

## Did You Know?

The Centers for Disease Control state that HPV is the leading cause of oral cancers.

**70%** OF ORAL CANCERS  
ARE LINKED TO HPV

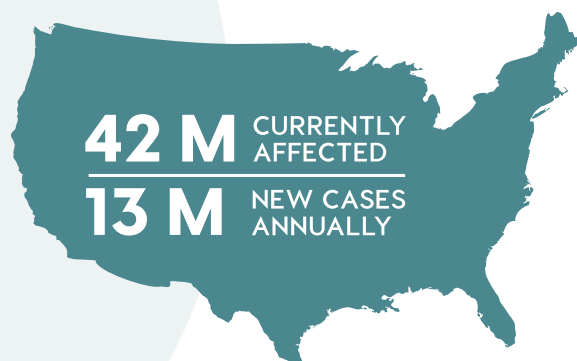
## How Can You Get Oral HPV?

Oral HPV is a common virus that can be passed from one person to another through:

- Passage from mother to newborn
- Oral sex
- Deep (open-mouth) kissing

You may not have any symptoms, but the virus can still be present.

Source: CDC



## Who Should Be Tested?

Those who have:

- Traditional risk factors for oral cancer (tobacco, excessive alcohol)
- Been sexually active
- A family history of oral cancer
- Signs or symptoms of oral cancer
- Suspicious oral lesions

## Other Tests from OralDNA

- **MyPerioPath®** detects 11 harmful bacteria that cause gum disease and threaten oral and overall health
- **MyPerioID® IL-6** identifies genetic risk for gum infections and inflammation
- **OraRisk® Caries** identifies 3 types of harmful bacteria known to cause cavities
- **OraRisk® Candida** identifies fungal infections caused by the yeast, Candida
- **Celsus One™** evaluates eight gene markers related to your inflammatory response
- **OraRisk® HSV** identifies Herpes Simplex Virus Type 1 and 2

All OralDNA Labs' tests can be ordered from a simple oral rinse collection.

More information at [OralDNA.com](https://OralDNA.com)



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## ORARISK® HPV

## Oral HPV and Oral Cancer: Are you at risk?



## Why Get Screened?

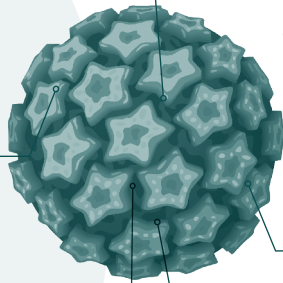
Annual screenings are a simple and important way to:

- **Catch problems early** before symptoms appear
- **Understand your risk** even if you feel fine
- **Get personalized care** including any needed referrals or monitoring

OraRisk HPV is a simple screening test that can identify 50 types of oral HPV, a viral infection that could potentially lead to oral cancer.

High risk HPV types can cause changes in the mouth and throat. The changed cells carry an increased risk of becoming cancerous.

Oral HPV is about three times more common in men than in women.



HPV viruses affect the skin and moist membranes of the body, such as the mouth and throat.

"Every day in the US, about 12,000 people ages 15-24 are infected with HPV."  
Source: Oral Cancer Foundation

Ongoing research will help us better understand the transmission of this very common virus.



## Sample Result

Sample Report		Ordering Provider	
Date of Birth: 01/01/1975 (48 yrs)	Gender: Female	Patient ID: 92041	Patient Location: Test Site A
Reason for Testing Related Info		Evaluation of suspicious lesion	Not Provided
Lesion Size Color		3mm x 1mm	Red
Lesion Location(s)		Hard Palate	
MOLECULAR GENOTYPING OF HUMAN PAPILLOMAVIRUS (HPV) IN THE OROPHARYNX			
HPV Type	Risk		
16	High		
Clinical photo of oral leukoplakia		Microscopic view of severe dysplasia in biopsy	
Oropharyngeal HPV <ul style="list-style-type: none"><li>• Contracted by direct contact</li><li>• Most infections resolve</li><li>• New infections may be protected by vaccine</li></ul>			
Some infections persist			
Small percent progress to cancer			
Interpretation: This sample is positive for the following HPV type(s): 16. This HPV infection is considered high risk for development of dysplasia or neoplasia of the oropharyngeal tract. These results do not exclude the possibility of HPV not detected due to incomplete specimen collection or assay sensitivity. See...			

## MOLECULAR GENOTYPING OF HUMAN PAPILLOMAVIRUS

HPV Type	Risk
16	High

## 50 Types Identified

### High Risk Genotypes:

16, 18, 26, 30, 31, 33, 34, 35, 39, 45, 51, 52, 53, 56, 58, 59, 64, 66, 67, 68, 69, 73, 82

### Low Risk Genotypes:

2a, 6, 11, 32, 40, 42, 43, 44, 54, 55, 57, 61, 62, 70, 71, 72, 74, 77, 81, 83, 84, 89

### Unknown Risk Genotypes:

41, 49, 60, 75, 80

\* Risk categories are identified by the International Agency for Research on Cancer (IARC)

## Warning Signs

Early oral HPV infections do not typically cause clinical signs or symptoms. Clinical signs and symptoms of an oral HPV infection may include:

- Ulcer/sore that doesn't heal within 2-3 weeks
- Red, white, or black discoloration on soft tissues in the mouth
- Persistent sore throat
- Difficult or painful swallowing
- Swelling or lump in the mouth, head, or neck
- Swollen but painless tonsil

**70-90%**  
of HPV infections  
are asymptomatic

Source: American Society for Microbiology

That's why early detection matters.

## The Impact of HPV

HPV can cause normal cells to turn abnormal—which you may not see or feel happening. Generally, the body fights off the HPV infection naturally and infected cells return to normal. In cases when the body does not fight off this virus, HPV can cause visible changes and certain types can cause oral cancer.

## Are You at Risk?

**Test. Don't Guess!**

Don't wait for symptoms to show—test today!

A simple oral rinse collection is all it takes!

