### Leveraging cfHPV-DNA to develop novel therapeutics for HPV-associated OPSCC.

As the rate of HPV-associated oropharyngeal squamous cell carcinoma (OPSCC) continues to surge, drug developers can leverage biomarkers such as cfHPV-DNA to guide novel therapeutic development. Learn how cfHPV-DNA testing can help.



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# HPV-associated head and neck cancers present a growing problem in the United States:



Nearly **45,000** HPV-associated cancers are diagnosed annually in the US.<sup>1</sup>



Of these, **15,000** cases are head and neck cancers.<sup>1</sup>



Approximately **80**% of all OPSCC cases in US are associated with HPV.<sup>2</sup>



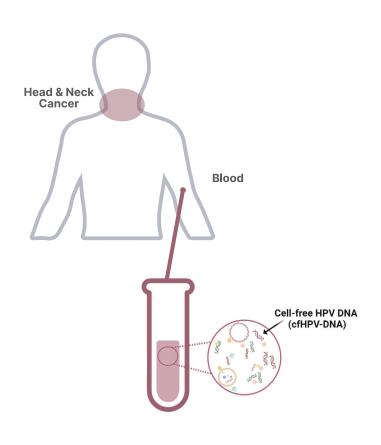
Incidence of
HPV-associated
OPSCC in **men** has
surpassed that of
cervical cancer in
women, making OPSCC
the most common
cancer caused by HPV
in the US.<sup>3</sup>

cfHPV-DNA has emerged as a biomarker of predicting benefit from novel therapeutics strategies.

#### **How it works:**

HPV-associated OPSCC tumor cells shed HPV-DNA into the bloodstream, allowing drug developers to detect and quantify cfHPV-DNA from a simple blood draw.

Using this method, HPV-SEQ — a commercially available plasma based NGS assay — provides quantitative detection of cfHPV 16 and 18 DNA.



#### **HPV-SEQ** is:



#### **Ultrasensitive**

Clinical sensitivity of detecting cfHPV-DNA in pretreatment baseline samples:

97.6%

(95% CI, 91.5% – 99.7%)<sup>4</sup>



#### Reliable and consistent

Can detect as low as 2 copies of HPV 16 and HPV 18 DNA

### WITH LOW QUANTITATIVE VARIABILITY

(<30% CV above 5 copies)<sup>4</sup>

## Using HPV-SEQ, drug developers can:



**Assess patients' trial eligibility,** by determining patients' HPV status and subtype with a simple blood draw.



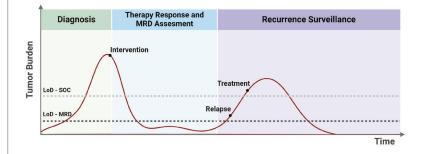
**Gain real-time insights into treatment response,** by assessing dynamic changes in cfHPV-DNA quantitatively over the course of treatment.



Detect recurrent disease — including distant recurrence — early, with detection that predates the current standard of care. Up to 30% of patients with HPV+ OPSCC experience recurrence.<sup>5</sup>



**Enhance trial participants' experience,** by testing with a minimally invasive blood draw instead of biopsy or surgical procedures.



Leverage HPV-SEQ to enhance your next clinical trial

sysmex-inostics.com/cfhpv-dna-assay

