history of periodontal disease consists of periods of remission and relapse. **Remission** is established when signs of inflammation are absent at any level of bacteria, and **relapse** is the reappearance of active disease. Consider testing annually or when signs of relapse occur.

CLINICAL CONSIDERATIONS

Diagnostic

- ✔ Natural Dentition: Periodontitis (Stg: III, Gr: B)
- ✔ Implant: Not Provided

Reason for Testing

- ✔ Treatment Follow-up

Clinical

- ✔ Inflammation/Redness
- ✔ Bleeding on Probing

Medical History

- ✔ Past History of Smoking

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SYSTEMIC EFFECTS OF ORAL PATHOGENS

HEART ATTACK & STROKE

Select bacteria such as **Aa**, **Td**, **Tf**, **Pg**, **Pi**, & **Fn** can leak from blood vessels in the gums and travel to the heart, where cholesterol and other lipids deposit. These bacteria can incite inflammation in arteries, and if occluded, cause a heart attack. A goal of treatment is to minimize the levels of these bacteria as much and as long as possible.

CANCER

Chronic gum disease, involving **Aa**, **Pg**, **Td**, **Tf**, & **Fn** is a risk factor for the development of certain cancers including ones involving the pancreas, esophagus, colon, lungs, and the head and neck. Additionally, untreated gum disease is a cause of ongoing inflammation, which may promote the advancing growth of tumors.

RHEUMATOID ARTHRITIS

The periodontal bacteria **Pg**, **Fn**, & **Ec** are a cause of arthritis. The oral inflammation caused by these bacteria also leads to total body inflammation which, combined with changes in a persons immunity, may result in chronic joint diseases like rheumatoid arthritis.

PREGNANCY COMPLICATIONS

Bacteria associated with gum disease, especially **Aa**, **Pg**, **Tf**, **Ec**, & **Fn** are known to put a pregnancy at risk for pre-term birth, decreased birth weight and even blood infection in the placenta or newborn. Every pregnant woman should be tested for these harmful bacteria.

ALZHEIMERS & DEMENTIA

Recent medical studies point to poor oral health, and high levels of the bacteria **Pg**, **Cr**, & **Cs** in our gums, increasing the risk of developing dementia such as Alzheimers.

DIABETES

Obesity, lack of exercise and chronic gum disease involving the bacteria **Aa**, **Pg**, **Td**, **Tf**, & **Fn** cause chronic inflammation. Inflammation can damage the pancreas where insulin is produced, possibly leading to diabetes. Also, diabetes worsens oral health by increasing the level of harmful bacteria in the gums.

Methodology: Genomic DNA is extracted from the submitted sample and tested for 10 species-specific bacteria [**Aa**: Aggregatibacter actinomycetemcomitans, **Pg**: Porphyromonas gingivalis, **Tf**: Tannerella forsythia, **Td**: Treponema denticola, **En**: Eubacterium nodatum, **Fn**: Fusobacterium nucleatum/periodontium, **Pi**: Prevotella intermedia, **Cr**: Campylobacter rectus, **Pm**: Peptostreptococcus (Micromonas) micros, **Ec**: Eikenella corrodens] and 1 genus of bacteria [**Cs**: Capnocytophaga species (gingavalis, ochracea, sputigena)] known to cause periodontal disease. The bacteria are assayed by real-time quantitative polymerase chain reaction (qPCR). Bacterial levels are reported in log 10 copies per mL of sample (e.g. 1x10^3 = 1000 bacteria copies per mL of collection). Cross-reactivity is possible with Leptotrichia buccalis, Fusobacterium hwasooki, and Capnocytophaga granulosa. The analytical and performance characteristics of this laboratory-developed test (LDT) were 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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