COMPARISON OF RESULTS

Sample, Report

Date Of Birth: 09/20/1980 (37 yrs)

Gender: Female Patient Id: 789

Patient Location: Test Location A

Previous Test

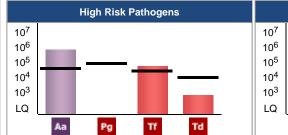
Specimen#: 5033032170 Accession#: 201807-12481 Specimen: Oral Rinse(P) Collected: 05/16/2018

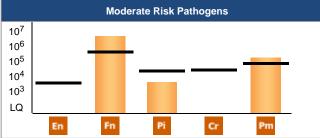
Current Test

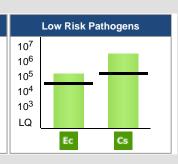
Specimen#: 5110000014 Accession#: 201807-12514 Specimen: Oral Rinse(P) Collected: 07/23/2018

COMPARISON OF TEST RESULTS

MyPerioPath - Previous Result

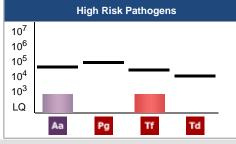


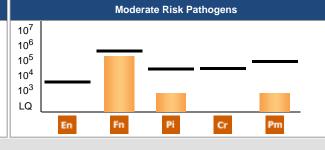


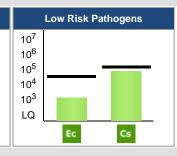


Innovations in Salivary Diagnostics

MyPerioPath - Current Result







Summary of Results

Total Bacterial Load

46%

Reduction

Since patient's last test on 05/17/2018:

- Congratulations, since the last test submitted 2 months 7 days ago, the clinical management of this patient has achieved a 46% reduction in periodontal pathogen (burden) load.
- 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. This sample was collected at 9 weeks 5 days from the previous test.

Clinical Comparison	Previous 05/17/2018	Current 07/24/2018
Total # Bacteria Present	8	7
Total # Bacteria Above Threshold	6	0
Deepest Pocket	5	5
Localized Infection		
Generalized Infection	V	V
Inflammation/Redness	V	
Bleeding on Probing		
Bone Loss		
Discharge		
Halitosis/Malodor		

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

Discover the Facts...

what you may not know about oral bacteria and how it relates to overall health



Successful reduction of red complex pathogens, but in particular , are predictive of long term control of the disease. By contrast, no single clinical parameter is a reliable indicator of disease progression.

Web enabled system provided by: access genetics



FINAL REPORT

Sample, Report

Date Of Birth: 09/20/1980 (37 yrs) Gender: Female

Patient Id: 987

Patient Location: Test Location A

Ordering Provider

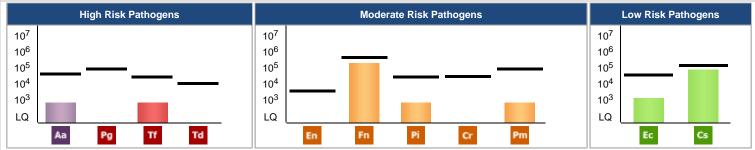
Ronald McGlennen MD 7400 Flying Cloud Drive Suite 150 Eden Prairie, MN 55344 855-123-1234

Sample Information

Specimen#: 5110000014 Accession#: 201807-12514 Specimen: Oral Rinse(P) Collected: 07/24/2018 Received: 07/24/2018 13:07 Reported: 07/27/2018 14:48

MYPERIOPATH MOLECULAR ANALYSIS OF PERIODONTAL AND SYSTEMIC PATHOGENS

Results



Legend: The result graphic (above) shows the bacterial level for each of the assayed species. The vertical axis displays bacterial genome copies/milliliter in log10. The limit of quantification (LQ) is the lowest bacteria level that can be repeatedly measured. The black lines across each colored bar are the Therapeutic Threshold.

Interpretation of Results

- This result shows a combination of 2 high risk (🔼 , 🔟) and 3 moderate risk (🖪 , 🖳) pathogens and low risk 🚾 , 😉 each below the therapeutic threshold.
- The bacterial species unand/or Manager associated with chronic periodontitis, are transmissible and tissue invasive even at low amounts of these organisms. Moreover, unspecies to species of cases of periodontitis and is often symbiotic with other pathogens such as the symbiotic with other pathogens.
- The detected pathogens are also risk factors for various systemic diseases, including atherosclerosis, type 2 diabetes, arthritis, dementia and several types of cancer. Difficulty in controlling infections involving has been attributed to resistance to many antibiotics, including penicillins, cephalosporins, and tetracyclines. P.intermedia cells form a biofilm in which the bacterial cells become more resistant to antibiotics.

Treatment Considerations: to be determined by the healthcare professional

- Mechanical/Debridement: Scaling and root planing (SRP) is a mainstay of therapy to disrupt biofilm, remove plaque and debride compromised tissue. This patient harbors a series of pathogens that may be refractory to this treatment.
- Systemic Antibiotics: A recommendation of systemic antibiotics is not provided for this bacterial profile. For an antibiotic treatment guide, reference MyPerioPath Antibiotic Options.
- Local Antibiotics and Chemical Hygiene: As an adjunct to SRP, sub-antimicrobial doses of doxycycline hyclate lower collagenase activity and reduce periodontal pocket depth. Alternatively, locally delivered antimicrobial agents (LDA) including minocycline microspheres, doxycycline hyclate in an absorbable polymer, or chlorhexidine in a gelatin matrix have been shown to decrease pocket depth modestly.
- Pocket or Field Decontamination: Laser decontamination as an adjunct therapy to SRP may be beneficial in reducing probing depth and bacterial loads. The consideration of using lasers as an adjunct to SRP is dependent on type of laser used and the particular protocol.
- Chemical and Gaseous antiseptics: Chlorhexidine or Povidine iodine rinses can reduce periodontal pocket depth. Prescription tray application of peroxide gel, as an adjunct to frequent periodontal maintenance appointments for refractory patients, demonstrated significant reductions in bleeding on probing. Ozone is a volatile antiseptic that can disrupt microbial membranes.
- Probiotics and Prebiotics: Probiotics are live, beneficial bacteria, typically administered as a food or dietary supplement. Prebiotics are
 non-digestible ingredients that promote growth of commensal bacteria. Research shows that prebiotics and probiotics control the growth of
 pathogens and reverse tissue destruction caused by periodontitis.
- Periodontal Surgery: When clinical signs & symptoms of a periodontal infection persist, or periodontal anatomy is not conducive to health, periodontal surgical evaluation and/or intervention may be indicated.

Follow up Recommendations

- Good periodontal health depends on compliance of a home care regimen as detailed by your healthcare provider. Daily brushing, flossing, as well as attention to nutrition, proper rest and cessation of smoking are essential.
- Follow-up testing between 6-12 weeks 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.
- Assessment of a patient's level of inflammation with Celsus One is valuable in deciding the frequency of patient recall and treatment.





Sample, Report (ID: 987)

Date Of Birth: 09/20/1980 Gender: Female

Sample Information

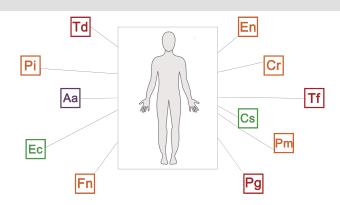
Specimen#: 5110000014 Accession#: 201807-12514 Specimen: Oral Rinse(P) Collected: 07/23/2018



Clinical Considerations

Reason for Testing	Clinical	Diagnostic	Medical History
✓ Treatment Follow-up	Generalized Infection		✓ Neurologic/Memory Loss✓ Arthritis/Auto Immune Disease

Systemic Effects of Oral Pathogens



Cancer

Cardiovascular Health

Joint and Musculoskeletal Health

Dementia and Brain Health

Metabolic Health Healthy Pregnancy

Chronic gum disease, involving [As], [Po], [Td], [Tf], & [fo] 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.

Select bacteria such as

All, Td, Td, Po, Po, & Fo
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.

The periodontal bacteria Po, 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 person's immunity, may result in chronic joint diseases like rheumatoid arthritis.

Recent medical studies point to poor oral health, and high levels of the bacteria p, c, c in our gums, increasing the risk of developing dementias such as Alzheimer's.

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. This test was developed, and its performance characteristics determined by OralDNA Labs pursuant to CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary.

©2021 OralDNA Labs, A Service of Access Genetics, LLC All Rights Reserved

Ronald McGlennen MD, FCAP, FACMG, ABMG Medical Director