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Response from Dr. Cleveland and colleagues

Jennifer L. Cleveland, DDS, MPH [Dental Officer and Epidemiologist], Michele L. Junger, DDS, MPH,

Dental Public Health Resident, Division of Oral Health

Mona Saraiya, MD, MPH [Medical Epidemiologist],

Division of Cancer, Prevention and Control National Center for Chronic Disease Prevention and Health Promotion

Lauri E. Markowitz, MD [Medical Epidemiologist], Eileen F. Dunne, MD, MPH [Medical Epidemiologist], and

Division of Sexually Transmitted Disease Prevention, National Center for Hepatitis, HIV/AIDS, Sexually Transmitted Diseases, and Tuberculosis Prevention, Centers for Disease Control and Prevention, Atlanta

Joel B. Epstein, DMD, MSD, FRCD(C), FDS RCS(Edin) [Director]

Oral Medicine, Adjunct Professor Division of Head and Neck Surgery, City of Hope, Duarte, Calif. and, Medical-Dental Staff Clinician Cedars-Sinai Medical Center, Los Angeles

We would like to thank Dr. Fleisher for taking the time to review and respond to our article. As we carefully pointed out in our article, human papillomavirus (HPV)-associated oropharyngeal cancers commonly involve the base of the tongue and tonsils, and rarely occur in the oral cavity. We agree with Dr. Glick and Dr. Newell Johnson in their August 2011 guest editorial1 when they say, "Precision is needed about the site of origin of these cancers, as lesions at different anatomical locations can have different etiologies and different outcomes. To follow and compare epidemiologic studies, there needs to be agreement regarding terminology"

One of the major issues Dr. Fleisher poses involves communicating with our patients about methods to prevent oral HPV infection and HPV-associated oropharyngeal cancers. Patients should understand that HPV vaccines are effective in preventing certain HPV infections and cancers,^{2,3} but their effectiveness in preventing oral HPV infection or oropharyngeal cancer is unknown. Because the HPV types targeted by the vaccines also are the main types responsible for oropharyngeal cancer, both of the available HPV vaccines might reduce disease burden. However, the impact of HPV vaccines on these cancers would not be apparent for many years.

Tobacco and alcohol use may increase the risk for some HPV-associated oropharyngeal cancers in addition to non-HPV-associated head and neck cancers.⁴ Tobacco-use prevention and cessation programs have been shown to be effective in reducing the number of tobacco users.⁵ As we noted in our article, dental health care personnel should ask patients about their tobacco and alcohol use, inform users about associated risks, encourage tobacco-use cessation and provide appropriate counseling.

Some studies have shown that oral HPV infection is associated with oral sex or other sexual behaviors, while other studies have not.^{6,7} In addition, important questions remain unanswered about oral HPV infection and its link to oropharyngeal cancers. For example, what cofactors contribute to oral HPV infection's leading to cancer? What is the persistence and clearance of infection in the oral cavity, and does persistent infection lead to cancer? What is the latency period between infection and carcinogenesis? Until we have more information on the natural history of these cancers, dental personnel should continue to promote proven risk reduction strategies such as tobacco-use cessation and limiting alcohol use.

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