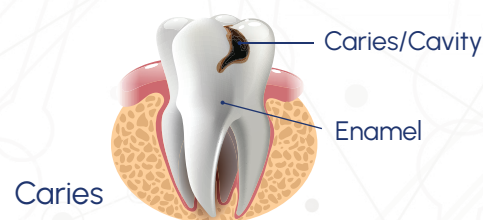
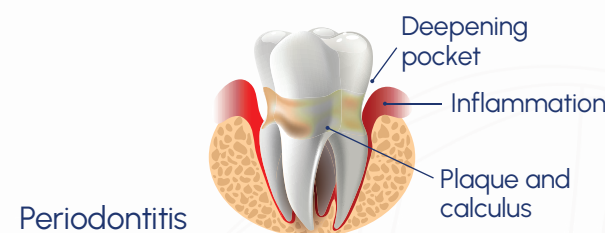
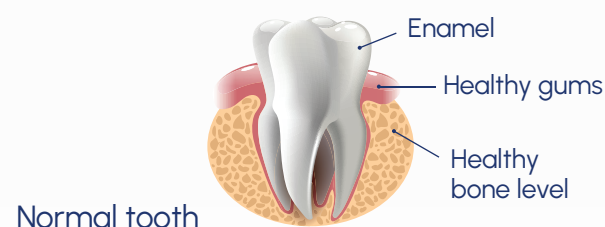


What causes periodontal disease and tooth decay?

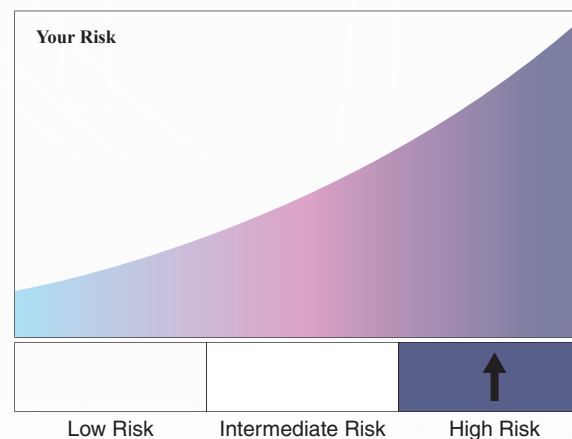
Many factors contribute to a person's risk of developing periodontal disease and or tooth decay. These can include age, diet, oral hygiene, smoking, ethnicity, and other conditions like diabetes..



The Process.

- 1. Testing**
Your dentist or dental hygienist will help administer the cheek swab and create your patient portal with AI Genetics, where you will be able to access your results.
- 2. Sample Return**
Your dental practitioner's office will send the sample directly back to AI Genetics.
- 3. Analysis**
Once the sample is received by the AI Genetics laboratory at Mount Sinai Hospital, it will be analyzed.
- 4. Interpretation**
Results from the analysis are automatically interpreted using the polygenic risk score. A polygenic risk score is a mathematical model that combines published data of the markers that are associated with the risk of developing periodontal disease or tooth decay.
- 5. Results**
Once the test results are available, both you and your dental practitioner will be notified and results accessed through the patient portal.

The Science. What does the test do?



The test plots an individual's relative risk of developing periodontal disease and dental caries against a standard population. Genetic markers are ranked and weighted to ensure identification of markers with the greatest impact to these conditions or disease.

The Benefits.

Having advanced knowledge of the likelihood of developing periodontitis or dental caries offers numerous advantages. It enables patients like yourself to take proactive measures to mitigate risk factors and maintain optimal oral health.

Early detection of predisposing factors such as genetic risk, allows for more proactive strategies and personalized treatment plans, potentially preventing the onset or progression of these two very common diseases. With the help of their dental practitioner, individuals can adopt more customized care plans that suit their unique risk profile. Together, they can work towards adopting treatment protocols, tools and lifestyle modifications that can rewrite their potential history and lead toward optimal oral health and wellness.

Gain Insights. Take Action.



Not only do these conditions affect oral health, they can also be costly and lead to more serious health problems.

Using biomarkers, geneticists have been able to identify approximately 35 genetic markers associated with dental caries and 25 genetic markers associated with periodontal disease.

With the assistance of AI, the mathematical model combines the information about these markers to determine if someone may have an average, high or low baseline risk of developing these conditions.

ORAL  RISK

ORAL  RISK

Ask your dental health provider about OralRisk and find out why knowing can create better outcomes.

Your Dental Health and Your Genetic Code.

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Genotyping

Genotyping is the process of determining differences in the genetic make-up of an individual by examining the individual's DNA sequence using biological assays and comparing it to another individual's sequence or a reference sequence.

The OralRisk test assesses an individual's risk of developing two of the most common conditions: Periodontal Disease (Gum disease) and Dental Caries (Cavities).

