

FINAL REPORT

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Sample, Report

Date Of Birth: 07/03/1981 (34 yrs)

Gender: Female Patient Id: 123456

Patient Location: ABC Clinic

Ordering Provider

Ronald McGlennen MD 7400 Flying Cloud Drive• Eden Prairie, MN • 55344

855-672-5362

Reason for Testing: Evaluation of suspicious lesion

Related info: Not Provided Patient History: Not Provided Lesion Color: Red

Lesion Location(s): Hard Palate

Sample Information

Collected: 08/29/2015 07:10 Accession#: 201509-02785 Received: 09/01/2015 12:40 Reported: 09/03/2015 13:23

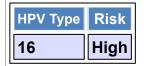
Lesion Size: 1mm x 3mm

Specimen#: 39136881

Specimen: Oral Rinse

Body Site: Oropharyngeal

MOLECULAR GENOTYPING OF HUMAN PAPILLOMAVIRUS (HPV) IN THE OROPHARYNX

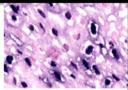




Clinical photo of oral leukoplakia

Oropharyngeal HPV

- Contracted by direct contact
- New infections may be protected by vaccine
- Most infections resolve
- Some infections persist
- Small percent progress to cancer



severe dysplasia in biopsy

Page 1 of 1

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 sampling or assay sensitivity. See comments.

Comments:

- Significance: HPV of the oropharyngeal tract is caused by person to person contact with implications for the development of cancers such as those involving the oral mucosa, the tonsils, the base of tongue, and throat. The diagnosis of dysplasia and cancer are based on the morphologic assessment of a specimen obtained from biopsy.
- Risk: The clinician's assessment of patient risk for a given HPV type involves several factors including the time duration of the infection, the patient's hormonal and immune status and whether there are coincident social habits or underlying disease that increase the general risk of malignancy. The HPV type identified in this sample is listed as high risk, meaning that the virus(es) has been associated with malignant changes in infected cells. HPV risk classifications are derived from the IARC's evaluation of the carcinogenicity to humans. (IARC. 2009. A Review of Human Carcinogens Part B: Biological Agents. IARC Monogr Eval Carcinog Risks Hum, 100b. Retrieved from http://monographs.iarc.fr/index.php.)
- Consider: Office protocols for patient follow-up (e.g. more frequent exam intervals, use of adjunctive early detection methods, referral to oral surgeon or ENT for further evaluation) and repeat HPV testing as necessary to determine if HPV infection is persistent or has resolved.

Methodology:•Genomic DNA was extracted and amplified by polymerase chain reaction (PCR) using consensus oligonucleotide primers specific for the L1 region of the human papillomavirus (HPV) genome. Samples positive for HPV DNA were then subjected to digestion with a series of restriction endonuclease enzymes. The resulting DNA fragments were analyzed by methods of automated microcapillary electrophoresis. A series of digital electropherograms and rendered gel images were generated, the results interpreted by matching of resulting display of DNA fragments to the restriction patterns of known and validated HPV types. The analytic sensitivity of this assay for the detection of HPV has been validated to be 37.1 genome copies/reaction. References:

Chung CH, Gillison ML. Human papillomavirus in head and neck cancer: its role in pathogenesis and clinical implications. Clin Cancer Res 2009;15:6758-62.

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Web enabled system provided by: access genetics

Herrero R, Castellsague X, Pawlita M, et al. Human papillomavirus and oral cancer: the International Agency for Research on Cancer multicenter study. J Natl Cancer Inst 2003;95:1772-83.

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Medical Director

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